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codeBeamer Connector for Enterprise Architect

Welcome on the help site of the EA Connector for CodeBeamer!

The help page document the current version 2.1.3 of the connector. If you are using an older version, please refer to the list of [Archived Documentations](#).

Overview

Try Out the EA Connector for codeBeamer!

Would you like to try the EA Connector for CodeBeamer today? Request the trial version or web demo!
Our experts at LieberLieber would like to support you.

[Contact us today!](#)

Search this documentation

System Requirements

Supported codeBeamer versions

codeBeamer Connector	codeBeamer Version
2.0.x	9.5.x
2.1.x	10.0.x
2.1.x	10.1.x

codeBeamer Connector	Retina Version
2.1.x	2.0.x
2.1.x	2.1.x
2.1.x	3.0.x
2.1.x	3.1.x

Permission: Every user, who wants to use the Connector, must have API permissions.

Export to codeBeamer

To configure a tracker used for export accordingly, please see the guide [Configure a codeBeamer Tracker for Export of EA Elements](#).

Supported Enterprise Architect Versions

Enterprise Architect 13 and higher is supported.

Enterprise Architect 14 and higher is recommended.

Supported file formats are:

- EAP
- EAPX

EAPX

If you plan to use the EAPX file format, make sure to install the Access Database Engine Driver 2010 (64 bit):

Download: [ACE \(64 bit\) 2010](#)

Also the following EA DBMS Repositories are supported:

- MS SQL
- MySQL
- Oracle

Operating Systems

Microsoft® Windows 8.1, 10 64-Bit

.NET Framework 4.7.2

CPU

Minimum: Single-Core x86
Recommended: Quad-Core x64 (Intel Core or AMD Ryzen)

 Single-Core CPUs may be used, but usability will be heavily degraded. We do not recommend that setup for interactive use.

RAM

Minimum: 4GB
Recommended: 8GB or more

Licensing

- Editions
 - Light Edition
 - Pro Edition
- Licenses
 - Trial
 - Floating
 - Offline License
 - User

The codeBeamer connector requires a valid license, with different available feature-sets depending on the corresponding edition.

Editions

Light Edition

The Light Edition is the free version of the codeBeamer connector. It only requires a registration to obtain the program and a Light Edition license.

The Light Edition includes all features related to **importing** data stored in codeBeamer into an Enterprise Architect model.

The configuration allows the user to select a codeBeamer project and tracker.

For more information, see [Light Edition Configuration](#).

Pro Edition

The Pro Edition is the paid version of the codeBeamer connector.

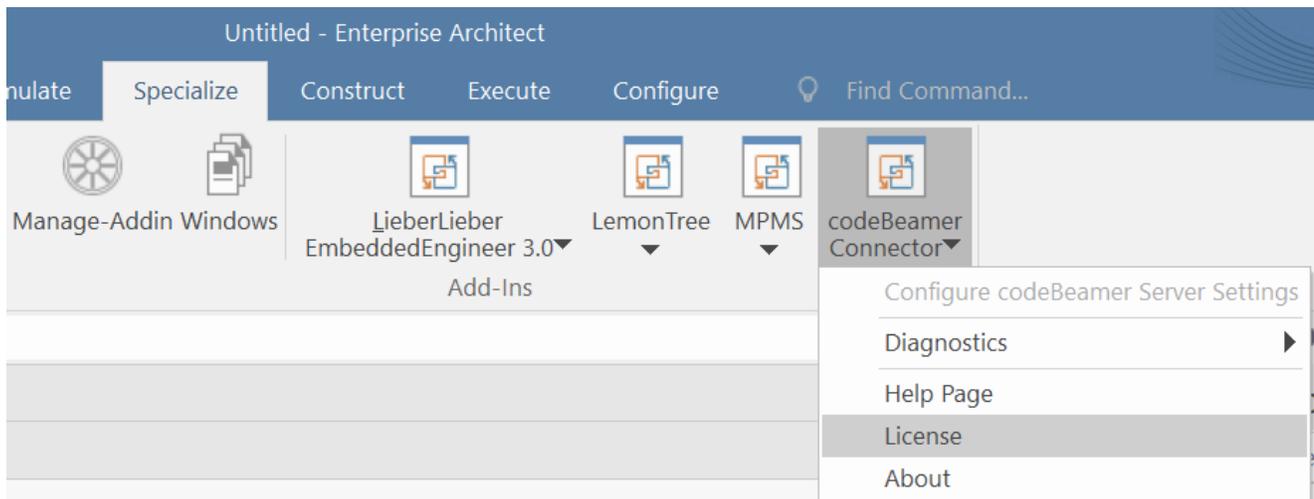
The Pro Edition includes all the features provided by the Light Edition, with the following additions:

- **exporting** data stored in an Enterprise Architect model to codeBeamer.
- navigating from data exported to codeBeamer back to Enterprise Architect Model elements
- customizing the mapping between codeBeamer and Enterprise Architect data

Licenses

In order to work with the connector, it has to be licensed with one of the following types: Trial, User or Floating.

To apply one of these license types, open the licensing dialog from the "Specialize" menu:



Trial

You can easily try out the connector without requesting a trial license from us. To start your 30 day evaluation period, simply select "Start Trial":

License Information ✕

codeBeamer Connector for Enterprise Architect

Active

Is the license valid ✕

Trial Available! You may start your free trial now.



Started a trial and could not finish your evaluation?

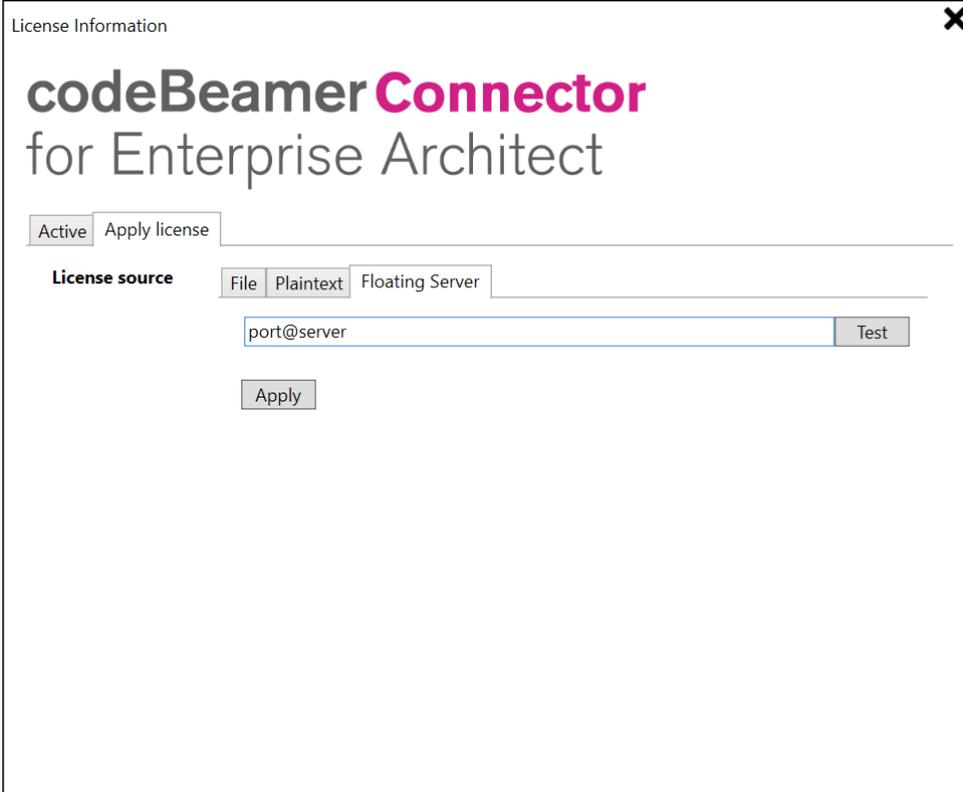
No problem, everyone has been there! Just write a mail to sales@lieberlieber.com and we'll send you a key to extend your trial period!

Floating

In order to use the floating license mechanism, you need to install a Floating License Server.

A guide that shows how to install the Floating License Server is available here: [Installation of Floating License Server](#).

To apply a floating license, switch to the "Apply License" tab and select "Floating License" as License source. In the next step, enter the port and the server address of the Floating License Server into the "Server Address" text box, in the following format: *port@server*:



License Information

codeBeamer Connector for Enterprise Architect

Active Apply license

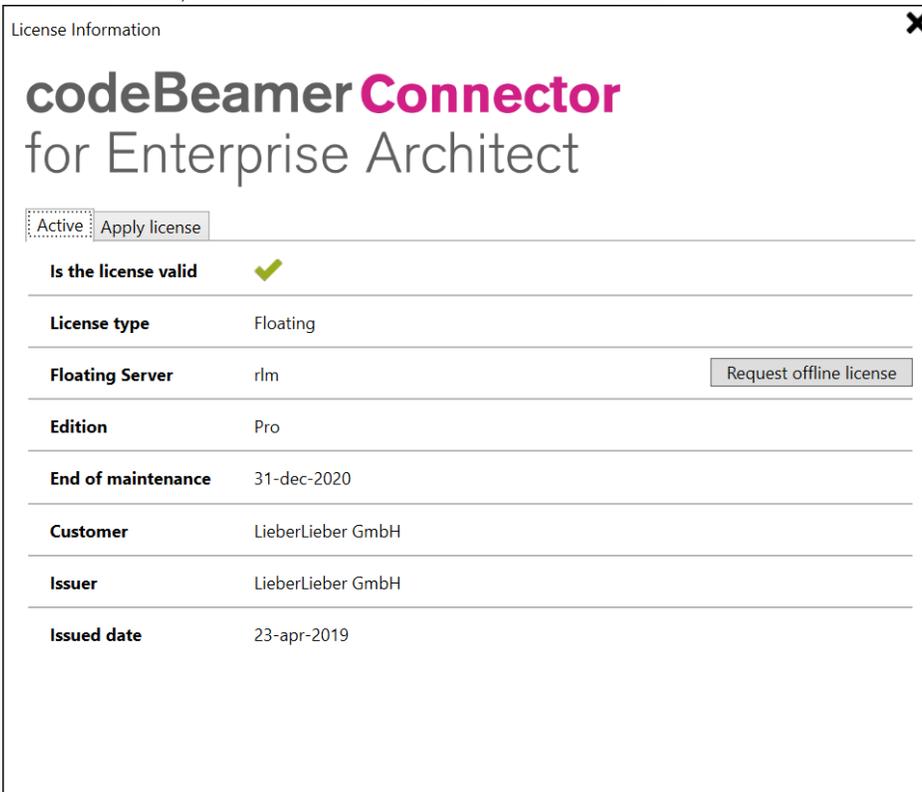
License source File Plaintext Floating Server

port@server Test

Apply

If the connection test with the button "Test" was successful, click "Apply".

