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# Calyx RIM 7.0 API Documentation

CALYX™

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## Calyx RIM API Documentation

You can import/extract data, perform create/update queries, or delete entities to enhance the functionality of the Calyx RIM user interface.

The [Calyx RIM API](#) (application programming interface) enables you to integrate external systems with Calyx RIM.

The Calyx RIM API can be used for the following:

- Assembly Structure Functions
- Registrations Entities
- Tasks and References Entities
- Product Detail Set Detail Entities
- Product Family Agnostic Entities
- Core InSight Entities
- Assembly Structure
- Lifecycle assembly creation
- Lifecycle operations and metadata
- Product related Entities
- Entering unique Events within Calyx RIM

### Authenticate Users for Calyx RIM API

Authentication is required to use the API.

To pass authentication for the API, perform the following procedure.

1. Submit an HTTP GET request to get a token. Send an HTTP request (GET-request) to `http://hostname:port/insight/api/v2/token`. The body of the JSON response will include `{"token": "F1AE44E28CB43CDECEB2D0A104EB5DF4B"}` with the current session ID. The response header contains the following values:
  - X-CSRF-HEADER → X-CSRF-TOKEN
  - X-CSRF-PARAM → `_csrf`
  - X-CSRF-TOKEN → `40d67d97-fb28-4a78-a111-5bae0ee706bb`
2. Use that token and login information to get authenticated. Send a login POST-request to pass authentication. You should use the same session (set JSESSIONID):
  - URI: `http://hostname:port/insight/api/v2/login`
  - Request header values:
    - Content-Type: "application/json"
    - X-CSRF-TOKEN: `40d67d97-fb28-4a78-a111-5bae0ee706bb` - This value is retrieved as a result of the previous request. (`http://hostname:port/insight/api/v2/token`)
  - Request body (JSON): `{"username": "external_system_abc", "password": "password_abc"}`

3. After successful login, the application creates a new session and a new token to use in subsequent API calls. The response header will contain the following values:
  - X-CSRF-HEADER → X-CSRF-TOKEN
  - X-CSRF-PARAM → `_csrf`
  - X-CSRF-TOKEN → `c3cc7d40-348e-410c-bcb6-bc0accdaff5`
4. Make an API call with your new token. All subsequent REST API POST-requests (read/create/create-or-update/delete for a specific entity) should be sent through "/api/v2" URI (e.g. `http://hostname:port/insight/api/v2/event/46098/delete`) with the following attributes:
  - Request header values:
    - Content-Type: "application/json"
    - X-CSRF-TOKEN: `c3cc7d40-348e-410c-bcb6-bc0accdaff5`
  - Request body: JSON object for the specific entity.
5. Instead of X-CSRF-TOKEN header, you can use the "`_csrf`" param.

## Calyx RIM 7.0 API Changes

This table describes the API changes related to Product Family decoupling between Calyx RIM 7.0 and InSight 6.2.

Calyx RIM 7.0 includes the following API changes:

- Application has moved to the top entity in its own hierarchy.
- Application has a one-to-many relationship with the Product Family via the `selectedProducts` field.
- `FamilyId` field is removed.
- The uniqueness criteria for the Application has changed (Uniqueness for the API is used in "/create-or-update" controller operations).

Entity Name	API/Controller	API 6.2	API 7.0 Updates	Description
Application	ApplicationRestController CTAApplicationRestController INDApplicationRestController /application / application/cta / application/ind	<ul style="list-style-type: none"> <li>— <code>Family Id</code> - required</li> <li>— <code>selectedProducts</code> field - is not required</li> <li>— Application uniqueness rule - (appCode and familyId) or uuid"</li> </ul>	<ul style="list-style-type: none"> <li>— <code>Family Id</code> is removed</li> <li>— <code>selectedProducts</code> field - required</li> <li>— Application uniqueness rule changed - (appCode and appName) or uuid"</li> </ul>	<p>If application is not found it executes an uniqueness expression.</p> <p>Unique expression is used in "/create-or-update" api.</p>

Entity Name	API/Controller	API 6.2	API 7.0 Updates	Description
ApplicationCountry	ApplicationCountryRestController / application-country	<ul style="list-style-type: none"> <li>– <b>Family Id</b> is required</li> <li>– Old behavior - Example: <code>{ "queryFor": { "applicationId": APPLICATION_NAME }, ... }</code></li> </ul>	<ul style="list-style-type: none"> <li>– <b>Family Id</b> is removed</li> <li>– New behavior - Example: <code>{ "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }</code></li> </ul>	The behavior of how applicationId is retrieved for use in queryFor has changed.
Event	EventRestController / event			
EventCountry	EventCountryRestController / event-country			
EventCountrySchedule	EventCountryScheduleRestController / event-country-schedule			

