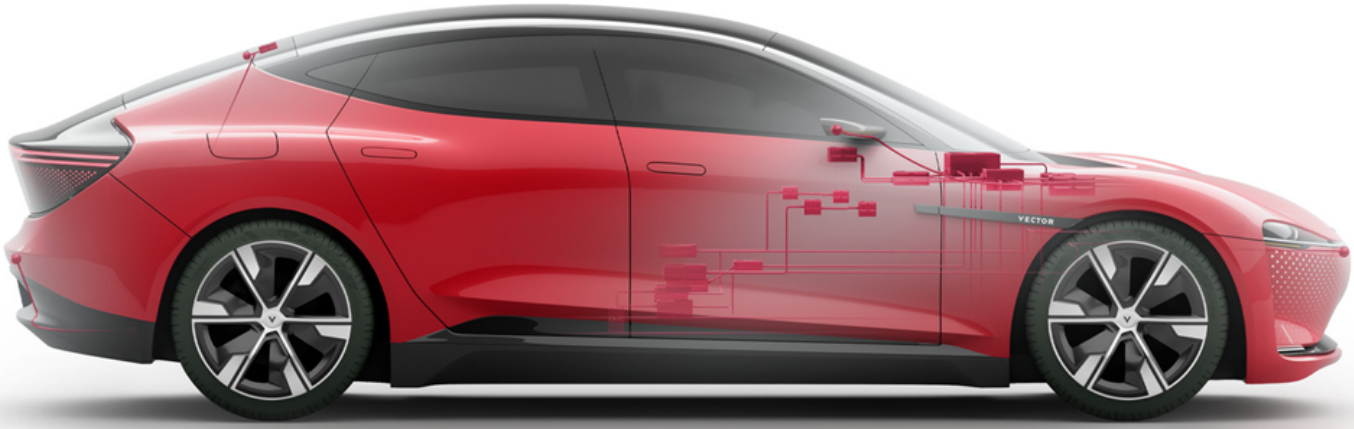
VECTOR



PREEvision

Release Notes

Version 26.1
English

Imprint

Vector Informatik GmbH
Ingersheimer Straße 24
70499 Stuttgart, Germany

Contents

1 PREEvision 26.1

This chapter contains the following information:

1.1 Version numbers

Version numbers

Application	Version number
PREEvision client	26.1.0
PREEvision license server	3.1.0
PREEvision database server	26.1.0.07
PREEvision application server	26.1.0

Documentation

Manual	Version number
PREEvision manual	26.1.0
PREEvision configuration manual	26.1.0
PREEvision operating manual	26.1.0
PREEvision migration manual	26.1.0
PREEvision system requirements	26.1.0
PREEvision server API	26.1.0

1.2 Installation and compatibility information

For detailed information about the hardware and software requirements of PREEvision 26.1, refer to the PREEvision system requirements.

For detailed information about the installation of PREEvision 26.1, refer to the PREEvision operating manual.

For detailed information about the migration from PREEvision 10.x to PREEvision 26.1, refer to the PREEvision migration manual.

Automatic client update

The application update and release assistant enables the PREEvision client to be automatically updated without any user interaction:

- Full client updates can be provided upon client startup.
- The application update must be enabled and configured on the application server. Additionally, the update must also be enabled on the PREEvision clients.
- The client update files can be located at a fileshare location or downloaded via staging.
- The download can be executed in advance, so that clients get the update files in advance. As soon as a compatible server is available, the update is installed automatically, which enables a faster installation process.
- The administration panel provides the new **Application Update** page to define settings for the update and trigger the release of the client update.

Proxy settings

The configuration options for proxy settings on the client and on the server have been expanded and improved. By default, proxy settings are defined in the client **Preferences**. Additionally, the proxy settings are applied immediately after clicking **[Apply]**.

Alternatively, you can define the proxy settings on client startup via JVM parameters. Therefore, add the following parameter to the `PREEvision.ini`:

```
-Dorg.eclipse.net.core.enableProxyService=false
```

Additionally, add JVM parameters for the proxy settings.

On the application server, the API server, the messaging server, and the administration server, you can also optionally define proxy settings via JVM parameters on server startup, for example:

```
-Dhttp.proxyHost
-Dhttp.proxyPort
-Dhttps.proxyHost
-Dhttps.proxyPort
...
```

System requirements

The following system requirements have been changed:

- Amazon Corretto version 25.0.2.10.1 is provided with the PREEvision client installation. It is recommended to use this version on all server components as well.
- Apache Tomcat 11 is now required for all server components. It is recommended to use Apache Tomcat version 11.0.21.

- The standalone license server is available in the new version 3.1.0.
  When you use the standalone PREEvision license server (RMI), it is recommended to update the license server to the new version 3.1.0.
  Amazon Corretto that is provided with the Windows installer of version 3.1.0 has been updated to version 25.0.2.10.1.

Collaboration platform installation and server configuration

The redirect server has been introduced to provide PREEvision URLs. The new server application vCollabRedirect can be deployed in the messaging server or in a separate Tomcat. If you set `build.combine.associated.components=true` in the `deploy.properties`, the vCollabMessaging server automatically combines the applications vCollabMessaging, vCollabAuthentication, and vCollabRedirect.

In the `deploy.properties`, you can define the following properties for the vCollabRedirect application:

- `vCollabRedirect.context.name`: Name of the web application and name of the generated WAR file
- `vCollabRedirect.server`: URL used by a client to access the redirect server. Change the URL if the client may access the redirect server via a proxy. In this case, enter the address of the proxy.

The following parameter is no longer required for the startup of Apache Tomcat. Remove it from the Apache Tomcat startup parameters of all server components:

```
-Djava.security.manager=allow
```

With the use of Java 25, additional parameters are required for the startup of Apache Tomcat. Add the following parameters to the Apache Tomcat startup parameters of all server components:

```
-Djdk.xml.maxGeneralEntitySizeLimit=0
-Djdk.xml.totalEntitySizeLimit=0
-XX:+UseCompactObjectHeaders
```

Compatibility

The PREEvision client, the database server and the PREEvision server are only compatible within exactly the same PREEvision version. Using a new client version on a previous server version or a previous client version on a new server version is not supported and may lead to data inconsistencies or data loss.

Client version	Server version	Database server script version	Metamodel change ID
26.0.0	26.0.0	26.0.0.02	2025-11-17
26.1.0	26.1.0	26.1.0.07	2026-04-07

Update and migration

For an update of an existing PREEvision collaboration platform environment, all components with a changed version number in the compatibility table must be updated, which includes:

- PREEvision client
- PREEvision database server script
- PREEvision application on the application server
- PREEvision monitoring server
- PREEvision broker:
  - PREEvision messaging server
  - PREEvision staging server

- PREEvision administration server
- optional: PREEvision API server

For detailed instructions on how to update a PREEvision collaboration platform environment, refer to the PREEvision operating manual, chapter "Update".

1.3 New features in PREEvision 26.1

Further information

- > Systems engineering
- > Software and diagnostic design
- > Wiring harness design
- > Product line engineering
- > Configuration
- > Administration
- > Usability improvements
- > Server API

1.3.1 Systems engineering

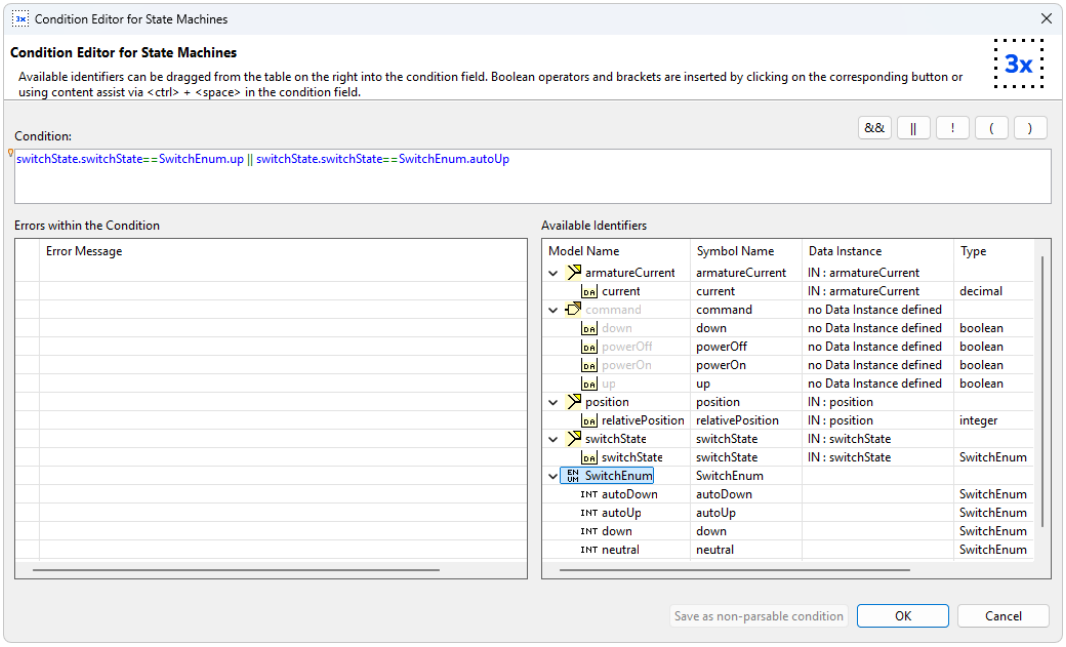
Publishing and rendering sequence diagrams

Sequence diagrams can now be published as SVG file via context menu or the Publish Diagram metric block. Additionally, SVG files can be opened via double-click in the internal web browser.

