Liquent InSight Rendering Business Service Reference Guide

parexel

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Liquent InSight Rendering Business Service Reference Guide

Business services are conceptually the same as Windows DLLs in that they have functions that take input and output parameters. The difference lies in how a business service is invoked.

Instead of being called directly from client code, a request is submitted to the Vista framework which then executes the business service asynchronously on the client's behalf. This request is known as a "job ticket" and is an XML packet that identifies the business service and the specific requests to be executed by the business service. In business service terminology a "request" is analogous to a DLL function. Requests, like DLL functions, have typed parameters that are name-value pairs.

Basic Job Tickets

Basic Tickets For example, say you have a business service named "math" and it has a request named "calculatesquare-root" which takes an input parameter named "number" and has an output parameter named "square-root". The job ticket would look like the following:

```
<math>
<request name="calculate-square-root">
<number type="integer">144</number>
</request>
</math>
```

After execution the job ticket would be:

```
<math>
<request name="calculate-square-root">
<number type="integer">144</number>
<square-root type="double">12</square-root>
</request>
</math>
```

The important thing to note in this example is that the top-level (i.e., root) node identifies the business service and its child node is the request. The XML attribute "name" contains the specific request name. The child nodes of the request node are the parameter values. Any output parameters will be added when the request is executed. More than one request can be made of a business service.

The following is possible:

```
<math>
<request name="calculate-square-root">
<number type="integer">144</number>
</request>
<request name="calculate-square-root">
<number type="integer">65</number>
</request>
<request name="is-prime-number">
<number type="integer">11</number>
</request>
</math>
```

With results:

```
<math>
<request name="calculate-square-root">
<number type="integer">144</number>
```

```
<square-root type="double">12</square-root>
</request>
<request name="calculate-square-root">
<number type="integer">65</number>
<square-root type="double">8.06</square-root>
</request>
<request name="is-prime-number">
<number type="integer">11</number>
<prime type="bool">1</prime>
</request>
</math>
```

The top-level node allows for optionally specifying information about the ticket (i.e., submitter, product, job name, and priority). For example:

```
<math submitter="John" product="ProductX" job-name="Test" priority="1">
<request name="calculate-square-root">
<number type="integer">144</number>
</request>
</math>
```

The submitter, product, and job name attributes are used to identify the job ticket. Their values are user defined. These values will appear in the Domain Manager application. The Domain Manager will allow the user to filter the jobs displayed based on these values.

The priority attribute will determine the priority level at which the job ticket will be executed. However, this only applies if the business service is configured to be priority-based (as opposed to FIFO). Priorities can be from 1 to 10 with 1 being the highest. If no priority is specified then a priority of 5 is assumed.

Note: The user may add other attributes to the top-level node as desired. These attributes will be ignored and not stripped out.

Basic Workflow Tickets

The examples in *Basic Job Tickets* show job tickets executing requests for only one business service. If there is a need to execute requests for more than one business service then the workflow business service can be used. For example:

```
<workflow submitter="John" product="ProductX" job-name="Test" priority="1">
<math>
<request name="calculate-square-root">
<number type="integer">144</number>
</request>
</math>
<dictionary>
<request name="get-definition">
<word type="string">inchoate</word>
</request>
</dictionary>
</workflow>
```

This example will execute the “math” and “dictionary” business services in sequence. By default, if a business service fails then workflow processing will be aborted (i.e., remaining business services will not be executed). If you wanted the ‘dictionary’ business service to execute even if ‘math’ failed then you can specify the “on-fail” option for the “math” business service as follows:

```
<workflow submitter="John" product="ProductX" job-name="Test" priority="1">
<math on-fail="continue">
<request name="calculate-square-root">
<number type="integer">144</number>
</request>
</math>
<dictionary>
<request name="get-definition">
<word type="string">inchoate</word>
</request>
</dictionary>
</workflow>
```

The “on-fail” option may be “continue” or “end”. If the option is not specified then “end” is assumed.

Note that optional information about the ticket (i.e., submitter, product, job name, and priority) may be specified at the workflow level and at each subordinate business service. If a business service does not have this information then the workflow information will be used.

Dependent Workflow Tickets

Dependent workflow job tickets are those that allow the input of one business service to be dependent on the output of a previous business service. Obviously, the value of business service output parameters can only be known at execution time. Workflow job tickets solve this problem by allowing a parameter to reference another parameter value in the job ticket using XML XPath queries.

The following is a more realistic example that retrieves a copy of a source document from Documentum, renders the copy to PDF, and then adds the rendition back to the source document. This is accomplished by calling the “retrieve”, “render”, and “distribute” business services.

Without getting into details of how these services work, “retrieve” has an output parameter called “local-path” that will contain the full path of the copy of the source document. “Render” has an input parameter that is the path of the file to be rendered. Similarly, “distribute” has a “local-path” input parameter that is the file to be added as a rendition. At the time of writing the ticket, these paths are not known. However, as highlighted in bold below, you can specify the “from” attribute on a parameter.

The attribute value can be any valid XPath query that can be used by the workflow service to resolve the parameter value. The XPath query should uniquely identify another node in the job ticket whose text value will be copied. As mentioned earlier, the workflow business service sequentially executes the subordinate business services. Prior to the execution of each business service, workflow will resolve any parameters having the “from” attribute.

```
<workflow job-name="Test Workflow" submitter="John" product="Vista">
<retrieve>
<request tag="request1" name="retrieve-document">
<URL type="string">dms://dctm/borg/09015bda800081db?label=CURRENT</URL>
<content-type type="string">doc</content-type>
</request>
</retrieve>
<render>
<request tag="request2" name="render-pdf">
<document-name
type="string">dms://dctm/borg/09015bda800081db?label=CURRENT
</document-name>
<local-path type="string"
from="retrieve/request[@tag='request1']/local-path">
</local-path>
<force-rendition type="bool">1</force-rendition>
<content-type type="string">doc</content-type>
<rendition-found type="bool">0</rendition-found>
</request>
</render>
<distribute>
<request tag="request3" name="distribute-rendition">
<URL type="string">dms://dctm/borg/09015bda800081db?label=CURRENT</URL>
<local-path type="string"
from="render/request[@tag='request2']/local-rendition-path">
</local-path>
<format type="string">pdf</format>
</request>
</distribute>
</workflow>
```

After “retrieve” is executed, its portion of the ticket will appear as follows. Notice that the “localpath” output parameter has been added:

```
<retrieve>
<request tag="request1" name="retrieve-document">
```

```
<URL type="string">dms://dctm/borg/09015bda800081db?label=CURRENT</URL>
<content-type type="string">doc</content-type>
<local-path type="string">c:\Temp\aa123.tmp.doc</local-path>
</request>
</retrieve>
```

Before executing “render”, workflow will modify the ticket to resolve the renders “local-path” parameter by copying the value of the retrieve “local-path” parameter. The render portion of the ticket then looks as follows:

```
<render>
<request tag="request2" name="render-pdf">
<document-name
type="string">dms://dctm/borg/09015bda800081db?label=CURRENT
</document-name>
<local-path type="string" from="retrieve/request[@tag='request1']/localpath">
c:\Temp\aa123.tmp.doc</local-path>
<force-rendition type="bool">1</force-rendition>
<content-type>doc</content-type>
<rendition-found type="bool">0</rendition-found>
</request>
</render>
```

Note in the above example that the “local-path” parameters for ‘retrieve’ and ‘render’ are both type “string”. If the parameters are not the same type then the “from” option will fail. If no type is specified on a parameter then “string” is assumed.

The author of the job ticket is allowed to use whatever XPath query works. In the above examples, “request” nodes were qualified with a “tag” attribute and the XPath queries used the tag as follows:

```
retrieve/request[@tag='request1']/local-path
```

This approach is merely a convention and not required.

A variation on the above involves parameters whose values are XML. You can specify the “from” attribute on any node within the parameter value. However, the parameter node must have the “resolve-from” attribute specified and set to “1” (true). Prior to executing the business service, workflow will look for parameters that are type “xml”. If “resolve from” is true for the parameter, then all nodes in the XML will be examined for “from” attributes. In the following, the “someparam” parameter value is XML and a node in the XML has an XPath reference to the retrieve “localpath” parameter.

```
<workflow name="Test" submitter="Test App" product="Xtent">
<retrieve>
<request tag="request1" name="retrieve-document">
<URL type="string">file://c:/Dev/Vista/MyDoc1.doc</URL>
<content-type type="string">doc</content-type>
</request>
</retrieve>
<some-business-service>
<request tag="request1" name="do-something">
<some-param type="xml" resolve-from="1">
<document>
<local-path from="retrieve/request[@tag='request1']/local-path"/>
</document >
</some-param>
</request>
</some-business-service>
</workflow>
```

Conditional Workflow Tickets

By default, workflow executes subordinate business services sequentially. Conditional workflow allows for altering the sequence of execution by using “flow control” statements. Flow control statements are at the same level as business services. Both are considered “work steps” in conditional workflow. Flow control statements currently supported are:

- **continue** - “Fall through” and execute the next work step (which may be a business service or another flow control statement). The absence of a flow control statement following a business service implies “continue”.
- **end** - Terminate execution of the workflow. In the ‘end’ step you may specify an ‘end-code’ attribute which is either ‘0’ (default) or ‘1’. A '1' indicates that if the workflow completes successfully then the job record will be deleted from the database. This is useful for workflows that are looking for work to perform. However, if no work is found, they can keep the database from filling up with jobs that did not work.
- **goto** - Jump to the specified work step (which may be a business service or another flow control statement). The step to go to is identified by an XPath expression.
- **if** - Evaluates an expression and, if true, executes a statement that must be a “continue”, “goto”, or “end” statement. If the “if” statement is false then the next work flow statement or business service is executed (if any). Multiple “if” statements may be specified. The “if” statement currently supports simple expressions only. No compound and nested expressions are supported. Expressions may contain variables that are named values whose values are resolved at execution time by XPath queries.

The following is an example of how conditional workflow could be used in a job ticket. This example gets the price of Microsoft stock and then makes the decision to buy or sell based on price.

```
<workflow>
<stockquote>
<request tag="request1" name="get-price">
<symbol>MSFT</symbol>
</request>
</stockquote>
<flow-control>
<variable name="PRICE" from="stockquote/request[@tag='request1']/price"/>
<if expression="PRICE < 20">
<goto>stocktrader [@tag=buy']</goto>
</if>
<if expression="PRICE > 30">
<goto>stocktrader[@tag=sell']</goto>
</if>
<end/>
</flow-control>
<stocktrader tag="buy">
<request name="buy">
<symbol>MSFT</symbol>
<shares>100</shares>
</request>
</stocktrader>
<flow-control>
<end/>
</flow-control>
<stocktrader tag="sell" >
<request name="sell">
<symbol>MSFT</symbol>
<shares>100</shares>
</request>
</stocktrader >
</workflow>
```

The above job ticket will first get the price of a share of Microsoft stock from the “stockquote” business service. If the price is less than $20 then 100 shares are purchased from the “stocktrader” business service. If the price is greater than $30 then 100 shares are bought. Otherwise nothing is done.

The first “flow-control” statement declares a variable named “PRICE” and specifies that its value (using an XPath query in the “from” attribute) is to come from the “price” output parameter of the “stockquote” business service. Once a variable is defined then it can be used in a subsequent “if” statement. The first “if” statement evaluates the price and compares it to $20. If true then the “goto” is executed. In this case the jump is to the work step that is the “stocktrader” business service request to buy 100 shares. The “go to” location is defined by the appropriate XPath query that must resolve to a valid work step (i.e., a business service or a “flow-control” statement). The next “if” statement determines if the price is greater than $30 and, if so, 100 shares are sold. Otherwise the workflow is terminated by the “end” statement.

Declaring and Using Variables

In the previous workflow example the variable “PRICE” was declared and used within the same “flow-control” step. However, it is important to note that variables are available outside the scope of the “flow-control” step where they are declared.

Variables can only be declared in “flow-control” steps and must be declared first in the step. When a variable is declared, the value must be defined or a “from” reference must be specified that identifies where in the job ticket the variable value is to be found. The following “flow-control” step shows the ways in which a variable can be declared.

```
<flow-control>
<variable name="PRICE" from="stockquote/request[@tag='request1']/price"/>
<variable name="FAIL" from="retrieve/request[@tag='request1]" attr="fail"/>
<variable name="VAR1" type="string">Some value goes here.</variable>
<variable name="VAR2" type="bool">1</variable>
<variable name="VAR3" type="integer">1001</variable>
<variable name="VAR4" from-item="file-path"/>
</flow-control>
```

The above gives examples of the four ways in which variables can be declared:

1. The “PRICE” variable will get its value using the “from” option which specifies an Xpath reference to an existing node in the job ticket. The text value of the node will be assigned to the variable.
2. The “FAIL” variable is similar to “PRICE” but it also uses the “attr” option. An existing node is located using the “from” XPath query but instead of using the node text value the node “fail” attribute value will be used.
3. Both “VAR2” and “VAR3” are examples of assigning a “hardcoded” value to the variable. In this case the variable should have the “type” attribute. Possible types are “string”, “bool”, “integer” or “double”. If no type is specified then “string” is assumed.
4. The “VAR4” variable uses the “from-item” option that has not been discussed yet. See the “from-each-item” option described in the *Repeating Workflow Tickets* section.

As mentioned before, variables do not have to be used within the “flow-control” step that declares them. The following example below shows how variables can be used to assign parameter values using the “from-variable” option (similar to the “from” option), or they can be used in another “flow-control” workflow step.

```
<workflow>
<retrieve>
<request tag="request1" name="retrieve-rendition">
<URL type="string">file://c:/Dev/Vista/MyDoc1.doc</URL>
<rendition-format>pdf</rendition-format>
</request>
</retrieve>
<flow-control>
<variable name="RENDITIONFOUND"
from="retrieve/request[@tag='request1']/rendition-found"/>
<variable name="RENDITION"
from="retrieve/request[@tag='request1']/local-rendition-path"/>
<if expression="RENDITIONFOUND = 1">
<goto>assemble[@tag='assemble']</goto>
</if
</flow-control>
<retrieve>
<request tag="request2" name="retrieve-document">
<URL type="string" from="retrieve/request[@tag='request1']/URL"/>
</request>
</retrieve>
<render tag="render-pdf">
```

```
<request tag="request1" name="render-pdf">
<document-name type="string" from="retrieve/request[@tag='request2']/localpath"/>
<force-rendition type="bool">1</force-rendition>
<local-path type="string" from="retrieve/request[@tag='request2']/localpath"/>
<content-type type="string" from="retrieve/request[@tag='request2']/localpath"
/>
</request>
</render>
<distribute>
<request tag="request1" name="distribute-rendition">
<URL from="retrieve/request[@tag='request1']/URL" />
<local-path type="string" from="render/request[@tag='request1']/localrendition-
path" />
<format type="string">pdf</format>
</request>
</distribute>
<flow-control>
<variable name="RENDITION" from="render/request[@tag='request1']/localrendition-
path" />
</flow-control>
<assemble tag="assemble">
<request tag="request1" name="assemble-pdf">
<output path type="string">c:\vista-test\assembledoutput.pdf</output-path>
<source-documents type="xml" resolve-from="1">
<documents>
<source-document from-variable="RENDITION"/>
</documents>
</source-documents>
</request>
</assemble>
</workflow>
```

Testing Business Services for Failure

The “on-fail” option allows the workflow to continue if a business service fails (default is to abort workflow).

This example shows a ticket to test for failure and take some appropriate action. When a business service completes, the “fail” attribute is set to “1” (failure) or “0” (success). This attribute can be used in a flow control statement as follows. If ‘render’ is successful then the rendition is added to the document. Otherwise, the document is moved to another folder. In this example, ‘render’ has failed (“fail’ is set to “1”).

```
<workflow job-name="Test Workflow" submitter="John" product="Vista">
<retrieve>
<request tag="request1" name="retrieve-document">
<URL type="string">dms://dctm/borg/09015bda800081db?label=CURRENT</URL>
<content-type type="string">doc</content-type>
</request>
</retrieve>
<render tag="render-pdf” on-fail="continue" fail="1">
<request tag="request2 ">
<document-name
type="string">dms://dctm/borg/09015bda800081db?label=CURRENT
</document-name>
<local-path type="string"
from="retrieve/request[@tag='request1']/local-path">
</local-path>
<force-rendition type="bool">1</force-rendition>
</request>
</render>
<flow-control>
<variable name="FAIL" from="render[@tag=’render-pdf’]" attr="fail" />
<if expression="FAIL = 1">
<goto>distribute[@tag=’error’]</goto>
</if>
</flow-control>
<distribute>
<request tag="request3" name="distribute-rendition">
<URL type="string">dms://dctm/borg/09015bda800081db?label=CURRENT</URL>
<local-path type="string"
from="render/request[@tag='request2']/local-rendition-path">
</local-path>
<format type="string">pdf</format>
</request>
</distribute>
<flow-control>
<end/>
</flow-control>
<distribute tag="error">
<request tag="request4" name="distribute-move">
<URL type="string">dms://dctm/borg/09015bda800081db?label=CURRENT</URL>
<to-folder-URL type="string">
dms://dctm/borg/09015bda800081db?type=2
</to-folder>
<to-subfolder type="string">Error</ to-subfolder>
</request>
</distribute>
</workflow>
```

Repeating Workflow Tickets

An earlier example showed how to retrieve a copy of one document, render it to PDF and then save the rendition to the source document. Repeating workflow job tickets allow for the case where a business service returns a list of items that can be processed by subsequent business services.

The following example retrieves the documents in a Documentum folder, renders them to PDF and then adds the renditions back to the source documents. This job ticket shows the state of the job ticket after “retrieve” has been executed. The “documents” parameter contains the list of retrieved documents.

```
<workflow name="Test" submitter="John" product="Vista">
<retrieve>
<request tag="request1" name="retrieve-documents">
<folder-URL type="string">dms://dctm/borg/09015bda800081db?type=2</folder-
URL>
<documents type="xml">
<files>
<file>
<URL>dms://dctm/borg/09015bda800181db?label=CURRENT</URL>
<local-path>c:\temp\aaa1.tmp.doc</local-path>
<content-type>doc</content-type>
</file>
<file>
<URL>dms://dctm/borg/09015bda800182db?label=CURRENT</URL>
<local-path>c:\temp\aaa2.tmp.doc</local-path>
<content-type>doc</content-type>
</file>
</files>
</documents>
</request>
</retrieve>
<workflow for-each-item="retrieve/request[@tag='request1']/documents/files">
<render>
<request tag="request2" name="render-pdf">
<document-name
type="string" from-item="URL"></document-name>
<local-path type="string" from-item="local-path"></local-path>
<force-rendition type="bool">1</force-rendition>
<content-type>doc</content-type>
<rendition-found type="bool">0</rendition-found>
</request>
</render>
<distribute>
<request tag="request3" name="distribute-rendition">
<URL type="string" from-item="URL"></URL>
<local-path type="string"
from="render/request[@tag='request2']/local-rendition-path">
</local-path>
<format type="string">pdf</format>
</request>
</distribute>
</workflow>
</workflow>
```

In this example, “retrieve” has returned a list of two retrieved documents. However, “render” and “distribute” can only operate on one file at a time. The solution is to use a subordinate workflow with the “for-each-item” option. The “for-each-item” attribute value is the XPath reference to the parent node of the items (in this case “files” which is the value of the retrieve “documents” output parameter). This option allows the business services in the workflow to be repeated for each item in the list. Parameters in the repeated workflow have access to the current

list item via the “from-item” attribute. The “from-item” attribute value is an XPath reference that is relative to the item’s node (in this case “file”). The “render” business service needs the local path from the list so the XPath is simply “local-path”.

By default, the “for-each-item” option executes each subordinate workflow sequentially. If you wanted subordinate workflows to execute concurrently then you can specify the “for-each” option as “do-concurrent” as follows:

```
<workflow name="Test" submitter="John" product="Vista">
<retrieve>
<request tag="request1" name="retrieve-documents">
<folder-URL type="string">dms://dctm/borg/09015bda800081db?type=2 </folder-
URL>
<documents type="xml">
<files>
<file>
<URL>dms://dctm/borg/09015bda800181db?label=CURRENT</URL>
<local-path>c:\temp\aaa1.tmp.doc</local-path>
<content-type>doc</content-type>
</file>
<file>
<URL>dms://dctm/borg/09015bda800182db?label=CURRENT</URL>
<local-path>c:\temp\aaa2.tmp.doc</local-path>
<content-type>doc</content-type>
</file>
</files>
</documents>
</request>
</retrieve>
<workflow for-each-item="retrieve/request[@tag='request1']/documents/files"
for-each="do-concurrent">
<render>
<request tag="request2" name="render-pdf">
<document-name
type="string" from-item="URL"></document-name>
<local-path type="string" from-item="local-path"></local-path>
<force-rendition type="bool">1</force-rendition>
<content-type>doc</content-type>
<rendition-found type="bool">0</rendition-found>
</request>
</render>
<distribute>
<request tag="request3" name="distribute-rendition">
<URL type="string" from-item="URL"></URL>
<local-path type="string"
from="render/request[@tag='request2']/local-rendition-path">
</local-path>
<format type="string">pdf</format>
</request>
</distribute>
</workflow>
</workflow>
```

The “for-each” option may be “do-concurrent” or “do-sequential”. If the option is not specified then “do-sequential” is assumed. If doing concurrently, then subordinate workflows will be submitted as separate jobs and the original workflow job will not wait for their completion/failure. Note that this means subordinate workflow jobs will show up in Domain Manager as separate jobs.

Distribute

distribute-rendition

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS “URL” of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

format

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
format	Specifies the format of the rendition (e.g., ‘pdf’ or ‘xml’).	string	Y	user defined		in

Example

```
<format type="string">pdf</format>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

distribute-version

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS "URL" of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

version

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-version"> <request name="distribute-new-or-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
version	Specifies the document version: major, minor or same. If not specified, major is assumed. Must be: • major • minor • same	string	Y	• major • minor • same	major	in

Example

```
<version type="string">major</version>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">

Business Service Element	Business Service Request
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

distribute-new

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS “URL” of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">

Business Service Element	Business Service Request
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

doc-type

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
doc-type	Specifies the new document type. Needed if document does not exist. For example, `doc`.	string	Y	user defined		in

Example

```
<doc-type type="string">doc</doc-type>
```

doc-format

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
doc-format	Specifies the new document format (i.e., dos file extension). Needed if document does not already exist.	string	Y	user defined		in

Example

```
<doc-format type="string”>doc</doc-format>
```

doc-name

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	doc-name	Specifies the new/ existing document name.	string	Y	user defined		in
Render	doc-name	Specifies the document name.	string	N	user defined		in/out
Retrieve	doc-name	Specifies the document name.	string		user defined		out

Example

```
<doc-name type="string">MyDoc.doc</doc-name>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

new-URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
new-URL	Specifies the new document if created.	string				out

distribute-new-or-version

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS "URL" of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

doc-type

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
doc-type	Specifies the new document type. Needed if document does not exist. For example, `doc`.	string	Y	user defined		in

Example

```
<doc-type type="string">doc</doc-type>
```

doc-format

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
doc-format	Specifies the new document format (i.e., dos file extension). Needed if document does not already exist.	string	Y	user defined		in

Example

```
<doc-format type="string”>doc</doc-format>
```

doc-name

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	doc-name	Specifies the new/ existing document name.	string	Y	user defined		in
Render	doc-name	Specifies the document name.	string	N	user defined		in/out
Retrieve	doc-name	Specifies the document name.	string		user defined		out

Example

```
<doc-name type="string">MyDoc.doc</doc-name>
```

version

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-version"> <request name="distribute-new-or-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
version	Specifies the document version: major, minor or same. If not specified, major is assumed. Must be: • major • minor • same	string	Y	• major • minor • same	major	in

Example

```
<version type="string">major</version>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

new-URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
new-URL	Specifies the new document if created.	string				out

new-document

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new-or-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
new-document	Specifies whether a new document was created.	boolean		• 1 or true • 0 or false		out

distribute-move

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS "URL" of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

to-folder-URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-folder-URL	Specifies the path to the folder where the file is to be: • moved • copied • distributed This folder must already exist.	string	Y	user defined		in

Example

```
<to-folder-URL type="string">file://C:/Folder?type=2</to-folder-URL>
```

to-subfolder

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-move"> <request name="distribute-copy">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-subfolder	Specifies the name of the subfolder.	string	N	user defined		in

Example

```
<to-subfolder type="string">release</to-subfolder>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

distribute-copy

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS "URL" of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

to-folder-URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-folder-URL	Specifies the path to the folder where the file is to be: • moved • copied • distributed This folder must already exist.	string	Y	user defined		in

Example

```
<to-folder-URL type="string">file://C:/Folder?type=2</to-folder-URL>
```

to-subfolder

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-move"> <request name="distribute-copy">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-subfolder	Specifies the name of the subfolder.	string	N	user defined		in

Example

```
<to-subfolder type="string">release</to-subfolder>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

to-URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-copy">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-URL	Specifies the URL of where the document has been copied to.	string		user defined		out

distribute-queue

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS “URL” of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

queue-URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-queue">
Retreive	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	queue-URL	Specifies the DMS URL of the queue where the document will be submitted.	string	N	user defined		in
Retrieve	queue-URL	Specifies the URL to the queued object.	string	Y	user defined		in

Example

```
<queue-URL type="string">dms://dctm/queue?type=4</queue-URL>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

distribute-folder

src-folder-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
src-folder-path	Specifies a folder on a file system only.	string	Y	user defined		in

Example

```
<src-folder-path type="string">C:\source</src-folder-path>
```

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS "URL" of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

to-folder-URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-folder-URL	Specifies the path to the folder where the file is to be: • moved • copied • distributed This folder must already exist.	string	Y	user defined		in

Example

```
<to-folder-URL type="string">file://C:/Folder?type=2</to-folder-URL>
```

dms-document-type

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dms-document-type	Specifies the type of document being distributed.	string	N	user defined		in

Example

```
<dms-document-type type="string">pdf</dms-document-type>
```

create-source-folder

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
create-source-folder	Specifies whether or not the request will create the source folder (src-folder-path or URL) in the destination folder location (to-folder-URL). • 1 - indicates that the request will create the source folder. • 0 - indicates that the request will not create the source folder. If this parameter is not supplied, the default is '0'.	boolean	N	• 1 - indicates that the request will create the source folder. • 0 - indicates that the request will not create the source folder. If this parameter is not supplied, the default is '0'.	0	in

Example

```
<create-source-folder type="bool">1</create-source-folder>
```

overwrite-destination-files

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
overwrite-destination-files	Specifies whether or not the request will overwrite the files that may already exist in the destination location (to-folder-URL).	boolean	N	• 1 - indicates that the request will overwrite destination files. • 0 - indicates that the request will not overwrite destination files. If this parameter is not supplied, the default is '0'.	0	in

Example

```
<overwrite-destination-files type="bool">0</overwrite-destination-files>
```

save-destination-file-as-new-major-version

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
save-destination-file-as-new-major-version	Specifies whether or not the request will save the file as a new major version (i.e. 3.0).	boolean	N	• 1 - indicates that the request will save the file as a new major version • 0 - indicates that the request will not save the file as a new major version. If this parameter is not supplied, the default is 0. **Note:** If this parameter and the save-destination-file-as-new-minor-version parameter defaults to '0' (or is set to '0' specifically), and overwrite-destination-files is set to 1, this request will overwrite the current version of the destination file with the file being distributed.	0	in

Example

```
<save-destination-file-as-new-major-version type="bool">0</save-destination-file-as-new-major-version>
```

save-destination-file-as-new-minor-version

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
save-destination-file-as-new-minor-version	Specifies whether or not the request will save the file as a new minor version (i.e. 1.1).	boolean	N	• 1 - indicates that the request will save the file as a new minor version. • 0 - indicates that the request will not save the file as a new minor version. If this parameter is not supplied, the default is '0'. **Note:** If this parameter and the save-destination-file-as-new-major-version parameter defaults to '0' (or is set (or is set to '0' specifically), and overwrite-destination-files is set to 1, this request will overwrite the current version of the destination file with the file being distributed.	0	in

Example

```
<save-destination-file-as-new-minor-version type="bool">0</save-destination-file-as-new-minor-version>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

document-list

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
document-list	XML value containing a list of document properties to be distributed where each document node specifies the destination folder's property(s), path, and name.	xml	N			in

Example

```
<documents>
  <document path="AAA" name="BBB">
    <properties>
        <property name="CCC" type="DDD" array="EEE" separator="FFF">XXX</property>
         ...
    </properties>
  </document>
   ...
</documents>
```

distribute-folder-properties

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS "URL" of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

document-list

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
document-list	XML value containing a list of document properties to be distributed where each document node specifies the destination folder's property(s), path, and name.	xml	N			in

Example

```
<documents>
  <document path="AAA" name="BBB">
    <properties>
        <property name="CCC" type="DDD" array="EEE" separator="FFF">XXX</property>
          ...
    </properties>
  </document>
   ...
</documents>
```

distribute-document-properties

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS “URL” of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

property-list

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-document-properties">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
property-list	XML value containing a list of properties to be distributed for a selected document. The list of properties will include: name, type, array, and separator.	xml	Y			in

Example

```
<properties>
  <property name="AAA" type="BBB" array="CCC" separator="DDD">XXX</property>
  ...
</properties>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

Basic Job Tickets

In business service terminology a “request” is analogous to a DLL function. Requests, like DLL functions, have typed parameters that are name-value pairs.

For example, if you have a business service named “math” and it has a request named “calculatesquare-root” which takes an input parameter named “number” and has an output parameter named “square-root”, the job ticket would look like the following:

```
<math>
<request name="calculate-square-root">
<number type="integer">144</number>
</request>
</math>
```

After execution the job ticket would be:

```
<math>
<request name="calculate-square-root">
<number type="integer">144</number>
<square-root type="double">12</square-root>
</request>
</math>
```

The important thing to note in this example is that the top-level (i.e., root) node identifies the business service and its child node is the request. The XML attribute “name” contains the specific request name. The child nodes of the request node are the parameter values. Any output parameters will be added when the request is executed. More than one request can be made of a business service.

The following is possible:

```
<math>
<request name="calculate-square-root">
<number type="integer">144</number>
</request>
<request name="calculate-square-root">
<number type="integer">65</number>
</request>
<request name="is-prime-number">
<number type="integer">11</number>
</request>
</math>
```

With results:

```
<math>
<request name="calculate-square-root">
<number type="integer">144</number>
<square-root type="double">12</square-root>
</request>
<request name="calculate-square-root">
<number type="integer">65</number>
<square-root type="double">8.06</square-root>
</request>
<request name="is-prime-number">
```

```
<number type="integer">11</number>
<prime type="bool">1</prime>
</request>
</math>
```

The top-level node allows for optionally specifying information about the ticket (i.e., submitter, product, job name, and priority). For example:

```
<math submitter="John" product="ProductX" job-name="Test" priority="1">
<request name="calculate-square-root">
<number type="integer">144</number>
</request>
</math>
```

The submitter, product, and job name attributes are used to identify the job ticket. Their values are user defined. These values will appear in the Domain Manager application. The Domain Manager will allow the user to filter the jobs displayed based on these values.

The priority attribute will determine the priority level at which the job ticket will be executed. However, this only applies if the business service is configured to be priority-based (as opposed to FIFO). Priorities can be from 1 to 10 with 1 being the highest. If no priority is specified then a priority of 5 is assumed.

Note: The user may add other attributes to the top-level node as desired. These attributes will be ignored and not stripped out.

File

move-file

from-file

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
from-file	Specifies file: • being moved • being copied	string	Y	user defined		in

Example

```
<from-file type="string">C:/documents/document.doc</from-file>
```

to-folder

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-folder	Specifies the destination folder. If not present then a temp folder will be created.	string	N	user defined		in

Example

```
<to-folder type="string">C:/documents2</to-folder>
```

to-subfolder

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-subfolder	Specifies the destination subfolder. This sub-folder will be appended to the 'to-folder' prior to the file copy/ move.	string	N	user defined		in

Example

```
<to-subfolder type="string">C:/documents2</to-subfolder>
```

to-file-name

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-file-name	Specifies the name of the destination file. Does not have to be the same name as the source document file name.	string	Y	user defined		in

Example

```
<to-file-name type=”string”>FileName.doc</to-file-name>
```

to-file-ext

Contained By

Business Service Element	Business Service Request
File	<request name="move-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-file-ext	Specifies the file extension of the destination file.	string	N	user defined		in

Example

```
<to-file-ext type="string"></to-file-ext>
```

overwrite

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Business Service Element	Business Service Request
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
, File, Queue,	overwrite	Specifies whether the destination file is to be overwritten if it exists.	boolean	N	• 1 or true • 0 or false	1	in

Example

```
<overwrite type="bool">1</overwrite>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

output-path

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">
IPFusion	<request name="publish"> <request name="volumize-by-size">
PDFFile	<request name="set-security">
Render	<request name="render-pdf">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	output-path	Where a file was: • moved • copied	string		user defined		out
IPFusion, PDFFile	output-path	Specifies output folder path. If not specified then temporary folder will be created.	string	N	user defined		in
Render	output-path	Specifies the output path for the PDF rendition. This parameter is only used if the local-rendition-path on page 441 parameter is not provided. If both the local-rendition-path and output-folder parameters are not provided within the request, a temporary output folder path will be generated. This parameter will be set in the job ticket with the temporary folder location upon completion of the request.	string		user defined		out
Watermark	output-path	Specifies the output file name of the resulting watermarked pdf. If not supplied, a temporary file name and path will be generated. The output-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request.	string	N	user defined		in

Example

```
<output-path type="string">C:\Output</output-path>
```

copy-file

from-file

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
from-file	Specifies file: • being moved • being copied	string	Y	user defined		in

Example

```
<from-file type="string">C:/documents/document.doc</from-file>
```

to-folder

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-folder	Specifies the destination folder. If not present then a temp folder will be created.	string	N	user defined		in

Example

```
<to-folder type="string">C:/documents2</to-folder>
```

to-subfolder

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-subfolder	Specifies the destination subfolder. This sub-folder will be appended to the 'to-folder' prior to the file copy/ move.	string	N	user defined		in

Example

```
<to-subfolder type="string">C:/documents2</to-subfolder>
```

to-file-name

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-file-name	Specifies the name of the destination file. Does not have to be the same name as the source document file name.	string	Y	user defined		in

Example

```
<to-file-name type=”string”>FileName.doc</to-file-name>
```

to-file-ext

Contained By

Business Service Element	Business Service Request
File	<request name="move-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-file-ext	Specifies the file extension of the destination file.	string	N	user defined		in

Example

```
<to-file-ext type="string"></to-file-ext>
```

overwrite

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Business Service Element	Business Service Request
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
, File, Queue,	overwrite	Specifies whether the destination file is to be overwritten if it exists.	boolean	N	• 1 or true • 0 or false	1	in

Example

```
<overwrite type="bool">1</overwrite>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

output-path

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">
IPFusion	<request name="publish"> <request name="volumize-by-size">
PDFFile	<request name="set-security">
Render	<request name="render-pdf">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	output-path	Where a file was: • moved • copied	string		user defined		out
IPFusion, PDFFile	output-path	Specifies output folder path. If not specified then temporary folder will be created.	string	N	user defined		in
Render	output-path	Specifies the output path for the PDF rendition. This parameter is only used if the local-rendition-path on page 441 parameter is not provided. If both the local-rendition-path and output-folder parameters are not provided within the request, a temporary output folder path will be generated. This parameter will be set in the job ticket with the temporary folder location upon completion of the request.	string		user defined		out
Watermark	output-path	Specifies the output file name of the resulting watermarked pdf. If not supplied, a temporary file name and path will be generated. The output-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request.	string	N	user defined		in

Example

```
<output-path type="string">C:\Output</output-path>
```

delete-file

file

Contained By

Business Service Element	Business Service Request
File	<request name="delete-file">
Queue	<request name="dequeue-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	file	Specifies the file to be deleted.	string	Y	user defined		in
Queue	file	Specifies the file to be dequeued.	string	Y	user defined		in

Example

```
<file type="string">C:/documents/document.doc</file>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	

Business Service Element	Business Service Request	Business Service Parameter
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

delete-folder

folder

Contained By

Business Service Element	Business Service Request
File	<request name="delete-folder"> <request name="delete-folder-contents">
Queue	<request name="list-queued-files"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	folder	Specifies the folder to be deleted.	string	Y	user defined		in
Queue	folder	• Specifies the folder to be queried. • Specifies the source folder path. The first document obtained from this folder will be dequeued and removed from the folder after successful completion of this request.	string	Y	user defined		in

Example

```
<folder type="string">oxygen</folder>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

delete-folder-contents

folder

Contained By

Business Service Element	Business Service Request
File	<request name="delete-folder"> <request name="delete-folder-contents">
Queue	<request name="list-queued-files"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	folder	Specifies the folder to be deleted.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Queue	folder	• Specifies the folder to be queried. • Specifies the source folder path. The first document obtained from this folder will be dequeued and removed from the folder after successful completion of this request.	string	Y	user defined		in

Example

```
<folder type="string">oxygen</folder>
```

include-subfolders

Contained By

Business Service Element	Business Service Request
File	<request name="delete-folder-contents">
Retrieve	<request name="retrieve-document-list">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	include-subfolders	Used to determine whether subfolders are deleted or not.	boolean	N	• 0 or false, the sub-folders will not be deleted. • 1 or true, the sub-folder will be deleted.	0	in
Retrieve	include-subfolders	Indicates whether to search subfolders. Output hierarchy will be flat.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<include-subfolders type="bool">0</include-subfolders>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

create-temp-file

file-ext

Contained By

Business Service Element	Business Service Parameter
File	<request name="create-temp-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
file-ext	Specifies the file extension to be used on temporary file.	string	N	user defined		in

Example

```
<file-ext type="string">pdf</file-ext>
```

temp-file

Contained By

Business Service Element	Business Service Request
File	<request name="create-temp-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Default Value	Direction
temp-file	Specifies the new temporary file name. This file will be accessible from any server in the domain.	string			out

create-temp-folder

temp-folder

Contained By

Business Service Element	Business Service Request
File	<request name="create-temp-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
temp-folder	Specifies the new temporary folder name. This folder will be accessible from any server in the domain.	string				out

get-file-size

file-path

Contained By

Business Service Element	Business Service Request
File	<request name="get-file-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
file-path	Specifies file path.	string	Y	user defined		in

Example

```
<file-path type="string">C:\MyDocuments\</file-path>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

size

Contained By

Business Service Element	Business Service Request
File	<request name="get-file-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
size	Returns file size in bytes.	long				out

FTP

send-file

source-file

Contained By

Business Service Element	Business Service Request
File	<request name="send-file">
Zip	<request name="zip-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File,	source-file	Specifies the file to be sent.	string	Y	user defined		in
Zip	source-file	Specifies the file to be zipped.	string	Y	user defined		in

Example

```
<source-file>c:\Dev\Vista\MyDoc1.doc</source-file>
```

dest-file

Contained By

Business Service Element	Business Service Request
FTP	<request name="send-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dest-file	Specifies the name of the file as it should be on the FTP server.	string	Y	user defined		in

Example

```
<dest-file>MyDoc1.doc</dest-file>
```

server

Contained By

Business Service Element	Business Service Request
FTP	<request name="send-file"> <request name="send-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
server	Specifies the address of the FTP server to connect to.	string	Y	The address can either be an IP address in dot-notation (for example: 192.168.0.50) or it can be a host name (for example: `ftp.abc.com`). When specifying a host name, DNS name resolution will be performed in order to resolve it to an IP address.		in

Example

```
<server>HOST-NAME-OR-IP_ADDRESS</server>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

send-folder

source-folder

Contained By

Business Service Element	Business Service Request
FTP	<request name="send-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
source-folder	Specifies the directory containing the file to send.	string	Y	user defined		in

Example

```
<source-folder>c:\Dev\Vista\MyDocuments</source-folder>
```

include-sub-folders

Contained By

Business Service Element	Business Service Request
FTP	<request name="send-folder">
Zip	<request name="zip-folder"> <request name="unzip">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
FTP	include-sub-folders	Used to determine whether subfolders are processed or not.	bool	N	• 0 or false • 1 or true	0	in
Zip	include-sub-folders	Used to determine whether subfolders are processed or not. When true, files contained in sub-folders of soucre-file-folder on page 609 will also be zipped. When false, sub-folders will not be included.	bool	N	• 0 or false • 1 or true	0	in

Example

```
<include-sub-folders>0</include-sub-folders>
```

dest-folder

Contained By

Business Service Element	Business Service Request
FTP	<request name="send-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dest-folder	Specifies the folder on the FTP server to send the files to. You can specify a filename, or a path and filename. The path and filename can be relative to the logged in user's default folder, or can be an absolute path on the remote system.	string	Y	user defined		in

Example

```
<dest-folder>\Dev\Vista\MyDocuments</dest-folder>
```

server

Contained By

Business Service Element	Business Service Request
FTP	<request name="send-file"> <request name="send-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
server	Specifies the address of the FTP server to connect to.	string	Y	The address can either be an IP address in dot-notation (for example: 192.168.0.50) or it can be a host name (for example: `ftp.abc.com`). When specifying a host name, DNS name resolution will be performed in order to resolve it to an IP address.		in

Example

```
<server>HOST-NAME-OR-IP_ADDRESS</server>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

IPFusion

publish

optimize-fonts

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	optimize-fonts	Specifies whether fonts in processed PDF file be optimized or not	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<optimize-fonts type=bool>1</optimize-fonts>
```

output-path

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">
IPFusion	<request name="publish"> <request name="volumize-by-size">
PDFFile	<request name="set-security">
Render	<request name="render-pdf">

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	output-path	Where a file was: • moved • copied	string		user defined		out
IPFusion, PDFFile	output-path	Specifies output folder path. If not specified then temporary folder will be created.	string	N	user defined		in
Render	output-path	Specifies the output path for the PDF rendition. This parameter is only used if the local-rendition-path on page 441 parameter is not provided. If both the local-rendition-path and output-folder parameters are not provided within the request, a temporary output folder path will be generated. This parameter will be set in the job ticket with the temporary folder location upon completion of the request.	string		user defined		out
Watermark	output-path	Specifies the output file name of the resulting watermarked pdf. If not supplied, a temporary file name and path will be generated. The output-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request.	string	N	user defined		in

Example

```
<output-path type="string">C:\Output</output-path>
```

file-path

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish">
Queue	<request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	file-path	Specifies output file name. Value will be appended to <output-path>.	string	Y	user defined		in
Queue	file-path	The full path of the original document dequeued from the source folder.	string		user defined		out

Example

```
<file-path type="string">Document.pdf</file-path>
```

output-pdf-version

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-pdf-version	Specifies PDF version of output file.	string	N	• 1.4 • 1.5 • 1.6 • 1.7	1.4	in

Example

```
<output-pdf-version type="string">1.4</output-pdf-version>
```

search-attributes

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
search-body on page 121, search-front-matter on page 122, search-bookmarks on page 122

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
search-attributes	Specifies what is to be searched for attribute tags.	xml	N		N/A	in

Example

```
<search-attributes>
     <search-body/>
     <search-front-matter/>
     <search-bookmarks/>
</search-attributes>
```

search-body

Contained By

Business Service XML Element
search-attributes on page 121

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
search-body	Specifies whether body is to be searched for attribute tags.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<search-body type="bool">0</search-body><search-body>
```

search-front-matter

Contained By

Business Service XML Element
search-attributes on page 121

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
search-front-matter	Specifies whether front matter is to be searched for attribute tags.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<search-front-matter type="bool">0</search-front-matter>
```

search-bookmarks

Contained By

Business Service XML Element
search-attributes on page 121

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
search-bookmarks	Specifies whether bookmarks are to be searched for attribute tags.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<search-bookmarks type="bool">0</search-bookmarks>
```

all-bookmarks

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
all-bookmarks	Specifies whether all bookmarks from the files are contained in the output.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<all-bookmarks type="bool">0</all-bookmarks>
```

max-bookmarks

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
max-bookmarks	Specifies the maximum level of file bookmarks used in the output. Zero indicates no bookmarks are to be used.	integer	N	[0...n]	0	in

Example

```
<max-bookmarks type="integer">10</max-bookmarks>
```

retain-attributes

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
retain-attributes	Specifies whether unresolved attributes will be retained or removed (i.e., replaced with blanks).	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<retain-attributes type="bool">0</retain-attributes>
```

open-attribute-delimeter

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
open-attribute-delimeter	Specifies attribute opening tag.	string	N		< (i.e., "<")	in

Example

```
<open-attribute-delimeter type="string">&lt;</open-attribute-delimeter>
```

close-attribute-delimiter

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
close-attribute-delimiter	Specifies attribute closing tag.	string	N		> (i.e., ">")	in

Example

```
<close-attribute-delimeter type="string">&gt;</close-attribute-delimeter>
```

blank-page-file

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
blank-page-file	Specifies the blank page file name. If any files are to have a blank page appended then this file will be searched for the page having the best match .	string	N	user defined		in

Example

```
<blank-page-file type="string">C:\Blank.pdf</blank-page-file>
```

normalise-size

Contained By

Business Service Element	Business Service Request
	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
normalise-size	Specifies whether pages are to be normalized. Overlay files will not be changed. The page size will be changed by adding or removing 'paper' at the top right-hand corner, with the page contents being scaled by the appropriate amount, maintaining the aspect ratio. Links and annotations will also be relocated. See page-height on page 127 and page-width on page 128. Default is to the page normalizing specified at the assembly level. **Note:** If normalizing is specified at the file level then it will override the normalizing specified at the assembly level.	string	N	custom	custom	in

Example

```
<normalise-size type="string">custom</normalise-size>
```

page-height

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value	Direction
page-height	Specifies normalized page height. See normalise-size on page 126. Page height is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt	in

Example

```
<page-height type="string">279.40mm</page-height>
```

page-width

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
page-width	Specifies normalized page width. See normalise-size on page 126. Page width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units. Acceptable units are: • pt • in • mm • cm	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	in

Example

```
<page-width type="string">279.40mm</page-width>
```

desc

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
publish on page 130

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
desc	Specifies publishing instructions and components.	xml	Y		N/A	in

Example

```
<desc resolve-from="1" type="xml">
     <publish>
          <body-overlay/>
          <front-matter/>
          <components/>
     </publish>
</desc>
```

publish

Contained By

Business Service XML Element
desc on page 129

Contains

Business Service XML Element
body-overlay on page 130, front-matter on page 135, components on page 141

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
publish		xml	N		N/A	in

Example

```
<publish>
     <body-overlay/>
     <front-matter/>
     <components/>
</publish>
```

body-overlay

Contained By

Business Service XML Element
publish on page 130

Contains

Business Service XML Element
allow-scaling on page 131, rotate-portrait-to-landscape on page 131, best-fit on page 132, portrait on page 132, landscape on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
body-overlay	Specifies information about overlaying pages in the output body. These are the default overlay pages that are used if no overlays are specified at the 'file' or 'front-matter' level.	xml	N		N/A	in

Example

```
<body-overlay>
     <allow-scaling/>
     <rotate-portrait-to-landscape/>
```

```
     <best-fit/>
     <portrait/>
     <landscape/>
</body-overlay>
```

allow-scaling

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
allow-scaling	Specifies whether the overlay page is to be scaled to fit the page being overlayed.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<allow-scaling type="bool">0</allow-scaling>
```

rotate-portrait-to-landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
rotate-portrait-to-landscape	Specifies whether a portrait overlay page is to be rotated before overlaying a landscape page.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<rotate-portrait-to-landscape type="bool">0</rotate-portrait-to-landscape>
```

best-fit

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
best-fit	Specifies whether to select the overlay page that best fits the page being overlayed.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<best-fit type="bool">0</best-fit>
```

portrait

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
portrait	Specifies the overlay files to be used when overlaying portrait pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages.	xml	N		N/A	in

Example

```
<portrait>
     <odd-overlay-file/>
     <even-overlay-file/>
</portrait>
```

odd-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-overlay-file	Specifies the overlay file used on odd pages.	string	N	user defined	none	in

Example

```
<odd-overlay-file type="string">c:\OddOverlay.pdf</odd-overlay-file>
```

even-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
even-overlay-file	Specifies the overlay file used on even pages.	string	N	user defined	odd-overlay-file if it was specified	in

Example

```
<even-overlay-file type="string">c:\OddOverlay.pdf</even-overlay-file>
```

landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136, margins on page 171

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133, right-margin on page 174, left-margin on page 173, header-margin on page 174, footer-margin on page 174

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
landscape	Specifies the overlay files to be used when overlaying landscape pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages. **Note:** When used within the margins element, it specifies the files' landscape page margins. If it is not specified, then the portait margins are used.	xml	N			in

overlay landscape Example

```
<landscape>
     <odd-overlay-file/>
     <even-overlay-file/>
</landscape>
```

margins landscape Example

```
<landscape>
     <right-margin/>
     <left-margin/>
     <header-margin/>
     <footer-margin/>
</landscape>
```

odd-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-overlay-file	Specifies the overlay file used on odd pages.	string	N	user defined	none	in

Example

```
<odd-overlay-file type="string">c:\OddOverlay.pdf</odd-overlay-file>
```

even-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
even-overlay-file	Specifies the overlay file used on even pages.	string	N	user defined	odd-overlay-file if it was specified	in

Example

```
<even-overlay-file type="string">c:\OddOverlay.pdf</even-overlay-file>
```

front-matter

Contained By

Business Service XML Element
publish on page 130

Contains

Business Service XML Element
front-file on page 136, front-location on page 136, overlay on page 136

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
front-matter	Specifies information about the front matter to be added to the front of the assembled files.	xml	N			in

Example

```
<front-matter>
     <front-file/>
     <front-location/>
     <overlay/>
</front-matter>
```

front-file

Contained By

Business Service XML Element
front-matter on page 135

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
front-file	Specifies the file to be used as front matter.	string		user defined		in

Example

```
<front-file type="string">c:\OddOverlay.pdf</front-file>
```

front-location

Contained By

Business Service XML Element
front-matter on page 135

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
front-location	Specifies a user-friendly description of the file to be used as front matter.	string	N	user defined	Default is none but if specified will be used in error messages when an error occurs.	in

Example

```
<front-location type="string">c:\EvenOverlay.pdf</front-location>
```

overlay

Contained By

Business Service XML Element
front-matter on page 135, file on page 152,

Contains

Business Service XML Element
allow-scaling on page 131, rotate-portrait-to-landscape on page 131, best-fit on page 132, portrait on page 132, landscape on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
overlay	Specifies information about overlaying pages in the front matter.	xml	N			in

Example

```
<overlay>
     <allow-scaling/>
     <rotate-portrait-to-landscape/>
     <best-fit/>
     <portrait/>
     <landscape/>
</overlay>
```

allow-scaling

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
allow-scaling	Specifies whether the overlay page is to be scaled to fit the page being overlayed.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<allow-scaling type="bool">0</allow-scaling>
```

rotate-portrait-to-landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
rotate-portrait-to-landscape	Specifies whether a portrait overlay page is to be rotated before overlaying a landscape page.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<rotate-portrait-to-landscape type="bool">0</rotate-portrait-to-landscape>
```

best-fit

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
best-fit	Specifies whether to select the overlay page that best fits the page being overlayed.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<best-fit type="bool">0</best-fit>
```

portrait

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
portrait	Specifies the overlay files to be used when overlaying portrait pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages.	xml	N		N/A	in

Example

```
<portrait>
     <odd-overlay-file/>
     <even-overlay-file/>
</portrait>
```

odd-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-overlay-file	Specifies the overlay file used on odd pages.	string	N	user defined	none	in

Example

```
<odd-overlay-file type="string">c:\OddOverlay.pdf</odd-overlay-file>
```

even-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
even-overlay-file	Specifies the overlay file used on even pages.	string	N	user defined	odd-overlay-file if it was specified	in

Example

```
<even-overlay-file type="string">c:\OddOverlay.pdf</even-overlay-file>
```

landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136, margins on page 171

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133, right-margin on page 174, left-margin on page 173, header-margin on page 174, footer-margin on page 174

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
landscape	Specifies the overlay files to be used when overlaying landscape pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages. **Note:** When used within the margins element, it specifies the files' landscape page margins. If it is not specified, then the portait margins are used.	xml	N			in

overlay landscape Example

```
<landscape>
     <odd-overlay-file/>
     <even-overlay-file/>
</landscape>
```

margins landscape Example

```
<landscape>
     <right-margin/>
     <left-margin/>
     <header-margin/>
     <footer-margin/>
</landscape>
```

odd-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-overlay-file	Specifies the overlay file used on odd pages.	string	N	user defined	none	in

Example

```
<odd-overlay-file type="string">c:\OddOverlay.pdf</odd-overlay-file>
```

even-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
even-overlay-file	Specifies the overlay file used on even pages.	string	N	user defined	odd-overlay-file if it was specified	in

Example

```
<even-overlay-file type="string">c:\OddOverlay.pdf</even-overlay-file>
```

components

Contained By

Business Service XML Element
publish on page 130

Contains

Business Service XML Element
attributes on page 142, file on page 152, slipsheet on page 178

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
components	Specifies the components used in assembling the published output.	xml	Y			in

Example

```
<components>
     <attributes/>
     <file/>
     <slipsheet/>
</components>
```

attributes

Contained By

Business Service XML Element
components on page 141

Contains

Business Service XML Element
simple-attribute on page 143, dynamic-attribute on page 146, textbox-attribute on page 150

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
attributes	Specifies attribute values. Attributes are predefined text strings residing in the files (including overlays) used to assemble the published output. These text strings are identified by special opening and closing delimeter characters (e.g. “<” and “>”). These delimiters must be different from each other. The string may contain whitespace that may be used to define the alignment of the resulting string. The character size, typeface and color of the opening delimiter for the attribute string are used to define the appearance of the overlay, it is recommended that the font of the text within the delimiters is the same as the font used for the opening delimiter. The distance between the opening and closing delimiter determines the maximum length of the overlaid attribute. The alignment of the string within this field is determined by its position relative to the delimiters. <ATTRIB > Left aligned <ATTRIB> Left aligned < ATTRIB> Right aligned < ATTRIB > Centered (at least one character width of whitespace must separate the attribute name from each of the delimiters) There are three types of attributes: simple, dynamic, and text box. A simple attribute is one that specifies a name and value only. Whenever an attribute is encountered with the specified name then it is replaced with the value. A dynamic attribute also has a name and value but the value is dynamic because it can change as publishing occurs based on specified rules. A text box attribute defines an area of the page which can contain a value in multiple lines of text.	xml	Y			in

Example

```
<attributes>
     <simple-attribute/>
     <dynamic-attribute/>
     <textbox-attribute/>
</attributes>
```

simple-attribute

Contained By

Business Service XML Element
attributes on page 142

Contains

Business Service XML Element
name on page 144, value on page 145

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
simple-attribute	Specifies the simple attribute name/value pair. **Note:** The value specified can be the name of a dynamic attribute. The parameter is not required, but at least one of the attributes (simple, dynamic, textbox) must be present).	xml				in

Example

```
<simple-attribute>
     <name/>
     <value/>
</simple-attribute>
```

name

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
IPLinkSetter	<request name="resolve-links">
Retrieve	<request name="retrieve-next-queued-job">

Business Service XML Element
simple-attribute on page 143, dynamic-attribute on page 146, style on page 253, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	name	Specifies the attribute name.	string	N	user defined		in
IPLinkSetter	name	Specifies link style test.	string	N	user defined		in

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	name	Specifies the name of the property.	string	Y	user defined		in
Retrieve	name	Specifies the name of the source document that was dequeued.	string				out

Example

```
<name type="string">DTE</name>
```

value

Contained By

Business Service XML Element
simple-attribute on page 143, textbox-attribute on page 150, extract on page 286, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	value	Specifies the attribute value (may be name of dynamic attribute). **Note:** May contain new-lines or carraige-return new line pairs. Long lines will be wrapped. Note that all whitespace is part of the value.	string	N	user defined		in
MSWord	value	Specifies displayed value of the link.	string	N	user defined		in
PDFFile	value	Specifies the value of the property	string	N	user defined		in

simple-attribute Example

```
<value type="string">122</value>
```

textbox-attribute Example

```
<value type="string">Line 1 of Text.
Line 2 of Text.
Line 3 of Text.</value>
```

extract Example

```
<value type="string">FDA Form 1571</value>
```

property Example

```
<value type="string">My Subject</value>
```

dynamic-attribute

Contained By

Business Service XML Element
attributes on page 142

Contains

Business Service XML Element
name on page 144, start-value on page 147, appearance on page 147, reset-value on page 148, increment-at-break-type on page 148, increment-amount on page 149, reset-at-break-type on page 149

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dynamic-attribute	Specifies the dynamic attribute name, appearance and how the attribute is to be changed.	xml	N	At least one of the attributes must be present: • simple • dynamic • textbox		in

Example

```
<dynamic-attribute>
     <name/>
     <start-value/>
     <appearance/>
     <reset-value/>
     <increment-at-break-type/>
     <increment-amount/>
     <reset-at-break-type/>
</dynamic-attribute>
```

name

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
IPLinkSetter	<request name="resolve-links">
Retrieve	<request name="retrieve-next-queued-job">

Business Service XML Element
simple-attribute on page 143, dynamic-attribute on page 146, style on page 253, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	name	Specifies the attribute name.	string	N	user defined		in
IPLinkSetter	name	Specifies link style test.	string	N	user defined		in
PDFFile	name	Specifies the name of the property.	string	Y	user defined		in
Retrieve	name	Specifies the name of the source document that was dequeued.	string				out

Example

```
<name type="string">DTE</name>
```

start-value

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start-value	Specifies dynamic attribute start value.	string	N	user defined		in

Example

```
<start-value type="string">1</start-value>
```

appearance

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
appearance	Specifies the type/ characteristic of the attribute.	string	N	• A - Arabic (default value) • L - Lower case letter • R - Lower case roman numeral • U - Upper case letter • V - Upper case roman numeral	A	in

Example

```
<appearance type="string">A</appearance>
```

reset-value

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
reset-value	Specifies the value the attribute should be reset to at <reset-at-break-type>.	string	N	user defined		in

Example

```
<reset-value type="string">1</reset-value>
```

increment-at-break-type

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
increment-at-break-type	Specifies the point at which the attribute is incremented. Acceptable values are:	string	N	• INSTANCE • PAGE • SECTION • VOLUME • PART • FILE		in

Example

```
<increment-at-break-type type="string">FILE</increment-at-break-type>
```

increment-amount

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
increment-amount	Specifies the dynamic attribute increment amount.	string	N	user defined		in

Example

```
<increment-amount type="string">1</increment-amount>
```

reset-at-break-type

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
reset-at-break-type	Specifies the point at which the attribute should be reset.	string	N	• PAGE • SECTION • VOLUME • PART • FILE		in

Example

```
<reset-at-break-type type="string">VOLUME</reset-at-break-type>
```

textbox-attribute

Contained By

Business Service XML Element
attributes on page 142

Contains

Business Service XML Element

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
textbox-attribute	Specifies the textbox delimiting attribute names and value. **Note:** The value specified can contain the delimited name of a dynamic attribute. The parameter is not required, but at least one of the attributes (simple, dynamic, textbox) must be present.	xml	N			in

Example

```
<textbox-attribute>
     <start-name/>
     <end-name/>
     <value/>
</textbox-attribute>
```

start-name

Contained By

Business Service XML Element
textbox-attribute on page 150

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start-name	Specifies the attribute name that defines the top-left corner of the textbox. The opening delimiter of the attribute defines the corner. **Note:** The start name and end name values cannot be the same.	string	N	user defined		in

Example

```
<start-name type="string">ATTR</start-name>
```

end-name

Contained By

Business Service XML Element
textbox-attribute on page 150

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
end-name	Specifies the attribute name that defines the bottom-right corner of the textbox. The closing delimiter of the attribute defines the corner. The entire end attribute must be to the right and below the start attribute with respect to the attribute text.	string	N	user defined		in

Example

```
<end-name type="string">!ATTR</end-name>
```

value

Contained By

Business Service XML Element
simple-attribute on page 143, textbox-attribute on page 150, extract on page 286, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	value	Specifies the attribute value (may be name of dynamic attribute). **Note:** May contain new-lines or carraige-return new line pairs. Long lines will be wrapped. Note that all whitespace is part of the value.	string	N	user defined		in
MSWord	value	Specifies displayed value of the link.	string	N	user defined		in
PDFFile	value	Specifies the value of the property	string	N	user defined		in

simple-attribute Example

```
<value type="string">122</value>
```

textbox-attribute Example

```
<value type="string">Line 1 of Text.
Line 2 of Text.
Line 3 of Text.</value>
```

extract Example

```
<value type="string">FDA Form 1571</value>
```

property Example

```
<value type="string">My Subject</value>
```

file

Contained By

Business Service XML Element
components on page 141

Contains

Business Service XML Element
page-range on page 153, attribute-search on page 154, slipsheet on page 154, title on page 154, output-docinfo-ops on page 155, source-document on page 160, source-location on page 160, append-blank-page on page 161, force-front on page 161, normalise-size on page 126, page-height on page 127, page-width on page 128, can-break on page 164, start-volume on page 164, group-with-next on page 165, tag on page 165, output-document-props on page 166, overlay on page 136, margins on page 171

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
file	Specifies information about the file being appended to the published output.	xml	Y		N/A	in