If the license is valid, the license details are shown in the license overview:



License Information

codeBeamer Connector for Enterprise Architect

Active Apply license

Is the license valid 

License type	Floating
Floating Server	rlm Request offline license
Edition	Pro
End of maintenance	31-dec-2020
Customer	LieberLieber GmbH
Issuer	LieberLieber GmbH
Issued date	23-apr-2019

Offline License

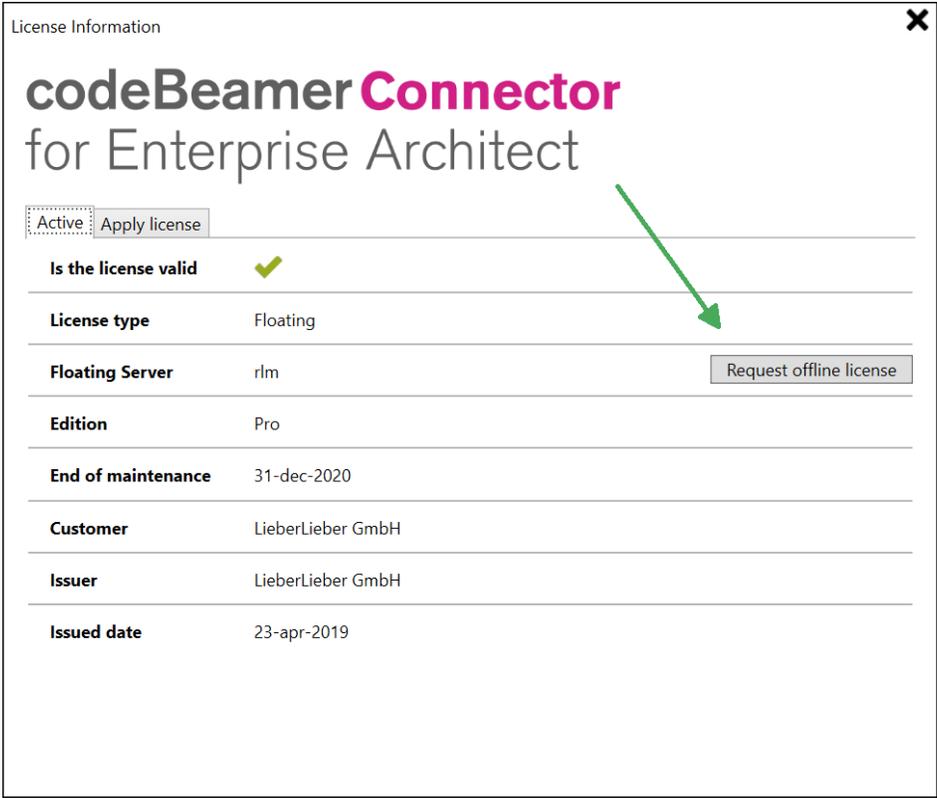
Floating licenses are also usable offline. To check out an offline floating license for a maximum of 30 days, click "Request offline license":

License Information ✕

codeBeamer Connector for Enterprise Architect

Active

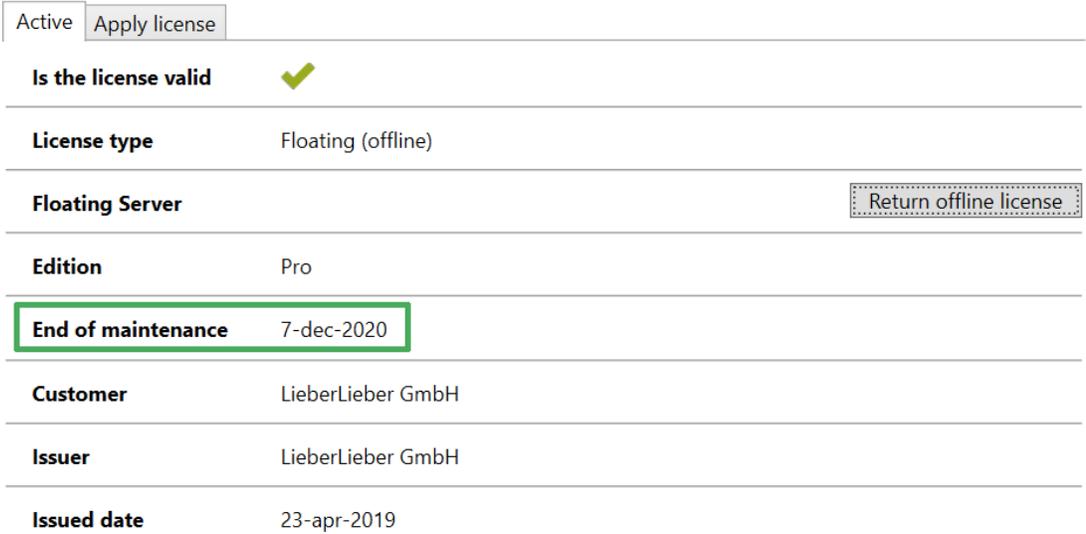
Is the license valid	✓
License type	Floating
Floating Server	rlm <input type="button" value="Request offline license"/>
Edition	Pro
End of maintenance	31-dec-2020
Customer	LieberLieber GmbH
Issuer	LieberLieber GmbH
Issued date	23-apr-2019



You can see the remaining days until the offline license is returned in the License Dialog:

Active

Is the license valid	✓
License type	Floating (offline)
Floating Server	<input type="button" value="Return offline license"/>
Edition	Pro
End of maintenance	7-dec-2020
Customer	LieberLieber GmbH
Issuer	LieberLieber GmbH
Issued date	23-apr-2019



 The Offline License is checked in automatically at the end of the validity and a new Floating License is checked out, if needed.
The User can also decide to return the Offline License before the end of validity within the License Dialog.

User

To apply a user license, switch to the "Apply License" tab and select "File" as License source. In the next step, click the "..." button and select a ".lic" file for the user license.

License Information ✕

codeBeamer Connector for Enterprise Architect

Active Apply license

License source File Plaintext Floating Server

Apply

If the license is valid, the license details are shown in the license overview.

License Information ✕

codeBeamer Connector for Enterprise Architect

Active Apply license

Is the license valid	✓
License type	User
Edition	Pro
End of maintenance	25-feb-2021
Host ID	ANY
Customer	Philipp Kalenda
Issuer	LieberLieber Software GmbH
Issued date	25-feb-2020

Getting started with the EA Connector for codeBeamer

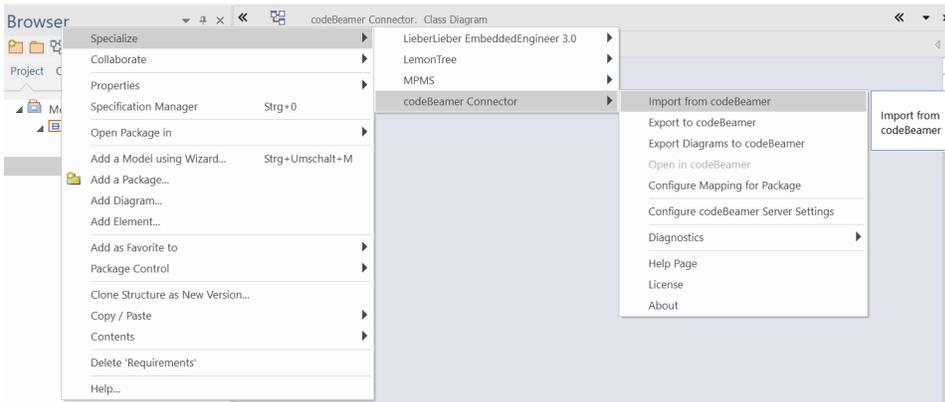
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- [3 Export Requirement Traces to codeBeamer](#)

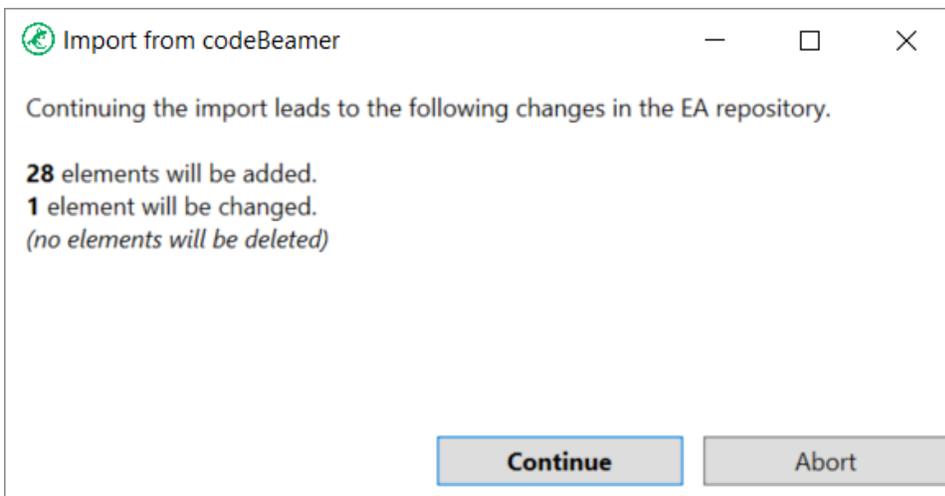
The screenshots from this documentation were created with EA version 15.2.1554.

1 Import Requirements from codeBeamer

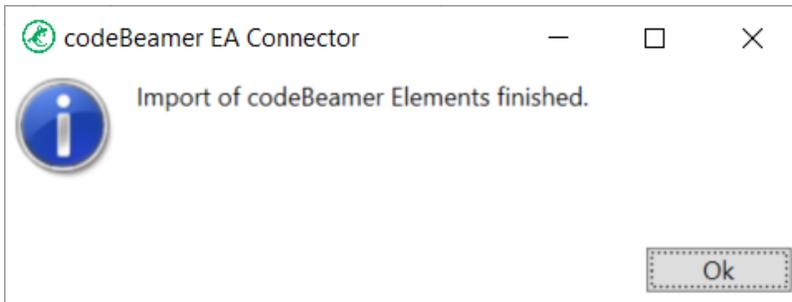
1. To start the import of requirements from a codeBeamer tracker select a package, where the requirements from codeBeamer shall be imported to: Right-click the package and select Specialize > EA Connector for codeBeamer > Import from codeBeamer:



2. If the credentials haven't been configured yet, the authentication dialog will appear (see [Credentials for the codeBeamer Server](#)).
3. In the next step, the tracker for the import as well as the mapping have to be configured for the import. For more details, please refer to this page: [Mapping Configuration](#)
4. After the configuration has been saved, the import will automatically start
5. Before the model in EA will be changed, the connector will display how much elements will be added or modified. If you agree to this action, confirm with "Yes":



6. After the import was finished, confirm the message box:



This will trigger a reload of the EA project, in order to see the changes done to the EA project file.