Sequence diagrams can now be rendered as image via context menu or the Render Diagram metric block.

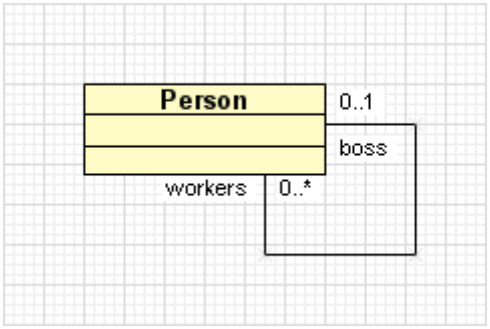
Support of enumerations in conditions

For Activity Diagrams and State Machine Diagrams, *Application Enumeration Type*s are now supported in condition expressions for all data providers, for example, to compare a data element to all defined literals of its enumeration type.

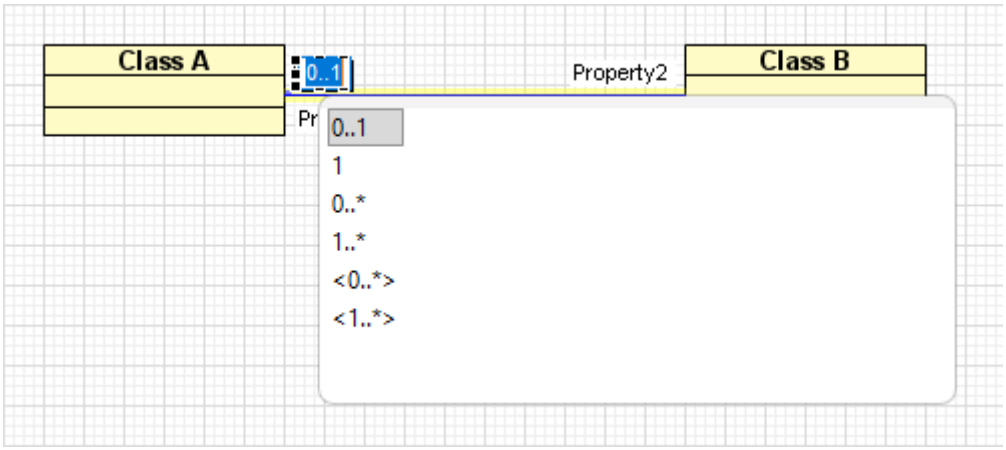


Self-associations and usability improvements for class diagrams

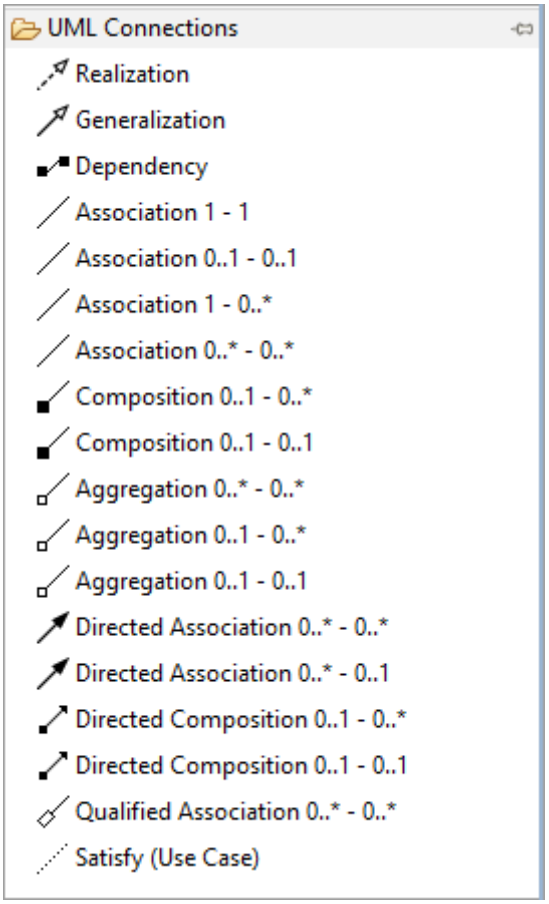
For *Class Diagram*s, it is now possible to create self-associations.



Pressing **<F2>** allows you to change multiplicities in the diagram.



New palette entries have been implemented to create relations with common multiplicities.



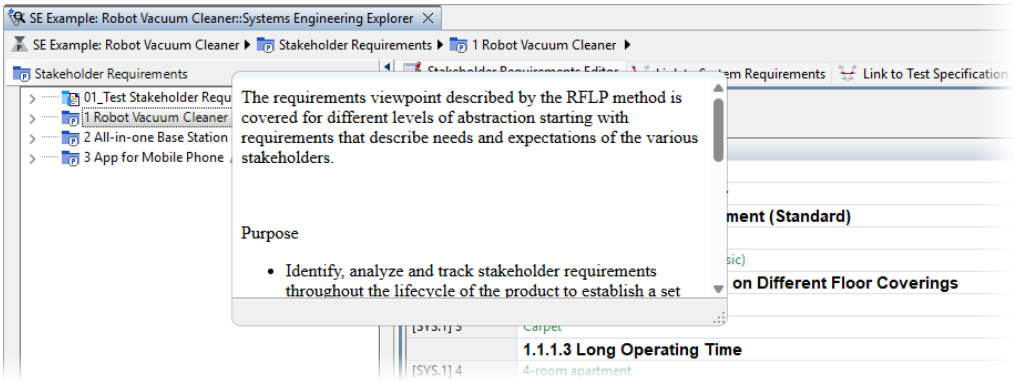
Generating UML model from java code

UML model elements can be generated via copy and paste of Java code or via drag and drop of a Java file into a *Class Diagram*.

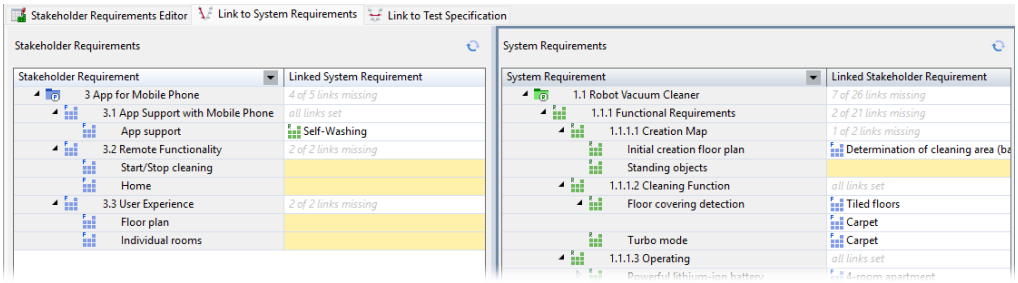
Systems engineering explorer updates

The following changes have been implemented for the **Systems Engineering Explorer**:

- When switching categories, for example, the current selection is persisted.
- Switch between name and description for requirements and *Test Item*s with the new button.
- When hovering over a category, a tooltip now appears.



> The number of missing links is aggregated in the hierarchy of the traceability tables.



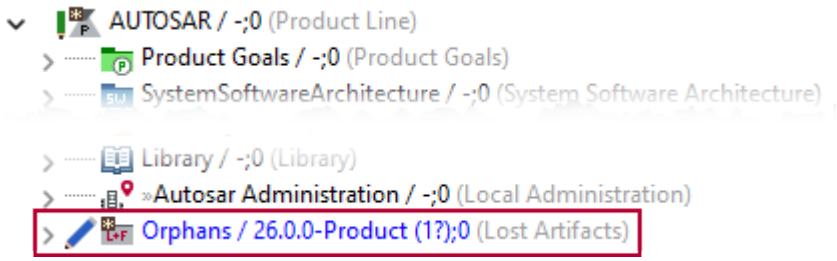
> The "SE Example: Robot Vacuum Cleaner" example in the PREEvision demo model is enhanced.

1.3.2 Software and diagnostic design

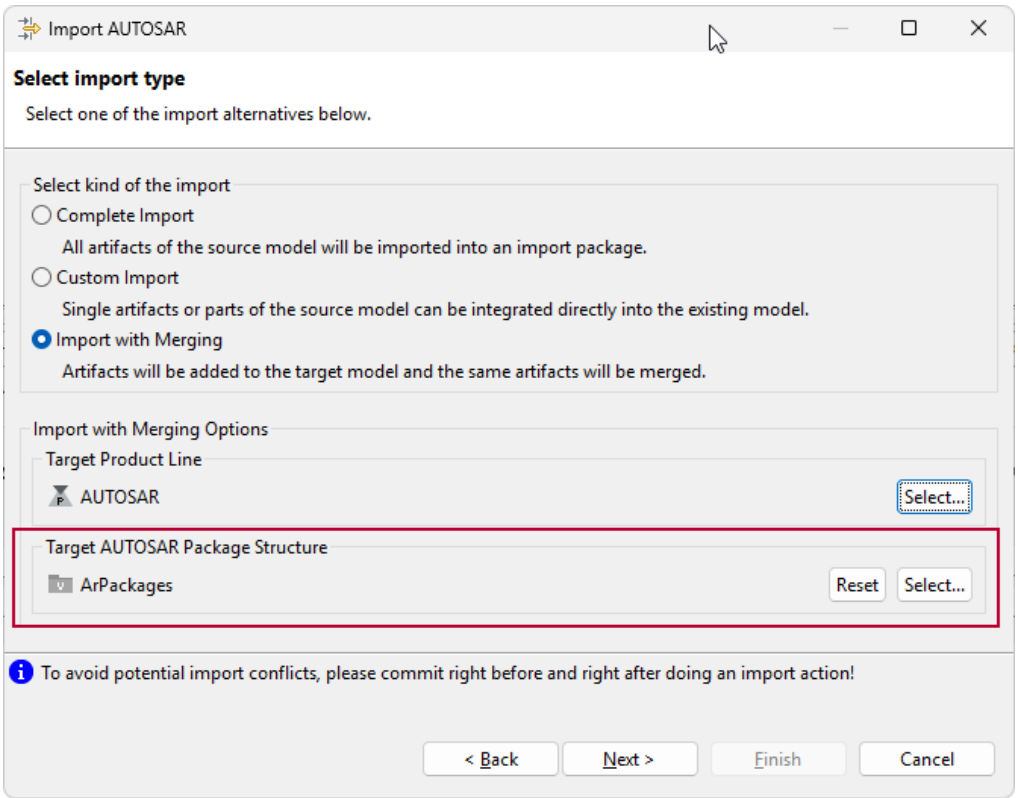
Improvements for AUTOSAR import with merging