Example

```
<file>
     <page-range/>
     <attribute-search/>
     <slipsheet/>
     <title/>
     <source-document/>
     <source-location/>
     <append-blank-page/>
     <force-front/>
     <normalise-size/>
     <page-height/>
     <page-width/>
     <can-break/>
     <start-volume/>
     <group-with-next/>
     <output-document-props/>
     <output-docinfo-ops/>
     <tag/>
     <overlay/>
     <margins/>
</file>
```

page-range

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
page-range	Specifies the file page range (i.e., which file pages are to be used in the published output). Values are: • a (Page a only) • a-b (Pages a to b) • -a (Pages 1 to a) • a- (Pages a to last page)	string	N	• [1...n] • [1...n]-[n +1...n] • -[2...n] • [1...n]-	n	in

Example

```
<page-range type="string">1-9</page-range>
```

attribute-search

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
attribute-search	Specifies whether the file is to be searched for attributes to be replaced.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<attribute-search type="bool">false</attribute-search>
```

slipsheet

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
slipsheet	Specifies whether the file is to be treated as a slipsheet. If yes, then page and file breaks will not be processed. Values are true/false or 1/0.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<slipsheet type="bool">0</slipsheet>
```

title

Contained By

Business Service XML Element
file on page 152, general on page 282

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	title	Specifies the file's title.	string	N	user defined		in
MSWord	title	Specifies the output TOC title.	string	N	user defined		in

Example

```
<title type="string">File Title</title>
```

output-docinfo-ops

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
output-docinfo-op on page 156

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-docinfo-ops	Specifies information about the PDF properties of the output file. A list of 0 or more output-docinfo-op elements defining the operations to be performed on the output file DocInfo dictionary for this file only. The operations defined by the child output-docinfo-op elements are executed in the order they appear in the ticket. The operations are independent of each other and may alter the output of previous operations from this or output-docinfo-ops defined for preceding request/desc/publish/components/file elements. **Note:** Use of the output-document-props element in the /desc/publish/components/file element is deprecated. If both the output-document-props element and the output-docinfo-ops elements appear as children of a single /desc/publish/components/file element, the element appearing last is used	xml			N/A	in

Example

```
<output-docinfo-ops>
   <output-docinfo-op/>
      . . .
   <output-docinfo-op/>
 </output-docinfo-ops>
```

output-docinfo-op

Contained By

Business Service XML Element
output-docinfo-ops on page 155

Contains

Business Service XML Element
docinfo-key on page 157, docinfo-op on page 157, operands on page 159

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-docinfo-op	Contains the definition of a single output file DocInfo dictionary operation. If any required child elements are missing, an error is thrown.	xml	N		N/A	in

Example

```
<output-docinfo-op>
     <docinfo-key/>
     <docinfo-op/>
     <operands/>
 </output-docinfo-op>
```

docinfo-key

Contained By

Business Service XML Element
output-docinfo-op on page 156

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
docinfo-key	The key of the output file DocInfo dictionary entry to modify. The value of this element must be a conforming PDF Name object as described in section 7.3.5 of the PDF32000_2008 ISO spec. If the output file DocInfo dictionary key, is missing or invalid, an error is thrown.	sting	Y	user defined		in

Example

```
<docinfo-key type="string">Title</docinfo-key>
```

docinfo-op

Contained By

Business Service XML Element
output-docinfo-op on page 156

Contains

Business Service XML Element

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
docinfo-op	Specifies the source of the value for the DocInfo dictionary key. If docinfo-op is missing or blank, an error is thrown. Unrecognized values are ignored. Acceptable values are:	string	Y	• set-literal-value: Sets the value of the DocInfo entry to the value of operands[0]. • set-file-value: Sets the value of the DocInfo entry to the value of the entry with the key operands[0] in the DocInfo dictionary of the file being processed. The file is identified by the source-document element. If the DocInfo dictionary of the file being processed does not contain the key identified by operands[0] or the value of the entry is blank, the output file DocInfo dictionary entry is set to blank. • set-simple-attribute-value • set-dynamic-attribute-value: Sets the value of the DocInfo entry to the current value of the attribute with the Name operands[0]. Dynamic attributes will be resolved at the first page of the file, identified by the page-range element. If the attribute identified by operands[0] does not exist, or the value of the attribute is blank, the output file DocInfo dictionary entry is set to blank. • set-textbox-attribute-value: Sets the value of the DocInfo entry to the current value of the textbox attribute with the start-name operands[0] and the end-name operands[1]. If the attribute identified by operands[0] and operands[1] does not exist, or the value of the attribute is blank, the output file DocInfo dictionary entry is set to blank. • append-literal-value: Appends the value of operands[0] to the value of the output file DocInfo entry. If the value of operands[0] is blank, the output file DocInfo dictionary is unchanged. Also see description of operands[1] below. • append-file-value: Appends the value of the entry with the key operands[0] in the DocInfo dictionary of the file being processed to the value of the DocInfo entry. The file is identified by the source-document element. If the DocInfo dictionary of the file being processed does not contain the key identified by operands[0] or the value of the entry is blank, the output file DocInfo dictionary is unchanged. Also see description of operands[1] below. • append-simple-attribute-value • append-dynamic-attribute-value: Appends the current value of the attribute with the Name operands[0] to the value of the DocInfo entry. Dynamic attributes will be resolved at the first page of the file, identified by the page-range element. If the attribute identified by operands[0] does not	N/A	in

Example

```
<docinfo-op>set-file-value</docinfo-op>
```

operands

Contained By

Business Service XML Element
output-docinfo-op on page 156

Contains

Business Service XML Element
operand on page 159

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
operands	• An array of one or two operands for the value xxx-literal-value of docinfo-op. • An array of one or two operands for the value xxx-file-value of docinfo-op. • An array of one or two operands for the value xxx-simple-attribute-value of docinfo-op. • An array of one or two operands for the value xxx-dynamic-attribute-value of docinfo-op. • An array of two or three operands for the value xxx-textbox-attribute-value of docinfo-op.	xml	Y		N/A	in

Example

```
<operands>
    <operand>Author</operand>
</operands>
```

operand

Contained By

Business Service XML Element
operands on page 159

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
operand	Specifies the value to be set/appended to the DocInfo dictionary key.	string	Y	user defined	N/A	in

Example

```
<operand type="string">Title</operand>
```

source-document

Contained By

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
source-document	Specifies the file's path.	string	Y	user defined	N/A	in

Example

```
<source-document type="string">c:\Document\File.pdf</source-document>
```

source-location

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
source-location	Specifies a user-friendly description of the file's path.	string	N	user defined	none **Note:** If specified, it will be used in error messages when an error occurs.	in

Example

```
<source-location type="string">c:\Document\File.pdf</source-location>
```

append-blank-page

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
append-blank-page	Specifies whether the file should have a blank page appended. Values are true/false or 1/0.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<append-blank-page type="bool">0</append-blank-page>
```

force-front

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
force-front	Specifies whether the file starts on an odd (i.e., frontside) page. Values are true/false or 1/0. **Note:** Used in conjunction with margins and odd-even-margins when they are set to `true`.	boolean	N	• 0 or false • 1 or false	false	in

Example

```
<force-front type="bool">false</force-front>
```

normalise-size

Contained By

Business Service Element	Business Service Request
	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
normalise-size	Specifies whether pages are to be normalized. Overlay files will not be changed. The page size will be changed by adding or removing 'paper' at the top right-hand corner, with the page contents being scaled by the appropriate amount, maintaining the aspect ratio. Links and annotations will also be relocated. See page-height on page 127 and page-width on page 128. Default is to the page normalizing specified at the assembly level. **Note:** If normalizing is specified at the file level then it will override the normalizing specified at the assembly level.	string	N	custom	custom	in

Example

```
<normalise-size type="string">custom</normalise-size>
```

page-height

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value	Direction
page-height	Specifies normalized page height. See normalise-size on page 126. Page height is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt	in

Example

```
<page-height type="string">279.40mm</page-height>
```

page-width

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
page-width	Specifies normalized page width. See normalise-size on page 126. Page width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units. Acceptable units are: • pt • in • mm • cm	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	in

Example

```
<page-width type="string">279.40mm</page-width>
```

can-break

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
can-break	Specifies if this file or slipsheet cannot be split and must be contained by a single output file (value = false).	boolean	N	• 0 or false • 1 or true	true	in

Example

```
<can-break type=”bool”>true</can-break>
```

start-volume

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start-volume	Specifies if a new output file should be started at the beginning of this file or slipsheet (value = true). 'start-volume' does not make sense if the previous file or slipsheet is marked 'group-with-next' = true.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<start-volume type="bool">false</start-volume>
```

group-with-next

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
group-with-next	Specifies if the next file or slipsheet must be processed as if it was a single block of pages. Multiple contiguous files and/or slipsheets may be chained together with this flag. This set of files and/or slipsheets are processed as a single block. Any file or slipsheet marked as 'group-with-next' must also have a 'can-break' = false parameter.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<group-with-next type="bool">0</group-with-next>
```

tag

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tag	Specifies a user defined element that can be used to correlate this file or slipsheet to LIQUENT InSight, to be copied verbatim to the 'volumes/ volumes/volume/' output parameter. This parameter must be supplied on a file or slipsheet where a break can occur.	xml	N	user defined		in

Example

```
<tag type="xml"></tag>
```

output-document-props

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-document-props	If value is true the output PDF properties (Title, Author, Subject, Keywords) will be read from the selected PDF file.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<output-document-props type="bool">false</output-document-props>
```

overlay

Contained By

Business Service XML Element
front-matter on page 135, file on page 152,

Contains

Business Service XML Element
allow-scaling on page 131, rotate-portrait-to-landscape on page 131, best-fit on page 132, portrait on page 132, landscape on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
overlay	Specifies information about overlaying pages in the front matter.	xml	N			in

Example

```
<overlay>
     <allow-scaling/>
     <rotate-portrait-to-landscape/>
     <best-fit/>
     <portrait/>
     <landscape/>
</overlay>
```

allow-scaling

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
allow-scaling	Specifies whether the overlay page is to be scaled to fit the page being overlayed.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<allow-scaling type="bool">0</allow-scaling>
```

rotate-portrait-to-landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
rotate-portrait-to-landscape	Specifies whether a portrait overlay page is to be rotated before overlaying a landscape page.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<rotate-portrait-to-landscape type="bool">0</rotate-portrait-to-landscape>
```

best-fit

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
best-fit	Specifies whether to select the overlay page that best fits the page being overlayed.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<best-fit type="bool">0</best-fit>
```

portrait

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
portrait	Specifies the overlay files to be used when overlaying portrait pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages.	xml	N		N/A	in

Example

```
<portrait>
     <odd-overlay-file/>
     <even-overlay-file/>
</portrait>
```

odd-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-overlay-file	Specifies the overlay file used on odd pages.	string	N	user defined	none	in

Example

```
<odd-overlay-file type="string">c:\OddOverlay.pdf</odd-overlay-file>
```

even-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
even-overlay-file	Specifies the overlay file used on even pages.	string	N	user defined	odd-overlay-file if it was specified	in

Example

```
<even-overlay-file type="string">c:\OddOverlay.pdf</even-overlay-file>
```

landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136, margins on page 171

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133, right-margin on page 174, left-margin on page 173, header-margin on page 174, footer-margin on page 174

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
landscape	Specifies the overlay files to be used when overlaying landscape pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages. **Note:** When used within the margins element, it specifies the files' landscape page margins. If it is not specified, then the portait margins are used.	xml	N			in

overlay landscape Example

```
<landscape>
     <odd-overlay-file/>
     <even-overlay-file/>
</landscape>
```

margins landscape Example

```
<landscape>
     <right-margin/>
     <left-margin/>
     <header-margin/>
     <footer-margin/>
</landscape>
```

odd-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-overlay-file	Specifies the overlay file used on odd pages.	string	N	user defined	none	in

Example

```
<odd-overlay-file type="string">c:\OddOverlay.pdf</odd-overlay-file>
```

even-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
even-overlay-file	Specifies the overlay file used on even pages.	string	N	user defined	odd-overlay-file if it was specified	in

Example

```
<even-overlay-file type="string">c:\OddOverlay.pdf</even-overlay-file>
```

margins

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
shrink-to-fit on page 172, odd-even-margins on page 173, left-margin on page 173, right-margin on page 174, header-margin on page 174, footer-margin on page 174, landscape on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
margins	Specifies the file's page margins. Margins can be specified for both portrait and landscape pages. If landscape margins are not specified then the portratit margins are used.	xml	N		entire page	in

Example

```
<margins>
     <shrink-to-fit/>
     <odd-even-margins/>
     <left-margin/>
     <right-margin/>
     <header-margin/>
     <footer-margin/>
     <landscape/>
</margins>
```

shrink-to-fit

Contained By

Business Service XML Element
margins on page 171

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
shrink-to-fit	Specifies whether to shrink (if necessary) the pages of the file to fit within the specified margins. Values are true/false or 1/0.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<shrink-to-fit type="bool">false</shrink-to-fit>
```

odd-even-margins

Contained By

Business Service XML Element
margins on page 171

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-even-margins	Specifies whether left and right margins are to be switched on even (i.e., backside) pages. Values are true/false or 1/0.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<odd-even-margins type="bool">false</odd-even-margins>
```

left-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
left-margin	Specifies the left margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<left-margin type="string">1in</left-margin>
```

right-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
right-margin	Specifies the right margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<right-margin type="string">1in</right-margin>
```

header-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
header-margin	Specifies the header (i.e., top) margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<header-margin type="string">1in</header-margin>
```

footer-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
footer-margin	Specifies the footer (i.e., bottom) margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<footer-margin type="string">1in</footer-margin>
```

landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136, margins on page 171

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133, right-margin on page 174, left-margin on page 173, header-margin on page 174, footer-margin on page 174

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
landscape	Specifies the overlay files to be used when overlaying landscape pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages. **Note:** When used within the margins element, it specifies the files' landscape page margins. If it is not specified, then the portait margins are used.	xml	N			in

overlay landscape Example

```
<landscape>
     <odd-overlay-file/>
     <even-overlay-file/>
</landscape>
```

margins landscape Example

```
<landscape>
     <right-margin/>
     <left-margin/>
     <header-margin/>
     <footer-margin/>
</landscape>
```

right-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
right-margin	Specifies the right margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<right-margin type="string">1in</right-margin>
```

left-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
left-margin	Specifies the left margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<left-margin type="string">1in</left-margin>
```

header-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
header-margin	Specifies the header (i.e., top) margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<header-margin type="string">1in</header-margin>
```

footer-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
footer-margin	Specifies the footer (i.e., bottom) margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<footer-margin type="string">1in</footer-margin>
```

slipsheet

Contained By

Business Service XML Element
components on page 141

Contains

Business Service XML Element
can-break on page 164, start-volume on page 164, group-with-next on page 165, tag on page 165, height on page 180, width on page 181

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
slipsheet	Specifies the slipsheet information. A slipsheet is a single blank page that will be inserted in the published output.	xml	N			in

Example

```
<slipsheet>
     <can-break/>
     <start-volume/>
     <group-with-next/>
     <tag/>
     <height/>
     <width/>
</slipsheet>
```

can-break

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
can-break	Specifies if this file or slipsheet cannot be split and must be contained by a single output file (value = false).	boolean	N	• 0 or false • 1 or true	true	in

Example

```
<can-break type="bool">true</can-break>
```

start-volume

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start-volume	Specifies if a new output file should be started at the beginning of this file or slipsheet (value = true). 'start-volume' does not make sense if the previous file or slipsheet is marked 'group-with-next' = true.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<start-volume type="bool">false</start-volume>
```

group-with-next

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
group-with-next	Specifies if the next file or slipsheet must be processed as if it was a single block of pages. Multiple contiguous files and/or slipsheets may be chained together with this flag. This set of files and/or slipsheets are processed as a single block. Any file or slipsheet marked as 'group-with-next' must also have a 'can-break' = false parameter.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<group-with-next type="bool">0</group-with-next>
```

tag

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tag	Specifies a user defined element that can be used to correlate this file or slipsheet to LIQUENT InSight, to be copied verbatim to the 'volumes/volumes/volume/' output parameter. This parameter must be supplied on a file or slipsheet where a break can occur.	xml	N	user defined		in

Example

```
<tag type="xml"></tag>
```

height

Contained By

Business Service XML Element
slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
height	Specifies slipsheet page height. Page height is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<height type="string">11in</height>
```

width

Contained By

Business Service XML Element
slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
width	Specifies slipsheet page width. Page width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<width type="string">8.5in</width>
```

volumize-by-size

output-path

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">
IPFusion	<request name="publish"> <request name="volumize-by-size">
PDFFile	<request name="set-security">
Render	<request name="render-pdf">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	output-path	Where a file was: • moved • copied	string		user defined		out
IPFusion, PDFFile	output-path	Specifies output folder path. If not specified then temporary folder will be created.	string	N	user defined		in
Render	output-path	Specifies the output path for the PDF rendition. This parameter is only used if the local-rendition-path on page 441 parameter is not provided. If both the local-rendition-path and output-folder parameters are not provided within the request, a temporary output folder path will be generated. This parameter will be set in the job ticket with the temporary folder location upon completion of the request.	string		user defined		out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Watermark	output-path	Specifies the output file name of the resulting watermarked pdf. If not supplied, a temporary file name and path will be generated. The output-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request.	string	N	user defined		in

Example

```
<output-path type="string">C:\Output</output-path>
```

max-target-size

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
max-target-size	Specifies the maximum size of an output file created automatically in megabytes.	integer	Y			in

Example

```
<max-target-size type="integer">5</max-target-size>
```

min-target-size

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
min-target-size	Specifies the minimum size of an output file created automatically in megabytes.	integer	Y			in

Example

```
<min-target-size type="integer">5</min-target-size>
```

output-pdf-version

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-pdf-version	Specifies PDF version of output file.	string	N	• 1.4 • 1.5 • 1.6 • 1.7	1.4	in

Example

```
<output-pdf-version type="string">1.4</output-pdf-version>
```

search-attributes

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
search-body on page 121, search-front-matter on page 122, search-bookmarks on page 122

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
search-attributes	Specifies what is to be searched for attribute tags.	xml	N		N/A	in

Example

```
<search-attributes>
     <search-body/>
     <search-front-matter/>
     <search-bookmarks/>
</search-attributes>
```

search-body

Contained By

Business Service XML Element
search-attributes on page 121

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
search-body	Specifies whether body is to be searched for attribute tags.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<search-body type="bool">0</search-body><search-body>
```

search-front-matter

Contained By

Business Service XML Element
search-attributes on page 121

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
search-front-matter	Specifies whether front matter is to be searched for attribute tags.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<search-front-matter type="bool">0</search-front-matter>
```

search-bookmarks

Contained By

Business Service XML Element
search-attributes on page 121

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
search-bookmarks	Specifies whether bookmarks are to be searched for attribute tags.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<search-bookmarks type="bool">0</search-bookmarks>
```

all-bookmarks

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
all-bookmarks	Specifies whether all bookmarks from the files are contained in the output.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<all-bookmarks type="bool">0</all-bookmarks>
```

max-bookmarks

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
max-bookmarks	Specifies the maximum level of file bookmarks used in the output. Zero indicates no bookmarks are to be used.	integer	N	[0...n]	0	in

Example

```
<max-bookmarks type="integer">10</max-bookmarks>
```

retain-attributes

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
retain-attributes	Specifies whether unresolved attributes will be retained or removed (i.e., replaced with blanks).	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<retain-attributes type="bool">0</retain-attributes>
```

open-attribute-delimeter

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
open-attribute-delimeter	Specifies attribute opening tag.	string	N		< (i.e., "<")	in

Example

```
<open-attribute-delimeter type="string">&lt;</open-attribute-delimeter>
```

close-attribute-delimiter

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
close-attribute-delimiter	Specifies attribute closing tag.	string	N		> (i.e., ">")	in

Example

```
<close-attribute-delimeter type="string">&gt;</close-attribute-delimeter>
```

blank-page-file

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
blank-page-file	Specifies the blank page file name. If any files are to have a blank page appended then this file will be searched for the page having the best match .	string	N	user defined		in

Example

```
<blank-page-file type="string">C:\Blank.pdf</blank-page-file>
```

normalise-size

Contained By

Business Service Element	Business Service Request
	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
normalise-size	Specifies whether pages are to be normalized. Overlay files will not be changed. The page size will be changed by adding or removing 'paper' at the top right-hand corner, with the page contents being scaled by the appropriate amount, maintaining the aspect ratio. Links and annotations will also be relocated. See page-height on page 127 and page-width on page 128. Default is to the page normalizing specified at the assembly level. **Note:** If normalizing is specified at the file level then it will override the normalizing specified at the assembly level.	string	N	custom	custom	in

Example

```
<normalise-size type="string">custom</normalise-size>
```

page-height

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value	Direction
page-height	Specifies normalized page height. See normalise-size on page 126. Page height is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt	in

Example

```
<page-height type="string">279.40mm</page-height>
```

page-width

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
page-width	Specifies normalized page width. See normalise-size on page 126. Page width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units. Acceptable units are: • pt • in • mm • cm	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	in

Example

```
<page-width type="string">279.40mm</page-width>
```

desc

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">

Contains

Business Service XML Element
publish on page 130

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
desc	Specifies publishing instructions and components.	xml	Y		N/A	in

Example

```
<desc resolve-from="1" type="xml">
     <publish>
```

```
          <body-overlay/>
          <front-matter/>
          <components/>
     </publish>
</desc>
```

publish

Contained By

Business Service XML Element
desc on page 129

Contains

Business Service XML Element
body-overlay on page 130, front-matter on page 135, components on page 141

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
publish		xml	N		N/A	in

Example

```
<publish>
     <body-overlay/>
     <front-matter/>
     <components/>
</publish>
```

body-overlay

Contained By

Business Service XML Element
publish on page 130

Contains

Business Service XML Element
allow-scaling on page 131, rotate-portrait-to-landscape on page 131, best-fit on page 132, portrait on page 132, landscape on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
body-overlay	Specifies information about overlaying pages in the output body. These are the default overlay pages that are used if no overlays are specified at the 'file' or 'front-matter' level.	xml	N		N/A	in

Example

```
<body-overlay>
     <allow-scaling/>
     <rotate-portrait-to-landscape/>
     <best-fit/>
     <portrait/>
     <landscape/>
</body-overlay>
```

allow-scaling

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
allow-scaling	Specifies whether the overlay page is to be scaled to fit the page being overlayed.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<allow-scaling type="bool">0</allow-scaling>
```

rotate-portrait-to-landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
rotate-portrait-to-landscape	Specifies whether a portrait overlay page is to be rotated before overlaying a landscape page.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<rotate-portrait-to-landscape type="bool">0</rotate-portrait-to-landscape>
```

best-fit

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
best-fit	Specifies whether to select the overlay page that best fits the page being overlayed.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<best-fit type="bool">0</best-fit>
```

portrait

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
portrait	Specifies the overlay files to be used when overlaying portrait pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages.	xml	N		N/A	in

Example

```
<portrait>
     <odd-overlay-file/>
     <even-overlay-file/>
</portrait>
```

odd-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-overlay-file	Specifies the overlay file used on odd pages.	string	N	user defined	none	in

Example

```
<odd-overlay-file type="string">c:\OddOverlay.pdf</odd-overlay-file>
```

even-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
even-overlay-file	Specifies the overlay file used on even pages.	string	N	user defined	odd-overlay-file if it was specified	in

Example

```
<even-overlay-file type="string">c:\OddOverlay.pdf</even-overlay-file>
```

landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136, margins on page 171

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133, right-margin on page 174, left-margin on page 173, header-margin on page 174, footer-margin on page 174

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
landscape	Specifies the overlay files to be used when overlaying landscape pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages. **Note:** When used within the margins element, it specifies the files' landscape page margins. If it is not specified, then the portait margins are used.	xml	N			in

overlay landscape Example

```
<landscape>
     <odd-overlay-file/>
     <even-overlay-file/>
</landscape>
```

margins landscape Example

```
<landscape>
     <right-margin/>
     <left-margin/>
     <header-margin/>
     <footer-margin/>
</landscape>
```

front-matter

Contained By

Business Service XML Element
publish on page 130

Contains

Business Service XML Element
front-file on page 136, front-location on page 136, overlay on page 136

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
front-matter	Specifies information about the front matter to be added to the front of the assembled files.	xml	N			in

Example

```
<front-matter>
     <front-file/>
     <front-location/>
     <overlay/>
</front-matter>
```

front-file

Contained By

Business Service XML Element
front-matter on page 135

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
front-file	Specifies the file to be used as front matter.	string		user defined		in

Example

```
<front-file type="string">c:\OddOverlay.pdf</front-file>
```

front-location

Contained By

Business Service XML Element
front-matter on page 135

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
front-location	Specifies a user-friendly description of the file to be used as front matter.	string	N	user defined	Default is none but if specified will be used in error messages when an error occurs.	in

Example

```
<front-location type="string">c:\EvenOverlay.pdf</front-location>
```

overlay

Contained By

Business Service XML Element
front-matter on page 135, file on page 152,

Contains

Business Service XML Element
allow-scaling on page 131, rotate-portrait-to-landscape on page 131, best-fit on page 132, portrait on page 132, landscape on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
overlay	Specifies information about overlaying pages in the front matter.	xml	N			in

Example

```
<overlay>
     <allow-scaling/>
     <rotate-portrait-to-landscape/>
     <best-fit/>
     <portrait/>
     <landscape/>
</overlay>
```

components

Contained By

Business Service XML Element
publish on page 130

Contains

Business Service XML Element
attributes on page 142, file on page 152, slipsheet on page 178

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
components	Specifies the components used in assembling the published output.	xml	Y			in

Example

```
<components>
     <attributes/>
     <file/>
     <slipsheet/>
</components>
```

attributes

Contained By

Business Service XML Element
components on page 141

Contains

Business Service XML Element
simple-attribute on page 143, dynamic-attribute on page 146, textbox-attribute on page 150

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
attributes	Specifies attribute values. Attributes are predefined text strings residing in the files (including overlays) used to assemble the published output. These text strings are identified by special opening and closing delimeter characters (e.g. “<” and “>”). These delimiters must be different from each other. The string may contain whitespace that may be used to define the alignment of the resulting string. The character size, typeface and color of the opening delimiter for the attribute string are used to define the appearance of the overlay, it is recommended that the font of the text within the delimiters is the same as the font used for the opening delimiter. The distance between the opening and closing delimiter determines the maximum length of the overlaid attribute. The alignment of the string within this field is determined by its position relative to the delimiters. <ATTRIB > Left aligned <ATTRIB> Left aligned < ATTRIB> Right aligned < ATTRIB > Centered (at least one character width of whitespace must separate the attribute name from each of the delimiters) There are three types of attributes: simple, dynamic, and text box. A simple attribute is one that specifies a name and value only. Whenever an attribute is encountered with the specified name then it is replaced with the value. A dynamic attribute also has a name and value but the value is dynamic because it can change as publishing occurs based on specified rules. A text box attribute defines an area of the page which can contain a value in multiple lines of text.	xml	Y			in

Example

```
<attributes>
     <simple-attribute/>
     <dynamic-attribute/>
     <textbox-attribute/>
</attributes>
```

simple-attribute

Contained By

Business Service XML Element
attributes on page 142

Contains

Business Service XML Element
name on page 144, value on page 145

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
simple-attribute	Specifies the simple attribute name/value pair. **Note:** The value specified can be the name of a dynamic attribute. The parameter is not required, but at least one of the attributes (simple, dynamic, textbox) must be present).	xml				in

Example

```
<simple-attribute>
     <name/>
     <value/>
</simple-attribute>
```

name

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
IPLinkSetter	<request name="resolve-links">
Retrieve	<request name="retrieve-next-queued-job">

Business Service XML Element
simple-attribute on page 143, dynamic-attribute on page 146, style on page 253, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	name	Specifies the attribute name.	string	N	user defined		in
IPLinkSetter	name	Specifies link style test.	string	N	user defined		in

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	name	Specifies the name of the property.	string	Y	user defined		in
Retrieve	name	Specifies the name of the source document that was dequeued.	string				out

Example

```
<name type="string">DTE</name>
```

value

Contained By

Business Service XML Element
simple-attribute on page 143, textbox-attribute on page 150, extract on page 286, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	value	Specifies the attribute value (may be name of dynamic attribute). **Note:** May contain new-lines or carraige-return new line pairs. Long lines will be wrapped. Note that all whitespace is part of the value.	string	N	user defined		in
MSWord	value	Specifies displayed value of the link.	string	N	user defined		in
PDFFile	value	Specifies the value of the property	string	N	user defined		in

simple-attribute Example

```
<value type="string">122</value>
```

textbox-attribute Example

```
<value type="string">Line 1 of Text.
Line 2 of Text.
Line 3 of Text.</value>
```

extract Example

```
<value type="string">FDA Form 1571</value>
```

property Example

```
<value type="string">My Subject</value>
```

dynamic-attribute

Contained By

Business Service XML Element
attributes on page 142

Contains

Business Service XML Element
name on page 144, start-value on page 147, appearance on page 147, reset-value on page 148, increment-at-break-type on page 148, increment-amount on page 149, reset-at-break-type on page 149

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dynamic-attribute	Specifies the dynamic attribute name, appearance and how the attribute is to be changed.	xml	N	At least one of the attributes must be present: • simple • dynamic • textbox		in

Example

```
<dynamic-attribute>
     <name/>
     <start-value/>
     <appearance/>
     <reset-value/>
     <increment-at-break-type/>
     <increment-amount/>
     <reset-at-break-type/>
</dynamic-attribute>
```

name

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
IPLinkSetter	<request name="resolve-links">
Retrieve	<request name="retrieve-next-queued-job">

Business Service XML Element
simple-attribute on page 143, dynamic-attribute on page 146, style on page 253, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	name	Specifies the attribute name.	string	N	user defined		in
IPLinkSetter	name	Specifies link style test.	string	N	user defined		in
PDFFile	name	Specifies the name of the property.	string	Y	user defined		in
Retrieve	name	Specifies the name of the source document that was dequeued.	string				out

Example

```
<name type="string">DTE</name>
```

start-value

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start-value	Specifies dynamic attribute start value.	string	N	user defined		in

Example

```
<start-value type="string">1</start-value>
```

appearance

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
appearance	Specifies the type/ characteristic of the attribute.	string	N	• A - Arabic (default value) • L - Lower case letter • R - Lower case roman numeral • U - Upper case letter • V - Upper case roman numeral	A	in

Example

```
<appearance type="string">A</appearance>
```

reset-value

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
reset-value	Specifies the value the attribute should be reset to at <reset-at-break-type>.	string	N	user defined		in

Example

```
<reset-value type="string">1</reset-value>
```

increment-at-break-type

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
increment-at-break-type	Specifies the point at which the attribute is incremented. Acceptable values are:	string	N	• INSTANCE • PAGE • SECTION • VOLUME • PART • FILE		in

Example