Navigate from an imported requirement to codeBeamer

It is possible to navigate from an imported requirement to the original element in codeBeamer.

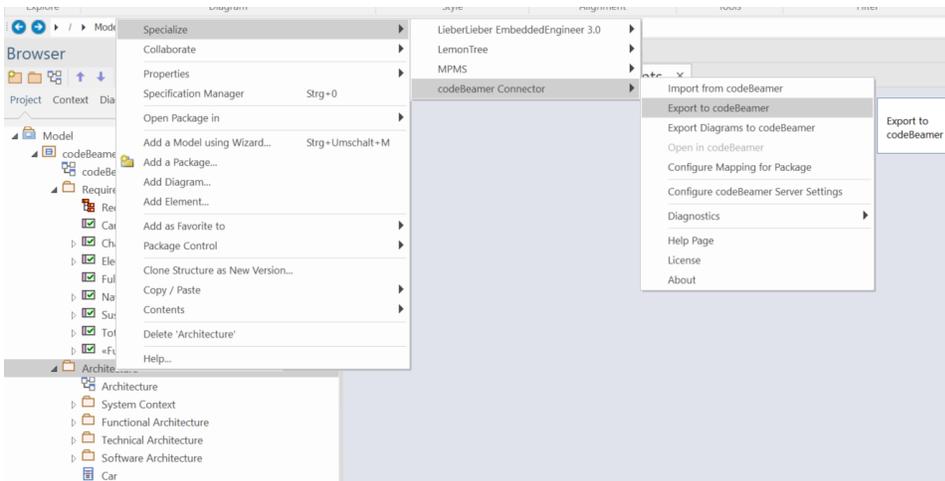
A simple double-click onto the element in EA will open the original tracker item in codeBeamer in the configured standard browser.

2 Export Architecture to codeBeamer

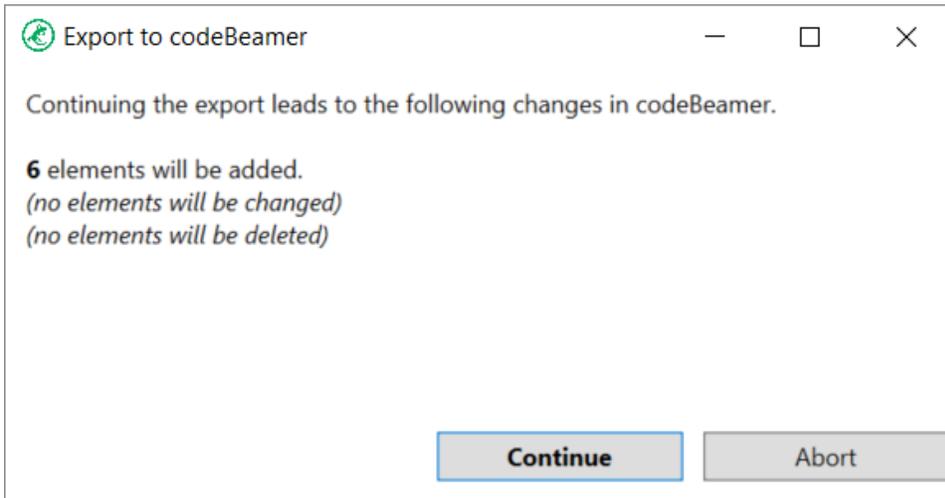
codeBeamer Prerequisites

In order to export elements from EA to codeBeamer, the tracker has to be configured correctly. For this configuration, see [Configure a codeBeamer Tracker for Export of EA Elements](#).

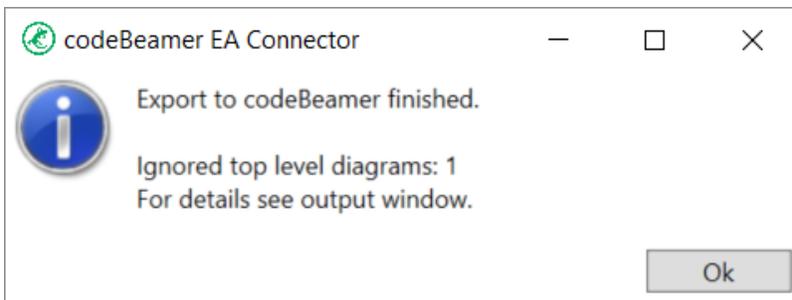
1. To start the export of architecture elements to a codeBeamer tracker, select the package from which the architecture elements shall be exported. Right-click the package and select Specialize > EA Connector for codeBeamer > Export to codeBeamer:



2. In the next step, the tracker for the import as well as the mapping have to be configured for the import. For more details, please refer to this page: [Mapping Configuration](#)
3. Continue with "Save".
4. After the configuration has been saved, the import will automatically start
5. Before the tracker in codeBeamer will be changed, the connector will display how much elements will be added or modified. If you agree to this action, confirm with "Yes":



6. After the export was finished, confirm the message box:



7. Reload the tracker in codeBeamer to see the exported architecture elements

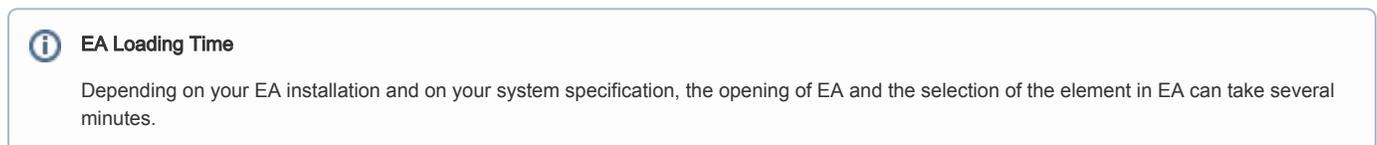
Navigate from an exported architecture element to Enterprise Architect

It is possible to navigate from an exported architecture element to the original element in Enterprise Architect. The link to the EA element is stored as an "Association" at the tracker item in codeBeamer:



If you follow this link, the element will be selected in the corresponding EA project file, if it is opened.

If you don't have it opened, the file provided in the hyperlink will be opened.



3 Export Requirement Traces to codeBeamer

Traceability links between elements in codeBeamer, as well as in Enterprise Architect are synced between the two tools during both import and export.

For more details on the respective functions, please refer to these pages:

[Import of Traceability Links between codeBeamer Elements](#)

[Export of Traceability Links between codeBeamer Requirements and EA Architecture Elements](#)

Feature Description

This is a list of features the EA Connector for codeBeamer has implemented.

Here is a feature matrix, showing the capabilities of the Light and Pro Edition:

	Light Edition	Pro Edition
Credentials for the codeBeamer Server		
Import Elements from codeBeamer		
Configure Mapping for Import		
Export Elements to codeBeamer		
Export Diagrams to codeBeamer		
Import Links to other Trackers		
Export Traceability Links		

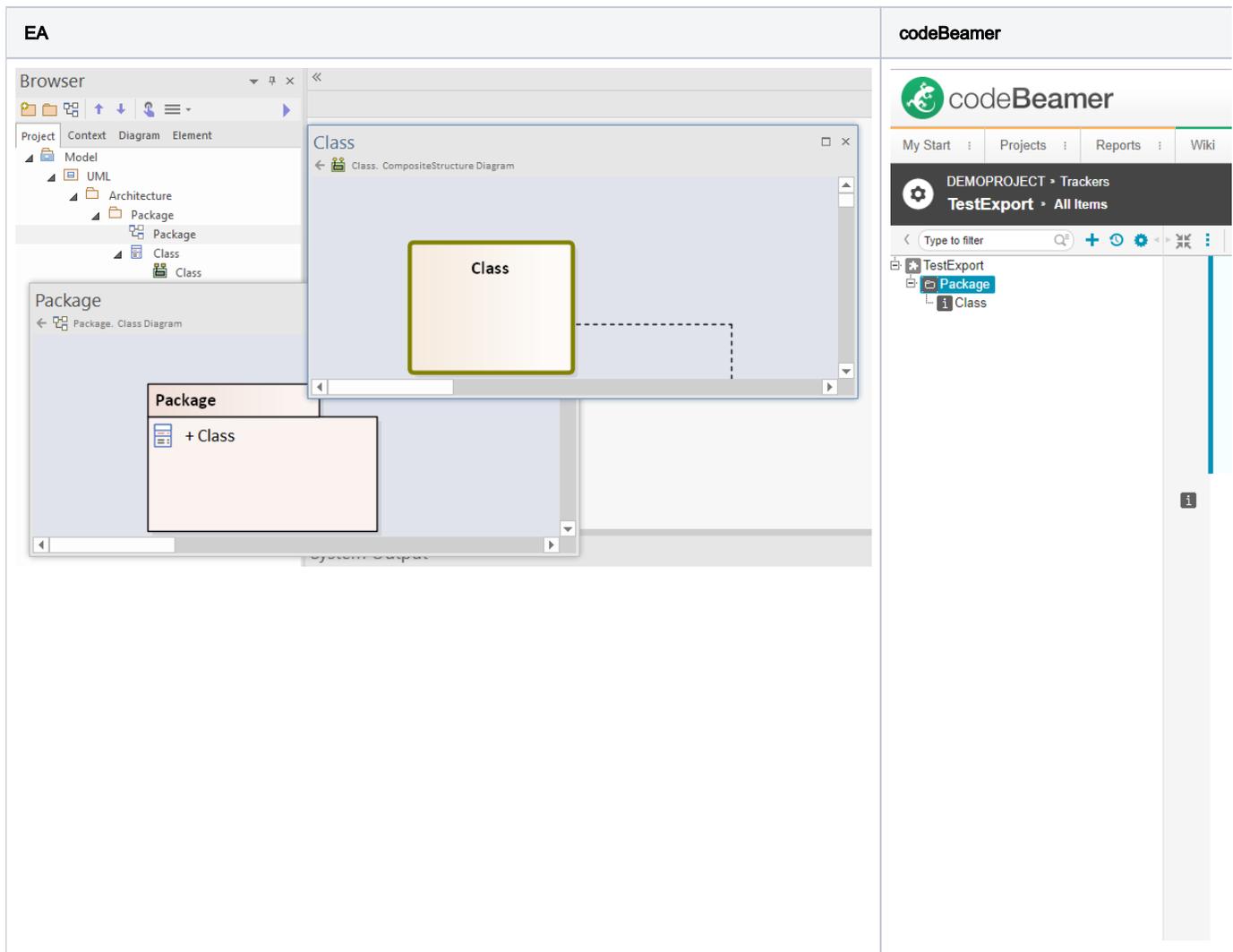
Click on a link to see a detailed explanation of the features:

- [Export of Diagrams to codeBeamer](#)
- [Export of Traceability Links between codeBeamer Requirements and EA Architecture Elements](#)
- [Import of Traceability Links between codeBeamer Elements](#)

Export of Diagrams to codeBeamer

The Connector will automatically export all diagrams, that are nested within package and elements, that are exported to codeBeamer.