The AUTOSAR import with merging has been optimized:

> Artifacts with no defined location in the target *Product Line* are imported into a *Lost Artifacts* package. From there they can be manually moved to the right location in the model.



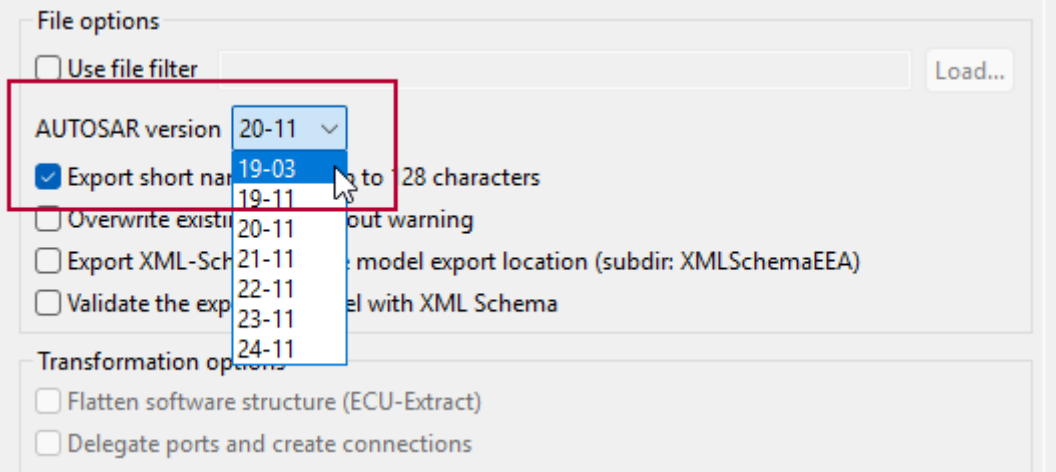
> The selection of an AUTOSAR package structure in the import wizard has been simplified.



- Import with merging can be executed in the current working *Scope*. There is no need to load a special *Scope* before import with merging anymore.
- Renaming the target *Product Line* is not necessary anymore.

Support of AUTOSAR 19-03 and 19-11

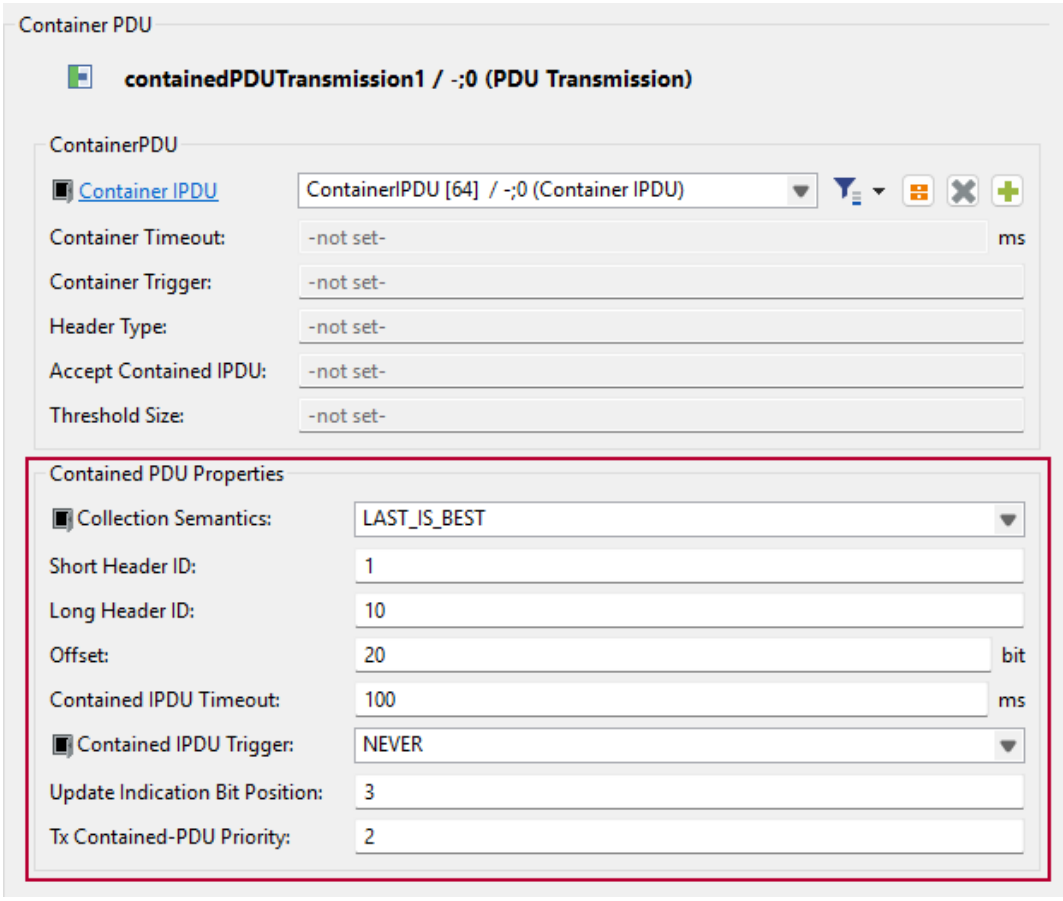
The AUTOSAR releases 19-03 and 19-11 for AUTOSAR Adaptive are supported.



Note: Concepts in AUTOSAR 19-03 or 19-11 that were introduced to PREEvision later than version 9.5 are not supported by the 19-03 and 19-11 export.

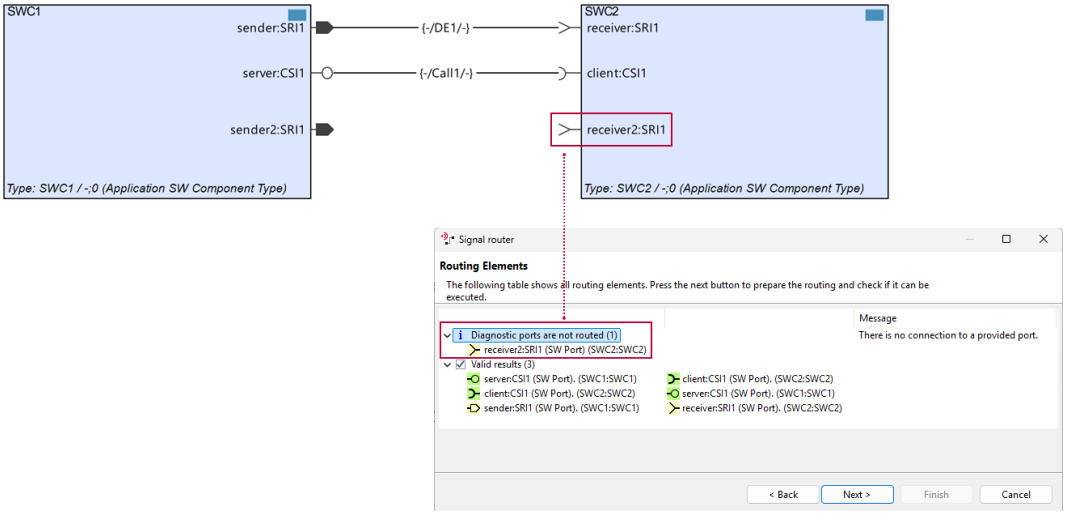
Support of container IPDU properties

As of AUTOSAR 21-11, an additional concept for describing `PDU-TRIGGERING`-specific contained properties is available. This concept for `IPdu`s contained in a ContainerIPdu is now supported.



Signal router for diagnostic and service ports

The signal router ignores unconnected required diagnostic and service ports. The signal router wizard informs the user about such ports and executes the routing of connected ports.