```
<increment-at-break-type type="string">FILE</increment-at-break-type>
```

increment-amount

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
increment-amount	Specifies the dynamic attribute increment amount.	string	N	user defined		in

Example

```
<increment-amount type="string">1</increment-amount>
```

reset-at-break-type

Contained By

Business Service XML Element
dynamic-attribute on page 146

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
reset-at-break-type	Specifies the point at which the attribute should be reset.	string	N	• PAGE • SECTION • VOLUME • PART • FILE		in

Example

```
<reset-at-break-type type="string">VOLUME</reset-at-break-type>
```

textbox-attribute

Contained By

Business Service XML Element
attributes on page 142

Contains

Business Service XML Element

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
textbox-attribute	Specifies the textbox delimiting attribute names and value. **Note:** The value specified can contain the delimited name of a dynamic attribute. The parameter is not required, but at least one of the attributes (simple, dynamic, textbox) must be present.	xml	N			in

Example

```
<textbox-attribute>
     <start-name/>
     <end-name/>
     <value/>
</textbox-attribute>
```

start-name

Contained By

Business Service XML Element
textbox-attribute on page 150

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start-name	Specifies the attribute name that defines the top-left corner of the textbox. The opening delimiter of the attribute defines the corner. **Note:** The start name and end name values cannot be the same.	string	N	user defined		in

Example

```
<start-name type="string">ATTR</start-name>
```

end-name

Contained By

Business Service XML Element
textbox-attribute on page 150

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
end-name	Specifies the attribute name that defines the bottom-right corner of the textbox. The closing delimiter of the attribute defines the corner. The entire end attribute must be to the right and below the start attribute with respect to the attribute text.	string	N	user defined		in

Example

```
<end-name type="string">!ATTR</end-name>
```

value

Contained By

Business Service XML Element
simple-attribute on page 143, textbox-attribute on page 150, extract on page 286, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	value	Specifies the attribute value (may be name of dynamic attribute). **Note:** May contain new-lines or carraige-return new line pairs. Long lines will be wrapped. Note that all whitespace is part of the value.	string	N	user defined		in
MSWord	value	Specifies displayed value of the link.	string	N	user defined		in
PDFFile	value	Specifies the value of the property	string	N	user defined		in

simple-attribute Example

```
<value type="string">122</value>
```

textbox-attribute Example

```
<value type="string">Line 1 of Text.
Line 2 of Text.
Line 3 of Text.</value>
```

extract Example

```
<value type="string">FDA Form 1571</value>
```

property Example

```
<value type="string">My Subject</value>
```

file

Contained By

Business Service XML Element
components on page 141

Contains

Business Service XML Element
page-range on page 153, attribute-search on page 154, slipsheet on page 154, title on page 154, output-docinfo-ops on page 155, source-document on page 160, source-location on page 160, append-blank-page on page 161, force-front on page 161, normalise-size on page 126, page-height on page 127, page-width on page 128, can-break on page 164, start-volume on page 164, group-with-next on page 165, tag on page 165, output-document-props on page 166, overlay on page 136, margins on page 171

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
file	Specifies information about the file being appended to the published output.	xml	Y		N/A	in

Example

```
<file>
     <page-range/>
     <attribute-search/>
     <slipsheet/>
     <title/>
     <source-document/>
     <source-location/>
     <append-blank-page/>
     <force-front/>
     <normalise-size/>
     <page-height/>
     <page-width/>
     <can-break/>
     <start-volume/>
     <group-with-next/>
     <output-document-props/>
     <output-docinfo-ops/>
     <tag/>
     <overlay/>
     <margins/>
</file>
```

page-range

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
page-range	Specifies the file page range (i.e., which file pages are to be used in the published output). Values are: • a (Page a only) • a-b (Pages a to b) • -a (Pages 1 to a) • a- (Pages a to last page)	string	N	• [1...n] • [1...n]-[n +1...n] • -[2...n] • [1...n]-	n	in

Example

```
<page-range type="string">1-9</page-range>
```

attribute-search

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
attribute-search	Specifies whether the file is to be searched for attributes to be replaced.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<attribute-search type="bool">false</attribute-search>
```

slipsheet

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
slipsheet	Specifies whether the file is to be treated as a slipsheet. If yes, then page and file breaks will not be processed. Values are true/false or 1/0.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<slipsheet type="bool">0</slipsheet>
```

title

Contained By

Business Service XML Element
file on page 152, general on page 282

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	title	Specifies the file's title.	string	N	user defined		in
MSWord	title	Specifies the output TOC title.	string	N	user defined		in

Example

```
<title type="string">File Title</title>
```

output-docinfo-ops

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
output-docinfo-op on page 156

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-docinfo-ops	Specifies information about the PDF properties of the output file. A list of 0 or more output-docinfo-op elements defining the operations to be performed on the output file DocInfo dictionary for this file only. The operations defined by the child output-docinfo-op elements are executed in the order they appear in the ticket. The operations are independent of each other and may alter the output of previous operations from this or output-docinfo-ops defined for preceding request/desc/publish/components/file elements. **Note:** Use of the output-document-props element in the /desc/publish/components/file element is deprecated. If both the output-document-props element and the output-docinfo-ops elements appear as children of a single /desc/publish/components/file element, the element appearing last is used	xml			N/A	in

Example

```
<output-docinfo-ops>
   <output-docinfo-op/>
      . . .
   <output-docinfo-op/>
 </output-docinfo-ops>
```

output-docinfo-op

Contained By

Business Service XML Element
output-docinfo-ops on page 155

Contains

Business Service XML Element
docinfo-key on page 157, docinfo-op on page 157, operands on page 159

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-docinfo-op	Contains the definition of a single output file DocInfo dictionary operation. If any required child elements are missing, an error is thrown.	xml	N		N/A	in

Example

```
<output-docinfo-op>
     <docinfo-key/>
     <docinfo-op/>
     <operands/>
 </output-docinfo-op>
```

docinfo-key

Contained By

Business Service XML Element
output-docinfo-op on page 156

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
docinfo-key	The key of the output file DocInfo dictionary entry to modify. The value of this element must be a conforming PDF Name object as described in section 7.3.5 of the PDF32000_2008 ISO spec. If the output file DocInfo dictionary key, is missing or invalid, an error is thrown.	sting	Y	user defined		in

Example

```
<docinfo-key type="string">Title</docinfo-key>
```

docinfo-op

Contained By

Business Service XML Element
output-docinfo-op on page 156

Contains

Business Service XML Element

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
docinfo-op	Specifies the source of the value for the DocInfo dictionary key. If docinfo-op is missing or blank, an error is thrown. Unrecognized values are ignored. Acceptable values are:	string	Y	• set-literal-value: Sets the value of the DocInfo entry to the value of operands[0]. • set-file-value: Sets the value of the DocInfo entry to the value of the entry with the key operands[0] in the DocInfo dictionary of the file being processed. The file is identified by the source-document element. If the DocInfo dictionary of the file being processed does not contain the key identified by operands[0] or the value of the entry is blank, the output file DocInfo dictionary entry is set to blank. • set-simple-attribute-value • set-dynamic-attribute-value: Sets the value of the DocInfo entry to the current value of the attribute with the Name operands[0]. Dynamic attributes will be resolved at the first page of the file, identified by the page-range element. If the attribute identified by operands[0] does not exist, or the value of the attribute is blank, the output file DocInfo dictionary entry is set to blank. • set-textbox-attribute-value: Sets the value of the DocInfo entry to the current value of the textbox attribute with the start-name operands[0] and the end-name operands[1]. If the attribute identified by operands[0] and operands[1] does not exist, or the value of the attribute is blank, the output file DocInfo dictionary entry is set to blank. • append-literal-value: Appends the value of operands[0] to the value of the output file DocInfo entry. If the value of operands[0] is blank, the output file DocInfo dictionary is unchanged. Also see description of operands[1] below. • append-file-value: Appends the value of the entry with the key operands[0] in the DocInfo dictionary of the file being processed to the value of the DocInfo entry. The file is identified by the source-document element. If the DocInfo dictionary of the file being processed does not contain the key identified by operands[0] or the value of the entry is blank, the output file DocInfo dictionary is unchanged. Also see description of operands[1] below. • append-simple-attribute-value • append-dynamic-attribute-value: Appends the current value of the attribute with the Name operands[0] to the value of the DocInfo entry. Dynamic attributes will be resolved at the first page of the file, identified by the page-range element. If the attribute identified by operands[0] does not	N/A	in

Example

```
<docinfo-op>set-file-value</docinfo-op>
```

operands

Contained By

Business Service XML Element
output-docinfo-op on page 156

Contains

Business Service XML Element
operand on page 159

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
operands	• An array of one or two operands for the value xxx-literal-value of docinfo-op. • An array of one or two operands for the value xxx-file-value of docinfo-op. • An array of one or two operands for the value xxx-simple-attribute-value of docinfo-op. • An array of one or two operands for the value xxx-dynamic-attribute-value of docinfo-op. • An array of two or three operands for the value xxx-textbox-attribute-value of docinfo-op.	xml	Y		N/A	in

Example

```
<operands>
    <operand>Author</operand>
</operands>
```

operand

Contained By

Business Service XML Element
operands on page 159

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
operand	Specifies the value to be set/appended to the DocInfo dictionary key.	string	Y	user defined	N/A	in

Example

```
<operand type="string">Title</operand>
```

source-document

Contained By

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
source-document	Specifies the file's path.	string	Y	user defined	N/A	in

Example

```
<source-document type="string">c:\Document\File.pdf</source-document>
```

source-location

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
source-location	Specifies a user-friendly description of the file's path.	string	N	user defined	none **Note:** If specified, it will be used in error messages when an error occurs.	in

Example

```
<source-location type="string">c:\Document\File.pdf</source-location>
```

append-blank-page

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
append-blank-page	Specifies whether the file should have a blank page appended. Values are true/false or 1/0.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<append-blank-page type="bool">0</append-blank-page>
```

force-front

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
force-front	Specifies whether the file starts on an odd (i.e., frontside) page. Values are true/false or 1/0. **Note:** Used in conjunction with margins and odd-even-margins when they are set to `true`.	boolean	N	• 0 or false • 1 or false	false	in

Example

```
<force-front type="bool">false</force-front>
```

normalise-size

Contained By

Business Service Element	Business Service Request
	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
normalise-size	Specifies whether pages are to be normalized. Overlay files will not be changed. The page size will be changed by adding or removing 'paper' at the top right-hand corner, with the page contents being scaled by the appropriate amount, maintaining the aspect ratio. Links and annotations will also be relocated. See page-height on page 127 and page-width on page 128. Default is to the page normalizing specified at the assembly level. **Note:** If normalizing is specified at the file level then it will override the normalizing specified at the assembly level.	string	N	custom	custom	in

Example

```
<normalise-size type="string">custom</normalise-size>
```

page-height

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value	Direction
page-height	Specifies normalized page height. See normalise-size on page 126. Page height is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt	in

Example

```
<page-height type="string">279.40mm</page-height>
```

page-width

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
page-width	Specifies normalized page width. See normalise-size on page 126. Page width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units. Acceptable units are: • pt • in • mm • cm	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	in

Example

```
<page-width type="string">279.40mm</page-width>
```

can-break

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
can-break	Specifies if this file or slipsheet cannot be split and must be contained by a single output file (value = false).	boolean	N	• 0 or false • 1 or true	true	in

Example

```
<can-break type=”bool”>true</can-break>
```

start-volume

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start-volume	Specifies if a new output file should be started at the beginning of this file or slipsheet (value = true). 'start-volume' does not make sense if the previous file or slipsheet is marked 'group-with-next' = true.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<start-volume type="bool">false</start-volume>
```

group-with-next

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
group-with-next	Specifies if the next file or slipsheet must be processed as if it was a single block of pages. Multiple contiguous files and/or slipsheets may be chained together with this flag. This set of files and/or slipsheets are processed as a single block. Any file or slipsheet marked as 'group-with-next' must also have a 'can-break' = false parameter.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<group-with-next type="bool">0</group-with-next>
```

tag

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tag	Specifies a user defined element that can be used to correlate this file or slipsheet to LIQUENT InSight, to be copied verbatim to the 'volumes/ volumes/volume/' output parameter. This parameter must be supplied on a file or slipsheet where a break can occur.	xml	N	user defined		in

Example

```
<tag type="xml"></tag>
```

output-document-props

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-document-props	If value is true the output PDF properties (Title, Author, Subject, Keywords) will be read from the selected PDF file.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<output-document-props type="bool">false</output-document-props>
```

overlay

Contained By

Business Service XML Element
front-matter on page 135, file on page 152,

Contains

Business Service XML Element
allow-scaling on page 131, rotate-portrait-to-landscape on page 131, best-fit on page 132, portrait on page 132, landscape on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
overlay	Specifies information about overlaying pages in the front matter.	xml	N			in

Example

```
<overlay>
     <allow-scaling/>
     <rotate-portrait-to-landscape/>
     <best-fit/>
     <portrait/>
     <landscape/>
</overlay>
```

allow-scaling

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
allow-scaling	Specifies whether the overlay page is to be scaled to fit the page being overlayed.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<allow-scaling type="bool">0</allow-scaling>
```

rotate-portrait-to-landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
rotate-portrait-to-landscape	Specifies whether a portrait overlay page is to be rotated before overlaying a landscape page.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<rotate-portrait-to-landscape type="bool">0</rotate-portrait-to-landscape>
```

best-fit

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
best-fit	Specifies whether to select the overlay page that best fits the page being overlayed.	boolean	N	• 1 or true • 0 or false	0	in

Example

```
<best-fit type="bool">0</best-fit>
```

portrait

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
portrait	Specifies the overlay files to be used when overlaying portrait pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages.	xml	N		N/A	in

Example

```
<portrait>
     <odd-overlay-file/>
     <even-overlay-file/>
</portrait>
```

odd-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-overlay-file	Specifies the overlay file used on odd pages.	string	N	user defined	none	in

Example

```
<odd-overlay-file type="string">c:\OddOverlay.pdf</odd-overlay-file>
```

even-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
even-overlay-file	Specifies the overlay file used on even pages.	string	N	user defined	odd-overlay-file if it was specified	in

Example

```
<even-overlay-file type="string">c:\OddOverlay.pdf</even-overlay-file>
```

landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136, margins on page 171

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133, right-margin on page 174, left-margin on page 173, header-margin on page 174, footer-margin on page 174

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
landscape	Specifies the overlay files to be used when overlaying landscape pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages. **Note:** When used within the margins element, it specifies the files' landscape page margins. If it is not specified, then the portait margins are used.	xml	N			in

overlay landscape Example

```
<landscape>
     <odd-overlay-file/>
     <even-overlay-file/>
</landscape>
```

margins landscape Example

```
<landscape>
     <right-margin/>
     <left-margin/>
     <header-margin/>
     <footer-margin/>
</landscape>
```

odd-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-overlay-file	Specifies the overlay file used on odd pages.	string	N	user defined	none	in

Example

```
<odd-overlay-file type="string">c:\OddOverlay.pdf</odd-overlay-file>
```

even-overlay-file

Contained By

Business Service XML Element
portrait on page 132, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
even-overlay-file	Specifies the overlay file used on even pages.	string	N	user defined	odd-overlay-file if it was specified	in

Example

```
<even-overlay-file type="string">c:\OddOverlay.pdf</even-overlay-file>
```

margins

Contained By

Business Service XML Element
file on page 152

Contains

Business Service XML Element
shrink-to-fit on page 172, odd-even-margins on page 173, left-margin on page 173, right-margin on page 174, header-margin on page 174, footer-margin on page 174, landscape on page 133

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
margins	Specifies the file's page margins. Margins can be specified for both portrait and landscape pages. If landscape margins are not specified then the portratit margins are used.	xml	N		entire page	in

Example

```
<margins>
     <shrink-to-fit/>
     <odd-even-margins/>
     <left-margin/>
     <right-margin/>
     <header-margin/>
     <footer-margin/>
     <landscape/>
</margins>
```

shrink-to-fit

Contained By

Business Service XML Element
margins on page 171

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
shrink-to-fit	Specifies whether to shrink (if necessary) the pages of the file to fit within the specified margins. Values are true/false or 1/0.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<shrink-to-fit type="bool">false</shrink-to-fit>
```

odd-even-margins

Contained By

Business Service XML Element
margins on page 171

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
odd-even-margins	Specifies whether left and right margins are to be switched on even (i.e., backside) pages. Values are true/false or 1/0.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<odd-even-margins type="bool">false</odd-even-margins>
```

left-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
left-margin	Specifies the left margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<left-margin type="string">1in</left-margin>
```

right-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
right-margin	Specifies the right margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<right-margin type="string">1in</right-margin>
```

header-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
header-margin	Specifies the header (i.e., top) margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<header-margin type="string">1in</header-margin>
```

footer-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
footer-margin	Specifies the footer (i.e., bottom) margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<footer-margin type="string">1in</footer-margin>
```

landscape

Contained By

Business Service XML Element
body-overlay on page 130, overlay on page 136, margins on page 171

Contains

Business Service XML Element
odd-overlay-file on page 132, even-overlay-file on page 133, right-margin on page 174, left-margin on page 173, header-margin on page 174, footer-margin on page 174

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
landscape	Specifies the overlay files to be used when overlaying landscape pages. Overlay files can be specified for odd and even pages. If just odd overlays are specified then they will also be used for even pages. **Note:** When used within the margins element, it specifies the files' landscape page margins. If it is not specified, then the portait margins are used.	xml	N			in

overlay landscape Example

```
<landscape>
     <odd-overlay-file/>
     <even-overlay-file/>
</landscape>
```

margins landscape Example

```
<landscape>
     <right-margin/>
     <left-margin/>
     <header-margin/>
     <footer-margin/>
</landscape>
```

right-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
right-margin	Specifies the right margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<right-margin type="string">1in</right-margin>
```

left-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
left-margin	Specifies the left margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<left-margin type="string">1in</left-margin>
```

header-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
header-margin	Specifies the header (i.e., top) margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<header-margin type="string">1in</header-margin>
```

footer-margin

Contained By

Business Service XML Element
margins on page 171, landscape on page 133

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
footer-margin	Specifies the footer (i.e., bottom) margin. Margin width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	n	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<footer-margin type="string">1in</footer-margin>
```

slipsheet

Contained By

Business Service XML Element
components on page 141

Contains

Business Service XML Element
can-break on page 164, start-volume on page 164, group-with-next on page 165, tag on page 165, height on page 180, width on page 181

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
slipsheet	Specifies the slipsheet information. A slipsheet is a single blank page that will be inserted in the published output.	xml	N			in

Example

```
<slipsheet>
     <can-break/>
     <start-volume/>
     <group-with-next/>
     <tag/>
     <height/>
     <width/>
</slipsheet>
```

can-break

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
can-break	Specifies if this file or slipsheet cannot be split and must be contained by a single output file (value = false).	boolean	N	• 0 or false • 1 or true	true	in

Example

```
<can-break type="bool">true</can-break>
```

start-volume

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start-volume	Specifies if a new output file should be started at the beginning of this file or slipsheet (value = true). 'start-volume' does not make sense if the previous file or slipsheet is marked 'group-with-next' = true.	boolean	N	• 0 or false • 1 or true	false	in

Example

```
<start-volume type="bool">false</start-volume>
```

group-with-next

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
group-with-next	Specifies if the next file or slipsheet must be processed as if it was a single block of pages. Multiple contiguous files and/or slipsheets may be chained together with this flag. This set of files and/or slipsheets are processed as a single block. Any file or slipsheet marked as 'group-with-next' must also have a 'can-break' = false parameter.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<group-with-next type="bool">0</group-with-next>
```

tag

Contained By

Business Service XML Element
file on page 152, slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tag	Specifies a user defined element that can be used to correlate this file or slipsheet to LIQUENT InSight, to be copied verbatim to the 'volumes/ volumes/volume/' output parameter. This parameter must be supplied on a file or slipsheet where a break can occur.	xml	N	user defined		in

Example

```
<tag type="xml"></tag>
```

height

Contained By

Business Service XML Element
slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
height	Specifies slipsheet page height. Page height is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<height type="string">11in</height>
```

width

Contained By

Business Service XML Element
slipsheet on page 178

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Default Value
width	Specifies slipsheet page width. Page width is specified as '99uu' where '99' is the numeric size and 'uu' is the size units.	string	N	• [-n...n]pt • [-n...n]in • [-n...n]mm • [-n...n]cm	0pt	0pt

Example

```
<width type="string">8.5in</width>
```

volumes

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="volumize-by-size">

Contains

Business Service XML Element
volume on page 240

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
volumes	The xml element contains 'volume' elements.	xml				out

Example

```
<volumes>
    <volume/>
</volumes>
```

volume

Contained By

Business Service XML Element
volumes on page 240

Contains

Business Service XML Element
tag on page 241, start_page on page 241, estimated_size on page 241

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
volume	The xml output parameter describing the file break.	xml			N/A	out

Example

```
<volume>
     <tag type=”xml”>
     . . .
     </tag>
     <start_page/>
</volume>
```

tag

Contained By

Business Service XML Element
volume on page 240

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tag	Tag element of "file" or "slipsheet" element where the break occurred.	xml				out

start_page

Contained By

Business Service XML Element
volume on page 240

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start_page	If the pages of a file have been split, the 1-based start page in the PDF “source-document” specified in the file element.	integer				out

estimated_size

Contained By

Business Service XML Element
volume on page 240

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
estimated_size	Estimated size of the volume.	string				out

IPLinkSetter

resolve-links

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

colour

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
colour	Specified default link colour.	string	N	• nochange • black • blue • cyan • green • magenta • red • yellow • white	black	in

Example

```
<colour type="string">blue</colour>
```

border

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Default Value	Direction
border	Specified default link border.	string	N		in

Example

```
<border type="string"></border>
```

line-style

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Default Value	Direction
line-style	Specified default link line style.	string	N		in

Example

```
<line-style type="string"></line-style>
```

line-thickness

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
line-thickness	Specified default link line thicknes.	string	N	• nochange • medium • thick • thin	thin	in

Example

```
<line-thickness="string">thin</line-thickness>
```

background

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolved-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
background	Specifies default link background.	string	N	shaded		in

Example

```
<background type="string">shaded</background>
```

font

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">

Business Service XML Element
style on page 253, link on page 261

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
font	Specifies default link font.	string	N		Times New Roman	in

Example

```
<font type="">Times New Roman</font>
```

font-size

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Business Service XML Element
style on page 253, link on page 261

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	font-size	Specifies default link font size.	double	N	[4...n]	8.0	in
PDFFile	font-size	Specifies the system font height in which the tab text will be set. This is expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 212 (6 point), 282 (8 point), 353 (10 point) and 423 (12 point).	integer	Y			in

Example

```
<font-size type="">8.0</font-size>
```

remote-window

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
remote-window	Specifies whether cross-document links are opened in the same window.	string	N	• inherit: Open cross-document link target documents as defined by the option set up in the PDF Viewer application. In the case of Adobe Acrobat, the value in the **Edit** > **Preferences**, Documents category, Open cross-document links in same window checkbox • new: Open cross-document links in a new window. • same: Open cross-document links in the same window.	inherit	in

Example

```
<remote-window type="string"></remote-window>
```

styles

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">

Contains

Business Service XML Element

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
styles	Load named link styles from the job ticket.	XML	N			in

Example

```
<styles type="xml">
      <style-set>
        <style>
          <name>AAA</name>
          <colour>BBB</colour>
          <border>CCC</border>
          <line-style>DDD</line-style>
          <line-thickness>EEE</line-thickness>
          <background>FFF</background>
          <remote-window>GGG</remote-window>
          <font>HHH</font>
          <font-size>123.00</font-size>
        </style>
          ...
      </style-set>
    </styles>
```

style-set

Contained By

Business Service XML Element
styles on page 251

Contains

Business Service XML Element
style on page 253

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
style-set		xml	N			in

Example

```
<style-set>
        <style>
          <name>AAA</name>
          <colour>BBB</colour>
          <border>CCC</border>
          <line-style>DDD</line-style>
          <line-thickness>EEE</line-thickness>
          <background>FFF</background>
```

```
          <remote-window>GGG</remote-window>
          <font>HHH</font>
          <font-size>123.00</font-size>
        </style>
          ...
</style-set>
```

style

Contained By

Business Service XML Element
style-set on page 252

Contains

Business Service XML Element
name on page 144, colour on page 247, border on page 247, line-style on page 248, line-thickness on page 248, background on page 249, remote-window on page 251, font on page 249, font-size on page 250

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
style	Specifies link style parameters	string	N			in

Example

```
 <style type="string">
          <name>AAA</name>
          <colour>BBB</colour>
          <border>CCC</border>
          <line-style>DDD</line-style>
          <line-thickness>EEE</line-thickness>
          <background>FFF</background>
          <remote-window>GGG</remote-window>
          <font>HHH</font>
          <font-size>123.00</font-size>
</style>
```

name

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
IPLinkSetter	<request name="resolve-links">
Retrieve	<request name="retrieve-next-queued-job">

Business Service XML Element
simple-attribute on page 143, dynamic-attribute on page 146, style on page 253, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	name	Specifies the attribute name.	string	N	user defined		in
IPLinkSetter	name	Specifies link style test.	string	N	user defined		in
PDFFile	name	Specifies the name of the property.	string	Y	user defined		in
Retrieve	name	Specifies the name of the source document that was dequeued.	string				out

Example

```
<name type="string">DTE</name>
```

colour

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
colour	Specified default link colour.	string	N	• nochange • black • blue • cyan • green • magenta • red • yellow • white	black	in

Example

```
<colour type="string">blue</colour>
```

border

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Default Value	Direction
border	Specified default link border.	string	N		in

Example

```
<border type="string"></border>
```

line-style

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Default Value	Direction
line-style	Specified default link line style.	string	N		in

Example

```
<line-style type="string"></line-style>
```

line-thickness

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
line-thickness	Specified default link line thicknes.	string	N	• nochange • medium • thick • thin	thin	in

Example

```
<line-thickness="string">thin</line-thickness>
```

background

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolved-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
background	Specifies default link background.	string	N	shaded		in

Example

```
<background type="string">shaded</background>
```

remote-window

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
remote-window	Specifies whether cross-document links are opened in the same window.	string	N	• inherit: Open cross-document link target documents as defined by the option set up in the PDF Viewer application. In the case of Adobe Acrobat, the value in the **Edit** > **Preferences**, Documents category, Open cross-document links in same window checkbox • new: Open cross-document links in a new window. • same: Open cross-document links in the same window.	inherit	in

Example

```
<remote-window type="string"></remote-window>
```

font

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
font	Specifies default link font.	string	N		Times New Roman	in

Example

```
<font type="">Times New Roman</font>
```

font-size

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	font-size	Specifies default link font size.	double	N	[4...n]	8.0	in
PDFFile	font-size	Specifies the system font height in which the tab text will be set. This is expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 212 (6 point), 282 (8 point), 353 (10 point) and 423 (12 point).	integer	Y			in

Example

```
<font-size type="">8.0</font-size>
```

links

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
PDFFile	<request name="set-initial-links">

Contains

Business Service XML Element
linkset on page 260

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	links	Load links from the job ticket.	xml	N			in
PDFFile	links	The list of links to be created in the PDF rendition.	xml	Y			in

IPLinkSetter Example

```
<links type="xml">
      <linkset>
        <link>
          <destination-path>AAA</destination-path>
          <pagenumber>123</pagenumber>
          <linktext>BBB</linktext>
          <linkGUID>CCC</linkGUID>
          <inmargin>123.00</inmargin>
          <override-style>True</override-style>
          <style-name>XXX</style-name>
          <colour>DDD</colour>
          <border>EEE</border>
          <line-style>FFF</line-style>
          <line-thickness>GGG</line-thickness>
          <background>HHH</background>
          <remote-window>III</remote-window>
          <font>JJJ</font>
          <font-size>123.00</font-size>
        </link>
          ...
     </linkset>
</links>
```

PDFFile Example

```
<links type="xml">
     <linknode>
        <link bottom="43140120" left="7935361" right="14330954" top="44146820">
           <source-page type="integer">1</source-page>
           <linkGUID linkid="16280">a9e40928da466fee9e6bc6dfee78d8e0f</linkGUID>
        </link>
     </linknode>
 </links>
```

linkset

Contained By

Business Service XML Element
links on page 259

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
linkset		xml	N			in

Example

```
<linkset>
        <link>
          <destination-path>AAA</destination-path>
          <pagenumber>123</pagenumber>
          <linktext>BBB</linktext>
          <linkGUID>CCC</linkGUID>
          <inmargin>123.00</inmargin>
          <override-style>True</override-style>
          <style-name>XXX</style-name>
          <colour>DDD</colour>
          <border>EEE</border>
          <line-style>FFF</line-style>
          <line-thickness>GGG</line-thickness>
          <background>HHH</background>
          <remote-window>III</remote-window>
          <font>JJJ</font>
          <font-size>123.00</font-size>
        </link>
          ...
</linkset>
```

link

Contained By

Business Service XML Element
linkset on page 260, linknode on page 395

Contains

Business Service XML Element
destination-path on page 262, pagenumber on page 262, linktext on page 263, linkGUID on page 263, inmargin on page 264, override-style on page 264, start-name on page 150, colour on page 247, border on page 247, line-style on page 248, line-thickness on page 248, background on page 249, remote-window on page 251, font on page 249, font-size on page 250, source-page on page 396

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	link	Specifies link parameters.	string	N			in
PDFFile	link	Specifies link parameters.	xml	Y			in

Link Attributes

Business Service Element	Attribute Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	bottom	Specifies bottom position of link box.	integer	Y	[0...n]		in
PDFFile	left	Specifies left position of link box.	integer	Y	[0...n]		in
PDFFile	right	Specifies right position of link box.	integer	Y	[0...n]		in
PDFFile	top	Specifies top position of link box.	integer	Y	[0...n]		in

IPLinkSetter Example

```
<link type="string">
          <destination-path>AAA</destination-path>
          <pagenumber>123</pagenumber>
```

```
            <linktext>BBB</linktext>
            <linkGUID>CCC</linkGUID>
            <inmargin>123.00</inmargin>
            <override-style>True</override-style>
            <style-name>XXX</style-name>
            <colour>DDD</colour>
            <border>EEE</border>
            <line-style>FFF</line-style>
            <line-thickness>GGG</line-thickness>
            <background>HHH</background>
            <remote-window>III</remote-window>
            <font>JJJ</font>
            <font-size>123.00</font-size>
</link>
```

PDFFile Example

```
<link bottom="43140120" left="7935361" right="14330954" top="44146820">
    <source-page type="integer">1</source-page>
    <linkGUID linkid="16280">a9e40928da466fee9e6bc6dfee78d8e0f</linkGUID>
</link>
```

destination-path

Contained By

Business Service XML Element
link on page 261

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
destination-path	Specifies link destination path.	string	N	user defined		in

Example