Diagrams will be exported as attachments of a work item and they will also be embedded into the "Description" field, in order to see the diagram in the document view:



i Top-Level Diagrams

Please note that top-level diagrams (directly under the package configured for export) are currently not exported. This is because the codeBeamer connector currently does not support adding the attachments directly to the tracker.

Export Diagrams for imported requirements

It is also possible to export diagrams in a separate step, with the menu *Specialize > codeBeamer Connector > Export Diagrams to codeBeamer*.

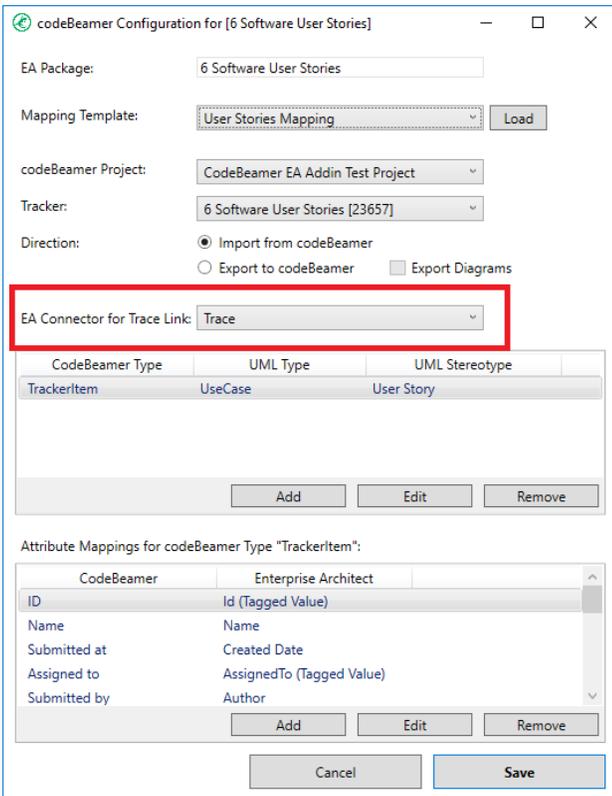
This is useful if you want to enhance the description of requirements, which were imported to EA. You can add diagrams to imported requirements and export their diagram images back to codeBeamer.

Export of Traceability Links between codeBeamer Requirements and EA Architecture Elements

Depending on the mapping configuration, traceability links will be written to codeBeamer.

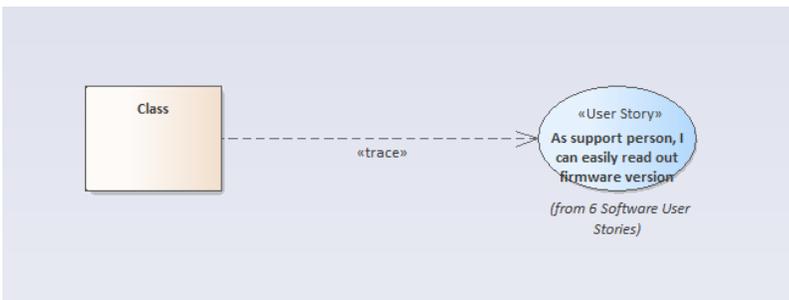
In the mapping configuration dialog, you can choose a specific type of dependencies used in the Enterprise Architect model, which will be recognized as traceability links and transferred to codeBeamer as such.

This setting is done via the "EA Connector for Trace Link" in the configuration dialog:



With this setup, you can now link elements you want to export to ones you have imported from a different tracker.

For example, with a model setup like this:



An export of the Class "Class" will result in these codeBeamer Settings:

Tracker: Requirement Tracker 060220203	Business Value: --	Risk: --
Status: NEW	Type: --	Complexity: --
Release: --	Submitted by: <i>uniqueMintReader</i> Today 18:05	Modified by: <i>uniqueMintReader</i> Today 18:05
Assigned to: --	Subject:  As support person, I can read out firmware version	Team: --
Story Points: --	Color: --	ea_guid: {4D320853-589A-4216-B6D6-46A7576C9A1C}
Traceability		
Description 		
--		

The traceability link is established via the entry (or multiple entries) in the "Subject" field.

The EA model used for the demo can be downloaded here:

[ReferenceDemo.eapx](#)

Import of Traceability Links between codeBeamer Elements

Depending on your mapping configuration settings, traceability links will be established both in the Enterprise Architect model, as well as in codeBeamer. This is done automatically during the import and export, respectively.

For more details on activating/deactivating this feature, as well as configuring the used type of traceability link in the Enterprise Architect Model, please refer to this page:

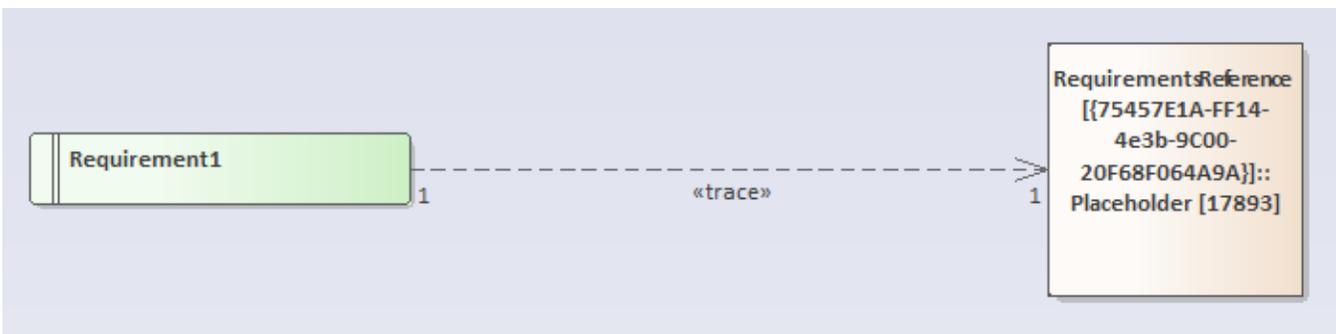
[Mapping Configuration](#)

Placeholders

A traceability link in codeBeamer may refer to an element which has not yet been imported into the Enterprise Architect model.

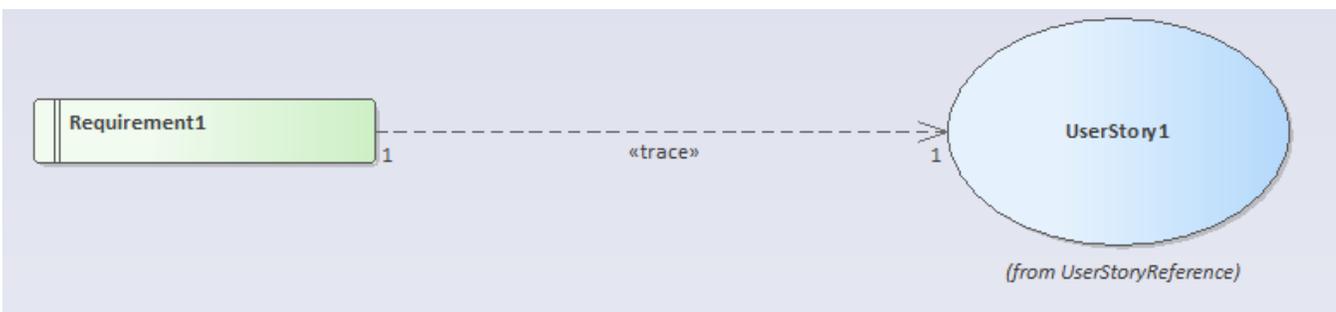
In this case, a "placeholder" element representing this currently unknown element is automatically created during import. This placeholder is placed in a designated package in the Enterprise Architect model, called "Placeholders".

If you drag both the imported element and the placeholder onto a diagram, you can see that they are connected by the configured connector type, like so:



The purpose of this placeholder is to ensure that the traceability link is correctly imported into the Enterprise Architect model, even though the target is not yet known. This ensures that, when the referenced element is imported later on, the traceability link points to the correct target.

If I import the import the tracker containing the target element of the example above, the placeholder is automatically replaced by the correct element, and this is reflected in the diagram:



Configuration

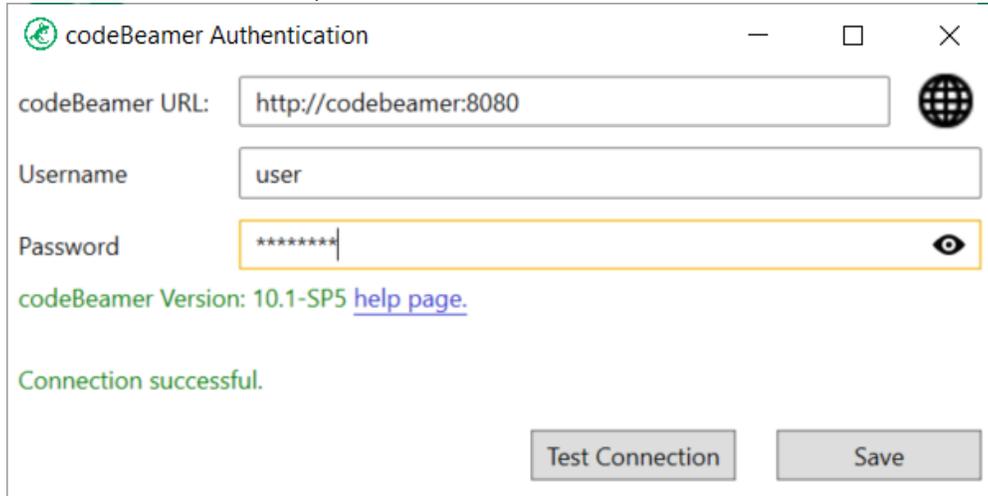
- [Credentials for the codeBeamer Server](#)
- [Configure a codeBeamer Tracker for Export of EA Elements](#)
- [Configure a codeBeamer Tracker for Import of codeBeamer Elements](#)
- [Mapping Configuration](#)
- [Light Edition Configuration](#)

Credentials for the codeBeamer Server

There are two possibilities to configure your credentials for a codeBeamer Server:

- In the EA main menu, select *Specialize > codeBeamer Connector > Configure codeBeamer Server Settings*
- Simply start an export or import, if the credentials haven't been configured already, the Authentication dialog will appear.