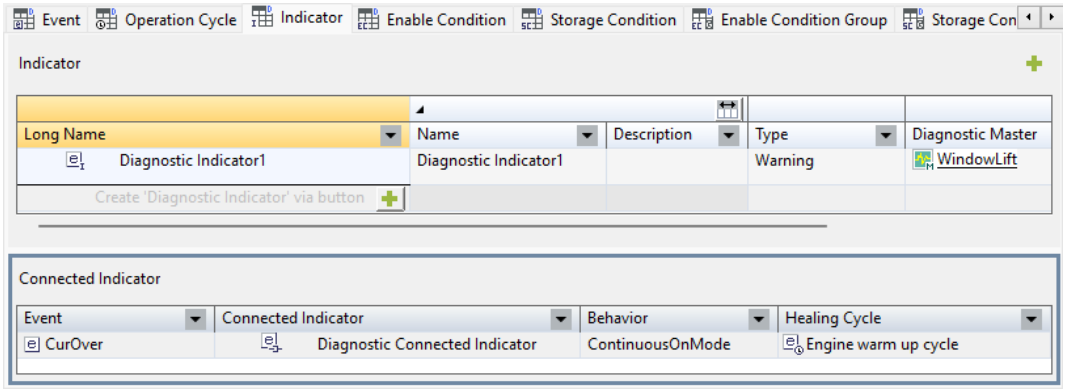
Optimization for consistency checks

Consistency checks for software, communication, and diagnostic design have been optimized:

- New naming convention has been applied.
- Severity and error message have been adapted.
- Performance of the checks has been optimized.
- Checks were assessed for redundancy and logic.

Tables for diagnostic indicators

Diagnostic indicators provide visual cues regarding the operational status of the system. The Diagnostic Concept Explorer and the Diagnostic Realization Explorer provide dedicated tables to create *Diagnostic Indicator*s and assign them to *Diagnostic Event*s.

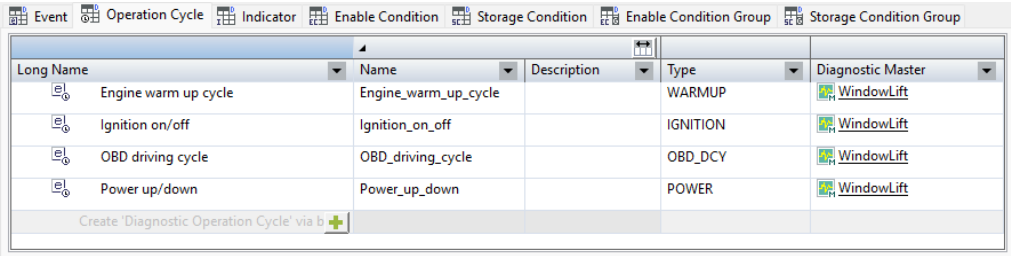


Naming convention for diagnostic artifacts

The naming of diagnostic artifacts in the Diagnostic Concept Explorer and the Diagnostic Realization Explorer has been simplified:

- In all diagnostic explorer tables, the focus is on the attribute **Long Name**.

> A new naming convention for the attributes **Long Name** and **Name** ensures AUTOSAR compliant naming.

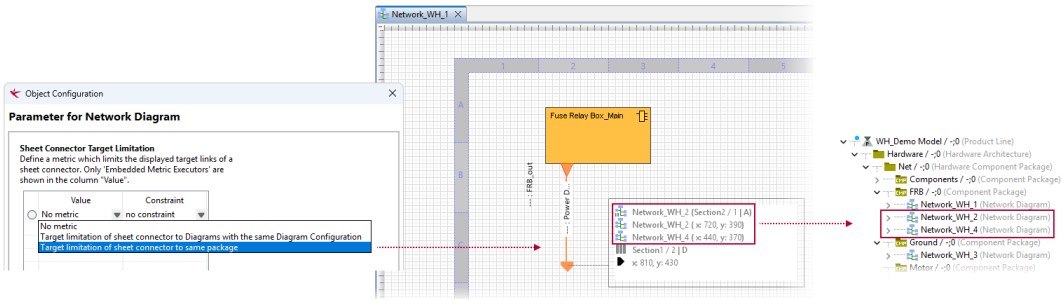


1.3.3 Wiring harness design

Limiting the display of sheet connector targets

When splitting a connection between artifacts in diagrams of the *Hardware Architecture*, *Sheet Connector*s are created at the ends of the split connection. Each *Sheet Connector* has an associated link box that references the corresponding target at the other end of the split connection. The link box allows you to navigate to the corresponding targets even if the targets are located in different diagrams.

The display of the Sheet Connector targets can be limited in the object configuration by means of using metrics. For example, the display of the *Sheet Connector* targets can be limited to those diagrams which are contained in the same package as the source diagram.

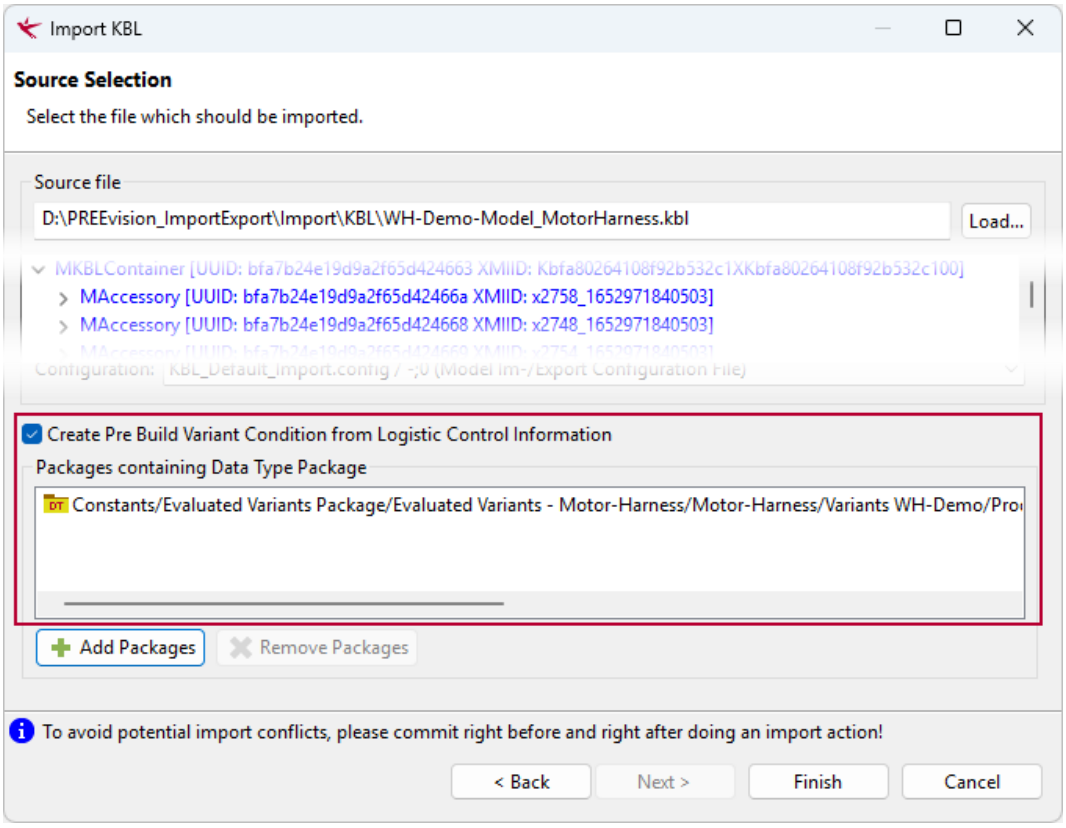


If no metric is defined or if no metric is selected in the object configuration, the display of the *Sheet Connector* targets is limited to diagrams located in the same *Product Line*. *Sheet Connector* targets in diagrams located in other *Product Line*s are never displayed.

KBL import: importing logistic control information

A new import option for importing logistic control information is available in the **Import KBL** wizard. When importing logistic control information, the variant information in the logistic control information is parsed and compared with existing *String Literal*s in the model. If matches are found, the variant information is extracted as boolean expressions, imported as *Pre Build Variant Condition* and linked to the found *String Literal*s in the model.