```
<destination-path type="string">AAA</destination-path>
```

pagenumber

Contained By

Business Service XML Element
link on page 261

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pagenumber	Specifies link page number.	integer	N	[0...n]	0	in

Example

```
<pagenumber type="integer">12</pagenumber>
```

linktext

Contained By

Business Service XML Element
link on page 261

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
linktext	Specifies link text.	string	N	user defined		in

Example

```
<linktext type="string">text</linktext>
```

linkGUID

Contained By

Business Service XML Element
link on page 261

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	linkGUID	Specifies link GUID.	string	N	user defined		in
PDFFile	linkGUID	Specifies link GUID.	string	Y	user defined		in

linkGUID Attributes

Business Service Element	Attribute Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	linkid	Specifies link id.	integer	Y	[0...n]		in

IPLinkSetter Example

```
<linkGUID type="string">CCC</linkGUID>
```

PDFFile Example

```
<linkGUID linkid="16280">a9e40928da466fee9e6bc6dfee78d8e0f</linkGUID>
```

inmargin

Contained By

Business Service XML Element
link on page 261

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
inmargin	Specifies link in margin.	double	N	• 0 • 1	0	in

Example

```
<inmargin type="double">0</inmargin>
```

override-style

Contained By

Business Service XML Element
link on page 261

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
override-style	Specifies link override style.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<override-style type="bool">0</override-style>
```

style-name

Contained By

Business Service XML Element
link on page 261

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
style-name	Specifies link override style name.	string	N	user defined		in

Example

```
<style-name type="string"></style-name>
```

colour

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
colour	Specified default link colour.	string	N	• nochange • black • blue • cyan • green • magenta • red • yellow • white	black	in

Example

```
<colour type="string">blue</colour>
```

border

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Default Value	Direction
border	Specified default link border.	string	N		in

Example

```
<border type="string"></border>
```

line-style

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Default Value	Direction
line-style	Specified default link line style.	string	N		in

Example

```
<line-style type="string"></line-style>
```

line-thickness

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
line-thickness	Specified default link line thicknes.	string	N	• nochange • medium • thick • thin	thin	in

Example

```
<line-thickness="string">thin</line-thickness>
```

background

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolved-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
background	Specifies default link background.	string	N	shaded		in

Example

```
<background type="string">shaded</background>
```

remote-window

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
remote-window	Specifies whether cross-document links are opened in the same window.	string	N	• inherit: Open cross-document link target documents as defined by the option set up in the PDF Viewer application. In the case of Adobe Acrobat, the value in the **Edit** > **Preferences**, Documents category, Open cross-document links in same window checkbox • new: Open cross-document links in a new window. • same: Open cross-document links in the same window.	inherit	in

Example

```
<remote-window type="string"></remote-window>
```

font

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
font	Specifies default link font.	string	N		Times New Roman	in

Example

```
<font type="">Times New Roman</font>
```

font-size

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	font-size	Specifies default link font size.	double	N	[4...n]	8.0	in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	font-size	Specifies the system font height in which the tab text will be set. This is expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 212 (6 point), 282 (8 point), 353 (10 point) and 423 (12 point).	integer	Y			in

Example

```
<font-size type="">8.0</font-size>
```

create-bookmarks

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">

Business Service Element	Business Service Request
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

show-bookmarks-on-open

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="create-bookmarks">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
show-bookmarks-on-open	Specifies how the document should be displayed when opened. When set to true (1), bookmark panel is showed.	boolean	N	• 0 or false • 1 or true	1	in

Example

```
<show-bookmarks-on-open type="bool">1</>
```

MSWord

generate-toc

template-path

Contained By

Business Service Element	Business Service Request
MSWord	<request name="generate-toc">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
template-path	Specifies the template document file path. Template document contains required styles.	string	Y	user defined		in

Example

```
<template-path type="string">C:\MyDocument\templates\template.doc</template-path>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">

Business Service Element	Business Service Request
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

xml-data

Contained By

Business Service Element	Business Service Request
MSWord	<request name="generate-toc">

Contains

Business Service XML Element
toc-root on page 281

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
xml-data	This parameter is an XML tree of all the attributes which are used to create TOC links information.	xml	Y			in

Example

```
xml-data< type="">
      <toc-root>
          <general>
               <stamping-string type="string">$VR</stamping-string>
               <leading-char type="string">.</leading-char>
```

```
                <title type="string">Leaf TOC</title>
                <host type="string">HostName</host>
                <port type="string">8080</port>
           </general>
           <extracts>
                <extract>
                     <id type="string">26933</id>
                     <guid type="string">a3a6848ef479ac499dc3e65f516937091</guid>
                     <level type="int32">1</level>
                     <value type="string">FDA Form 1571</value>
                </extract>
                …
           </extracts>
     </toc-root>
</xml-data>
```

toc-root

Contained By

Business Service XML Element
xml-data on page 280

Contains

Business Service XML Element
general on page 282, extracts on page 285

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
toc-root	Root of xml data.	xml	Y			in

Example

```
<toc-root type="xnk">
           <general>
                <stamping-string type="string">$VR</stamping-string>
                <leading-char type="string">.</leading-char>
                <title type="string">Leaf TOC</title>
                <host type="string">HostName</host>
                <port type="string">8080</port>
           </general>
           <extracts>
                <extract>
                     <id type="string">26933</id>
                     <guid type="string">a3a6848ef479ac499dc3e65f516937091</guid>
                     <level type="int32">1</level>
                     <value type="string">FDA Form 1571</value>
                </extract>
                …
           </extracts>
</toc-root>
```

general

Contained By

Business Service XML Element
toc-root on page 281

Contains

Business Service XML Element
stamping-string on page 282, leading-char on page 283, title on page 154, host on page 284, port on page 284

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
general	List of general parameters.	xml	Y			in

Example

```
<general type="xml">
       <stamping-string type="string">$VR</stamping-string>
       <leading-char type="string">.</leading-char>
       <title type="string">Leaf TOC</title>
       <host type="string">HostName</host>
       <port type="string">8080</port>
</general>
```

stamping-string

Contained By

Business Service XML Element
general on page 282

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
stamping-string	This parameter specifies string to be stamped in output document.	string	N	user defined		in

Example

```
<stamping-string type="">$VR</stamping-string>
```

leading-char

Contained By

Business Service XML Element
general on page 282

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
leading-char	Specifies TOC leading character.	string	N	• ' ' (space) • '-' (dash) • '.' (dot) • '_' (underline)	' ' (space)	in

Example

```
<leading-char type="string"> </leading-char>
```

title

Contained By

Business Service XML Element
file on page 152, general on page 282

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	title	Specifies the file's title.	string	N	user defined		in
MSWord	title	Specifies the output TOC title.	string	N	user defined		in

Example

```
<title type="string">File Title</title>
```

host

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-initial-links">
Business Service XML Element	
general on page 282	

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
MSWord	host	Specifies InSight server host name.	string	N	user defined		in
PDFFile	host	The destination host location of the link data.	string	Y	user defined		in

Example

```
<host type="string">HostName</host>
```

port

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-initial-links">
Business Service XML Element	
general on page 282	

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
MSWord	port	Specifies InSight server port.	string	N	user defined		in
PDFFile	port	The destination port number of the host.	string	Y			in

Example

```
<port type="string">8080</port>
```

extracts

Contained By

Business Service XML Element
toc-root on page 281

Contains

Business Service XML Element
extract on page 286

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extracts	Represents list of links to be created by the Business Service.	xml	N			in

Example

```
<extracts type="xml">
        <extract>
              <id type="string">26933</id>
              <guid type="string">a3a6848ef479ac499dc3e65f516937091</guid>
              <level type="int32">1</level>
              <value type="string">FDA Form 1571</value>
        </extract>
</extracts>
```

extract

Contained By

Business Service XML Element
extracts on page 285

Contains

Business Service XML Element
id on page 286, guid on page 286, level on page 287, value on page 145

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract	Specifies information about a link.	xml	N			in

Example

```
<extract type="xml">
     <id type="string">26933</id>
     <guid type="string">a3a6848ef479ac499dc3e65f516937091</guid>
     <level type="int32">1</level>
     <value type="string">FDA Form 1571</value>
</extract>
```

id

Contained By

Business Service XML Element
extract on page 286

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
id	Specifies id of the link in the InSight database.	string	N			in

Example

```
<id type="string">26933</id>
```

guid

Contained By

Business Service XML Element
extract on page 286

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
guid	Specifies guid which is used in address of the link.	string	Y			in

Example

```
<guid type="string">a3a6848ef479ac499dc3e65f516937091</guid>
```

level

Contained By

Business Service XML Element
extract on page 286

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
level	Specifies TOC level of the link.	int32	Y			in

Example

```
<level type="int32">1</level>
```

value

Contained By

Business Service XML Element
simple-attribute on page 143, textbox-attribute on page 150, extract on page 286, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	value	Specifies the attribute value (may be name of dynamic attribute). **Note:** May contain new-lines or carraige-return new line pairs. Long lines will be wrapped. Note that all whitespace is part of the value.	string	N	user defined		in
MSWord	value	Specifies displayed value of the link.	string	N	user defined		in
PDFFile	value	Specifies the value of the property	string	N	user defined		in

simple-attribute Example

```
<value type="string">122</value>
```

textbox-attribute Example

```
<value type="string">Line 1 of Text.
Line 2 of Text.
Line 3 of Text.</value>
```

extract Example

```
<value type="string">FDA Form 1571</value>
```

property Example

```
<value type="string">My Subject</value>
```

Notify

send-text

to

Contained By

Business Service Element	Business Service Request
Notify	<request name="send-text">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to	Specifies the recipient(s) of the e-mail. This string can contain one or more recipients separated by the pipe character (i.e., "|").	string	Y	user defined		in

Example

```
<to type="string">bsmith@example.com</to>
```

from

Contained By

Business Service Element	Business Service Request
Notify	<request name="send-text">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
from	Specifies the sender's e-mail address.	string	N	user defined		in

Example

```
<from type="string">bsmith@example.com</from>
```

cc

Contained By

Business Service Element	Business Service Request
Notify	<request name="send-text">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
cc	Specifies a list of "cc" recipients to which the e-mail will be sent. Same structure as the to on page 289 recipient structure.	string	N	user defined		in

Example

```
<cc type="">bsmith@example.com</cc>
```

bcc

Contained By

Business Service Element	Business Service Request
Notify	<request name="send-text">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
bcc	Specifies the “bcc” recipient list to which the e-mail will be sent.	string	N	user defined		in

Example

```
<bcc type="string">bsmith@example.com</bcc>
```

subject

Contained By

Business Service Element	Business Service Request
Notify	<request name="send-text">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
subject	Specifies the e-mail subject.	string	N	user defined		in

Example

```
<subject type="string">Sample text</subject>
```

attachments

Contained By

Business Service Element	Business Service Request
Notify	<request name="send-text">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
attachments	Specifies the attachments to the e-mail. This string can contain one or more attachments separated by the pipe character (i.e., "|").	string	N	user defined		in

Example

```
<attachments type="string">example.doc</attachments>
```

message

Contained By

Business Service Element	Business Service Request
Notify	<request name="send-text">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
message	Specifies the e-mail message body text.	string	N	user defined		in

Example

```
<message type="string">body message text</message>
```

smtphost

Contained By

Business Service Element	Business Service Request
Notify	<request name="send-text">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
smtphost	Specifies the SMTP host IP address.	string	N	user defined		in

Example

```
<smtphost type="string">10.2.2.3</smtphost>
```

notify-domain-event

event

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
event	The ID number of the type of event triggered.	integer	Y			in

Example

```
<event type="integer">1</event>
```

sender

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
sender	The sender's e-mail address taken from the domain manager email configuration.	string	Y	user defined		in

Example

```
<sender type="string">bsmith@example.com</sender>
```

requestor

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
requestor	The source program of the email message.	string	Y	user defined		in

Example

```
<requestor type="string">outlook</requestor>
```

recipients

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
recipient on page 295

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
recipients	Specifies the recipient(s) of the e-mail.	xml	Y	user defined		in

Example

```
<recipients type="xml">
    <recipient>XXX</recipient>
</recipients>
```

recipient

Contained By

Business Service XML Element
recipients on page 295

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
recipient	Specifies recipient name.	string	Y	user defined		in

Example

```
<recipient type="string">Bob Smith</recipient>
```

machine

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
machine	The machine name where the domain event occurred.	string	Y	user defined		in

Example

```
<machine type="string">hostname1</machine>
```

platform

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
platform	The software platform where the domain event occurred.	string	Y	user defined		in

Example

```
<platform type="string">windows</platform>
```

notify-job-event

event

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
event	The ID number of the type of event triggered.	integer	Y			in

Example

```
<event type="integer">1</event>
```

sender

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
sender	The sender's e-mail address taken from the domain manager email configuration.	string	Y	user defined		in

Example

```
<sender type="string">bsmith@example.com</sender>
```

requestor

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
requestor	The source program of the email message.	string	Y	user defined		in

Example

```
<requestor type="string">outlook</requestor>
```

recipients

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
recipient on page 295

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
recipients	Specifies the recipient(s) of the e-mail.	xml	Y	user defined		in

Example

```
<recipients type="xml">
    <recipient>XXX</recipient>
</recipients>
```

recipient

Contained By

Business Service XML Element
recipients on page 295

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
recipient	Specifies recipient name.	string	Y	user defined		in

Example

```
<recipient type="string">Bob Smith</recipient>
```

job-id

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
job-id	The unique 32-digit ID number of the job.	string	Y			in

Example

```
<job-id type="string"></job-id>
```

notify-scheduled-job-event

event

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
event	The ID number of the type of event triggered.	integer	Y			in

Example

```
<event type="integer">1</event>
```

sender

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
sender	The sender's e-mail address taken from the domain manager email configuration.	string	Y	user defined		in

Example

```
<sender type="string">bsmith@example.com</sender>
```

requestor

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
requestor	The source program of the email message.	string	Y	user defined		in

Example

```
<requestor type="string">outlook</requestor>
```

recipients

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-domain-event"> <request name="notify-job-event"> <request name="notify-scheduled-job-event">

Contains

Business Service XML Element
recipient on page 295

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
recipients	Specifies the recipient(s) of the e-mail.	xml	Y	user defined		in

Example

```
<recipients type="xml">
    <recipient>XXX</recipient>
</recipients>
```

recipient

Contained By

Business Service XML Element
recipients on page 295

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
recipient	Specifies recipient name.	string	Y	user defined		in

Example

```
<recipient type="string">Bob Smith</recipient>
```

scheduled-job-id

Contained By

Business Service Element	Business Service Request
Notify	<request name="notify-scheduled-job-event">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
scheduled-job-id	The unique 32-digit ID number of the scheduled job.	string	Y			in

Example

```
<scheduled-job-id type="string"></scheduled-job-id>
```

PDFFile

set-security

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

output-path

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
PDFFile	<request name="set-security">
Render	<request name="render-pdf">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	output-path	Where a file was: • moved • copied	string		user defined		out
IPFusion, PDFFile	output-path	Specifies output folder path. If not specified then temporary folder will be created.	string	N	user defined		in
Render	output-path	Specifies the output path for the PDF rendition. This parameter is only used if the local-rendition-path on page 441 parameter is not provided. If both the local-rendition-path and output-folder parameters are not provided within the request, a temporary output folder path will be generated. This parameter will be set in the job ticket with the temporary folder location upon completion of the request.	string		user defined		out
Watermark	output-path	Specifies the output file name of the resulting watermarked pdf. If not supplied, a temporary file name and path will be generated. The output-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request.	string	N	user defined		in

Example

```
<output-path type="string">C:\Output</output-path>
```

new-owner-password

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-security">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
new-owner-password	Sets the password of the PDF owner.	string	N	user defined		in

Example

```
<new-owner-password type="string"></new-owner-password>
```

new-user-password

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-security">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
new-user-password	Sets the password of the PDF user.	string	N	user defined		in

Example

```
<new-user-password type="string"></new-user-password>
```

allow-print

Contained By

Business Service Element	Business Service Request
	<request name="">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
allow-print	Sets a boolean value indicating whether or not the PDF file can be printed.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<allow-print type="bool">0</allow-print>
```

allow-edit

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-security">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
allow-edit	Sets a boolean value indicating whether or not the PDF file can be edited.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<allow-edit type="bool">0</allow-edit>
```

allow-copy

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-security">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
allow-copy	Sets a boolean value indicating whether or not the PDF file can be copied.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<allow-copy type="bool">0</allow-copy>
```

allow-edit-notes

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-security">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
allow-edit-notes	Sets a boolean value indicating whether or not the PDF file's notes can be edited.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<allow-edit-notes type="bool">0</allow-edit-notes>
```

set-docinfo

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

doc-properties

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-docinfo">

Contains

Business Service XML Element
properties on page 316

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
doc-properties	This parameter is an XML tree of all the attributes to be modified on the PDF file. This XML value is a list of one or more name/value pairs representing PDF document properties.	xml	Y			in

Example

```
<doc-properties type="xml">
  <properties>
     <property>
      <name>Subject</name>
      <value>My Subject</value>
    </property>
  </properties>
</doc-properties>
```

properties

Contained By

Business Service XML Element
doc-properties on page 315

Contains

Business Service XML Element
property on page 317

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
properties	Contains the list of 'property' elements.	xml	Y			in

Example

```
<properties>
    <property>
        <name>Subject</name>
        <value>My Subject</value>
   </property>
</properties>
```

property

Contained By

Business Service XML Element
properties on page 316

Contains

Business Service XML Element
name on page 144, value on page 145

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
property	Describes individual property.	xml	Y			in

Example

```
<property>
    <name>Subject</name>
    <value>My Subject</value>
</property>
```

name

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
IPLinkSetter	<request name="resolve-links">
Retrieve	<request name="retrieve-next-queued-job">
Business Service XML Element	
simple-attribute on page 143, dynamic-attribute on page 146, style on page 253, property on page 317	

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	name	Specifies the attribute name.	string	N	user defined		in

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	name	Specifies link style test.	string	N	user defined		in
PDFFile	name	Specifies the name of the property.	string	Y	user defined		in
Retrieve	name	Specifies the name of the source document that was dequeued.	string				out

Example

```
<name type="string">DTE</name>
```

value

Contained By

Business Service XML Element
simple-attribute on page 143, textbox-attribute on page 150, extract on page 286, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	value	Specifies the attribute value (may be name of dynamic attribute). **Note:** May contain new-lines or carraige-return new line pairs. Long lines will be wrapped. Note that all whitespace is part of the value.	string	N	user defined		in
MSWord	value	Specifies displayed value of the link.	string	N	user defined		in
PDFFile	value	Specifies the value of the property	string	N	user defined		in

simple-attribute Example

```
<value type="string">122</value>
```

textbox-attribute Example

```
<value type="string">Line 1 of Text.
Line 2 of Text.
Line 3 of Text.</value>
```

extract Example

```
<value type="string">FDA Form 1571</value>
```

property Example

```
<value type="string">My Subject</value>
```

get-docinfo

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">

Business Service Element	Business Service Request
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

doc-properties

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-docinfo">

Contains

Business Service XML Element
properties on page 316

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
doc-properties	This parameter is an XML tree of all the attributes to be modified on the PDF file. This XML value is a list of one or more name/value pairs representing PDF document properties.	xml	Y			in

Example

```
<doc-properties type="xml">
  <properties>
     <property>
      <name>Subject</name>
      <value>My Subject</value>
    </property>
  </properties>
</doc-properties>
```

properties

Contained By

Business Service XML Element
doc-properties on page 315

Contains

Business Service XML Element
property on page 317

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
properties	Contains the list of 'property' elements.	xml	Y			in

Example

```
<properties>
    <property>
        <name>Subject</name>
        <value>My Subject</value>
   </property>
</properties>
```

property

Contained By

Business Service XML Element
properties on page 316

Contains

Business Service XML Element
name on page 144, value on page 145

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
property	Describes individual property.	xml	Y			in

Example

```
<property>
    <name>Subject</name>
```

```
    <value>My Subject</value>
</property>
```

name

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
IPLinkSetter	<request name="resolve-links">
Retrieve	<request name="retrieve-next-queued-job">
Business Service XML Element	
simple-attribute on page 143, dynamic-attribute on page 146, style on page 253, property on page 317	

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	name	Specifies the attribute name.	string	N	user defined		in
IPLinkSetter	name	Specifies link style test.	string	N	user defined		in
PDFFile	name	Specifies the name of the property.	string	Y	user defined		in
Retrieve	name	Specifies the name of the source document that was dequeued.	string				out

Example

```
<name type="string">DTE</name>
```

value

Contained By

Business Service XML Element
simple-attribute on page 143, textbox-attribute on page 150, extract on page 286, property on page 317

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	value	Specifies the attribute value (may be name of dynamic attribute). **Note:** May contain new-lines or carraige-return new line pairs. Long lines will be wrapped. Note that all whitespace is part of the value.	string	N	user defined		in
MSWord	value	Specifies displayed value of the link.	string	N	user defined		in
PDFFile	value	Specifies the value of the property	string	N	user defined		in

simple-attribute Example

```
<value type="string">122</value>
```

textbox-attribute Example

```
<value type="string">Line 1 of Text.
Line 2 of Text.
Line 3 of Text.</value>
```

extract Example

```
<value type="string">FDA Form 1571</value>
```

property Example

```
<value type="string">My Subject</value>
```

set-version

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">

Business Service Element	Business Service Request
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

version-number

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
version-number	Specifies the PDF version to which you want the specified PDF file converted. The format is major version number followed by a period followed by the minor version number.	string	Y	1.4 to 1.7		in

Example

```
<version-number type="string">1.4</version-number>
```

linearize

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
linearize	Specifies whether or not you wish to save the PDF file as linearized for page-served remote (network) access. When set to 0 (false), the new-version output value incorrectly gets set to what the version of the PDF file was prior to execution of the set-version request even though the PDF file is properly converted to the requested version. If this parameter is not supplied in the request, the default is set to 1 (true).	boolean	N	• 0 or false • 1 or true	1	in

Example

```
<linearize type="bool">1</linearize>
```

old-version

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
old-version	Specifies what the version of the specified PDF file was prior to the execution of this request. Set as an output value.	string				out

Example

```
<old-version type="string"></old-version>
```

new-version

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-version">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
new-version	Specifies what the version of the specified PDF file is after execution of this request. Set as an output value.	string				out

Example

```
<new-version type="string"></new-version>
```

generate-tab-file

to-file

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-file	Specifies the path to where the PDF file will be created. Any existing file will be overwritten. If to-file is not specified, a file is created and the path written to this parameter.	string	N	user defined		in

Example

```
<to-file type="string"></to-file>
```

tab-text

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-text	The text to write on the tab. Text lines are center-aligned if written horizontally and top aligned if written vertically. This is a multi-line value. Any number of lines may be specified. Valid line endings are CR-LF and LF. All other control characters (CR and TAB) are replaced with a single space.	string	N	user defined		in

Example

```
<tab-text type="string"></tab-text>
```

auto-wrap-text

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
auto-wrap-text	Specifies whether to automatically wrap tab text. If this parameter is missing, 0 or “false” is assumed. All line endings in the tab text are replaced with breaking spaces. Text is wrapped on breaking spaces and words that do not completely fit on a line will be wrapped on breaking hyphens. Breaking Spaces: 1. Unicode Value (Hexadecimal): 0020 Character Description: Space 2. Unicode Value (Hexadecimal): 0009 Character Description: Tab 3. Unicode Value (Hexadecimal): 3000 Character Description: Ideographic Space 4. Unicode Value (Hexadecimal): 2000 Character Description: en quad 5. Unicode Value (Hexadecimal): 2001 Character Description: em quad 6. Unicode Value (Hexadecimal): 2002 Character Description: en space 7. Unicode Value (Hexadecimal): 2003 Character Description: em space 8. Unicode Value (Hexadecimal): 2004 Character Description: three- per-em-space 9. Unicode Value (Hexadecimal): 2005 Character Description: four-per-em-space 10. Unicode Value (Hexadecimal): 2006 Character Description: six-per-em-space 11. Unicode Value (Hexadecimal): 2007 Character Description: Figure Space 12. Unicode Value (Hexadecimal): 2008 Character Description: Punctuation Space 13. Unicode Value (Hexadecimal): 2009 Character Description: Thin Space 14. Unicode Value (Hexadecimal): 200A Character Description: Hair Space Breaking Hyphens: 1. Unicode Value (Hexadecimal): 002D Character Description: ASCII Hyphen/Minus 2. Unicode Value (Hexadecimal): 00AD Character Description: Soft Hyphen 3. Unicode Value (Hexadecimal): 058A Character Description: Armenian Hyphen 4. Unicode Value (Hexadecimal): 2010 Character Description: Hyphen	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<auto-wrap-text type="bool">0</auto-wrap-text>
```

vertical-text

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
vertical-text	Specifies whether characters on each line of test are written top to bottom if this parameter is 1, and left to right if false. If this parameter is missing, 0 or “false” is assumed. Text lines are center aligned if written horizontally, and top aligned if written vertically.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<vertical-text type="bool">0</vertical-text >
```

truncate-text

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
truncate-text	Specifies whether text lines greater than tab-text-line-width will be truncated to less than tab-text-line-width on page 342. If this parameter is missing, 0 or “false” is assumed. Active only if auto-wrap-text on page 334 is "false".	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<truncate-text type="bool">0</truncate-text>
```

show-guidelines

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
show-guidelines	Specifies whether to show vertical lines at the tab-text-line-width centered on the tab being created. This is where the tab text would automatically be wrapped. If this parameter is missing, 0 or “false” is assumed.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<show-guidelines type="bool"></show-guidelines>
```

font-name

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	font-name	Specifies the name of the system font the tab text is to be set in. The font must be present on the Vista Server hosting the Business Service PDFFile.	string	Y	user defined		in
Watermark	font-name	Specifies the font of the watermark.	string	N	user defined		in

Example

```
<font-name type="string">Arial</font-name>
```

font-size

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	font-size	Specifies default link font size.	double	N	[4...n]	8.0	in
PDFFile	font-size	Specifies the system font height in which the tab text will be set. This is expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 212 (6 point), 282 (8 point), 353 (10 point) and 423 (12 point).	integer	Y			in

Example

```
<font-size type="">8.0</font-size>
```

font-bold

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
font-bold	Set the tab text in bold type. If this parameter is missing, 0 or “false” is assumed. If the bold system font is not known, the tab text will be “stroked” to simulate bold.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<font-bold type="bool">0</font-bold>
```

font-italic

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
font-italic	Set the tab text in italic type. If this parameter is missing, 0 or “false” is assumed. If the italic system font is not known, the tab text will be skewed to simulate bold.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<font-italic type="bool"></font-italic>
```

tab-media-width

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-media-width	Specifies the width (long dimension) of the tab page expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 27940 (11in.) or 29700 (297mm).	integer	Y			in

Example

```
<tab-media-width type="integer">27940</tab-media-width>
```

tab-media-length

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="tab-media-length"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-media-length	Specifies the length (short dimension) of the tab page expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 22860 (9in.) or 2250 (225mm).	integer	Y			in

Example

```
<tab-media-length type="integer">22860</tab-media-length>
```

edge-to-center

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
edge-to-center	Specifies distance from the edge of the page to the center of the first tab expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 3810 (1 ½ in.) or 3000 (30 mm).	integer	Y			in

Example

```
<edge-to-center type="integer">3810</edge-to-center>
```

tab-text-line-width

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-text-line-width	Specifies maximum width of a line of tab text expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 4572 (1.8 in.) or 5200 (52 mm).	integer	Y			in

Example

```
<tab-text-line-width type="integer">4572</tab-text-line-width>
```

tab-top-margin

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-top-margin	For horizontal text, this specifies the distance from the edge of the page to the top of the first line of text on the tab expressed in Hi-metric units. For vertical text, this is the distance from the edge of the page to the right side of the widest character in the first line of text on the tab expressed in Hi-metric units. Hi-Metric units are . 01mm or 1/2540th of an inch.	integer	Y			in

Example

```
<tab-top-margin type="integer">1005</tab-top-margin>
```

tabs-per-set

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tabs-per-set	Specifies the number of tabs in the sequence of tab sheets.	integer	Y	[2...n]		in

Example

```
<tabs-per-set type="integer">5</tabs-per-set>
```

tab-up

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-up	Specify the tab in a sequence that you want to create, or create all tabs in a full sequence. To create a single tab, the value is non-zero. To create all tabs in the sequence; the value is 0. If missing, 0 is assumed and all tabs will be inserted in the file.	integer	N	[0...tabs-per-set on page 343]	0	in

Example

```
<tab-up type="integer">3</tab-up>
```

append-tab

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">

Business Service Element	Business Service Request
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

tab-text

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-text	The text to write on the tab. Text lines are center-aligned if written horizontally and top aligned if written vertically. This is a multi-line value. Any number of lines may be specified. Valid line endings are CR-LF and LF. All other control characters (CR and TAB) are replaced with a single space.	string	N	user defined		in

Example

```
<tab-text type="string"></tab-text>
```

auto-wrap-text

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
auto-wrap-text	Specifies whether to automatically wrap tab text. If this parameter is missing, 0 or “false” is assumed. All line endings in the tab text are replaced with breaking spaces. Text is wrapped on breaking spaces and words that do not completely fit on a line will be wrapped on breaking hyphens. Breaking Spaces: 1. Unicode Value (Hexadecimal): 0020 Character Description: Space 2. Unicode Value (Hexadecimal): 0009 Character Description: Tab 3. Unicode Value (Hexadecimal): 3000 Character Description: Ideographic Space 4. Unicode Value (Hexadecimal): 2000 Character Description: en quad 5. Unicode Value (Hexadecimal): 2001 Character Description: em quad 6. Unicode Value (Hexadecimal): 2002 Character Description: en space 7. Unicode Value (Hexadecimal): 2003 Character Description: em space 8. Unicode Value (Hexadecimal): 2004 Character Description: three- per-em-space 9. Unicode Value (Hexadecimal): 2005 Character Description: four-per-em-space 10. Unicode Value (Hexadecimal): 2006 Character Description: six-per-em-space 11. Unicode Value (Hexadecimal): 2007 Character Description: Figure Space 12. Unicode Value (Hexadecimal): 2008 Character Description: Punctuation Space 13. Unicode Value (Hexadecimal): 2009 Character Description: Thin Space 14. Unicode Value (Hexadecimal): 200A Character Description: Hair Space Breaking Hyphens: 1. Unicode Value (Hexadecimal): 002D Character Description: ASCII Hyphen/Minus 2. Unicode Value (Hexadecimal): 00AD Character Description: Soft Hyphen 3. Unicode Value (Hexadecimal): 058A Character Description: Armenian Hyphen 4. Unicode Value (Hexadecimal): 2010 Character Description: Hyphen	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<auto-wrap-text type="bool">0</auto-wrap-text>
```

vertical-text

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
vertical-text	Specifies whether characters on each line of test are written top to bottom if this parameter is 1, and left to right if false. If this parameter is missing, 0 or “false” is assumed. Text lines are center aligned if written horizontally, and top aligned if written vertically.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<vertical-text type="bool">0</vertical-text >
```

truncate-text

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
truncate-text	Specifies whether text lines greater than tab-text-line-width will be truncated to less than tab-text-line-width on page 342. If this parameter is missing, 0 or “false” is assumed. Active only if auto-wrap-text on page 334 is "false".	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<truncate-text type="bool">0</truncate-text>
```

show-guidelines

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
show-guidelines	Specifies whether to show vertical lines at the tab-text-line-width centered on the tab being created. This is where the tab text would automatically be wrapped. If this parameter is missing, 0 or “false” is assumed.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<show-guidelines type="bool"></show-guidelines>
```

font-name

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	font-name	Specifies the name of the system font the tab text is to be set in. The font must be present on the Vista Server hosting the Business Service PDFFile.	string	Y	user defined		in
Watermark	font-name	Specifies the font of the watermark.	string	N	user defined		in

Example