Enter the URL, user name and the password:



codeBeamer Authentication

codeBeamer URL:

Username

Password

codeBeamer Version: 10.1-SP5 [help page.](#)

Connection successful.

 If you enter the URL, make sure to enter the protocol ([http://](#), [https://](#), etc.).

If the connection was successful (Test Connection), continue with saving the credentials.

 **codeBeamer user with API permission**
Keep in mind, that every user who wants to use the Connector, must have API permissions.

Configure a codeBeamer Tracker for Export of EA Elements

This guide describes how to configure a tracker in codeBeamer, in order to support the export of elements from Enterprise Architect.

- [Steps for configuring a codeBeamer tracker for export](#)
- [Further configurations and possible errors](#)
 - [Usage of codeBeamer "type" \(categories field\)](#)
 - [Export of traceability links](#)
 - ["Invalid state transition" or "item is not closed yet" error when exporting](#)

Steps for configuring a codeBeamer tracker for export

1. Create a new tracker of type "Requirement".
2. Navigate to the tracker's field settings page.
3. Add a new custom text field called "ea_guid". This field is mandatory in order to support synchronization of EA elements in codeBeamer.

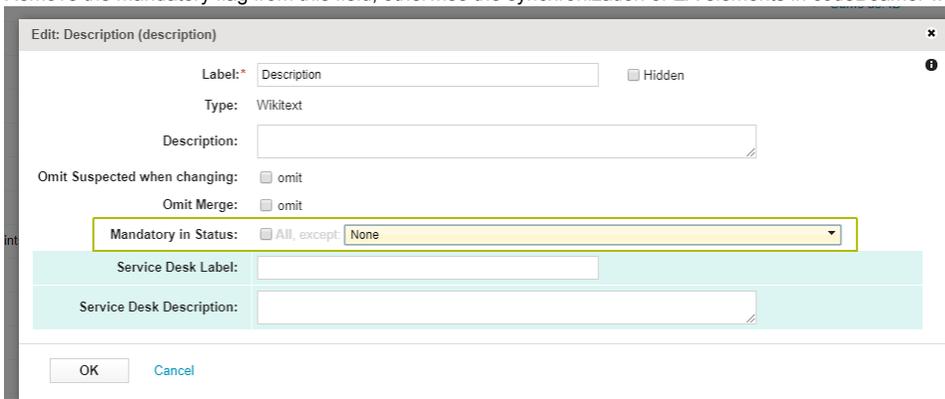


The screenshot shows a configuration interface for a field. On the left, there is a vertical menu with a 'Text' option. The main area displays the field name 'ea_guid' in blue text. To the right of the field name is a checkbox labeled 'ea_guid Default Value'.

 **Hide ea_guid field**

If you do not want to show this field to the user, it is possible to hide this field by checking the "hidden" checkbox.

4. Find the field definition for "Description".
5. Remove the mandatory flag from this field, otherwise the synchronization of EA elements in codeBeamer will not work:



The screenshot shows a dialog box titled 'Edit: Description (description)'. It contains several fields: 'Label' (set to 'Description'), 'Type' (set to 'Wikitext'), 'Description' (a text area), 'Omit Suspected when changing' (checkbox 'omit'), and 'Omit Merge' (checkbox 'omit'). A dropdown menu for 'Mandatory in Status' is highlighted with a yellow box and is currently set to 'None'. Below this are 'Service Desk Label' and 'Service Desk Description' fields. At the bottom are 'OK' and 'Cancel' buttons.

 **Writing changes to codeBeamer**

The connector only synchronizes data, which is different in EA and codeBeamer. If the "EA Notes" (mapped to the description in codeBeamer) is not changed, this field won't be written on synchronize. Since this field is defined as mandatory, the API from codeBeamer will throw an error if the description is not written.

Further configurations and possible errors

Usage of codeBeamer "type" (categories field)

If the mapping configuration used for the export (see [Mapping Configuration](#)) used the "Categories" (or "Type") field from codeBeamer, make sure that only existing "Category" values are used.

Otherwise the export will abort or create duplicate elements.

Export of traceability links

If you want to export Trace Links to codeBeamer (see [Export of Traceability Links between codeBeamer Requirements and EA Architecture Elements](#)) to codeBeamer, make sure that the assigned field for the reference has a valid link type.

If you are linking architecture elements to work items of type "Requirement" from a certain tracker, the "subject" field must have the according configuration.

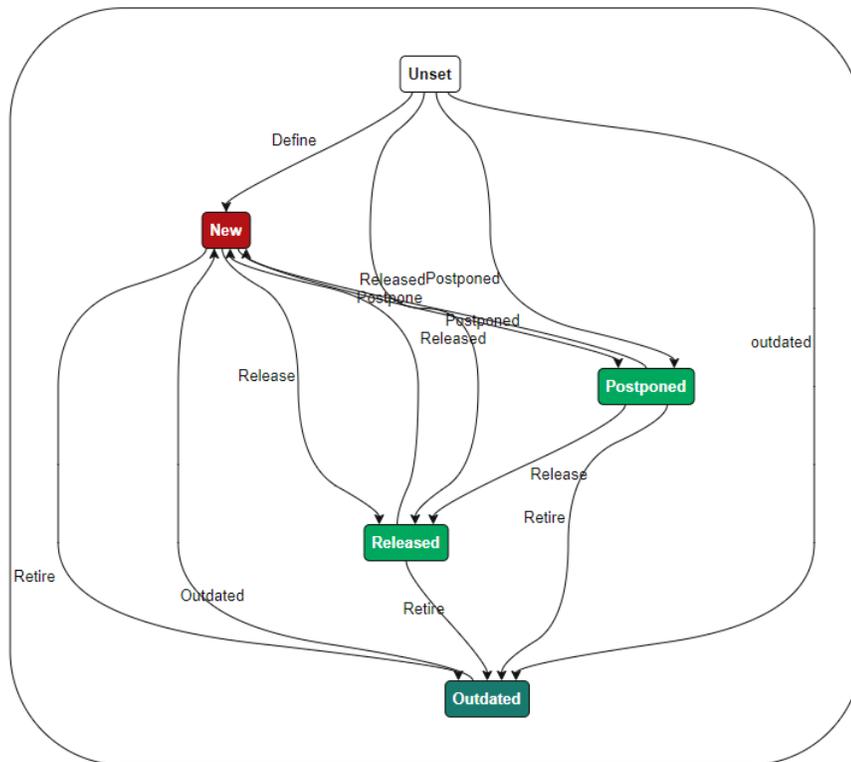
"Invalid state transition" or "item is not closed yet" error when exporting

If you start an export from EA to codeBeamer and the export is aborted with an error message similar to "Invalid state transition" or "item is not closed yet", you are trying to set a status value in codeBeamer, which does not correspond with the tracker configuration.

How status values are set, is configured in a state machine in the tracker's configuration. If the export violates the definition of the state machine and sets an invalid status value, one of the previous error messages will be shown after the export was aborted.

You can fix this kind of error with two possible approaches:

1. Configuring the state transitions
 - a. Navigate to the tracker configuration and open the tab "State Transitions".
 - b. At the bottom, you will see a diagram that shows you all allowed state transition
 - c. If you want to set the status from EA, add a state transitions from the status "Unset" to each other status value:



- d. If you also want to support other transitions, make sure to also add all other possible transitions (from each state to any other)
2. Make sure only allowed states values are transferred from EA to codeBeamer
 - a. If you perform an initial export, make sure that all elements that are exported to codeBeamer have a status value that is allowed coming from the status value "Unset"
 - b. Most of the time, this is the status value "New"

Configure a codeBeamer Tracker for Import of codeBeamer Elements

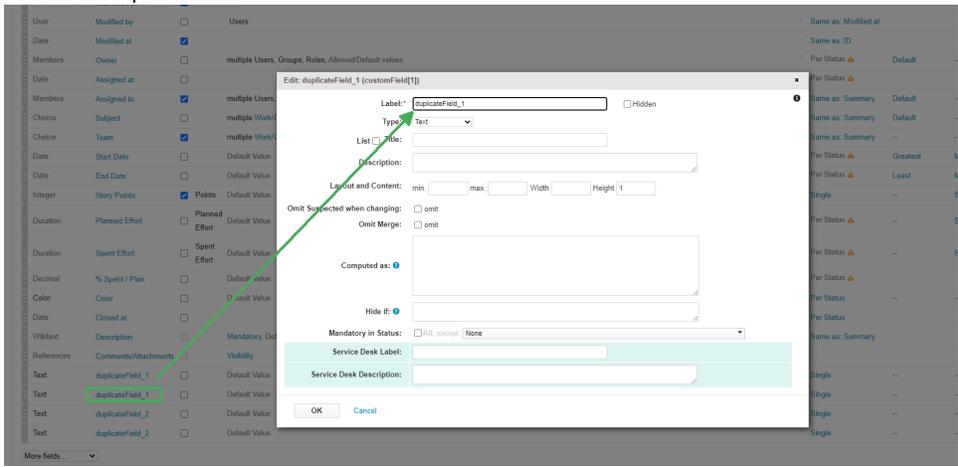
Ensure Uniqueness of Tracker Field Names

Basically, codeBeamer tries to ensure that no field definitions with identical names are created for a tracker.

It might happen, that your tracker contains such duplicate field definitions anyways, f.e. when working with tracker templates and adding the field definition in both the tracker and the template. In this case, the codeBeamer connector cannot create a valid mapping for such a tracker, and will inform you as such when selecting the tracker in the Mapping Configuration UI:

There are two ways to fix this issue in the tracker's configuration:

1. rename the duplicate field:



2. remove the duplicate field:



Mapping Configuration

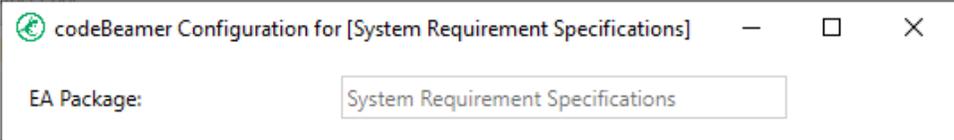
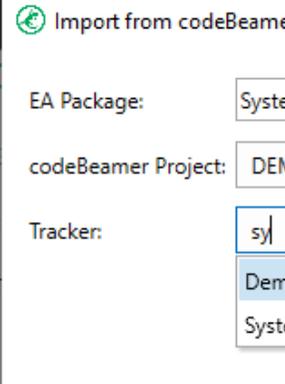
The Mapping Configuration is used to define which attributes from codeBeamer work items are mapped to attributes from Enterprise Architect elements (and also vice versa).