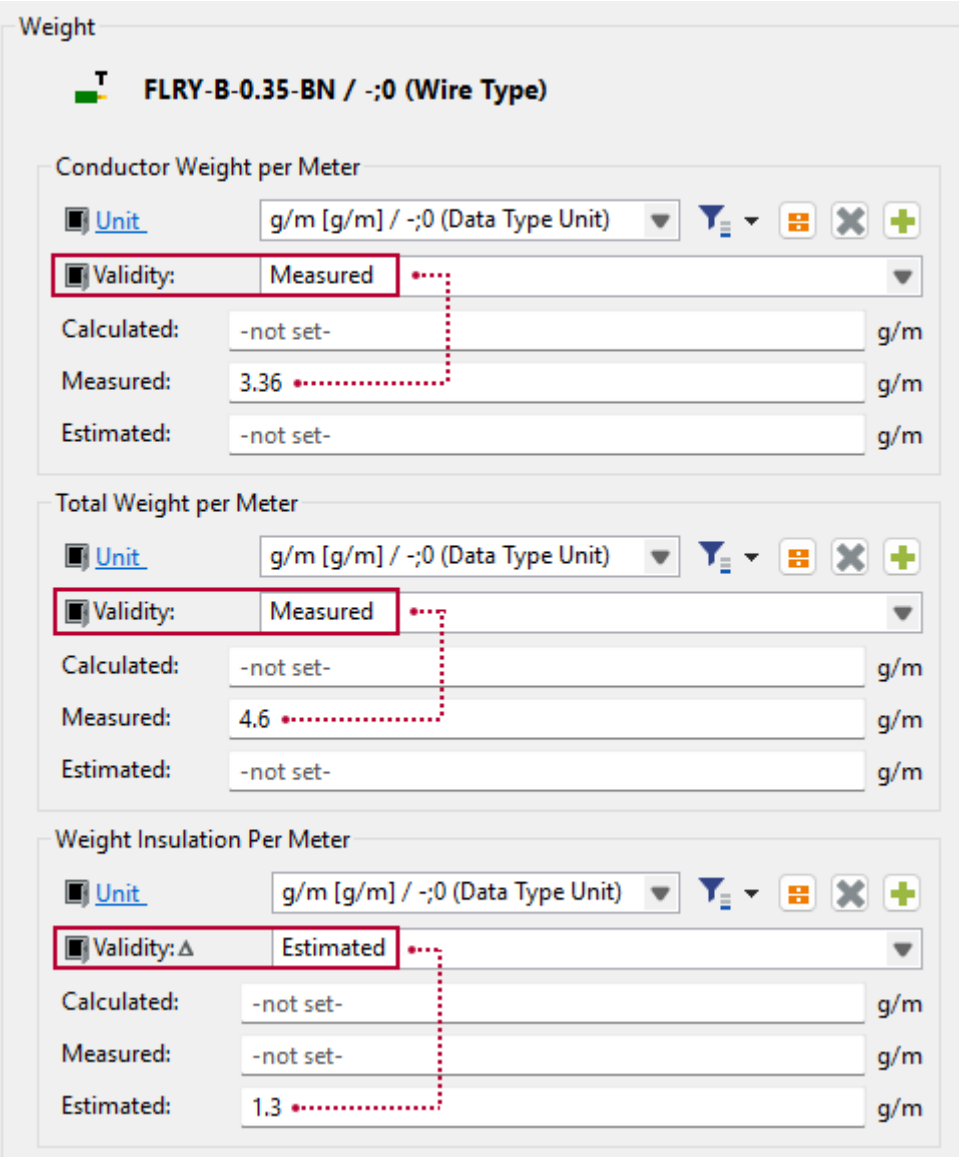
To compare the variant information in the logistic control information with existing *String Literal*s in the model, *Data Type Package*s containing appropriate *String Literal*s must have been defined and selected during import.



For the import of logistic control information via metric, the *KBL Import Post Operations* block provides a new optional input port "createPreBuildVariantCondition" to control the import of logistic control information.

KBL export: exporting validity attributes for weight information

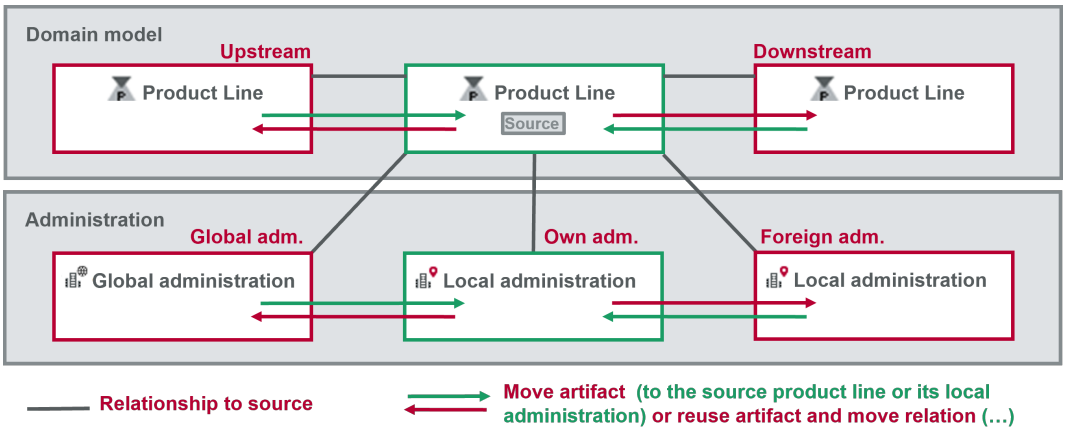
For hardware artifacts which have assigned weight information, the validity of the weight information is considered for the export. This means, the individual values defined for the selected **Validity** "Measured", "Estimated" or "Calculated" are exported.



1.3.4 Product line engineering

External relation analyzer

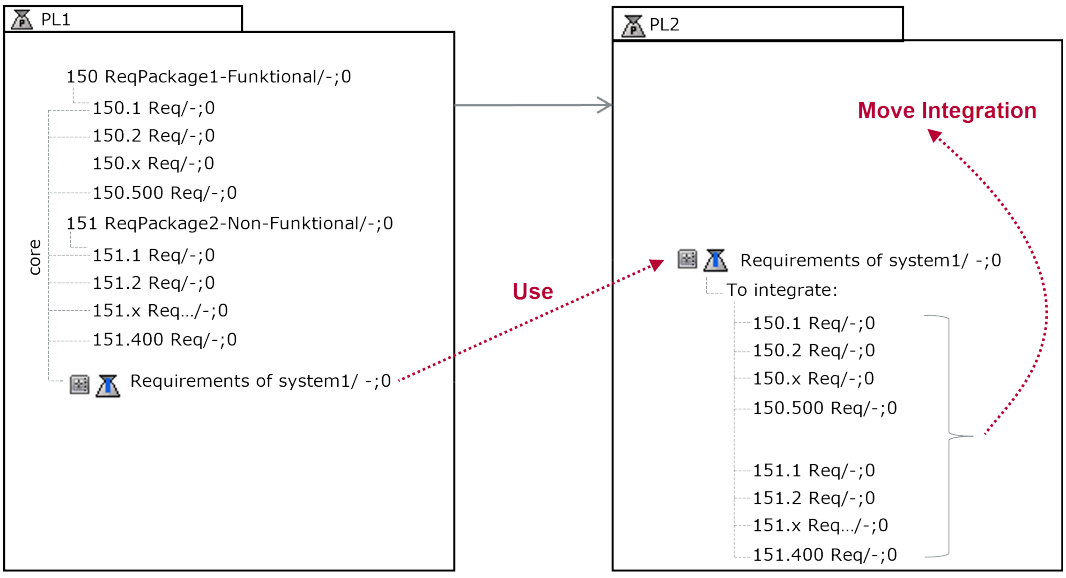
The External Relation Analyzer has been adapted to handle external relations between artifacts of the domain model and the administration.



Improved integration of asset artifacts

The merging of updated Asset artifacts with integration target candidates that have conflicting to-one relations can now be performed automatically.

Integrating many *Asset* artifacts with a suborder, such as requirements or test items, via move has been significantly accelerated by preserving artifacts' suborder IDs.



Core integration artifacts are now temporary

When integrating *Asset*s, the artifacts being integrated are transiently stored below hidden *Core Integration* artifacts. The *Core Integration* artifacts that previously remained in the model are now removed after integration.

To remove existing, empty *Core Integration* artifacts residing outside of checked-in *Product Line*s or administrations from the model, install the "Product Line Engineering Software and Diagnostics" or " Product Line Engineering Wiring Harness Workflow" *Add-in*. Then, execute **EEArchitecture | EEArchitectureOperations | Delete Unused Core Integration Artifacts**. The same is executed for *Boundary Integration* artifacts as the boundary is an obsolete concept but empty *Boundary Integration* artifacts could remain in the model. This will also delete hidden, empty *Boundary Integration* artifacts that may have remained from an application of the obsolete boundary concept.

Asset update monitoring

Reproducible *Asset* updates in terms of behavior and performance were achieved by determining the update sequence for multiple *Asset*s of the same model.

The new "M1.10 Asset Update" performance monitoring (PMON) measurement provides statistical data on each updated *Asset*. This includes the total number of core, replaced, displaced, and automatically integrated artifacts, as well as artifacts yet to be integrated.

1.3.5 Configuration

Import of custom attributes

*Attribute Definition*s including their configuration artifacts, i.e. application data types, literals, and *Data Type Unit*s, are stored in the administration.

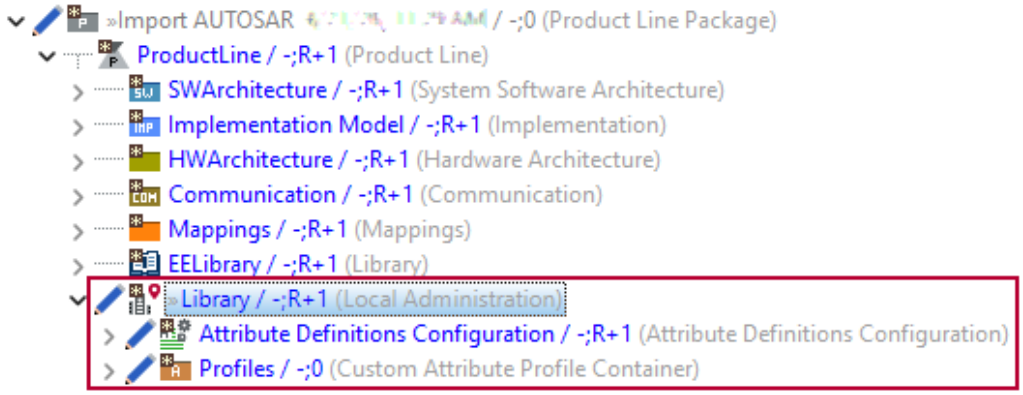
The following imports have been adapted to import *Attribute Definition*s and their configuration artifacts into the *Local Administration*:

- AUTOSAR
- Diagnostics (PVCDI)
- DBC

The *Global Administration* is not affected by these imports.