```
<font-name type="string">Arial</font-name>
```

font-size

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">
Business Service XML Element	
style on page 253, link on page 261	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	font-size	Specifies default link font size.	double	N	[4...n]	8.0	in
PDFFile	font-size	Specifies the system font height in which the tab text will be set. This is expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 212 (6 point), 282 (8 point), 353 (10 point) and 423 (12 point).	integer	Y			in

Example

```
<font-size type="">8.0</font-size>
```

font-bold

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
font-bold	Set the tab text in bold type. If this parameter is missing, 0 or “false” is assumed. If the bold system font is not known, the tab text will be “stroked” to simulate bold.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<font-bold type="bool">0</font-bold>
```

font-italic

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
font-italic	Set the tab text in italic type. If this parameter is missing, 0 or “false” is assumed. If the italic system font is not known, the tab text will be skewed to simulate bold.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<font-italic type="bool"></font-italic>
```

tab-media-width

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-media-width	Specifies the width (long dimension) of the tab page expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 27940 (11in.) or 29700 (297mm).	integer	Y			in

Example

```
<tab-media-width type="integer">27940</tab-media-width>
```

tab-media-length

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="tab-media-length"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-media-length	Specifies the length (short dimension) of the tab page expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 22860 (9in.) or 2250 (225mm).	integer	Y			in

Example

```
<tab-media-length type="integer">22860</tab-media-length>
```

edge-to-center

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
edge-to-center	Specifies distance from the edge of the page to the center of the first tab expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 3810 (1 ½ in.) or 3000 (30 mm).	integer	Y			in

Example

```
<edge-to-center type="integer">3810</edge-to-center>
```

tab-text-line-width

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-text-line-width	Specifies maximum width of a line of tab text expressed in Hi-metric units. Hi-Metric units are .01mm or 1/2540th of an inch. For example, 4572 (1.8 in.) or 5200 (52 mm).	integer	Y			in

Example

```
<tab-text-line-width type="integer">4572</tab-text-line-width>
```

tab-top-margin

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-top-margin	For horizontal text, this specifies the distance from the edge of the page to the top of the first line of text on the tab expressed in Hi-metric units. For vertical text, this is the distance from the edge of the page to the right side of the widest character in the first line of text on the tab expressed in Hi-metric units. Hi-Metric units are . 01mm or 1/2540th of an inch.	integer	Y			in

Example

```
<tab-top-margin type="integer">1005</tab-top-margin>
```

tabs-per-set

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tabs-per-set	Specifies the number of tabs in the sequence of tab sheets.	integer	Y	[2...n]		in

Example

```
<tabs-per-set type="integer">5</tabs-per-set>
```

tab-up

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
tab-up	Specify the tab in a sequence that you want to create, or create all tabs in a full sequence. To create a single tab, the value is non-zero. To create all tabs in the sequence; the value is 0. If missing, 0 is assumed and all tabs will be inserted in the file.	integer	N	[0...tabs-per-set on page 343]	0	in

Example

```
<tab-up type="integer">3</tab-up>
```

to-file

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
to-file	Specifies the path to where the PDF file will be created. Any existing file will be overwritten. If to-file is not specified, a file is created and the path written to this parameter.	string	N	user defined		in

Example

```
<to-file type="string"></to-file>
```

extract-links

filename

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
filename	Specifies the PDF file path.	string	Y	user defined		in

Example

```
<filename type="string">C:\MyDocuments\example.pdf</filename>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

start-page

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start-page	Specifies the page number of the first page to be printed. This is a 1-based index. This is relative to the physical number of pages in the document, and does not take into account any page numbering within the document itself. A start-page of 1 would start printing from the beginning of the document. If not supplied, the default is to start printing from the beginning of the document.	integer	N	[1...n]	1	in

Example

```
<start-page type="integer">1</start-page>
```

end-page

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
end-page	Specifies the page number of the last page to be printed. This is a 1-based index. This is relative to the physical number of pages in the document, and does not take into account any page numbering within the document itself. If not supplied, the default end-page is the very last page in the document. If the end-page number supplied in a print-pdf request exceeds the actual number of pages in the document, the default end-page value will be used.	integer	N	[-1...n] (until the last page if less than 1)	N	in

Example

```
<end-page type="integer">5</end-page>
```

extract-xref-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-xref-links	Sets a boolean value indicating whether or not the xref-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-xref-links type="bool">0</extract-xref-links>
```

extract-remote-destination-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-remote-destination-links	Sets a boolean value indicating whether or not the remote-destination-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-remote-destination-links type="bool">0</extract-remote-destination-links>
```

extract-destination-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-destination-links	Sets a boolean value indicating whether or not the destination-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-destination-links type="bool">0</extract-destination-links>
```

extract-goto-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-goto-links	Sets a boolean value indicating whether or not the goto-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-goto-links type="bool">0</extract-goto-links>
```

extract-remote-goto-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-remote-goto-links	Sets a boolean value indicating whether or not the remote-goto-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-remote-goto-links type="bool">0</extract-remote-goto-links>
```

extract-launch-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-launch-links	Sets a boolean value indicating whether or not the launch-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-launch-links type="bool">0</extract-launch-links>
```

extract-uri-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-uri-links	Sets a boolean value indicating whether or not the uri-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-uri-links type="bool">0</extract-uri-links>
```

extract-ultralink-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-ultralink-links	Sets a boolean value indicating whether or not the ultralink-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-ultralink-links type="bool">0</extract-ultralink-links>
```

extract-ip-placeholder-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-ip-placeholder-links	Sets a boolean value indicating whether or not the ip-placeholder-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-ip-placeholder-links type="bool"></extract-ip-placeholder-links>
```

link-output

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
link-output	This XML data contains the hyperlinks extracted from the PDF document. This information is appended into the job ticket.	xml				out

Example

```
<link-output type="xml"></link-output>
```

extract-bookmarks

filename

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
filename	Specifies the PDF file path.	string	Y	user defined		in

Example

```
<filename type="string">C:\MyDocuments\example.pdf</filename>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

max-levels

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-bookmarks"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
max-levels	Specifies the maximum level of nested bookmarks that will be extracted.	integer	Y	[-1...n]		in

Example

```
<max-levels type="integer">3</max-levels>
```

bookmark-output

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-bookmarks">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
bookmark-output	This XML data contains the bookmarks extracted from the PDF document. This information is appended into the job ticket.	xml				out

Example

```
<bookmark-output type="xml"></bookmark-output>
```

extract-pagecount

filename

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
filename	Specifies the PDF file path.	string	Y	user defined		in

Example

```
<filename type="string">C:\MyDocuments\example.pdf</filename>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

pagecount-output

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-pagecount">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pagecount-output	This XML data contains the page count of the PDF document. This information is appended into the job ticket.	xml				out

Example

```
<pagecount-output type="xml"></pagecount-output>
```

extract-all

filename

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
filename	Specifies the PDF file path.	string	Y	user defined		in

Example

```
<filename type="string">C:\MyDocuments\example.pdf</filename>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

start-page

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
start-page	Specifies the page number of the first page to be printed. This is a 1-based index. This is relative to the physical number of pages in the document, and does not take into account any page numbering within the document itself. A start-page of 1 would start printing from the beginning of the document. If not supplied, the default is to start printing from the beginning of the document.	integer	N	[1...n]	1	in

Example

```
<start-page type="integer">1</start-page>
```

end-page

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
end-page	Specifies the page number of the last page to be printed. This is a 1-based index. This is relative to the physical number of pages in the document, and does not take into account any page numbering within the document itself. If not supplied, the default end-page is the very last page in the document. If the end-page number supplied in a print-pdf request exceeds the actual number of pages in the document, the default end-page value will be used.	integer	N	[-1...n] (until the last page if less than 1)	N	in

Example

```
<end-page type="integer">5</end-page>
```

extract-xref-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-xref-links	Sets a boolean value indicating whether or not the xref-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-xref-links type="bool">0</extract-xref-links>
```

extract-remote-destination-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-remote-destination-links	Sets a boolean value indicating whether or not the remote-destination-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-remote-destination-links type="bool">0</extract-remote-destination-links>
```

extract-destination-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-destination-links	Sets a boolean value indicating whether or not the destination-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-destination-links type="bool">0</extract-destination-links>
```

extract-goto-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-goto-links	Sets a boolean value indicating whether or not the goto-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-goto-links type="bool">0</extract-goto-links>
```

extract-remote-goto-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-remote-goto-links	Sets a boolean value indicating whether or not the remote-goto-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-remote-goto-links type="bool">0</extract-remote-goto-links>
```

extract-launch-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-launch-links	Sets a boolean value indicating whether or not the launch-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-launch-links type="bool">0</extract-launch-links>
```

extract-uri-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-uri-links	Sets a boolean value indicating whether or not the uri-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-uri-links type="bool">0</extract-uri-links>
```

extract-ultralink-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-ultralink-links	Sets a boolean value indicating whether or not the ultralink-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-ultralink-links type="bool">0</extract-ultralink-links>
```

extract-ip-placeholder-links

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extract-ip-placeholder-links	Sets a boolean value indicating whether or not the ip-placeholder-links can be extracted. If this parameter is not supplied in the request, the default is set to 0 (false).	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<extract-ip-placeholder-links type="bool"></extract-ip-placeholder-links>
```

max-levels

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="extract-bookmarks"> <request name="extract-all">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
max-levels	Specifies the maximum level of nested bookmarks that will be extracted.	integer	Y	[-1...n]		in

Example

```
<max-levels type="integer">3</max-levels>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

set-initial-links

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

links

Contained By

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links">

Business Service Element	Business Service Request
PDFFile	<request name="set-initial-links">

Contains

Business Service XML Element
linkset on page 260

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	links	Load links from the job ticket.	xml	N			in
PDFFile	links	The list of links to be created in the PDF rendition.	xml	Y			in

IPLinkSetter Example

```
<links type="xml">
      <linkset>
        <link>
          <destination-path>AAA</destination-path>
          <pagenumber>123</pagenumber>
          <linktext>BBB</linktext>
          <linkGUID>CCC</linkGUID>
          <inmargin>123.00</inmargin>
          <override-style>True</override-style>
          <style-name>XXX</style-name>
          <colour>DDD</colour>
          <border>EEE</border>
          <line-style>FFF</line-style>
          <line-thickness>GGG</line-thickness>
          <background>HHH</background>
          <remote-window>III</remote-window>
          <font>JJJ</font>
          <font-size>123.00</font-size>
        </link>
          ...
     </linkset>
</links>
```

PDFFile Example

```
<links type="xml">
     <linknode>
        <link bottom="43140120" left="7935361" right="14330954" top="44146820">
           <source-page type="integer">1</source-page>
           <linkGUID linkid="16280">a9e40928da466fee9e6bc6dfee78d8e0f</linkGUID>
        </link>
```

```
    </linknode>
</links>
```

linknode

Contained By

Business Service XML Element
links on page 259

Contains

Business Service XML Element
link on page 261

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
linknode	Contains the list of 'link' elements.	xml	Y			in

Example

```
<linknode type="xml"></linknode>
```

link

Contained By

Business Service XML Element
linkset on page 260, linknode on page 395

Contains

Business Service XML Element
destination-path on page 262, pagenumber on page 262, linktext on page 263, linkGUID on page 263, inmargin on page 264, override-style on page 264, start-name on page 150, colour on page 247, border on page 247, line-style on page 248, line-thickness on page 248, background on page 249, remote-window on page 251, font on page 249, font-size on page 250, source-page on page 396

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	link	Specifies link parameters.	string	N			in
PDFFile	link	Specifies link parameters.	xml	Y			in

Link Attributes

Business Service Element	Attribute Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	bottom	Specifies bottom position of link box.	integer	Y	[0...n]		in
PDFFile	left	Specifies left position of link box.	integer	Y	[0...n]		in
PDFFile	right	Specifies right position of link box.	integer	Y	[0...n]		in
PDFFile	top	Specifies top position of link box.	integer	Y	[0...n]		in

IPLinkSetter Example

```
<link type="string">
          <destination-path>AAA</destination-path>
          <pagenumber>123</pagenumber>
          <linktext>BBB</linktext>
          <linkGUID>CCC</linkGUID>
          <inmargin>123.00</inmargin>
          <override-style>True</override-style>
          <style-name>XXX</style-name>
          <colour>DDD</colour>
          <border>EEE</border>
          <line-style>FFF</line-style>
          <line-thickness>GGG</line-thickness>
          <background>HHH</background>
          <remote-window>III</remote-window>
          <font>JJJ</font>
          <font-size>123.00</font-size>
</link>
```

PDFFile Example

```
<link bottom="43140120" left="7935361" right="14330954" top="44146820">
    <source-page type="integer">1</source-page>
    <linkGUID linkid="16280">a9e40928da466fee9e6bc6dfee78d8e0f</linkGUID>
</link>
```

source-page

Contained By

Business Service XML Element
link on page 261

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
source-page	Specifies link source page.	integer	Y	[0...n]		in

Example

```
<source-page type="integer">5</source-page>
```

linkGUID

Contained By

Business Service XML Element
link on page 261

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPLinkSetter	linkGUID	Specifies link GUID.	string	N	user defined		in
PDFFile	linkGUID	Specifies link GUID.	string	Y	user defined		in

linkGUID Attributes

Business Service Element	Attribute Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	linkid	Specifies link id.	integer	Y	[0...n]		in

IPLinkSetter Example

```
<linkGUID type="string">CCC</linkGUID>
```

PDFFile Example

```
<linkGUID linkid="16280">a9e40928da466fee9e6bc6dfee78d8e0f</linkGUID>
```

host

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="set-initial-links">
Business Service XML Element	
general on page 282	

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
MSWord	host	Specifies InSight server host name.	string	N	user defined		in
PDFFile	host	The destination host location of the link data.	string	Y	user defined		in

Example

```
<host type="string">HostName</host>
```

make-pdfa-compliant

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">

Business Service Element	Business Service Request
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

Printer

generate-printer-output

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

printer-family

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
printer-family	Specifies a printer family. The printer family defines a related group of devices that actually share an underlying device engine or command stream interpreter.	string	Y	user defined		in

Example

```
<printer-family type="string"></printer-family>
```

printer-type

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
printer-type	Specifies output printer type code. These are the type codes for individual devices supported by this Printer Support Object. These may include the model and OEM variations of the printer family.	string	Y	user defined		in

Example

```
<printer-type type="string"></printer-type>
```

printer-type-info

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
printer-type-info	Specifies internal printer information used to define printer media, etc. Certain values stored inside InSight database.	xml	N			in

Example

```
<printer-type-info type="xml"></printer-type-info>
```

job-title

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
job-title	Specifies title of the job.	string	Y	user defined		in

Example

```
<job-title type="string">Print Example</job-title>
```

job-creator

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
job-creator	Specifies creator of the job.	string	Y	user defined		in

Example

```
<job-creator type="string"></job-creator>
```

job-owner

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
job-owner	Specifies owner of the job.	string	N	user defined		in

Example

```
<job-owner type="string"></job-owner>
```

duplex

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
duplex	Specifies the duplex type (single or two-sided printing). Values are case sensitive.	string	N	• simplex • duplex • tumble	simplex	in

Example

```
<duplex type="string">simplex</duplex>
```

page-rotation

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
page-rotation	Specifies the page rotation value.	string	N	• 0 • 90 • 180 • 270	0	in

Example

```
<page-rotation type="string"></page-rotation>
```

default-media-name

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
default-media-name	Specifies the name of the default page media.	string	Y	user defined		in

Example

```
<default-media-name type="string"></default-media-name>
```

media-count

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-count	Specifies number of different media types used in printer job.	string	Y	user defined		in

Example

```
<media-count type="string">2</media-count>
```

media-name-XXX

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-name-XXX	Specifies name of media type. XXX - integer number indicating media type. Should be consequent integer which is the same for all media-... parameters for the same media type.	string	Y	user defined		in

Example

```
<media-name-XXX type="string">media-name-0</media-name-XXX>
```

media-width-XXX

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-width-XXX	Specifies paper width of media type. XXX - integer number indicating media type. Should be consequent integer which is the same for all media-... parameters for the same media type.	integer	N	user defined		in

Example

```
<media-width-XXX type="integer"></media-width-XXX>
```

media-length-XXX

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-length-XXX	Specifies paper length of media type.	integer	N	user defined		in

Example

```
<media-length-XXX type="integer">12</media-length-XXX>
```

media-color-XXX

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-color-XXX	Specifies paper color of media type.	string	Y	user defined		in

Example

```
<media-color-XXX type="string">blue</media-color-XXX>
```

media-weight-XXX

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-weight-XXX	Specifies paper weight of media type.	integer	N			in

Example

```
<media-weight-XXX type="integer">1</media-weight-XXX>
```

media-hole-count-XXX

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-hole-count-XXX	Specifies count of holes for pre-punched media types.	integer	N			in

Example

```
<media-hole-count-XXX type="integer">3</media-hole-count-XXX>
```

media-can-duplex-XXX

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-can-duplex-XXX	Specifies if duplex printing may be performed.	boolean	N	• 0 or false • 1 or true	1	in

Example

```
<media-can-duplex-XXX type="bool">1</media-can-duplex-XXX>
```

media-sequence-count-XXX

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-sequence-count-XXX	Specifies number of sequence in printer job.	integer	N			in

Example

```
<media-sequence-count-XXX type="integer">3</media-sequence-count-XXX>
```

media-device-info-XXX

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-device-info-XXX	Specifies media device info. Predefined values for different printers stored inside InSight database.	xml	N			in

Example

```
<media-device-info-XXX type="xml"></media-device-info-XXX>
```

media-exception-count

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-exception-count	Specifies media exceptions segments count. Papers which differ from main flow of media types. For example user has A4 pages from 1 to 12 page but inside this flow we have A4 Tab on page 3. Usually used for tabs.	integer	N			in

Example

```
<media-exception-count type="integer">3</media-exception-count>
```

media-exception-start-page-YYY

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-exception-start-page-YYY	Specifies start page of YYY exception segment.	integer	N			in

Example

```
<media-exception-start-page-YYY type="integer">3</media-exception-start-page-YYY>
```

media-exception-end-page-YYY

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-exception-end-page-YYY	Specifies end page of YYY exception segment.	integer	N			in

Example

```
<media-exception-end-page-YYY type="integer">5</media-exception-end-page-YYY>
```

media-exception-media-name-YYY

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-exception-media-name-YYY	Specifies exception media name of YYY exception segment.	string	N	user defined		in

Example

```
<media-exception-media-name-YYY type="string">stop</media-exception-media-name-YYY>
```

media-exception-force-duplex-YYY

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-exception-force-duplex-YYY	Specifies whether forced duplex should be applied to YYY exception segment.	boolean	N	• 0 or false • 1 or true	0	

Example

```
<media-exception-force-duplex-YYY type="bool">0</media-exception-force-duplex-YYY>
```

media-exception-duplex-YYY

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-exception-duplex-YYY	Specifies duplex type for YYY exception segment.	string	N	user defined		in

Example

```
<media-exception-duplex-YYY type="string"></media-exception-duplex-YYY>
```

media-exception-force-page-rotation-YYY

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-exception-force-page-rotation-YYY	Specifies wheher forced rotation should be applied YYY exception segment.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<media-exception-force-page-rotation-YYY type="bool">0</media-exception-force-page-rotation-YYY>
```

media-exception-page-rotation-YYY

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
media-exception-page-rotation-YYY	Specifies rotation value for YYY exception segment.	string	N	user defined		in

Example

```
<media-exception-page-rotation-YYY type="string">90</media-exception-page-rotation-YYY>
```

printable-local-folder

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
printable-local-folder	Specifies local folder to print.	string	n	user defined		in

Example

```
<printable-local-folder type="string">C:\MyDocuments\</printable-local-folder>
```

printable-filepath

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
printable-filepath	Specifies output relative file path inside printable-local-folder on page 416.	string	N	user defined		in

Example

```
<printable-filepath type="string"></printable-filepath>
```

printable-local-path

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
printable-local-path	Specifies final local path for output file.	string	N	user defined		out

Example

```
<printable-local-path type="string"></printable-local-path>
```

printable-doc-format

Contained By

Business Service Element	Business Service Request
Printer	<request name="generate-printer-output">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
printable-doc-format	Specifies file format for output document.	string	N	user defined		out

Example

```
<printable-doc-format type="string"></printable-doc-format>
```

Queue

list-queued-files

folder

Contained By

Business Service Element	Business Service Request
File	<request name="delete-folder"> <request name="delete-folder-contents">
Queue	<request name="list-queued-files"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	folder	Specifies the folder to be deleted.	string	Y	user defined		in
Queue	folder	• Specifies the folder to be queried. • Specifies the source folder path. The first document obtained from this folder will be dequeued and removed from the folder after successful completion of this request.	string	Y	user defined		in

Example

```
<folder type="string">oxygen</folder>
```

filter

Contained By

Business Service Element	Business Service Request
Queue	<request name="list-queued-files">
Retrieve	<request name="retrieve-document-list"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Queue	filter	Specifies any filtering criteria based upon file types (i.e. extensions) to be applied during the query. When a filter is applied, the only files that will be listed are those that match the type of file specified in the filter.	string	N	user defined		in
Retrieve	filter	Currently, this only supports Documentum query expressions.	string	N	user defined		in

Example

```
<filter type="string">.docx</filter>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	

Business Service Element	Business Service Request	Business Service Parameter
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">

Business Service Element	Business Service Request
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

list

Contained By

Business Service Element	Business Service Request
Queue	<request name="list-queued-files">
Retrieve	<request name="retrieve-document-list">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Queue	list	The output of the list-queue-files request. For each file that matches the supplied filter (if any), there will be a “file” xml structure entry in the list xml tree.	xml				out
Retrieve	list	On completion of the request this will contain the list of documents found in the folder-URL path, as shown in the example below.	xml				out

Queue Example

```
<list type="xml">
  <files>
    <file>
      <path>C:\Queue\Folder\File1.doc</path>
      <name>File1.doc</name>
      <ext>.doc</ext>
      <dir>C:\Queue\Folder</dir>
    </file>
  </files>
</list>
```

Retrieve Example

```
<list type="xml">
   <documents type="xml">
      <document path="FolderName">
        <URL> dms://dctm/docbase/docrefid </URL>
        <doc-loc>dms://dctm/docbase/docrefid</doc-loc>
        <content-type>doc</content-type>
        <name>Document2</name>
      </document>
   </documents>
</list>
```

dequeue-file

file

Contained By

Business Service Element	Business Service Request
File	<request name="delete-file">
Queue	<request name="dequeue-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	file	Specifies the file to be deleted.	string	Y	user defined		in
Queue	file	Specifies the file to be dequeued.	string	Y	user defined		in

Example

```
<file type="string">C:/documents/document.doc</file>
```

dequeued-file

Contained By

Business Service Element	Business Service Request
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dequeued-file	The destination location for the dequeued file. The file name of the dequeued-file can be changed by specifying a new name in this parameter. If this parameter is not supplied in the request, a temporary file name and location will be created. **Note:** If this request is contained within a workflow, and a temporary file name was created for this parameter (i.e. the dequeued-file parameter was not supplied in the request), the temporary file will be deleted once the workflow has finished processing.	string	N	user defined		in

Example

```
<dequeued-file type="string">C:\MyDocuments</dequeued-file>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

overwrite

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
, File, Queue,	overwrite	Specifies whether the destination file is to be overwritten if it exists.	boolean	N	• 1 or true • 0 or false	1	in

Example

```
<overwrite type="bool">1</overwrite>
```

dequeued-file-ext

Contained By

Business Service Element	Business Service Request
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dequeued-file-ext	The file extension of the file that has been dequeued.	string		user defined		out

Example

```
<dequeued-file-ext type="string">.txt</dequeued-file-ext>
```

dequeued

Contained By

Business Service Element	Business Service Request
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">
Retrieve	<request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Queue	dequeued	Specifies whether or not the dequeue-file request completed successfully. A value of '1' indicates that the request successfully dequeued the file. A value of '0' indicates that the request failed to dequeue the file either because the file did not exist or there was a processing error.	boolean		• 0 or false • 1 or true		out
Retreive	dequeued	Specifies whether document was dequeued.	boolean		• 0 or false • 1 or true		out

Example

```
<dequeued type="bool">1</dequeued>
```

dequeue-next-file

folder

Contained By

Business Service Element	Business Service Request
File	<request name="delete-folder"> <request name="delete-folder-contents">
Queue	<request name="list-queued-files"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	folder	Specifies the folder to be deleted.	string	Y	user defined		in
Queue	folder	• Specifies the folder to be queried. • Specifies the source folder path. The first document obtained from this folder will be dequeued and removed from the folder after successful completion of this request.	string	Y	user defined		in

Example

```
<folder type="string">oxygen</folder>
```

dequeued-file

Contained By

Business Service Element	Business Service Request
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dequeued-file	The destination location for the dequeued file. The file name of the dequeued-file can be changed by specifying a new name in this parameter. If this parameter is not supplied in the request, a temporary file name and location will be created. **Note:** If this request is contained within a workflow, and a temporary file name was created for this parameter (i.e. the dequeued-file parameter was not supplied in the request), the temporary file will be deleted once the workflow has finished processing.	string	N	user defined		in

Example

```
<dequeued-file type="string">C:\MyDocuments</dequeued-file>
```

user

Contained By

Business Service Element	Business Service Request	Business Service Parameter
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">	
FTP	<request name="send-file"> <request name="send-folder">	
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">	

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in
FTP	user	Specifies the user to log in when connecting to the FTP server.	string	Y	user defined		in
Queue	user	Specifies the user that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<user type="string">bsmith</user>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

overwrite

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
, File, Queue,	overwrite	Specifies whether the destination file is to be overwritten if it exists.	boolean	N	• 1 or true • 0 or false	1	in

Example

```
<overwrite type="bool">1</overwrite>
```

file-path

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish">
Queue	<request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	file-path	Specifies output file name. Value will be appended to <output-path>.	string	Y	user defined		in
Queue	file-path	The full path of the original document dequeued from the source folder.	string		user defined		out

Example

```
<file-path type="string">Document.pdf</file-path>
```

file-name

Contained By

Business Service Element	Business Service Request
Queue	<request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
file-name	The file name of the original document dequeued from the source folder.	string		user defined		out

Example

```
<file-name type="string">example.txt</file-name>
```

dequeued-file-ext

Contained By

Business Service Element	Business Service Request
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dequeued-file-ext	The file extension of the file that has been dequeued.	string		user defined		out

Example

```
<dequeued-file-ext type="string">.txt</dequeued-file-ext>
```

dequeued

Contained By

Business Service Element	Business Service Request
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">
Retrieve	<request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Queue	dequeued	Specifies whether or not the dequeue-file request completed successfully. A value of '1' indicates that the request successfully dequeued the file. A value of '0' indicates that the request failed to dequeue the file either because the file did not exist or there was a processing error.	boolean		• 0 or false • 1 or true		out
Retreive	dequeued	Specifies whether document was dequeued.	boolean		• 0 or false • 1 or true		out

Example

```
<dequeued type="bool">1</dequeued>
```

Render

render-pdf

document-name

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
document-name	Specifies a user-friendly description of the source file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in

Example

```
<document-name type="string">sample doc</document-name>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">

Business Service Element	Business Service Request
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

content-type

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		in
Retrieve	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		• in/out (retreive-document, retrieve-rendition, retrieve-queued-document) • out (retrieve-next-queued-job)

Example

```
<content-type type="string">.doc</content-type>
```

force-rendition

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
force-rendition	If force-rendition is set to '1', a rendition will be created even if one already exists. If set to '0', and the "rendition-found" parameter is set to '1', the render request will exit without creating a new rendition.	boolean	N (render-pdf, render-html) Y (render-document)	• 0 or false • 1 or true	0	in

Example

```
<force-rendition type="bool">0</force-rendition>
```

local-rendition-path

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
local-rendition-path	Specifies the output location for the PDF rendition. If supplied, the output folder path must be accessible by all repository servers in the domain, such as a shared network folder. If not supplied, an output folder path will be generated and the output will be named “rendition.pdf”. The local-rendition-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-rendition-path’ parameter in this request, the output file created will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the rendition within the same Workflow process with the Business Service Distribute.	string	N	user defined		in/out

Example

```
<local-rendition-path type="sting">C:\example\</local-rendition-path>
```

rendition-found

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">
Retrieve	<request name="retrieve-rendition">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	rendition-found	Returns whether a rendition was found.	boolean	N	• 0 or false • 1 or true	0	in (render-pdf, render-html) out (render-document)
Retrieve	rendition-found	Returns whether a rendition was found.	boolean	N	• 0 or false • 1 or true	0	out

Example

```
<rendition-found type="bool">0</rendition-found>
```

output-path

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">
IPFusion	<request name="publish"> <request name="volumize-by-size">
PDFFile	<request name="set-security">
Render	<request name="render-pdf">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	output-path	Where a file was: • moved • copied	string		user defined		out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion, PDFFile	output-path	Specifies output folder path. If not specified then temporary folder will be created.	string	N	user defined		in
Render	output-path	Specifies the output path for the PDF rendition. This parameter is only used if the local-rendition-path on page 441 parameter is not provided. If both the local-rendition-path and output-folder parameters are not provided within the request, a temporary output folder path will be generated. This parameter will be set in the job ticket with the temporary folder location upon completion of the request.	string		user defined		out
Watermark	output-path	Specifies the output file name of the resulting watermarked pdf. If not supplied, a temporary file name and path will be generated. The output-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request.	string	N	user defined		in