Pro Edition Disclaimer

This feature is only available in the [Pro Edition](#). To get more information about the configuration feature in the Light Edition, please see [Light Edition Configuration](#).

The configuration is maintained via its own dialog, which can be accessed via the addin menu point "Configure Mapping for Package". It is also automatically invoked when starting an import/export for a package which does not yet have a fully configured mapping.

Here is an explanation of the different section in the mapping user interface:

UI Section	Title
	<p>Reference to EA</p> <p>The package in EA, which is associated with the codeBeamer work item. The associated package is always the one on which the import/export is performed.</p>
	<p>Reference to codeBeamer</p> <p>The codeBeamer Project and Tracker. You can type in the name of the tracker / project.</p> <div data-bbox="1133 968 1494 1535" style="border: 1px solid green; padding: 5px;"> <p>Searching for Projects and Trackers</p> <p>If you want to find a specific codeBeamer work item, you can type in the name. A filter will be applied and the list of results will be shown.</p>  </div>

Direction: Import from codeBeamer Export to codeBeamer Export Diagrams

Mapping Template:

EA Connector for Trace Link:

codeBeamer Field for Trace Link:

Mapping Settings

- Direction**
Either import **from** codeBeamer to EA or export from EA to codeBeamer. If you select "Export to codeBeamer", the connector will be used to export type and attribute mappings from the EA model to codeBeamer.
- Mapping Template**
A mapping template provides example attribute mappings. The connector will use the template and attribute mappings from the EA model to codeBeamer.
- EA Connector for Trace Link**
The connector type that is used for the EA model to codeBeamer connector.
- codeBeamer Field for Trace Link**
The reference field in codeBeamer that is used for the "Subject" field (ID 17) is supported.

i Please note that the configuration will erase any customizations.

CodeBeamer Type	UML Type	UML Stereotype
Folder	Package	
Non-functional	Requirement	NonfunctionalRequirement
Functional	Requirement	FunctionalRequirement
Legal	Requirement	RegulatoryRequirement
Security	Requirement	SecurityRequirement
TrackerItem	Requirement	

Type Mappings

A list of which codeBeamer tracker item types are mapped to UML types.

For a detailed explanation, see the chapter on Trace Link Configuration.

Attribute Mappings for codeBeamer Type "Folder":

CodeBeamer	Enterprise Architect
ID	Id (Tagged Value)
Summary	Name
Submitted at	Created Date
Assigned to	AssignedTo (Tagged Value)
Story Points	StoryPoints (Tagged Value)
Modified at	Modified Date
Description	Notes

Attribute Mappings

A list of which codeBeamer fields are mapped to Enterprise Architect properties or tagged values.

For a detailed explanation, see the chapter on Trace Link Configuration.

Trace Link Configuration

The Trace Link Configuration determines how traceability links are realized in Enterprise Architect. The provided selection is between various types of connectors provided by Enterprise Architect, and has implications for both the import and the export of functionalities:

- On Import, traceability links in the Enterprise Architect model are realized as connectors of the selected type between the imported elements
- On Export, traceability links in codeBeamer are established based on connectors of the selected type in the Enterprise Architect model



Traceability links in codeBeamer are realized as references in the "subject" field

Type and Attribute Mappings

It is possible to create a mapping for a codeBeamer tracker item type.

A mapping consists of the following entries:

- **Type Mapping**
Defines which codeBeamer tracker item type is mapped to which EA element type
- (one or many) **Attribute Mappings**
Defines which attributes from a tracker item are mapped to which attributes from an EA element

If you select a **Type Mapping** in the configuration UI, the list of attributes will always show the attributes related to the selected **Type Mapping**:

codeBeamer Configuration for [System Requirement Specifications]

EA Package: System Requirement Specifications

codeBeamer Project: Power Window Controller

Tracker: System Requirement Specifications

Direction:

 Import from codeBeamer

 Export to codeBeamer

 Export Diagrams

Mapping Template: Advanced Requirements Mapping Load

EA Connector for Trace Link: None

codeBeamer Field for Trace Link:

CodeBeamer Type	UML Type	UML Stereotype
Folder	Package	
Non-functional	Requirement	NonfunctionalRequirement
Functional	Requirement	FunctionalRequirement
Legal	Requirement	RegulatoryRequirement
Security	Requirement	SecurityRequirement
TrackerItem	Requirement	

Add Edit Remove

Attribute Mappings for codeBeamer Type "Folder":

CodeBeamer	Enterprise Architect
ID	Id (Tagged Value)
Summary	Name
Submitted at	Created Date
Assigned to	AssignedTo (Tagged Value)
Story Points	StoryPoints (Tagged Value)
Modified at	Modified Date
Description	Notes

Add Edit Remove

Cancel Save

Type Mapping

The type configuration establishes a list of one-to-one relations between a specific codeBeamer element type and its UML equivalent in the Enterprise Architect model.

i Keep in mind, that since EA 15 only stereotypes from a stereotype definition or an UML Profile / MDG Technology can be used. It is not possible to enter a "free-text" stereotype.

Generic Type Mapping "TrackerItem"

The first entry in the list of available codeBeamer types is called "TrackerItem". This type is used as a generic type mapping, which applies to **every** item found in the codeBeamer tracker.

However, if you also define a type mapping, which refers to a codeBeamer type stored in the field "Categories", all elements with the corresponding type will be taken into account.

For example:
A tracker consists of five tracker items:

- Item 1: Category = "-"
- Item 2: Category = "Functional"
- Item 3: Category = "Non-Functional"
- Item 4: Category = Folder
- Item 5: Category = Folder

The type mapping is defined as follows:

codeBeamer Type	EA Type
Folder	Package
TrackerItem	Requirement

This mapping will create EA Packages for the items "Item4" and "Item5". Every other element, no matter the type, will be created as EA Requirement.

i Generic Type Mapping at the end

In order to define a "fallback type mapping", you have to add the generic type mapping "TrackerItem" at the end. If the generic type mapping is added at the beginning, it will overwrite every other mapping and will be used as default.

Filter out unwanted tracker item types

It is possible to only import a specific set of tracker item types. You can do that by not configuring a "generic tracker item mapping", as it is described above.

For example:
A tracker consists of five tracker items:

- Item 1: Category = "-"
- Item 2: Category = "Functional"
- Item 3: Category = "Non-Functional"
- Item 4: Category = Info
- Item 5: Category = Info

The type mapping is defined as follows:

codeBeamer Type	EA Type
Functional	Requirement
Non-Functional	Requirement

This mapping will only import the tracker items "Item2" and "Item3", since there is no default type mapping, that considers tracker items with other types.

Special Case "Requirement"

The basis for the connector and the mapping to EA element is UML. Since Requirement elements are not standard UML but EA is providing them, a special mapping entry has to be introduced.

Attribute Mapping

The attribute mapping defines which attributes from a codeBeamer element are mapped to which attributes of an EA element (and vice versa).

 The attributes available for mapping are partially dependent on the selected tracker, as the tracker might offer custom attributes.

Mandatory Attribute Mapping for the "Open in codeBeamer" Feature

It is possible to open a tracker item directly in codeBeamer, by either double clicking the representative element in EA, or selecting the menu *Specialize > codeBeamer Connector > Open in codeBeamer*.

To enable this feature, an attribute mapping for the codeBeamer field "Uri" has to be created. If you create a custom mapping, the connector will automatically create this mapping entry for you.

Every new attribute mapping that will be created, consists of the following mappings:

- Summary → Name
- Description → Notes
- Uri → Uri (Tagged Value)

 If you remove the Uri mapping, the "Open in codeBeamer" feature will be disabled.

Light Edition Configuration

The Light Edition of the codeBeamer Connector allows the user to configure the following:

- codeBeamer Project
- codeBeamer Tracker

Searching for Projects and Trackers

If you want to find a specific codeBeamer project or tracker quickly, just click into the combo box and start typing the name. A filter will be applied and the list will offer all matching projects or trackers:

The data from the selected tracker will be imported using a standard mapping:

codeBeamer Attribute	EA Attribute
ID	Id (Tagged Value)
Summary	Name
SubmittedAt	CreatedDate
Uri	Uri (Tagged Value)
ModifiedAt	ModifiedDate



This edition won't store the settings made by the user. If you want to save the codeBeamer project and tracker, as well as define an attribute mapping, please consider the [Pro Edition](#).

Frequently Asked Questions

We grouped the frequently asked questions in to the categories Enterprise Architect support, codeBeamer support, functionality, failing imports & exports:

- [Enterprise Architect Support](#)
 - Which versions of Enterprise Architect are supported?
 - Does the import & export of data run on a local client only?
 - Does the connector work with the EA Cloud Service?
 - Does the connector work on server-based EA repositories?
 - Does the connector work with encrypted EA connection strings?
- [codeBeamer Support](#)
 - How can I configure the codeBeamer Server?
 - Which codeBeamer server version are supported?
- [Functionality](#)
 - Do I have the latest version of the connector installed?
 - Does the connector write log files and where can I find them?
 - Is it possible to import / export connectors from / to codeBeamer?
 - How can I filter out unwanted tracker item types for a codeBeamer import?
 - How can I reverse a parent - child relationship for EA elements exported to codeBeamer?
 - Why is the feature "Open in codeBeamer" disabled?
 - What does the codeBeamer type "TrackerItem" mean?
- [Failing Imports & Exports](#)
 - Why is the import of requirements aborting with an error message similar to "Unsupported type change: ..."?
 - Why is the export to codeBeamer failing with the error message "field with xx id is not writable"?

Enterprise Architect Support

Which versions of Enterprise Architect are supported?

Please see the documentation of the [System Requirements](#).

Does the import & export of data run on a local client only?

Yes, but the technology is ready for automated execution on server-side.

Feel free to contact us for an discussion on your specific expectations regarding server-side execution as we definitely want to leverage the potential of the used technology:

welcome@lieberlieber.com or info@intland.com.

Does the connector work with the EA Cloud Service?

No, the EA Cloud Service is not supported. Only direct database connections are supported.

Does the connector work on server-based EA repositories?