Import of custom attribute profiles

A full AUTOSAR import or import with merging and replacing creates or updates *Custom Attribute Profile*s only in the *Local Administration*. The *Global Administration* is not affected by imports.



Variant export with custom attributes

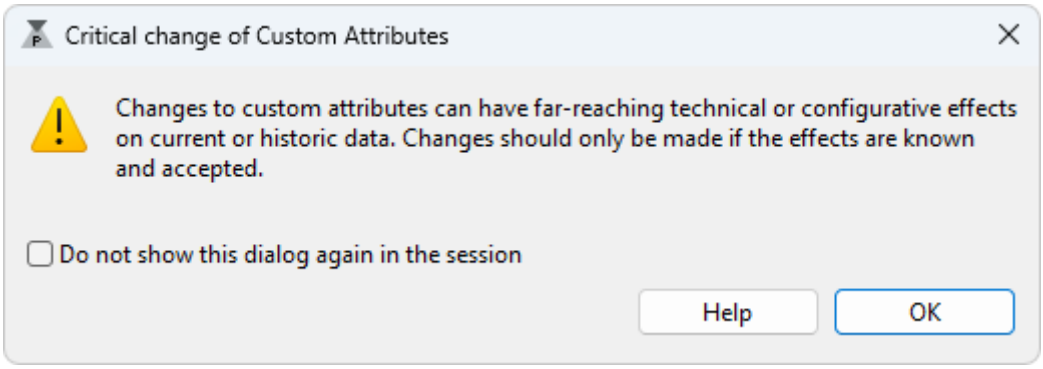
For exporting variants with custom attributes, it is not necessary to include *Attribute Definition*s as part of the variant. *Attribute Definition*s that are assigned to a *Custom Attribute Profile* are included in the export.

The following exports have been adapted accordingly:

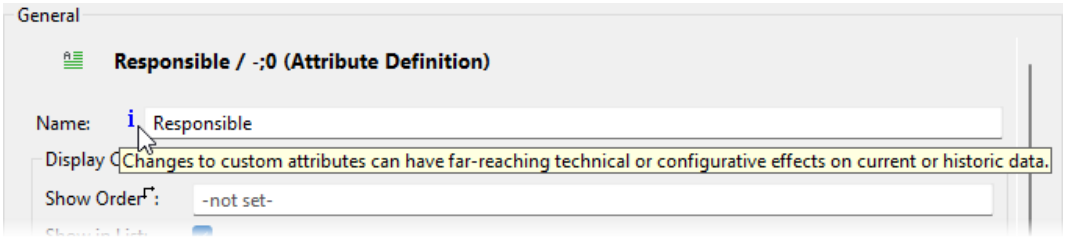
- AUTOSAR
- Diagnostics (PVCDI)
- DBC

Changing custom attributes

To prevent unintentional changes, a warning dialog is displayed when you change the *Attribute Definition* of a custom attribute.

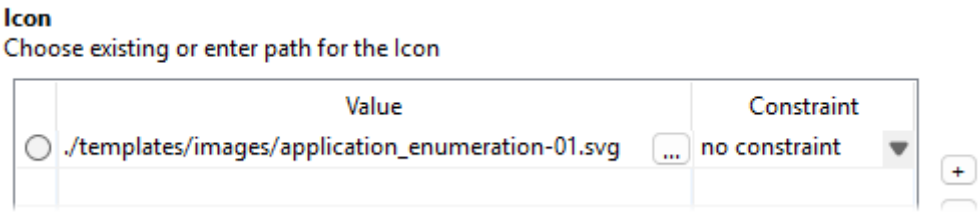


In the **Property View**, an information icon is displayed for certain attributes of *Attribute Definition*s. A tooltip on the information icon informs you that changes of *Attribute Definition*s can have major impacts on the existing model.



SVG graphics for icons in the object configuration

You can reference SVG graphics (Scalable Vector Graphics) as icon in the **Object Configuration**. This allows you to provide high-resolution icons for your configuration artifacts.



1.3.6 Administration

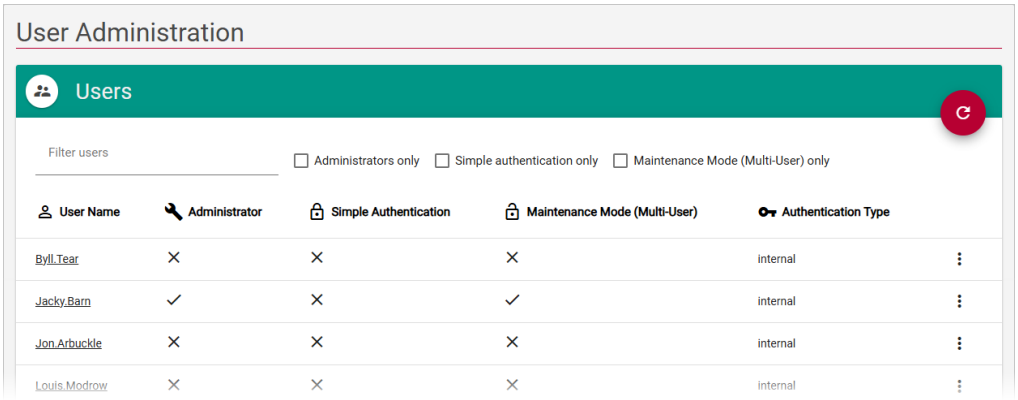
Multi-user maintenance mode

In former PREEvision versions, the maintenance mode permitted access to the model exclusively for the administration user that activated the maintenance mode (single-user maintenance mode). PREEvision 26.1 introduces a multi-user maintenance mode in addition to the existing single-user maintenance mode. In the user administration, you can define additional users that can access models in multi-user maintenance mode. For example, this enables you to involve a user group for performing release acceptance tests.

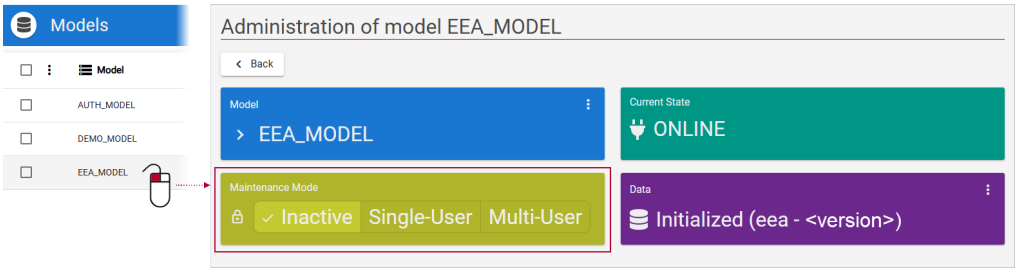
For the multi-user maintenance mode, the following changes have been implemented in the PREEvision client and the administration panel:

> In the PREEvision client, the User Management view provides a new option **Maintenance Mode (Multi-User)** that can be activated for users. If the option is activated, the user can access all models for which the multi-user maintenance mode is activated.

> In the PREEvision client, the Model Management view displays two columns for the maintenance mode:
  > **Maintenance Mode**: Displays the type of maintenance mode.
  > **Maintenance Mode Owner**: Displays the user that activated the maintenance mode and the date and time when the maintenance mode was activated.
> The administration panel provides the new page **Users** to display existing users and edit the options **Administrator**, **Simple Authentication**, and **Maintenance Mode (Multi-User)**.



> In the administration panel, the **Models** page displays the type of maintenance mode in the **Maintenance Mode** column. In the model administration, you can activate the maintenance mode and switch between single-user and multi-user maintenance mode.

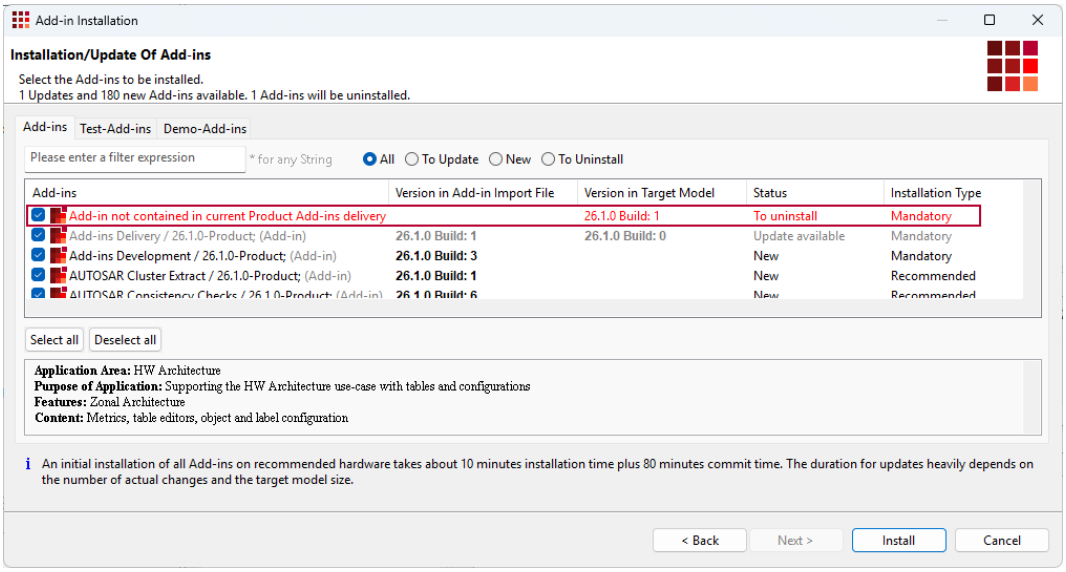


> The maintenance mode can no longer be activated and deactivated via the **Model Management** view in the PREEvision client.