Example

```
<output-path type="string">C:\Output</output-path>
```

output-folder

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-folder	Specifies the output folder for the PDF rendition. This parameter is only used if the local-rendition-path parameter is not provided. If both the local-rendition-path and output-folder parameters are not provided within the request, a temporary output folder path will be generated. This parameter will be set in the job ticket with the temporary folder location upon completion of the request.	string	N	user defined		in (render-pdf) in/out (render-document)

Example

```
<output-folder type="string">C:\Example\</output-folder>
```

output-name

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-name	Specifies the file name for the PDF rendition. This parameter is only used if the local-rendition-path parameter is not provided. **Note:** 1. There is no file extension on the output-name parameter value. The appropriate extension will be added when the request is being processed. 2. If both the local-rendition-path on page 441 and output-name on page 445 parameters are not provided within the request, a temporary file name `rendition.pdf` will be generated. This parameter will be set in the job ticket with the temporary file name upon completion of the request. **Note:** If this request is contained within a "workflow", and you do not specify a local-rendition-path on page 441 parameter in this request, the output file created will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must "distribute" the rendition within the same Workflow process with the Business Service Distribute	string	N	user defined	• rendition.pdf (for <request name="render-pdf">) • rendition.html (for <request name="render-html">	in
output-name		string	N	user defined		in

Example

```
<output-name type="string">rendition.pdf</output-name>
```

output-extension

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-extension	The file extension of the rendition. For render-pdf requests, this value is always ".pdf". This parameter is only set if the local-rendition-path parameter was not provided in the original request.	string		• .pdf (for <request name="render-pdf"> • .html (for <request name="render-html">		out

Example

```
<output-extension type="string">.pdf</output-extension>
```

pdf-version

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-version	Specifies the PDF version for the rendition. If not specified then the global default value defined by DomainManager is used.	string	N	1.4 to 1.7	Value stored in Domain Configuration	in

Example

```
<pdf-version type="string">1.7</pdf-version>
```

transformation-prefs

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
transformation-prefs	Transformation preferences for a particular content-type. Transformation preferences can differ dramatically between content types, and some content-types may not even have any transformation preferences. To configure a content-type, it is recommended that the user configures the content-type through the Domain Manager application, which is installed with InSight Rendering. If not supplied, the transformation-prefs for the specific content-type are obtained through the registry. The Domain Manager application updates the registry with the changes a user makes to a specific content-type.	string	N		Value stored in Domain Configuration	in

Example

```
<transformation-prefs type="string"></transformation-prefs>
```

extraction-prefs

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extraction-prefs	Extraction preferences for a particular content-type. Extraction preferences can differ dramatically between content types, and some content-types may not even have any extraction preferences. To configure a content-type, it is recommended that the user configures the content-type through the Domain Manager application, which is installed with InSight Rendering. If not supplied, the extraction-prefs for the specific content-type are obtained through the registry. The Domain Manager application updates the registry with the changes a user makes to a specific content-type.	string	N		Value stored in Domain Configuration	in

Example

```
<extraction-prefs type="string"></extraction-prefs>
```

openpdfpassword

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
openpdfpassword	Applies a password to the pdf rendition that is required upon attempting to open the pdf. It is recommended that all PDF security options be set through the Business Service PDFFile.	string	N	user defined		in

Example

```
<openpdfpassword type="string">abc</openpdfpassword>
```

changesecuritypassword

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
changesecuritypassword	Applies a password to the pdf rendition security administration. It is recommended that all PDF security options be set through the Business Service PDFFile.	string	N	user defined		in

Example

```
<changesecuritypassword type="string">abc</changesecuritypassword>
```

optimizepublication

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
optimizepublication	Even though the type of the parameter is 'string', the parameter value must be either a 0 or 1, indicating false (0) or true (1). A value of 0 indicates that the publication will not be optimized. A value of 1 indicates that the publication will be optimized. If this parameter is not supplied, the default is set to 1 (true).	string	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<optimizepublication type="string">1</optimizepublication>
```

disallownotes

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
disallownotes	Turns on or off the ability to allow notes within the PDF rendition. It is recommended that all PDF security options be set through the Business Service PDFFile. Even though the type of the parameter is 'string', the parameter value must be either a 0 or 1, indicating false (0) or true (1). A value of 0 indicates that the "allow-notes" option of the PDF rendition will be turned off. A value of 1 indicates that the "allow-notes" option of the PDF rendition will be turned on.	string	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<disallownotes type="string">0</disallownotes>
```

disallowchanges

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
disallowchanges	Turns on or off the ability to allow changes within the PDF rendition. It is recommended that all PDF security options be set through the Business Service PDFFile. Even though the type of the parameter is 'string', the parameter value must be either a 0 or 1, indicating false (0) or true (1). A value of 0 indicates that the "allow-changes" option of the PDF rendition will be turned off. A value of 1 indicates that the "allow-changes" option of the PDF rendition will be turned on.	string	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<disallowchanges type="string">0</disallowchanges>
```

disallowprinting

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
disallowprinting	Turns on or off the ability to allow printing within the PDF rendition. It is recommended that all PDF security options be set through the Business Service PDFFile. Even though the type of the parameter is 'string', the parameter value must be either a 0 or 1, indicating false (0) or true (1). A value of 0 indicates that the "allow-printing" option of the PDF rendition will be turned off. A value of 1 indicates that the "allow-printing" option of the PDF rendition will be turned on.	string	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<disallowprinting type="string">0</disallowprinting>
```

disallowselection

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
disallowselection	Turns on or off the ability to allow selection within the PDF rendition. It is recommended that all PDF security options be set through the Business Service PDFFile. Even though the type of the parameter is 'string', the parameter value must be either a 0 or 1, indicating false (0) or true (1). A value of 0 indicates that the "allow-selection" option of the PDF rendition will be turned off. A value of 1 indicates that the "allow-selection" option of the PDF rendition will be turned on.	string	n	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<disallowselection type="string">0</disallowselection>
```

pdf-bookmarks-on-open

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-bookmarks-on-open	Specifies whether the bookmark pane should display when the PDF file is opened. If not specified then the global default value defined by DomainManager is used. Will be superceded by "pdf-page-mode" if that parameter is used. The parameter should be set to "1" (true) or "0" (false).	string	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-bookmarks-on-open type="string">0</pdf-bookmarks-on-open>
```

pdf-bookmark-panel-when-none

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-bookmark-panel-when-none	Specifies if bookmark panel should be visible if no bookmarks present in the pdf document. Default value is false.	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-bookmark-panel-when-none type="bool">0</pdf-bookmark-panel-when-none>
```

pdf-bookmark-level-on-open

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-bookmark-level-on-open	Specifies nesting level where bookmarks are opened. Should be -1 or greater than zero.	long	N	• Open all: -1 • Open to level: >=1	Value stored in Domain Configuration	in

Example

```
<pdf-bookmark-level-on-open type="long">-1</pdf-bookmark-level-on-open>
```

pdf-delete-blank-bookmarks

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-delete-blank-bookmarks	Specifies wheter blank bookmarks should be deleted from rendition. If true child bookmarks of a blank bookmark will move up to the root until non-blank bookmark appears. That non-blank bookmark will be new parent on that child bookmark. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-delete-blank-bookmarks type="bool">1</pdf-delete-blank-bookmarks>
```

font-embedding

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
font-embedding	Specifies how font embedding should be applied. Default value is taken from Domain Manager configuration.	long	N	• 0 - no embedding • 1 - embedding subset. • 2 - full embedding.	Value stored in Domain Configuration	in

Example

```
<font-embedding type="long">0</font-embedding>
```

pdf-page-layout

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-page-layout	Specifies page layout of the pdf rendition. Default value is taken from Domain Manager configuration. Acceptable values are:	long	N	• 0 - default. PDF viewer's option is used • 1 - single page • 2 - one column • 3 - two columns left • 4 - two columns right	Value stored in Domain Configuration	in

Example

```
<pdf-page-layout type="long">2</pdf-page-layout>
```

pdf-page-mode

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-page-mode	Specifies page mode of the pdf rendition. Supercedes parameter "pdf-bookmark-on-open". Default value is taken from Domain Manager configuration. Acceptable values are:	long	N	• 0 - no bookmark/ thumbnails pane is shown • 1 - bookmark pane is shown • 2 - thumbnails pane is shown	Value stored in Domain Configuration	in

Example

```
<pdf-page-mode type="long">1</pdf-page-mode>
```

pdf-magnification

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-magnification	Specifies page magnification of the pdf rendition. Default value is taken from Domain Manager configuration.	long	N	• 0 - default. PDF viewer's option is used. • 1 - actual size • 2 - fit page • 3 - fit height • 4 - fit width • 5 - fit visible • 6 - zoom 25% • 7 - zoom 50% • 8 - zoom 75% • 9 - zoom 100% • 10 - zoom 125% • 11 - zoom 150% • 12 - zoom 200% • 13 - zoom 400% • 14 - zoom 800%	Value stored in Domain Configuration	in

Example

```
<pdf-magnification type="long">4</pdf-magnification>
```

pdf-hide-menubar

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-hide-menubar	Specifies whether to hide the viewer application's menu bar when the document is active. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-hide-menubar type="bool">0</pdf-hide-menubar>
```

pdf-hide-toolbar

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-hide-toolbar	Specifies whether to hide the viewer application's tool bars when the document is active. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-hide-toolbar type="bool">0</pdf-hide-toolbar>
```

pdf-hide-window-controls

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-hide-window-controls	Specifies whether to hide user interface elements in the document's window (such as scroll bars and navigation controls), leaving only the document's contents displayed. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-hide-window-controls type="bool">0</pdf-hide-window-controls>
```

pdf-fit-window

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-fit-window	Specifies whether to resize the document's window to fit the size of the first displayed page. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-fit-window type="bool">0</pdf-fit-window>
```

pdf-center-window

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-center-window	Specifies whether to position the document's window in the center of the screen. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-center-window type="bool">0</pdf-center-window>
```

pdf-display-doc-title

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-display-doc-title	Specifies whether the window's title bar should display the document title taken from the Title entry of the document. If false, the title bar should instead display the name of the PDF file containing the document. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-display-doc-title type="bool">0</pdf-display-doc-title>
```

pdf-remote-window

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-remote-window	Specifies whether cross-document links are opened in the same window.	string	N	• inherit - Open cross-document link target documents as defined by the option set up in the PDF Viewer application. In the case of Adobe Acrobat, the value in the **Edit** > **Preferences** > **Documents** category, **Open cross-document links in same window** checkbox. • new - Open cross-document links in a new window. • same - Open cross-document links in the same window.	Value stored in Domain Configuration	in

Example

```
<pdf-remote-window type="string">new</pdf-remote-window>
```

render-document

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS “URL” of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

rendition-format

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-rendition">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	rendition-format	Rendition format. Only 'pdf' format is supported.	string	Y	pdf	pdf	in
Retrieve	rendition-format	Specifies the format of the rendition to be retrieved if rendition-URL is not specified.	string	Y			in

Example

```
<rendition-format type="string">pdf</rendition-format>
```

content-type

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		• in/out (retreive-document, retrieve-rendition, retrieve-queued-document) • out (retrieve-next-queued-job)

Example

```
<content-type type="string">.doc</content-type>
```

content-format

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="render-document"> <request name="render-queued-document"> <request name="render-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	content-format	Document content format (e.g. "msw8"). May be blank or same as document's file extension (e.g., 'doc').	string	N	user defined		in/out
Retrieve	content-format	Document content format (e.g. "msw8"). May be blank or same as document's file extension (e.g., 'doc').	string	N	user defined		out

Example

```
<content-format type="string">doc</content-format>
```

doc-name

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	doc-name	Specifies the new/ existing document name.	string	Y	user defined		in
Render	doc-name	Specifies the document name.	string	N	user defined		in/out
Retrieve	doc-name	Specifies the document name.	string		user defined		out

Example

```
<doc-name type="string">MyDoc.doc</doc-name>
```

doc-title

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-title	Specifies document title.	string	N	user defined		in/out
Retrieve	doc-title	Specifies document title.	string		user defined		out

Example

```
<doc-title type="string">Example User Guide</doc-title>
```

doc-subject

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-subject	Document subject if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-subject	Document subject if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-subject type="string"></doc-subject>
```

doc-author

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-author	Document author if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-author	Document author if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-author type="string"></doc-author>
```

doc-keywords

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-keywords	Document keywords if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-keywords	Document keywords if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-keywords type="string"></doc-keywords>
```

force-rendition

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
force-rendition	If force-rendition is set to '1', a rendition will be created even if one already exists. If set to '0', and the "rendition-found" parameter is set to '1', the render request will exit without creating a new rendition.	boolean	N (render-pdf, render-html) Y (render-document)	• 0 or false • 1 or true	0	in

Example

```
<force-rendition type="bool">0</force-rendition>
```

local-rendition-path

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
local-rendition-path	Specifies the output location for the PDF rendition. If supplied, the output folder path must be accessible by all repository servers in the domain, such as a shared network folder. If not supplied, an output folder path will be generated and the output will be named “rendition.pdf”. The local-rendition-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-rendition-path’ parameter in this request, the output file created will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the rendition within the same Workflow process with the Business Service Distribute.	string	N	user defined		in/out

Example

```
<local-rendition-path type="sting">C:\example\</local-rendition-path>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

rendition-found

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">
Retrieve	<request name="retrieve-rendition">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	rendition-found	Returns whether a rendition was found.	boolean	N	• 0 or false • 1 or true	0	in (render-pdf, render-html) out (render-document)
Retrieve	rendition-found	Returns whether a rendition was found.	boolean	N	• 0 or false • 1 or true	0	out

Example

```
<rendition-found type="bool">0</rendition-found>
```

output-folder

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-folder	Specifies the output folder for the PDF rendition. This parameter is only used if the local-rendition-path parameter is not provided. If both the local-rendition-path and output-folder parameters are not provided within the request, a temporary output folder path will be generated. This parameter will be set in the job ticket with the temporary folder location upon completion of the request.	string	N	user defined		in (render-pdf) in/out (render-document)

Example

```
<output-folder type="string">C:\Example\</output-folder>
```

output-name

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-name	Specifies the file name for the PDF rendition. This parameter is only used if the local-rendition-path parameter is not provided. **Note:** 1. There is no file extension on the output-name parameter value. The appropriate extension will be added when the request is being processed. 2. If both the local-rendition-path on page 441 and output-name on page 445 parameters are not provided within the request, a temporary file name `rendition.pdf` will be generated. This parameter will be set in the job ticket with the temporary file name upon completion of the request. **Note:** If this request is contained within a "workflow", and you do not specify a local-rendition-path on page 441 parameter in this request, the output file created will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must "distribute" the rendition within the same Workflow process with the Business Service Distribute	string	N	user defined	• rendition.pdf (for <request name="render-pdf">) • rendition.html (for <request name="render-html">	in
output-name		string	N	user defined		in

Example

```
<output-name type="string">rendition.pdf</output-name>
```

output-extension

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
output-extension	The file extension of the rendition. For render-pdf requests, this value is always ".pdf". This parameter is only set if the local-rendition-path parameter was not provided in the original request.	string		• .pdf (for <request name="render-pdf"> • .html (for <request name="render-html">		out

Example

```
<output-extension type="string">.pdf</output-extension>
```

pdf-version

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-version	Specifies the PDF version for the rendition. If not specified then the global default value defined by DomainManager is used.	string	N	1.4 to 1.7	Value stored in Domain Configuration	in

Example

```
<pdf-version type="string">1.7</pdf-version>
```

distribute-rendition

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
distribute-rendition	Specifies if the rendition should be distributed to DMS.	boolean	N	• 0 or false • 1 or true	1	in

Example

```
<distribute-rendition type="bool">1</distribute-rendition>
```

extraction-prefs

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
extraction-prefs	Extraction preferences for a particular content-type. Extraction preferences can differ dramatically between content types, and some content-types may not even have any extraction preferences. To configure a content-type, it is recommended that the user configures the content-type through the Domain Manager application, which is installed with InSight Rendering. If not supplied, the extraction-prefs for the specific content-type are obtained through the registry. The Domain Manager application updates the registry with the changes a user makes to a specific content-type.	string	N		Value stored in Domain Configuration	in

Example

```
<extraction-prefs type="string"></extraction-prefs>
```

transformation-prefs

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
transformation-prefs	Transformation preferences for a particular content-type. Transformation preferences can differ dramatically between content types, and some content-types may not even have any transformation preferences. To configure a content-type, it is recommended that the user configures the content-type through the Domain Manager application, which is installed with InSight Rendering. If not supplied, the transformation-prefs for the specific content-type are obtained through the registry. The Domain Manager application updates the registry with the changes a user makes to a specific content-type.	string	N		Value stored in Domain Configuration	in

Example

```
<transformation-prefs type="string"></transformation-prefs>
```

openpdfpassword

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
openpdfpassword	Applies a password to the pdf rendition that is required upon attempting to open the pdf. It is recommended that all PDF security options be set through the Business Service PDFFile.	string	N	user defined		in

Example

```
<openpdfpassword type="string">abc</openpdfpassword>
```

changesecuritypassword

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
changesecuritypassword	Applies a password to the pdf rendition security administration. It is recommended that all PDF security options be set through the Business Service PDFFile.	string	N	user defined		in

Example

```
<changesecuritypassword type="string">abc</changesecuritypassword>
```

optimizepublication

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
optimizepublication	Even though the type of the parameter is 'string', the parameter value must be either a 0 or 1, indicating false (0) or true (1). A value of 0 indicates that the publication will not be optimized. A value of 1 indicates that the publication will be optimized. If this parameter is not supplied, the default is set to 1 (true).	string	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<optimizepublication type="string">1</optimizepublication>
```

disallownotes

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
disallownotes	Turns on or off the ability to allow notes within the PDF rendition. It is recommended that all PDF security options be set through the Business Service PDFFile. Even though the type of the parameter is 'string', the parameter value must be either a 0 or 1, indicating false (0) or true (1). A value of 0 indicates that the "allow-notes" option of the PDF rendition will be turned off. A value of 1 indicates that the "allow-notes" option of the PDF rendition will be turned on.	string	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<disallownotes type="string">0</disallownotes>
```

disallowchanges

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
disallowchanges	Turns on or off the ability to allow changes within the PDF rendition. It is recommended that all PDF security options be set through the Business Service PDFFile. Even though the type of the parameter is 'string', the parameter value must be either a 0 or 1, indicating false (0) or true (1). A value of 0 indicates that the "allow-changes" option of the PDF rendition will be turned off. A value of 1 indicates that the "allow-changes" option of the PDF rendition will be turned on.	string	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<disallowchanges type="string">0</disallowchanges>
```

disallowprinting

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
disallowprinting	Turns on or off the ability to allow printing within the PDF rendition. It is recommended that all PDF security options be set through the Business Service PDFFile. Even though the type of the parameter is 'string', the parameter value must be either a 0 or 1, indicating false (0) or true (1). A value of 0 indicates that the "allow-printing" option of the PDF rendition will be turned off. A value of 1 indicates that the "allow-printing" option of the PDF rendition will be turned on.	string	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<disallowprinting type="string">0</disallowprinting>
```

disallowselection

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
disallowselection	Turns on or off the ability to allow selection within the PDF rendition. It is recommended that all PDF security options be set through the Business Service PDFFile. Even though the type of the parameter is 'string', the parameter value must be either a 0 or 1, indicating false (0) or true (1). A value of 0 indicates that the "allow-selection" option of the PDF rendition will be turned off. A value of 1 indicates that the "allow-selection" option of the PDF rendition will be turned on.	string	n	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<disallowselection type="string">0</disallowselection>
```

pdf-bookmarks-on-open

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-bookmarks-on-open	Specifies whether the bookmark pane should display when the PDF file is opened. If not specified then the global default value defined by DomainManager is used. Will be superceded by "pdf-page-mode" if that parameter is used. The parameter should be set to "1" (true) or "0" (false).	string	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-bookmarks-on-open type="string">0</pdf-bookmarks-on-open>
```

pdf-bookmark-panel-when-none

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-bookmark-panel-when-none	Specifies if bookmark panel should be visible if no bookmarks present in the pdf document. Default value is false.	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-bookmark-panel-when-none type="bool">0</pdf-bookmark-panel-when-none>
```

pdf-bookmark-level-on-open

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-bookmark-level-on-open	Specifies nesting level where bookmarks are opened. Should be -1 or greater than zero.	long	N	• Open all: -1 • Open to level: >=1	Value stored in Domain Configuration	in

Example

```
<pdf-bookmark-level-on-open type="long">-1</pdf-bookmark-level-on-open>
```

pdf-delete-blank-bookmarks

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-delete-blank-bookmarks	Specifies wheter blank bookmarks should be deleted from rendition. If true child bookmarks of a blank bookmark will move up to the root until non-blank bookmark appears. That non-blank bookmark will be new parent on that child bookmark. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-delete-blank-bookmarks type="bool">1</pdf-delete-blank-bookmarks>
```

font-embedding

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
font-embedding	Specifies how font embedding should be applied. Default value is taken from Domain Manager configuration.	long	N	• 0 - no embedding • 1 - embedding subset. • 2 - full embedding.	Value stored in Domain Configuration	in

Example

```
<font-embedding type="long">0</font-embedding>
```

pdf-page-layout

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-page-layout	Specifies page layout of the pdf rendition. Default value is taken from Domain Manager configuration. Acceptable values are:	long	N	• 0 - default. PDF viewer's option is used • 1 - single page • 2 - one column • 3 - two columns left • 4 - two columns right	Value stored in Domain Configuration	in

Example

```
<pdf-page-layout type="long">2</pdf-page-layout>
```

pdf-page-mode

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-page-mode	Specifies page mode of the pdf rendition. Supercedes parameter "pdf-bookmark-on-open". Default value is taken from Domain Manager configuration. Acceptable values are:	long	N	• 0 - no bookmark/ thumbnails pane is shown • 1 - bookmark pane is shown • 2 - thumbnails pane is shown	Value stored in Domain Configuration	in

Example

```
<pdf-page-mode type="long">1</pdf-page-mode>
```

pdf-magnification

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-magnification	Specifies page magnification of the pdf rendition. Default value is taken from Domain Manager configuration.	long	N	• 0 - default. PDF viewer's option is used. • 1 - actual size • 2 - fit page • 3 - fit height • 4 - fit width • 5 - fit visible • 6 - zoom 25% • 7 - zoom 50% • 8 - zoom 75% • 9 - zoom 100% • 10 - zoom 125% • 11 - zoom 150% • 12 - zoom 200% • 13 - zoom 400% • 14 - zoom 800%	Value stored in Domain Configuration	in

Example

```
<pdf-magnification type="long">4</pdf-magnification>
```

pdf-hide-menubar

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-hide-menubar	Specifies whether to hide the viewer application's menu bar when the document is active. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-hide-menubar type="bool">0</pdf-hide-menubar>
```

pdf-hide-toolbar

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-hide-toolbar	Specifies whether to hide the viewer application's tool bars when the document is active. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-hide-toolbar type="bool">0</pdf-hide-toolbar>
```

pdf-hide-window-controls

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-hide-window-controls	Specifies whether to hide user interface elements in the document's window (such as scroll bars and navigation controls), leaving only the document's contents displayed. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-hide-window-controls type="bool">0</pdf-hide-window-controls>
```

pdf-fit-window

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-fit-window	Specifies whether to resize the document's window to fit the size of the first displayed page. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-fit-window type="bool">0</pdf-fit-window>
```

pdf-center-window

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-center-window	Specifies whether to position the document's window in the center of the screen. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-center-window type="bool">0</pdf-center-window>
```

pdf-display-doc-title

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-display-doc-title	Specifies whether the window's title bar should display the document title taken from the Title entry of the document. If false, the title bar should instead display the name of the PDF file containing the document. Default value is taken from Domain Manager configuration and initially set to "false".	boolean	N	• 0 or false • 1 or true	Value stored in Domain Configuration	in

Example

```
<pdf-display-doc-title type="bool">0</pdf-display-doc-title>
```

pdf-remote-window

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pdf-remote-window	Specifies whether cross-document links are opened in the same window.	string	N	• inherit - Open cross-document link target documents as defined by the option set up in the PDF Viewer application. In the case of Adobe Acrobat, the value in the **Edit** > **Preferences** > **Documents** category, **Open cross-document links in same window** checkbox. • new - Open cross-document links in a new window. • same - Open cross-document links in the same window.	Value stored in Domain Configuration	in

Example

```
<pdf-remote-window type="string">new</pdf-remote-window>
```

Retrieve

retrieve-document

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS “URL” of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">

Business Service Element	Business Service Request
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

content-type

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		in
Retrieve	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		• in/out (retreive-document, retrieve-rendition, retrieve-queued-document) • out (retrieve-next-queued-job)

Example

```
<content-type type="string">.doc</content-type>
```

content-format

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="render-document"> <request name="render-queued-document"> <request name="render-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	content-format	Document content format (e.g. "msw8"). May be blank or same as document's file extension (e.g., 'doc').	string	N	user defined		in/out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	content-format	Document content format (e.g. “msw8”). May be blank or same as document’s file extension (e.g., ‘doc’).	string	N	user defined		out

Example

```
<content-format type="string">doc</content-format>
```

doc-name

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	doc-name	Specifies the new/ existing document name.	string	Y	user defined		in
Render	doc-name	Specifies the document name.	string	N	user defined		in/out
Retrieve	doc-name	Specifies the document name.	string		user defined		out

Example

```
<doc-name type="string">MyDoc.doc</doc-name>
```

doc-title

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-title	Specifies document title.	string	N	user defined		in/out
Retrieve	doc-title	Specifies document title.	string		user defined		out

Example

```
<doc-title type="string">Example User Guide</doc-title>
```

doc-subject

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-subject	Document subject if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-subject	Document subject if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-subject type="string"></doc-subject>
```

doc-author

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-author	Document author if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-author	Document author if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-author type="string"></doc-author>
```

doc-keywords

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-keywords	Document keywords if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-keywords	Document keywords if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-keywords type="string"></doc-keywords>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

logins

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
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Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
logins	Contains the list of 'login' elements and attributes.	xml	N			in

Example

```
<logins>
    <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

login

Contained By

Business Service XML Element
logins on page 511

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
login	Specifies login parameters.	xml	N			in

login Attributes

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
what	Specifies the DMS to apply login credentials	string	N			in
user	Specifies the user name.	string	N			in
password	Specifies the users password.	string	N			in

Example

```
<login what="dms://dctm/docbase" user="user" password="password"/>
```

retrieve-documents

folder-URL

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-documents"> <request name="retrieve-document-list">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
folder-URL	Specifies the folder whose documents are to be retrieved. String value containing the DMS “URL” of the source folder.	string	Y	user defined		in

Example

```
<folder-URL type="string">dms://dctm/docbase/documents?type=2</folder-URL>
```

local-folder

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-documents">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
local-folder	Specifies where the source documents are to be copied. If not supplied, a temporary folder location will be generated. The local-folder parameter will be set in the job ticket with the temporary folder location upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-folder’ parameter in this request, the temporary output folder created by the local-folder parameter will be deleted upon completion of the workflow, including all files saved to this folder. To keep the output folder beyond the workflow completion, you must “distribute” the folder within the same Workflow process with the Business Service Distribute.	string	N	user defined		in/out

Example

```
<local-folder type="string"></local-folder>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

logins

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
login on page 511

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
logins	Contains the list of 'login' elements and attributes.	xml	N			in

Example

```
<logins>
    <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

login

Contained By

Business Service XML Element
logins on page 511

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
login	Specifies login parameters.	xml	N			in

login Attributes

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
what	Specifies the DMS to apply login credentials	string	N			in
user	Specifies the user name.	string	N			in
password	Specifies the users password.	string	N			in

Example

```
<login what="dms://dctm/docbase" user="user" password="password"/>
```

documents

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-documents">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
documents	Lists the retrieve files. XML value containing a list of retrieved files where each file node specifies the source document's URL, source document location, local path where document retrieved and content type.	xml				out

Example

```
<documents type="xml">
  <files>
    <file>
      <URL> dms://dctm/docbase/documents</URL>
      <local-path>C:\temp\aaaa.tmp.doc</local-path>
      <content-type>doc</content-type>
    </file>
  </files>
</documents>
```

document-count

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-documents">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
document-count	The number of documents that are listed in the “documents” xml output parameter.	integer				out

Example

```
<document-count type="integer"></document-count>
```

retrieve-document-list

folder-URL

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-documents"> <request name="retrieve-document-list">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
folder-URL	Specifies the folder whose documents are to be retrieved. String value containing the DMS “URL” of the source folder.	string	Y	user defined		in

Example

```
<folder-URL type="string">dms://dctm/docbase/documents?type=2</folder-URL>
```

filter

Contained By

Business Service Element	Business Service Request
Queue	<request name="list-queued-files">
Retrieve	<request name="retrieve-document-list"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Queue	filter	Specifies any filtering criteria based upon file types (i.e. extensions) to be applied during the query. When a filter is applied, the only files that will be listed are those that match the type of file specified in the filter.	string	N	user defined		in
Retrieve	filter	Currently, this only supports Documentum query expressions.	string	N	user defined		in

Example

```
<filter type="string">.docx</filter>
```

include-subfolders

Contained By

Business Service Element	Business Service Request
File	<request name="delete-folder-contents">
Retrieve	<request name="retrieve-document-list">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	include-subfolders	Used to determine whether subfolders are deleted or not.	boolean	N	• 0 or false, the sub-folders will not be deleted. • 1 or true, the sub-folder will be deleted.	0	in
Retrieve	include-subfolders	Indicates whether to search subfolders. Output hierarchy will be flat.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<include-subfolders type="bool">0</include-subfolders>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

logins

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
login on page 511

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
logins	Contains the list of 'login' elements and attributes.	xml	N			in

Example

```
<logins>
    <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

login

Contained By

Business Service XML Element
logins on page 511

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
login	Specifies login parameters.	xml	N			in

login Attributes

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
what	Specifies the DMS to apply login credentials	string	N			in
user	Specifies the user name.	string	N			in
password	Specifies the users password.	string	N			in

Example

```
<login what="dms://dctm/docbase" user="user" password="password"/>
```

list

Contained By

Business Service Element	Business Service Request
Queue	<request name="list-queued-files">
Retrieve	<request name="retrieve-document-list">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Queue	list	The output of the list-queue-files request. For each file that matches the supplied filter (if any), there will be a “file” xml structure entry in the list xml tree.	xml				out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	list	On completion of the request this will contain the list of documents found in the folder-URL path, as shown in the example below.	xml				out

Queue Example

```
<list type="xml">
  <files>
    <file>
      <path>C:\Queue\Folder\File1.doc</path>
      <name>File1.doc</name>
      <ext>.doc</ext>
      <dir>C:\Queue\Folder</dir>
    </file>
  </files>
</list>
```

Retrieve Example

```
<list type="xml">
   <documents type="xml">
      <document path="FolderName">
        <URL> dms://dctm/docbase/docrefid </URL>
        <doc-loc>dms://dctm/docbase/docrefid</doc-loc>
        <content-type>doc</content-type>
        <name>Document2</name>
      </document>
   </documents>
</list>
```

list-count

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document-list">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
list-count	The number of documents that were obtained as a result of the request.	integer				out

Example