Yes, the connector supports the following database systems:

- MySQL
 - 64-bit drivers are required
- Microsoft SQL Server
- Oracle

Does the connector work with encrypted EA connection strings?

No, the connector does not support connection strings, which are encrypted.

codeBeamer Support

How can I configure the codeBeamer Server?

Please see the following guide: [Credentials for the codeBeamer Server](#).

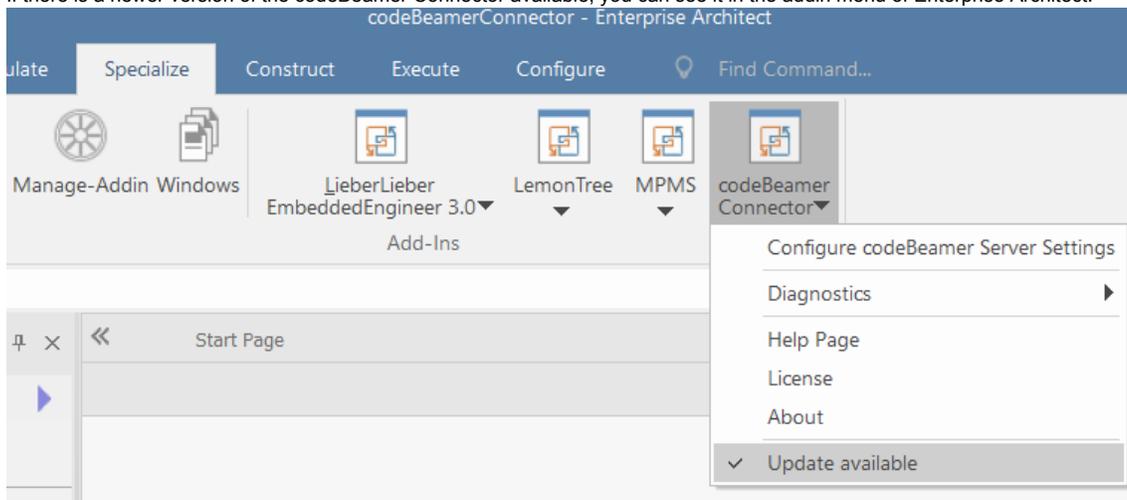
Which codeBeamer server version are supported?

Please see the documentation of the [System Requirements](#).

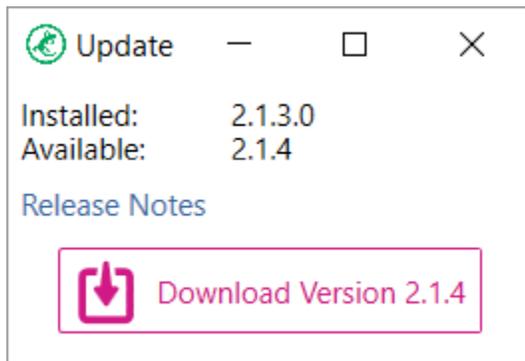
Functionality

Do I have the latest version of the connector installed?

If there is a newer version of the codeBeamer Connector available, you can see it in the addin menu of Enterprise Architect:



If you click the menu "Update available", you will see the information about the new version and you will be able to download the latest version:



Does the connector write log files and where can I find them?

Yes, the connector does write log files. All log files are located at "%appdata%/LieberLieber/codeBeamer.EaConnector/logs". If you need to provide log files to the LieberLieber Support (support@lieberlieber.com), it helps us to use the extended logging mechanism.

In the main menu of EA, select *Specialize > codeBeamer Connector > Diagnostics > Enable extended logging*. This will create more detailed log files for the current EA session (until EA is closed).

i Please note, that this can potentially log sensitive information, since we log the data that is coming from the trackers in detail.

To get the log files, use the menu *Specialize > codeBeamer Connector > Diagnostics > Export logs...* This will create a zip archive containing all log files.

Is it possible to import / export connectors from / to codeBeamer?

Yes, it is possible to define a mapping for a so called "Trace Link". The connector will take the codeBeamer field "Subject" into consideration. Connectors in EA are mapped to "Upstream References" in codeBeamer.

For further information please see the following pages:

- [Import of Traceability Links between codeBeamer Elements](#)
- [Export of Traceability Links between codeBeamer Requirements and EA Architecture Elements](#)

for more info.

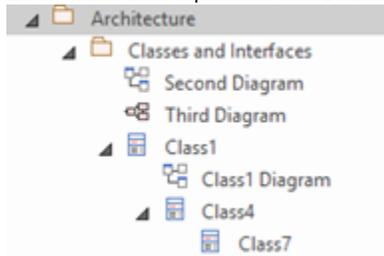
How can I filter out unwanted tracker item types for a codeBeamer import?

It is possible only import specific tracker item types. For more information, check out the guide [Mapping Configuration](#).

How can I reverse a parent - child relationship for EA elements exported to codeBeamer?

Think about the given scenario:

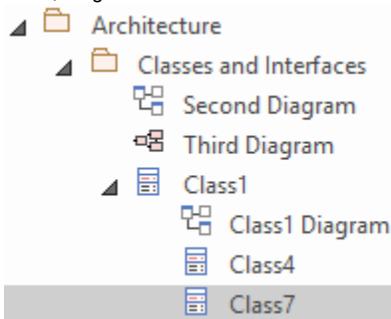
EA elements were exported to codeBeamer:



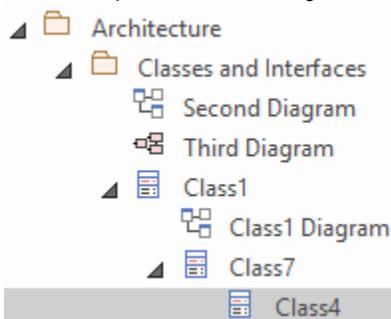
If you try to reverse the parent – child relationship for „Class4“ and „Class7“ in EA and export this to codeBeamer, the export will fail. The API of codeBeamer does not allow such a change in one single write operation.

For the example given above, do the following:

1. In EA, drag "Class7" onto "Class1":



2. Start the export to codeBeamer.
3. When the export was finished, drag "Class4" onto "Class7" in order to make it a sub element of "Class7":



4. Run the export to codeBeamer again.

The result is a successful reversal of the parent – child relationship, done in two steps.

Why is the feature "Open in codeBeamer" disabled?

This feature requires the codeBeamer field "Uri" mapped to an EA tagged value, called "Uri".
For more information, see [Mandatory Uri Attribute Mapping](#).

What does the codeBeamer type "TrackerItem" mean?

In the configuration UI, the codeBeamer type "TrackerItem" means a generic type. This is used to configure a mapping, which applies to **every item in the tracker**. This is useful, if you want to have a quick and easy mapping, that covers all elements from the tracker. It can be also used as a "fallback" mapping, which considers all elements without a specific "Category".

For more information, please see the documentation for the [TrackerItem Type](#).

Failing Imports & Exports

Why is the import of requirements aborting with an error message similar to "Unsupported type change: ..."?

This error occurs if the import would change any EA element to an EA package, or the other way round. This can occur if you change the mapping or for example the value of an attribute, which is mapped to the element type (such as the "type" attribute in codeBeamer, changed from "Folder" to "Functional")

In Enterprise Architect, UML elements are stored in different database tables. A class, interface, usecase, requirement, etc. is treated as an "object" and is stored in a different database table as a package.

Changing the type from any element to package (or package to element) would trigger a switch of the database table, which is not allowed. In EA it is also not possible to create such a change to an element or a package.

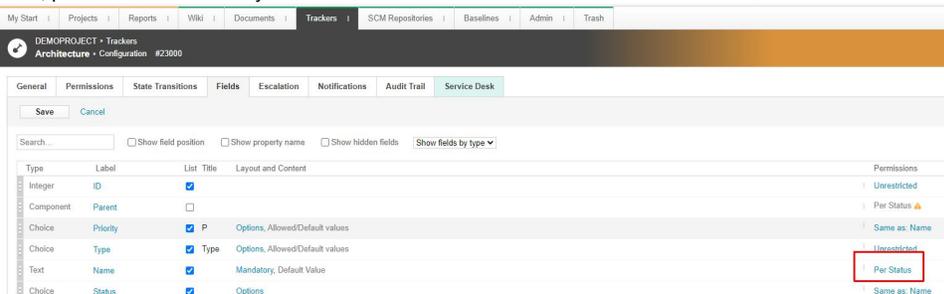
Why is the export to codeBeamer failing with the error message "field with xx id is not writable"?

This error can occur, when the connector tries to write a field in codeBeamer, for which the user doesn't have proper permissions.

To solve this, you need to change the configuration of the tracker you are exporting to. The following description shows how to set the proper permissions for the "Name" field (ID 3).

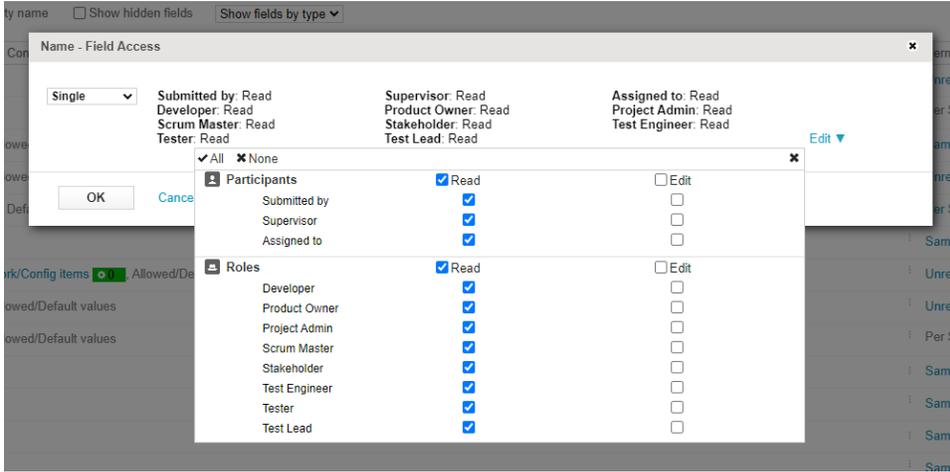
You can change the permission for the "Name" field with the following steps:

1. You can access the Configuration by right clicking on the Tracker > Configure.
2. Then navigate to the menu "Fields".
3. Next, please click on the entry in the column "Permission" in the row of the field "Name":



4. After that you can change the permissions for the field (the option "Unrestricted" removes all restrictions, but then any user can change the field at any time).