Add-in installation

The **Add-in Installation** wizard now displays all *Add-in*s from a delivery model immediately after the model has been selected. The wizard only fully loads the *Add-in*s when the installation starts, making handling much friendlier for users.

Additionally, the **Add-in Installation** wizard displays the *Add-in*s to uninstall, eliminating the previous confirmation dialog.



1.3.7 Usability improvements

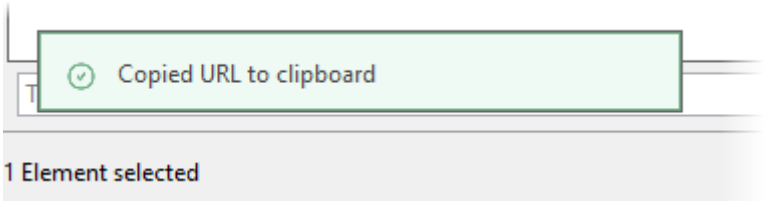
PREEvision URLs

For creating links in PREEvision, the HTTPS protocol is used. Thus, URLs to artifacts can also be used in applications such as Microsoft Outlook or Microsoft Teams.

> The existing URL functionality remains unchanged.

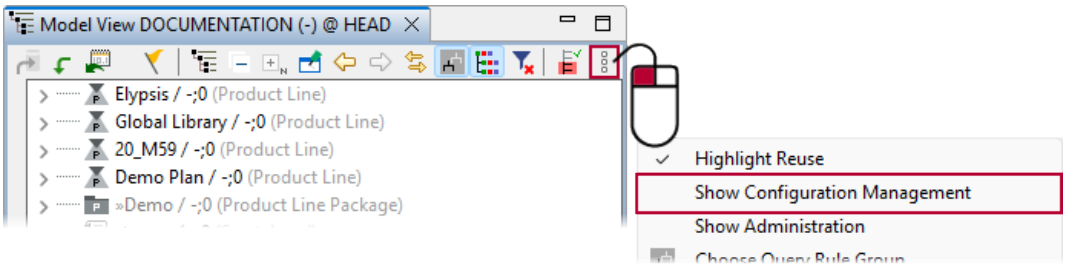
> URLs that have been created in former PREEvision versions remain functional.

In addition, creating URLs in PREEvision has been simplified. A notification in the bottom left corner informs you that the URL has been successfully copied to the clipboard.

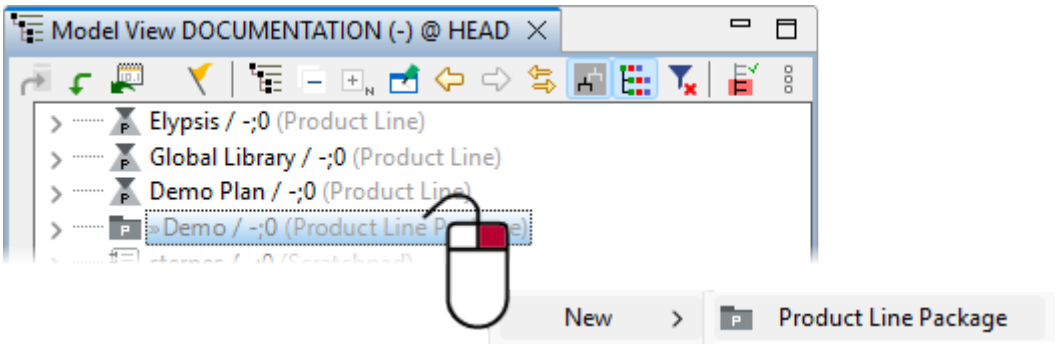


Working without configuration management

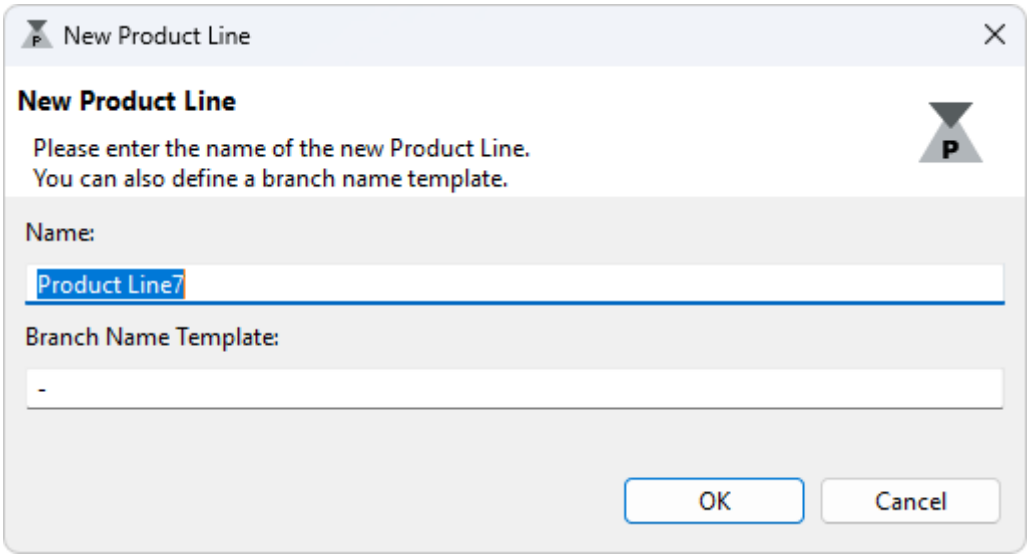
By default, the *Configuration Management* is not displayed in the **Model View**.



*Product Line Package*s, which technically reside in the *Configuration Management*, can now be created and edited directly in the model tree. A newly created *Product Line Package* is selected, and the in-place edit mode is active.

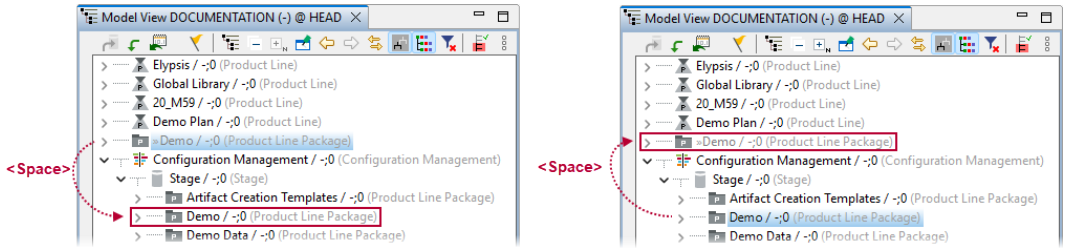


*Product Line*s can be created below virtual representations of *Product Line Package*s in the model tree. A newly created *Product Line* is selected. The in-place edit mode is not active, because the **New Product Line** dialog already asks for the **Name** and **Branch Name Template**.



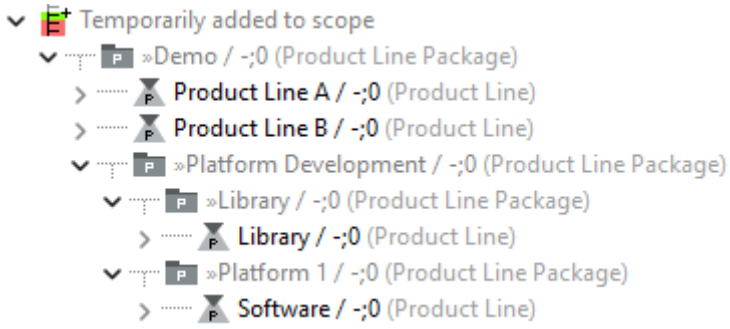
Navigation with displayed configuration management

Pressing **<Space>** allows you to jump from the virtual representation of a *Product Line Package* in the model tree to the *Product Line Package* in the *Configuration Management* and vice versa.



Product line packages in the temporary scope

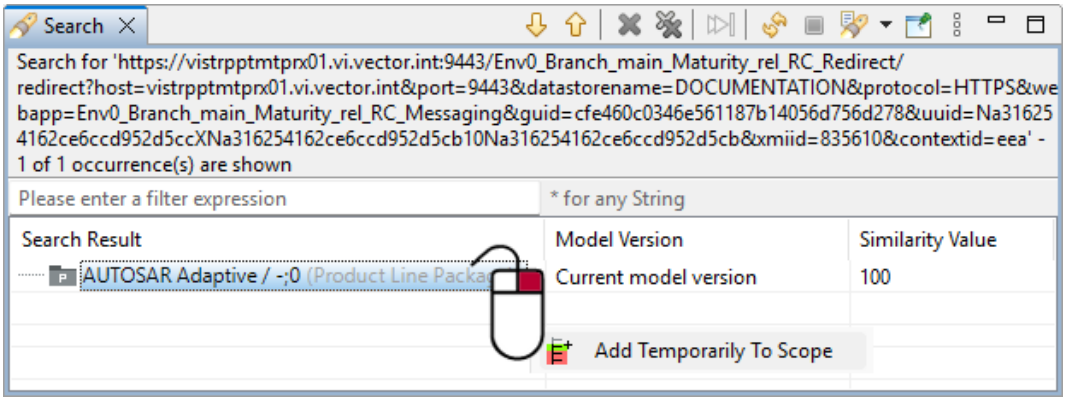
The **Temporarily added to scope** folder in the **Model View** displays the assigned *Product Line Package*s structure instead of only the contained *Product Line*s.