```
<list-count type="integer">5</list-count>
```

retrieve-folder

folder-URL

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-folder" tag="task-0">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
folder-URL	Specifies the folders to be retrieved. String value containing the DMS “URL” of the source folder.	string	Y	user defined		in

Example

```
<folder-URL type="string">file://servername/--foldername/! EAEU/! Demo/Published
output?type=2</folder-URL>
```

include-subfolders

Contained By

Business Service Element	Business Service Request
File	<request name="retrieve-folder" tag="task-0">
Retrieve	<include-subfolders type="bool">1</include-subfolders>

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	include-subfolders	Used to determine whether subfolders are included or not.	boolean	N	• 0 or false, the sub-folders will not be included. • 1 or true, the sub-folder will be included.	0	in
Retrieve	include-subfolders	Indicates whether to search subfolders. Output hierarchy will be flat.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<request name="retrieve-folder" tag="task-0">
<folder-URL type="string">file://servername/foldername/--foldername/! EAEU/! Demo/
Published output?type=2</folder-URL>
<include-subfolders type="bool">1</include-subfolders>
</request>
</retrieve>
```

retrieve-rendition

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS “URL” of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

rendition-URL

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-rendition">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
rendition-URL	Specifies the document that is the rendition of the source document. If this document is specified then it will be retrieved as the rendition. Otherwise, rendition-format will determine which rendition of URL to retrieve	string	N	user defined		in

Example

```
<rendition-URL type="string">dms://dctm/docbase/09015bda80069c9c?
versionid=09015bda80069c9c</rendition-URL>
```

rendition-format

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-rendition">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	rendition-format	Rendition format. Only 'pdf' format is supported.	string	Y	pdf	pdf	in
Retrieve	rendition-format	Specifies the format of the rendition to be retrieved if rendition-URL is not specified.	string	Y			in

Example

```
<rendition-format type="string">pdf</rendition-format>
```

local-rendition-path

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-rendition">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
local-rendition-path	Specifies where the source document rendition is to be copied. If not supplied, a temporary folder location and file name will be generated. The local-rendition-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a "workflow", and you do not specify a 'local-rendition-path' parameter in this request, the temporary output file created by the local-rendition-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must "distribute" the retrieved document within the same Workflow process with Business Service Distribute.	string	N	user defined		in/out

Example

```
<local-rendition-path type="string"></local-rendition-path>
```

content-type

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		in
Retrieve	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		• in/out (retreive-document, retrieve-rendition, retrieve-queued-document) • out (retrieve-next-queued-job)

Example

```
<content-type type="string">.doc</content-type>
```

doc-name

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	doc-name	Specifies the new/ existing document name.	string	Y	user defined		in
Render	doc-name	Specifies the document name.	string	N	user defined		in/out
Retrieve	doc-name	Specifies the document name.	string		user defined		out

Example

```
<doc-name type="string">MyDoc.doc</doc-name>
```

doc-title

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-title	Specifies document title.	string	N	user defined		in/out
Retrieve	doc-title	Specifies document title.	string		user defined		out

Example

```
<doc-title type="string">Example User Guide</doc-title>
```

doc-subject

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-subject	Document subject if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-subject	Document subject if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-subject type="string"></doc-subject>
```

doc-author

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-author	Document author if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-author	Document author if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-author type="string"></doc-author>
```

doc-keywords

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-keywords	Document keywords if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-keywords	Document keywords if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-keywords type="string"></doc-keywords>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

logins

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
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Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
logins	Contains the list of 'login' elements and attributes.	xml	N			in

Example

```
<logins>
    <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

login

Contained By

Business Service XML Element
logins on page 511

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
login	Specifies login parameters.	xml	N			in

login Attributes

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
what	Specifies the DMS to apply login credentials	string	N			in
user	Specifies the user name.	string	N			in
password	Specifies the users password.	string	N			in

Example

```
<login what="dms://dctm/docbase" user="user" password="password"/>
```

rendition-found

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">
Retrieve	<request name="retrieve-rendition">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	rendition-found	Returns whether a rendition was found.	boolean	N	• 0 or false • 1 or true	0	in (render-pdf, render-html) out (render-document)

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	rendition-found	Returns whether a rendition was found.	boolean	N	• 0 or false • 1 or true	0	out

Example

```
<rendition-found type="bool">0</rendition-found>
```

rendition-must-exist

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-rendition">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
rendition-must-exist	Specifies whether document's rendition must exist.	boolean	N	• 0 or false • 1 or true	0	in

Example

```
<rendition-must-exist type="bool">0</rendition-must-exist>
```

retrieve-properties

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS “URL” of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">

Business Service Element	Business Service Request
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

logins

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
login on page 511

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
logins	Contains the list of 'login' elements and attributes.	xml	N			in

Example

```
<logins>
    <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

login

Contained By

Business Service XML Element
logins on page 511

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
login	Specifies login parameters.	xml	N			in

login Attributes

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
what	Specifies the DMS to apply login credentials	string	N			in
user	Specifies the user name.	string	N			in
password	Specifies the users password.	string	N			in

Example

```
<login what="dms://dctm/docbase" user="user" password="password"/>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

file-properties

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-properties">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
file-properties	On completion of the request this will contain the list of file properties in the following format.	xml				out

Example

```
<file-properties type="xml">
   <file-properties type="xml">
      <properties>
          <property>
                 <name>xxxxxx</name>
                 <value>xxxxxx</value>
          </property>
      </properties>
   </file-properties>
</file-properties>
```

dms-properties

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-properties">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dms-properties	On completion of the request this will contain the list of DMS properties in the format displayed in the example below.	xml				out

Example

```
<dms-properties type="xml">
   <dms-properties type="xml">
       <properties>
          <property>
                 <name>xxxxxx</name>
                 <value>xxxxxx</value>
          </property>
       </properties>
   </dms-properties>
</dms-properties>
```

retrieve-queued-document

URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder"> <request name="distribute-folder-properties"> <request name="distribute-document-properties">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	URL	Specifies the document or folder that is: • getting the rendition • being created • being distributed • being moved • being copied • being submitted to the queue • distributing properties	string	Y	user defined		in
Render	URL	Specifies the DMS URL of the source document to be rendered.	string	Y	user defined		in
Retrieve	URL	Specifies document to be retrieved. String value containing the DMS “URL” of the source document.	string	Y	user defined		in

Example

```
<URL type="string">file://c/my documents/hello world.doc</URL>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">

Business Service Element	Business Service Request
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

dequeue-subfolder

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-queued-document">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dequeue-subfolder	Specifies the subfolder of where the source document is to be dequeued.	string	Y	user defined		in

Example

```
<dequeue-subfolder type="string">C:\MyDocuments\</dequeue-subfolder>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

content-type

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		in
Retrieve	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		• in/out (retreive-document, retrieve-rendition, retrieve-queued-document) • out (retrieve-next-queued-job)

Example

```
<content-type type="string">.doc</content-type>
```

content-format

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="render-document"> <request name="render-queued-document"> <request name="render-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	content-format	Document content format (e.g. “msw8”). May be blank or same as document’s file extension (e.g., ‘doc’).	string	N	user defined		in/out
Retrieve	content-format	Document content format (e.g. “msw8”). May be blank or same as document’s file extension (e.g., ‘doc’).	string	N	user defined		out

Example

```
<content-format type="string">doc</content-format>
```

doc-name

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	doc-name	Specifies the new/ existing document name.	string	Y	user defined		in
Render	doc-name	Specifies the document name.	string	N	user defined		in/out
Retrieve	doc-name	Specifies the document name.	string		user defined		out

Example

```
<doc-name type="string">MyDoc.doc</doc-name>
```

doc-title

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-title	Specifies document title.	string	N	user defined		in/out
Retrieve	doc-title	Specifies document title.	string		user defined		out

Example

```
<doc-title type="string">Example User Guide</doc-title>
```

doc-subject

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-subject	Document subject if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-subject	Document subject if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-subject type="string"></doc-subject>
```

doc-author

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-author	Document author if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-author	Document author if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-author type="string"></doc-author>
```

doc-keywords

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-keywords	Document keywords if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-keywords	Document keywords if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-keywords type="string"></doc-keywords>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

logins

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
login on page 511

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
logins	Contains the list of 'login' elements and attributes.	xml	N			in

Example

```
<logins>
    <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

login

Contained By

Business Service XML Element
logins on page 511

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
login	Specifies login parameters.	xml	N			in

login Attributes

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
what	Specifies the DMS to apply login credentials	string	N			in
user	Specifies the user name.	string	N			in
password	Specifies the users password.	string	N			in

Example

```
<login what="dms://dctm/docbase" user="user" password="password"/>
```

dequeued

Contained By

Business Service Element	Business Service Request
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">
Retrieve	<request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Queue	dequeued	Specifies whether or not the dequeue-file request completed successfully. A value of '1' indicates that the request successfully dequeued the file. A value of '0' indicates that the request failed to dequeue the file either because the file did not exist or there was a processing error.	boolean		• 0 or false • 1 or true		out
Retreive	dequeued	Specifies whether document was dequeued.	boolean		• 0 or false • 1 or true		out

Example

```
<dequeued type="bool">1</dequeued>
```

dequeued-URL

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dequeued-URL	The location of the dequeued document.	string				out

Example

```
<dequeued-URL type="string">dms://dctm/docbase/09015bda80069c9e?
versionid=09015bda80069c9e</dequeued-URL>
```

retrieve-next-queued-job

queue-URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-queue">
Retreive	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	queue-URL	Specifies the DMS URL of the queue where the document will be submitted.	string	N	user defined		in
Retrieve	queue-URL	Specifies the URL to the queued object.	string	Y	user defined		in

Example

```
<queue-URL type="string">dms://dctm/queue?type=4</queue-URL>
```

filter

Contained By

Business Service Element	Business Service Request
Queue	<request name="list-queued-files">
Retrieve	<request name="retrieve-document-list"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Queue	filter	Specifies any filtering criteria based upon file types (i.e. extensions) to be applied during the query. When a filter is applied, the only files that will be listed are those that match the type of file specified in the filter.	string	N	user defined		in
Retrieve	filter	Currently, this only supports Documentum query expressions.	string	N	user defined		in

Example

```
<filter type="string">.docx</filter>
```

queue-item-id

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
queue-item-id	Queue item id. Documentum query parameter.	string	N	user defined		out

Example

```
<queue-item-id type="string"></queue-item-id>
```

queue-item-status

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
queue-item-status	Queue item status. Documentum query parameter.	string	N	user defined		in

Example

```
<queue-item-status type="string"></queue-item-status>
```

queue-item-message

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
queue-item-message	Queue item message. Documentum query parameter.	string	N	user defined		in

Example

```
<queue-item-message type="string"></queue-item-message>
```

local-path

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="append-tab-file"> <request name="set-initial-links"> <request name="make-pdfa-compliant">
Printer	<request name="generate-printer-output">
Render	<request name="render-pdf">
Retrieve	<request name="retrieve-document"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	local-path	Specifies the: • rendition file path • file path of new version • file path of new document • path of the file to be used as new document or new version of existing document • path of the local file to be distributed	string	Y	user defined		in
IPLinkSetter	local-path	Specifies the: • file being copied • pdf document to which bookmarks will be added	string	Y	user defined		in
MSWord	local-path	Specifies the output file path. If not specified will be randomly generated.	string	N	user defined		in/out
PDFFile	local-path	Specifies the PDF file path.	string	N	user defined		in
Printer	local-path	Specifies the local path of the PDF file.	string	Y	user defined		in
Render	local-path	Specifies path of the source document to be rendered.	string	Y	user defined		in
Retrieve	local-path	Specifies path of the source document to be copied. If not supplied, a temporary folder location and file name will be generated. The local-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request. **Note:** If this request is contained within a “workflow”, and you do not specify a ‘local-path’ parameter in this request, the output file created by the local-path parameter will be deleted upon completion of the workflow. To keep the output file beyond the workflow completion, you must “distribute” the retrieved document within the same Workflow process with the Business Service Distribute.	string	Y	user defined		in/out

Example

```
<local-path type="string">c:\temp\rd5.tmp.xml</local-path>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

logins

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
login on page 511

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
logins	Contains the list of 'login' elements and attributes.	xml	N			in

Example

```
<logins>
    <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

login

Contained By

Business Service XML Element
logins on page 511

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
login	Specifies login parameters.	xml	N			in

login Attributes

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
what	Specifies the DMS to apply login credentials	string	N			in
user	Specifies the user name.	string	N			in
password	Specifies the users password.	string	N			in

Example

```
<login what="dms://dctm/docbase" user="user" password="password"/>
```

dequeued-URL

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dequeued-URL	The location of the dequeued document.	string				out

Example

```
<dequeued-URL type="string">dms://dctm/docbase/09015bda80069c9e?
versionid=09015bda80069c9e</dequeued-URL>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">

Business Service Element	Business Service Request
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

dequeued

Contained By

Business Service Element	Business Service Request
Queue	<request name="dequeue-file"> <request name="dequeue-next-file">
Retrieve	<request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Queue	dequeued	Specifies whether or not the dequeue-file request completed successfully. A value of '1' indicates that the request successfully dequeued the file. A value of '0' indicates that the request failed to dequeue the file either because the file did not exist or there was a processing error.	boolean		• 0 or false • 1 or true		out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retreive	dequeued	Specifies whether document was dequeued.	boolean		• 0 or false • 1 or true		out

Example

```
<dequeued type="bool">1</dequeued>
```

content-type

Contained By

Business Service Element	Business Service Request
Render	<request name="render-pdf"> <request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		in
Retrieve	content-type	Document content type. If not specified then will be set to the document's file extension.	string	N	user defined		• in/out (retreive-document, retrieve-rendition, retrieve-queued-document) • out (retrieve-next-queued-job)

Example

```
<content-type type="string">.doc</content-type>
```

content-format

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="render-document"> <request name="render-queued-document"> <request name="render-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	content-format	Document content format (e.g. “msw8”). May be blank or same as document’s file extension (e.g., ‘doc’).	string	N	user defined		in/out
Retrieve	content-format	Document content format (e.g. “msw8”). May be blank or same as document’s file extension (e.g., ‘doc’).	string	N	user defined		out

Example

```
<content-format type="string">doc</content-format>
```

doc-name

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-new"> <request name="distribute-new-or-version">
Render	<request name="render-document">

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	doc-name	Specifies the new/ existing document name.	string	Y	user defined		in
Render	doc-name	Specifies the document name.	string	N	user defined		in/out
Retrieve	doc-name	Specifies the document name.	string		user defined		out

Example

```
<doc-name type="string">MyDoc.doc</doc-name>
```

doc-title

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-title	Specifies document title.	string	N	user defined		in/out
Retrieve	doc-title	Specifies document title.	string		user defined		out

Example

```
<doc-title type="string">Example User Guide</doc-title>
```

doc-subject

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-subject	Document subject if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-subject	Document subject if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-subject type="string"></doc-subject>
```

doc-author

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-author	Document author if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-author	Document author if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-author type="string"></doc-author>
```

doc-keywords

Contained By

Business Service Element	Business Service Request
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	doc-keywords	Document keywords if Documentum document, otherwise blank.	string	N	user defined		in/out
Retrieve	doc-keywords	Document keywords if Documentum document, otherwise blank.	string		user defined		out

Example

```
<doc-keywords type="string"></doc-keywords>
```

name

Contained By

Business Service Element	Business Service Request
IPFusion	<request name="publish"> <request name="volumize-by-size">
IPLinkSetter	<request name="resolve-links">
Retrieve	<request name="retrieve-next-queued-job">
Business Service XML Element	
simple-attribute on page 143, dynamic-attribute on page 146, style on page 253, property on page 317	

Contains

Business Service XML Element
N/A

Business Service XML Element

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
IPFusion	name	Specifies the attribute name.	string	N	user defined		in
IPLinkSetter	name	Specifies link style test.	string	N	user defined		in

Business Service Element	Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	name	Specifies the name of the property.	string	Y	user defined		in
Retrieve	name	Specifies the name of the source document that was dequeued.	string				out

Example

```
<name type="string">DTE</name>
```

fail-dequeued-job

queue-URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-queue">
Retreive	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	queue-URL	Specifies the DMS URL of the queue where the document will be submitted.	string	N	user defined		in
Retrieve	queue-URL	Specifies the URL to the queued object.	string	Y	user defined		in

Example

```
<queue-URL type="string">dms://dctm/queue?type=4</queue-URL>
```

dequeued-URL

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dequeued-URL	The location of the dequeued document.	string				out

Example

```
<dequeued-URL type="string">dms://dctm/docbase/09015bda80069c9e?
versionid=09015bda80069c9e</dequeued-URL>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">

Business Service Element	Business Service Request
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

logins

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
login on page 511

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
logins	Contains the list of 'login' elements and attributes.	xml	N			in

Example

```
<logins>
    <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

login

Contained By

Business Service XML Element
logins on page 511

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
login	Specifies login parameters.	xml	N			in

login Attributes

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
what	Specifies the DMS to apply login credentials	string	N			in
user	Specifies the user name.	string	N			in
password	Specifies the users password.	string	N			in

Example

```
<login what="dms://dctm/docbase" user="user" password="password"/>
```

queue-item-id

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
queue-item-id	Queue item id. Documentum query parameter.	string	N	user defined		out

Example

```
<queue-item-id type="string"></queue-item-id>
```

queue-item-status

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
queue-item-status	Queue item status. Documentum query parameter.	string	N	user defined		in

Example

```
<queue-item-status type="string"></queue-item-status>
```

queue-item-message

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
queue-item-message	Queue item message. Documentum query parameter.	string	N	user defined		in

Example

```
<queue-item-message type="string"></queue-item-message>
```

complete-dequeued-job

queue-URL

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-queue">
Retreive	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-queued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute	queue-URL	Specifies the DMS URL of the queue where the document will be submitted.	string	N	user defined		in
Retrieve	queue-URL	Specifies the URL to the queued object.	string	Y	user defined		in

Example

```
<queue-URL type="string">dms://dctm/queue?type=4</queue-URL>
```

dequeued-URL

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dequeued-URL	The location of the dequeued document.	string				out

Example

```
<dequeued-URL type="string">dms://dctm/docbase/09015bda80069c9e?
versionid=09015bda80069c9e</dequeued-URL>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

logins-data

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-folder">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, Render, Retrieve	login-data	Specifies one or more DMS logins to be used for accessing DMS repositories. This parameter is only required if you do not specify the login information in Domain Manager and the Docbase requires a user/password.	xml	N	user defined		in

Example

```
<logins>
   <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

logins

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-document"> <request name="retrieve-documents"> <request name="retrieve-document-list"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
login on page 511

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
logins	Contains the list of 'login' elements and attributes.	xml	N			in

Example

```
<logins>
    <login what="dms://dctm/docbase" user="user" password="password"/>
</logins>
```

login

Contained By

Business Service XML Element
logins on page 511

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
login	Specifies login parameters.	xml	N			in

login Attributes

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
what	Specifies the DMS to apply login credentials	string	N			in
user	Specifies the user name.	string	N			in
password	Specifies the users password.	string	N			in

Example

```
<login what="dms://dctm/docbase" user="user" password="password"/>
```

queue-item-id

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
queue-item-id	Queue item id. Documentum query parameter.	string	N	user defined		out

Example

```
<queue-item-id type="string"></queue-item-id>
```

queue-item-status

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
queue-item-status	Queue item status. Documentum query parameter.	string	N	user defined		in

Example

```
<queue-item-status type="string"></queue-item-status>
```

queue-item-message

Contained By

Business Service Element	Business Service Request
Retrieve	<request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
queue-item-message	Queue item message. Documentum query parameter.	string	N	user defined		in

Example

```
<queue-item-message type="string"></queue-item-message>
```

Watermark

watermark-pdf

output-path

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file">
IPFusion	<request name="publish"> <request name="volumize-by-size">
PDFFile	<request name="set-security">
Render	<request name="render-pdf">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	output-path	Where a file was: • moved • copied	string		user defined		out
IPFusion, PDFFile	output-path	Specifies output folder path. If not specified then temporary folder will be created.	string	N	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Render	output-path	Specifies the output path for the PDF rendition. This parameter is only used if the local-rendition-path on page 441 parameter is not provided. If both the local-rendition-path and output-folder parameters are not provided within the request, a temporary output folder path will be generated. This parameter will be set in the job ticket with the temporary folder location upon completion of the request.	string		user defined		out
Watermark	output-path	Specifies the output file name of the resulting watermarked pdf. If not supplied, a temporary file name and path will be generated. The output-path parameter will be set in the job ticket with the temporary file location and name upon completion of the request, if not provided in the original request.	string	N	user defined		in

Example

```
<output-path type="string">C:\Output</output-path>
```

source-document

Contained By

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">
Business Service XML Element	
file on page 152	

Contains

Business Service XML Element
N/A

Business Service XML Element

Name	Description	Value Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
source-document	Specifies the file's path.	string	Y	user defined	N/A	in

Example

```
<source-document type="string">c:\Document\File.pdf</source-document>
```

doc-loc

Contained By

Business Service Element	Business Service Request
Distribute	<request name="distribute-rendition"> <request name="distribute-version"> <request name="distribute-new"> <request name="distribute-new-or-version"> <request name="distribute-move"> <request name="distribute-copy"> <request name="distribute-queue"> <request name="distribute-document-properties">
IPLinkSetter	<request name="resolve-links"> <request name="create-bookmarks">
MSWord	<request name="generate-toc">
PDFFile	<request name="set-security"> <request name="set-docinfo"> <request name="get-docinfo"> <request name="set-version"> <request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all"> <request name="set-initial-links">
Render	<request name="render-document">
Retrieve	<request name="retrieve-document"> <request name="retrieve-rendition"> <request name="retrieve-properties"> <request name="retrieve-queued-document"> <request name="retrieve-next-queued-job"> <request name="fail-dequeued-job"> <request name="complete-dequeued-job">

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
Distribute, IPLinkSetter, MSWord	doc-loc	Specifies document location.	string	N	user defined		in
PDFFile	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string	N	user defined		in
Render	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, local-path on page 14 will be used.	string		user defined		out
Retrieve	doc-loc	Specifies a user-friendly description of the document being retrieved. This can be passed to subsequent business services for use in error messages when an error occurs.	string		user defined		out
Watermark	doc-loc	Specifies a user-friendly description of the PDF file. If specified, will be used in error messages when an error occurs. If not specified, source-document on page 160 will be used.	string	N	user defined		in

Example

```
<doc-loc type="string"></doc-loc>
```

text

Contained By

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
text	Specifies the text of the watermark.	string	Y	user defined		in

Example

```
<text type="string">Sample</text>
```

intensity

Contained By

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
intensity	Specifies the intensity of the watermark text. Must be 0 to 99. 1 – 99 are intensities of grey with 1 being the lightest and 99 being the darkest. A non-zero intensity will stroke and fill the text with the specified grey. An intensity of zero will create 'hollow' text with a black stroke.	integer	Y	0 to 99		in

Example

```
<intensity type="integer">10</intensity>
```

position

Contained By

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
position	Specifies the position of the watermark.	integer	Y		• 0 - Left Edge • 1 - Right Edge • 2 - Top Edge • 3 - Bottom Edge • 4 - Top Left to Bottom Right • 5 - Bottom Left to Top Right • 6 - Centered on Page	in

Example

```
<position type="integer">4</position>
```

font-name

Contained By

Business Service Element	Business Service Request
PDFFile	<request name="generate-tab-file"> <request name="append-tab-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
PDFFile	font-name	Specifies the name of the system font the tab text is to be set in. The font must be present on the Vista Server hosting the Business Service PDFFile.	string	Y	user defined		in
Watermark	font-name	Specifies the font of the watermark.	string	N	user defined		in

Example

```
<font-name type="string">Arial</font-name>
```

password

Contained By

Business Service Element	Business Service Request
File	<request name="move-file"> <request name="copy-file"> <request name="delete-file"> <request name="delete-folder"> <request name="delete-folder-contents"> <request name="get-file-size">
FTP	<request name="send-file"> <request name="send-folder">
PDFFile	<request name="extract-links"> <request name="extract-bookmarks"> <request name="extract-pagecount"> <request name="extract-all">
Queue	<request name="list-queued-files"> <request name="dequeue-file"> <request name="dequeue-next-file">
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
FTP	password	Specifies the password to use to log in to the FTP server if the user being logged in requires a password. Passwords are case-sensitive.	string	Y	user defined		in
PDFFile, Watermark	password	Specifies the PDF file password.	string	N	user defined		in
Queue	password	Specifies the password that will be used to log in to the file system. This parameter is only required if you do not specify the login information in Domain Manager.	string	N	user defined		in

Example

```
<password type="string">abc</password>
```

pagecount

Contained By

Business Service Element	Business Service Request
Watermark	<request name="watermark-pdf">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
pagecount	Specifies the total number of pages in the PDF file.	integer				out

Example

```
<pagecount type="integer">59</pagecount>
```

Zip

zip-file

source-file

Contained By

Business Service Element	Business Service Request
File	<request name="send-file">
Zip	<request name="zip-file">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
File,	source-file	Specifies the file to be sent.	string	Y	user defined		in
Zip	source-file	Specifies the file to be zipped.	string	Y	user defined		in

Example

```
<source-file>c:\Dev\Vista\MyDoc1.doc</source-file>
```

preserve-paths

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-file"> <request name="zip-folder"> <request name="unzip">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
preserve-paths	Determines whether the path information is stored in the zip file. When false (0), all path information associated with the file is discarded and only the filename will be stored in the zip file. When true (1), path information is also stored in the zip file along with the filename.	boolean	N	• 0 or false • 1 or true	1	in

Example

```
<preserve-paths type="bool">1</preserve-paths>
```

zip-file-name

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-file"> <request name="zip-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
zip-file-name	Specifies zip file name. If file name does not have a `.zip` extension then it will be added.	string	Y	user defined		in

Example

```
<zip-file-name type="string">example.zip</zip-file-name>
```

zip-file-folder

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-file"> <request name="zip-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
zip-file-folder	Specifies the directory where the zip file is to be placed. If not specified then a directory will be created and zip-file-folder will be set with the directory name.	string	N	user defined		in

Example

```
<zip-file-folder type="string">example</zip-file-folder>
```

zip-file-path

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-file"> <request name="zip-folder"> <request name="unzip">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
zip-file-path	Specifies the full path where the zip file was placed. This value does not need to be specified. It is set as an output value and is simply the combination of zip-file-folder on page 608 and zip-file-name on page 607.	string				out

Example

```
<zip-file-path type="string"></zip-file-path>
```

zip-folder

soucre-file-folder

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
soucre-file-folder	Specifies the directory containing the files to be zipped.	string	Y	user defined		in

Example

```
<soucre-file-folder type="string">C:\MyDocument\Example\</soucre-file-folder>
```

preserve-paths

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-file"> <request name="zip-folder"> <request name="unzip">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
preserve-paths	Determines whether the path information is stored in the zip file. When false (0), all path information associated with the file is discarded and only the filename will be stored in the zip file. When true (1), path information is also stored in the zip file along with the filename.	boolean	N	• 0 or false • 1 or true	1	in

Example

```
<preserve-paths type="bool">1</preserve-paths>
```

include-sub-folders

Contained By

Business Service Element	Business Service Request
FTP	<request name="send-folder">
Zip	<request name="zip-folder"> <request name="unzip">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
FTP	include-sub-folders	Used to determine whether subfolders are processed or not.	bool	N	• 0 or false • 1 or true	0	in
Zip	include-sub-folders	Used to determine whether subfolders are processed or not. When true, files contained in sub-folders of soucre-file-folder on page 609 will also be zipped. When false, sub-folders will not be included.	bool	N	• 0 or false • 1 or true	0	in

Example

```
<include-sub-folders>0</include-sub-folders>
```

zip-file-name

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-file"> <request name="zip-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
zip-file-name	Specifies zip file name. If file name does not have a `.zip` extension then it will be added.	string	Y	user defined		in

Example

```
<zip-file-name type="string">example.zip</zip-file-name>
```

zip-file-folder

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-file"> <request name="zip-folder">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
zip-file-folder	Specifies the directory where the zip file is to be placed. If not specified then a directory will be created and zip-file-folder will be set with the directory name.	string	N	user defined		in

Example

```
<zip-file-folder type="string">example</zip-file-folder>
```

zip-file-path

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-file"> <request name="zip-folder"> <request name="unzip">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
zip-file-path	Specifies the full path where the zip file was placed. This value does not need to be specified. It is set as an output value and is simply the combination of zip-file-folder on page 608 and zip-file-name on page 607.	string				out

Example

```
<zip-file-path type="string"></zip-file-path>
```

unzip

zip-file-path

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-file"> <request name="zip-folder"> <request name="unzip">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
zip-file-path	Specifies the full path where the zip file was placed. This value does not need to be specified. It is set as an output value and is simply the combination of zip-file-folder on page 608 and zip-file-name on page 607.	string				out

Example

```
<zip-file-path type="string"></zip-file-path>
```

dest-file-folder

Contained By

Business Service Element	Business Service Request
Zip	<request name="unzip">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
dest-file-folder	Specifies the directory where files are to be unzipped. If not provided, a temporary folder will be created. Upon successful completion of this request, the dest-file-folder parameter will contain the temporary folder location of where the zip file was unzipped.	string	N	user defined		in

Example

```
<dest-file-folder type="string">C:\MyDocuments\</dest-file-folder>
```

preserve-paths

Contained By

Business Service Element	Business Service Request
Zip	<request name="zip-file"> <request name="zip-folder"> <request name="unzip">

Contains

Business Service XML Element
N/A

Business Service Parameter

Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
preserve-paths	Determines whether the path information is stored in the zip file. When false (0), all path information associated with the file is discarded and only the filename will be stored in the zip file. When true (1), path information is also stored in the zip file along with the filename.	boolean	N	• 0 or false • 1 or true	1	in

Example

```
<preserve-paths type="bool">1</preserve-paths>
```

include-sub-folders

Contained By

Business Service Element	Business Service Request
FTP	<request name="send-folder">
Zip	<request name="zip-folder"> <request name="unzip">

Contains

Business Service XML Element
N/A

Business Service Parameter

Business Service Element	Name	Description	Parameter Type	Req (Y/N)	Valid Value(s)	Default Value	Direction
FTP	include-sub-folders	Used to determine whether subfolders are processed or not.	bool	N	• 0 or false • 1 or true	0	in
Zip	include-sub-folders	Used to determine whether subfolders are processed or not. When true, files contained in sub-folders of soucre-file-folder on page 609 will also be zipped. When false, sub-folders will not be included.	bool	N	• 0 or false • 1 or true	0	in

Example

```
<include-sub-folders>0</include-sub-folders>
```

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