5. Alternatively, you can control the permissions for the groups by assigning specific groups with the "Single" option:



Changelog

You can check, if you have installed the latest version. For more information, check the guide in the FAQs: [Check for latest version](#)

Release Date

- EA Connector for codeBeamer version 2.1.3 was released on November 2nd, 2020.
- EA Connector for codeBeamer version 2.1.2 was released on October 2nd, 2020.
- EA Connector for codeBeamer version 2.1.1 was released on July 23rd, 2020.
- EA Connector for codeBeamer version 2.1.0 was released on May 14th, 2020.



codeBeamer Version Restriction

The versions 2.1.x of the EA Connector for codeBeamer **only support codeBeamer version 10 and version 10.1**.

The minimum supported version of codeBeamer is **version 9.5**.

If you want to use codeBeamer version 9.5, please use the **older version 2.0.5** of the EA Connector for codeBeamer: [Release 2.0](#)

For more information on the compatibility of codeBeamer / Retina versions and versions of the connector, please refer to the [System Requirements](#).

What's New

Category	Description	Version
Extended logging	To help us with the analysis of an issue, we introduced the "extended logging mode". In this mode, all loggers are set to the level "Debug" for the current session (until EA is closed). Also, all calls from the codeBeamer REST API are logged in detail.	2.1.3
Mapping UI improvements	Several aspects of the Mapping UI were improved, f.e. a filter functionality was added for all lists (projects, trackers, etc.) and the list are now sorted alphabetically.	2.1.3
Inform user about new release	If a new release of the connector is available, the user will be informed in the EA menu with a new menu entry called "Update available".	2.1.3
Extended list of supported UML Types	The list of UML Types, which can be used in the Type Mapping for EA was extended. Since our technology is based on UML, we also use the UML names of the element types. Please see the Mapping Table of EA to UML Types for more details.	2.1.3
Export Logfiles	A new EA menu was introduced, which exports all the log files the connector is writing.	2.1.2
Check codeBeamer version in "Server Settings" dialog	If you use the "Test Connection" button in the "Server Settings" dialog, the codeBeamer server version is checked for a supported version.	2.1.2
Floating license as default license type	If the license management dialog is started, the license type "floating" is selected as default.	2.1.1
Support of codeBeamer version 10	codeBeamer version 10 is now supported.	2.1.0

Fixed Issues

Category	Description	Version
Duplicate field definition	The configuration of a tracker, which has duplicate field definitions, led to a crash of EA. According to Inland this	2.1.3

causes EA crash	is not supported and should be fixed. Please see the guide Configure a codeBeamer Tracker for Import of codeBeamer Elements for more details.	
Setting of tracker item type doesn't work on export	During export, the setting of the tracker item type (field "Categories") was not working properly.	2.1.3
Mapping UI does not offer codeBeamer type values	There was an issue with fetching the available codeBeamer tracker item types (from the field "Categories").	2.1.3
Mapping UI doesn't recognize requirements with custom stereotypes	There was an issue in the mapping UI, when reading a custom created stereotype for the element type "Requirement".	2.1.3
Re-export of model to codeBeamer fails	The re-export of models to codeBeamer with version 10.1 didn't work.	2.1.2
Wrong text in license dialog	If a floating license was applied in the license dialog (instead of applying it on the RLM server) the EA plugin indicated that the provided licenses was not a LemonTree license.	2.1.1
Tracker package name wasn't updated properly	The name of the package, which represents the tracker after an import was not updated accordingly in the EA database. After a reload of the EA project, you could still see the previous package name. Once the package was selected, the name was refreshed and the name of the tracker was displayed.	2.1.1
Import to SQL-based EA Repositories failed	If an EA Repository, hosted on an SQL Server was used for importing data from codeBeamer, the operation failed.	2.1.1
Mapping UI shows wrong direction of sync	If you started an export to codeBeamer for the first time, the Mapping UI opened and the radio button "Import" was pre-selected.	2.1.0
Moved diagram gets duplicated in codeBeamer	If a diagram in codeBeamer was moved in EA and then exported to codeBeamer, the attachment image was duplicated in codeBeamer.	2.1.0

Known issues

Category	Description	Version
Import to SQL EA Repositories	The import into EA projects, which are stored on SQL databases, is not supported. → This issue was resolved in the release 2.1.1	2.1.0

All Releases in Detail

[Release 2.1](#)

[Release 2.0](#)

Release 2.1

Release Date

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codeBeamer Version Restriction

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What's New

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Floating license as default license type	If the license management dialog is started, the license type "floating" is selected as default.	2.1.1
Support of codeBeamer version 10	codeBeamer version 10 is now supported.	2.1.0

Fixed Issues

Category	Description	Version
Duplicate field definition causes EA crash	The configuration of a tracker, which has duplicate field definitions, led to a crash of EA. According to Intland this is not supported and should be fixed. Please see the guide Configure a codeBeamer Tracker for Import of codeBeamer Elements for more details.	2.1.3

Setting of tracker item type doesn't work on export	During export, the setting of the tracker item type (field "Categories") was not working properly.	2.1.3
Mapping UI does not offer codeBeamer type values	There was an issue with fetching the available codeBeamer tracker item types (from the field "Categories").	2.1.3
Mapping UI doesn't recognize requirements with custom stereotypes	There was an issue in the mapping UI, when reading a custom created stereotype for the element type "Requirement".	2.1.3
Re-export of model to codeBeamer fails	The re-export of models to codeBeamer with version 10.1 didn't work.	2.1.2
Wrong text in license dialog	If a floating license was applied in the license dialog (instead of applying it on the RLM server) the EA plugin indicated that the provided licenses was not a LemonTree license.	2.1.1
Tracker package name wasn't updated properly	The name of the package, which represents the tracker after an import was not updated accordingly in the EA database. After a reload of the EA project, you could still see the previous package name. Once the package was selected, the name was refreshed and the name of the tracker was displayed.	2.1.1
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Moved diagram gets duplicated in codeBeamer	If a diagram in codeBeamer was moved in EA and then exported to codeBeamer, the attachment image was duplicated in codeBeamer.	2.1.0

Known issues

Category	Description	Version
Import to SQL EA Repositories	The import into EA projects, which are stored on SQL databases, is not supported. → This issue was resolved in the release 2.1.1	2.1.0

Release 2.0

Release Date

- EA Connector for codeBeamer version 2.0.0 was released on February 7th, 2020.
- EA Connector for codeBeamer version 2.0.1 was released on February 19th, 2020.
- EA Connector for codeBeamer version 2.0.2 was released on April 1st, 2020.
- EA Connector for codeBeamer version 2.0.3 was released on April 16th, 2020.
- EA Connector for codeBeamer version 2.0.4 was released on April 28th, 2020.
- EA Connector for codeBeamer version 2.0.5 was released on August 21st, 2020.



codeBeamer Version Restriction

The versions 2.0.x of the EA Connector for codeBeamer **only support codeBeamer version 9.5**.
The minimum supported version of codeBeamer is **version 9.5**.

If you want to use codeBeamer version 10, please use the **current version 2.1.1** of the EA Connector for codeBeamer: [Release 2.1](#)

What's New

Category	Description	Version
Floating license as default license type	If the license management dialog is started, the license type "floating" is selected as default.	2.0.5
Menu location of "Configure codeBeamer Server Settings"	The menu for configuring the server codeBeamer server settings (URL, user and password) is now accessible from everywhere in EA (main menu, project browser and diagram context menu).	2.0.5
Impact of Import/Export is shown (as count)	If you import / export data, the connector now displays how many elements will be added / modified if you continue with the operation.	2.0.2
Export Diagrams of imported requirements	It is now possible to export diagrams to codeBeamer, from packages that were initially imported from codeBeamer. This feature enables you f.e. to import requirements from codeBeamer and enhance the description with a diagram, that can be export back to codeBeamer.	2.0.2
Licensing: Floating	Floating Licenses were introduced.	2.0.2
Licensing: Demo Mode	If there is no valid license, it is now possible to start a demo mode once , which enables a trial period of 30 days.	2.0.2
Progress bar for Mapping UI	A progressbar was added, which is displayed during the initialization of the mapping UI.	2.0.1
Initial Version of the EA Connector for codeBeamer	The predecessor of the connector (version 1.x) was implemented by Intland. This is the first version published by LieberLieber.	2.0.0

Fixed Issues

Category	Description	Version
TSL error when connecting to the codeBeamer server	There were connection problems with TSL v1.3 when connecting to codeBeamer for configuring the mapping.	2.0.5

Create Custom Mapping: newly added tagged value attribute is not considered in cB data synchronization	If a custom mapping with an attribute mapping including a tagged value was created, the tagged value attribute was not considered during cB import / export.	2.0.5
Wrong text in license dialog	If a floating license was applied in the license dialog (instead of applying it on the RLM server) the EA plugin indicated that the provided licenses was not a LemonTree license.	2.0.5
Tracker package name wasn't updated properly	The name of the package, which represents the tracker after an import was not updated accordingly in the EA database. After a reload of the EA project, you could still see the previous package name. Once the package was selected, the name was refreshed and the name of the tracker was displayed.	2.0.5
Import to SQL-based EA Repositories failed	If an EA Repository, hosted on an SQL Server was used for importing data from codeBeamer, the operation failed.	2.0.5
Mapping UI shows wrong direction of sync	If you started an export to codeBeamer for the first time, the Mapping UI opened and the radio button "Import" was pre-selected.	2.0.5
Trace Links were not consistently created	The trace links to other tracker items were not created consistently for each export of new data to codeBeamer.	2.0.4
Changed diagram was not exported	Changes in diagrams were not recognized as changes, therefore the diagrams were not exported.	2.0.4
Diagram duplication in codeBeamer	The image of an exported diagram was added every time an export was executing, hence duplicating the attachment of the tracker item.	2.0.3
Import/Export-Workflow	Packages that were initially imported can only be synchronized with an Import and packages that were initially exported can only be synchronized with an Export .	2.0.2
Performance of Mapping UI	The start-up performance of the mapping UI was improved significantly.	2.0.2
Credentials in logfile	The backend logfile contained credentials info as plain text.	2.0.2
Removing of trace links	Traceability links that were deleted in EA were not updated in codeBeamer accordingly.	2.0.1
Progress bar for Mapping UI	A progressbar was added during the initialization of the mapping UI.	2.0.1

Known issues

Category	Description	Version
Import to SQL EA Repositories	Up to version 2.0.4 the import into EA projects, which are stored on SQL databases was not supported. → This issue was resolved in the release 2.0.5	2.0.2 - 2.0.4

Archived Documentation

This page summarizes the documentation of older connector version. New versions might include new UI screen, menu item and different features. That's why we collected older states of the help page to help you understanding older version!

- [Help Page for codeBeamer Connector until version 2.1.2.pdf](#)