Entity Name	API/Controller	API 6.2	API 7.0 Updates	Description
AppEventProduct	AppEventProductRestController /event/product	Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	The behavior of how applicationId is retrieved for use in queryFor has changed.
FullProductPresentation	LicenseFppController /license/full-product-presentation	<ul style="list-style-type: none"> <li>Family Id is required</li> <li>Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }</li> </ul>	<ul style="list-style-type: none"> <li>Family Id is removed</li> <li>New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }</li> </ul>	
License	<p>This entity is inherited by ProductLicense</p> <p>Doesn't have direct controller</p>	<ul style="list-style-type: none"> <li>Family Id is required</li> <li>registeredAtc is required</li> <li>Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }</li> <li>Old uniqueness rule -  "Code and AuthorityId and FamilyID and ApplicationId"</li> </ul>	<ul style="list-style-type: none"> <li>Family Id is removed</li> <li>registeredAtc is not required</li> <li>New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }</li> <li>New uniqueness rule - "Code and AuthorityId and ApplicationId"</li> </ul>	
MaAttachment	MaAttachmentRestController /full-product-presentation/attachment	<ul style="list-style-type: none"> <li>Family Id - required</li> <li>Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }</li> <li>Old uniqueness rule - "name and fppId and familyId and applicationId and</li> </ul>	<ul style="list-style-type: none"> <li>Family Id is removed</li> <li>New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }</li> <li>New uniqueness rule -</li> </ul>	

Entity Name	API/Controller	API 6.2	API 7.0 Updates	Description
ProductLicense	"/license/product-registration"	Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	Please check License as it inherits all changes.	N/A
LicensePackageSet	/license/packageset	Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	The behavior of how applicationId is retrieved for use in queryFor has changed.
LicensePackageSetCountry	/license/packageset/country	<ul style="list-style-type: none"> <li>– Family Id - required</li> <li>– registeredAtc is required</li> <li>– Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }</li> </ul>	<ul style="list-style-type: none"> <li>– Family Id is removed</li> <li>– registeredAtc is not required</li> <li>– New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }</li> </ul>	
Subset (PDS)	PDSRestController /pds	Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	
Schedule (seq-status schedule)	Schedule /sequence-schedule	Family Id is required	Family Id is removed	N/A

Entity Name	API/Controller	API 6.2	API 7.0 Updates	Description
PDS Details	/detail/* CountryDetailRestController ActiveIngredientDetailRestController CharacteristicsDetailRestController CTADetailRestController DoseScheduleDetailRestController FluStrainDetailRestController FunctionDetailRestController IndicationDetailRestController LabeledIndicationDetailRestController LabelingDetailRestController ManufacturerDetailRestController ManufacturingProcessDetailRestController MaterialDetailRestController MedicalDeviceDetailRestController PackageSetDetailRestController PackagingDetailRestController RouteOfAdministrationDetailRestController ShelfLifeDetailRestController SpeciesDetailRestController StepDetailRestController SubstanceDetailRestController WithdrawalTimeDetailRestController	Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	The behavior of how applicationId is retrieved for use in queryFor has changed.

## Calyx RIM 7.0 API End Points Entities Removed

This table describes the API End Points entities deleted from the Calyx RIM 7.0.

Entity Name	Controller Name	Controller URL
Component Source Type	Component Source Type Rest Controller	/data-admin/component-source-type/
Contact Address Type	Contact Address Type Rest Controller	/data-admin/contact-address-type
Contact Role	Contact Role Rest Controller	/data-admin/contact-role
Contact Type	Contact Type Rest Controller	/data-admin/contact-type/
Discipline Res	Discipline Rest Controller	/data-admin/discipline/
Dossier Metadata Type	Dossier Metadata Type Rest Controller	/data-admin/dossier-metadata-type
PSI Attachment	PSI Attachment Rest Controller	/data-admin/p-s-i-attachment/
Recipient For Type	Recipient For Type Rest Controller	/data-admin/recipient-for-type/
RI Product Type	RI Product Type Rest Controller	/data-admin/ri-product-type/
Substance Attachment	Substance Attachment Rest Controller	/data-admin/substance-attachment

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