Adding product line packages to the temporary scope

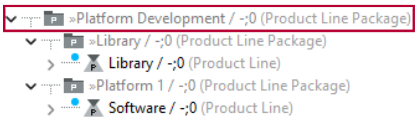
*Product Line Package*s are part of the *Configuration Management*. Therefore, their description is always available on a client. To view the content of a *Product Line Package*, you can add it to your scope.

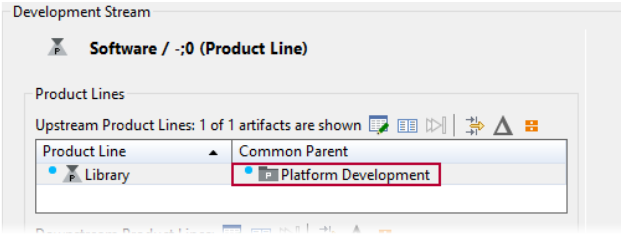
To add a *Product Line Package* temporarily to your scope, you can, for example, paste the URL of the *Product Line Package* into the search field of the **Model View**. In the Search result view, open the context menu on the *Product Line Package* and select **Add Temporarily To Scope**.



Common parent of product lines

For relations between *Product Line*s, the **Common Parent** column in **Property View** tables now shows the logical parent artifact, i.e. a *Product Line Package*, instead of the technical parent artifact, i.e. the *Repository Root*.





1.3.8 Server API

Server API extension for get meta class REST call

The response of the REST calls `/<model>/metamodel/<meta class>` and `/<model>/artifacts/[xmiid]/metaclass` has been extended by the following information:

- sub classes of the meta class
- super classes of the meta class

- additional information for attributes (`contextAttribute`, `autoValueAttribute`, `readOnly`, `volatile`, `distributedVolatile`)
- additional information for relations (`oppositeRoleName`, `isOrderRelevant`, `isOppositeOrderRelevant`, `isMultiple`, `isOppositeMultiple`, `isComposite`, `isOppositeComposite`)

1.4 Configuration information

New metric blocks

The following metric blocks have been introduced:

Block and category	Changes
Resolve Placeholders Category: **Product Goals**	This block resolves placeholders in formatted texts. It receives a map of `MDFObject`s through its input port, iterates over each entry, and replaces any placeholder in the formatted text attributes with its final, resolved content. This includes, for example, inserting the actual name of a referenced artifact instead of the placeholder, or embedding a rendered diagram image in place of a diagram placeholder. All updated `MDFObject`s are written back into the map, ensuring that downstream processing works with fully resolved, placeholder-free content. Placeholder-context artifacts are removed. Required inputs (*Data Target Port*s): > "inMapTempToOriginal" (data type: `Map<MCoreArtefact,MCoreArtefact>`) Receives a map whose keys are temporary `MDFObject`s. Each temporary object references its corresponding original `MDFObject`, which contains the formatted text attributes and any placeholders. During processing, the block reads the formatted text content from the original object, resolves all placeholders, and writes the resolved content back onto the temporary key object. Artifacts whose formatted text attributes contain no placeholders remain untouched. Placeholder-context artifacts are removed from the map. Outputs (*Data Source Port*s): > "outMapTempToOriginal" (data type: `Map<MCoreArtefact,MCoreArtefact>`) Returns the processed artifact map after optional placeholder resolution. The map contains the updated temporary `MDFObject`s whose formatted text attributes have been resolved using the data from their corresponding original objects. Artifacts without placeholders remain unchanged, while placeholder-context artifacts are removed. > "summary" (data type: `TempTable`) Returns a `TempTable` that lists all original `MDFObject`s whose corresponding temporary artifacts underwent placeholder resolution. Each row contains the original artifact and the name of the formatted text attribute in which placeholders were detected and resolved. Artifacts without placeholders are not contained in this table.

Changed metric blocks

The following metric blocks have been changed:

Block and category	Changes
Excel Export Category: **Common**	The "exportAsXLS" *Data Target Port* has been removed. The Excel file is always exported with XLSX file format.

Block and category	Changes
Excel Import Category: **Common**	XLS files can no longer be imported. The "filepath" *Data Target Port* only accepts XLSX files for the import.
Publish Diagram Category: **Diagrams**	New optional input port (*Data Target Port*) "fileName" (data type: `String`, default: not set, file name is set to the name of the diagram). This port sets the file name for the diagram files to be exported. If a diagram is exported with different *Diagram Configuration*s, the file name is extended to include the name of the *Diagram Configuration*. Existing files with the same name and *Diagram Configuration* are overwritten.
ReqIF Import Category: **Product Goals**	The input port (*Data Target Port*) "typeDefinitionPackage" has been renamed to "attributeConfigurationPackage" and the expected input artifact is now an *Attribute Configuration Package* instead of a *Data Type Package*.
ReqIF Model Based Specification Export Category: **Product Goals**	The input port (*Data Target Port*) "temporaryDataTypePackage" has been renamed to "temporaryAttributeConfigurationPackage" and the expected input artifact is now an *Attribute Configuration Package* instead of a *Data Type Package*.
KBL Import Post Operations Category: **Electrologic and Harness**	New optional input port *(Data Target Port)* "createPreBuildVariantCondition" (data type: `Boolean`, default: `false`) to create a *Pre Build Variant Condition* for the import of logistic control information. The variant information in the logistic control information is extracted as boolean expressions and imported as *Pre Build Variant Condition*. Logistic control information can only be imported if it is parsed and compared with existing *String Literal*s in *Data Type Package*s. Possible values: > `true`: The logistic control information is parsed and compared with existing *String Literal*s in *Data Type Package*s provided at the "dataTypePackages" port. If no matching *String Literal*s are found, the logistic control information is imported as *Not Parsable Formula*. > `false`: The logistic control information is not parsed, and its content is imported as *Not Parsable Formula*. The input port (*Data Target Port*) "dataTypePackages" is now optional.
AUTOSAR Import with Merge Category: **Communication**	New mandatory input port (*Data Target Port*) "performDeletions" (data type: `Boolean`). Possible values: > `true`: Deletions are performed after the import. > `false`: No deletions are performed. The artifacts that have been identified for deletion are listed in the **Information View** and can be deleted manually. New optional input port (*Data Target Port*) "targetProductline" (data type: `MProductLine`). Enter the target *Product Line* to be merged with the incoming *Product Line*. If there is only one *Product Line* in the scope, this is used implicitly for merging. If the port is not set, the

Block and category	Changes
	Product Line from the scope is used if unique. If the target *Product Line* for merge is not defined or not unique in the scope, merge is not possible. New output port (*Data Source Port*) "orphans" (data type: `List<MDFObject>`). Returns the orphaned artifacts for which no target package was found. The output port (*Data Source Port*) "importedElement" now returns the *Product Line* instead of the created import package.
AUTOSAR Import Category: **Communication**	New mandatory input port (*Data Target Port*) "createReferenceModelFilePath" (data type: `String`, default: `null`). If a reference model shall be created, the path and name of the reference model file must be specified at this port. A reference model is needed for importing with merging. If the port is not set, no reference model is created The output port (*Data Source Port*) "importedElement" now returns the *Product Line* instead of the created import package.
Asset Factory Category: **Product Line Engineering**	The *Target Port for Internal Loops* "propagatedBoundaryCollection" has been removed.
Substitute Artifact Category: **Product Line Engineering**	The *Target Port for Internal Loops* "propagatedBoundaryCollection" has been removed.
Finish Asset Update After Substitution Category: **Product Line Engineering**	The *Data Source Port* "addedBoundaryArtifacts" has been removed. The *Data Source Port* "removedBoundaryArtifacts" has been removed.
Substitute Artifact With Customized Pairings Category: **Product Line Engineering**	The *Target Port for Internal Loops* "propagatedBoundaryCollection" has been removed.
Update Asset Category: **Product Line Engineering**	The *Target Port for Internal Loops* "propagatedBoundaryCollection" has been removed.

Metric utilities

As part of the removal of the boundary concept for *Asset*s and *Add-in*s, the following changes have been applied to the public metrics API:

- `ru.novosoft.mdf.ext.MDFObject.mdfGetBoundaryOfReuseUnits()` is removed without replacement
- `ru.novosoft.mdf.ext.MDFReuseUnit.mdfGetReuseUnitBoundary(` is removed without replacement
- `ru.novosoft.mdf.ext.MDFReuseUnit.mdfGetBoundaryIntegration()` is removed without replacement

- `ru.novosoft.mdf.ext.MDFReuseUnit.mdfCloneReuseUnit(MDFReuseUnitCoreIntegrationOwner, MDFReuseUnitBoundaryIntegrationOwner, boolean, boolean)`
  the parameter `BoundaryIntegrationOwner` is removed without replacement
- `ru.novosoft.mdf.ext.MDFReuseUnit.mdfCloneReuseUnit(MDFReuseUnitCoreIntegrationOwner, MDFReuseUnitBoundaryIntegrationOwner, CloneEnvironment, boolean)`
  the parameter `BoundaryIntegrationOwner` is removed without replacement
- `ru.novosoft.mdf.ext.MDFReuseUnitBoundaryIntegration.mdfGetBoundaryArtifactsToIntegrate()`
  is removed without replacement
- `ru.novosoft.mdf.ext.MDFReuseUnitBoundaryIntegrationOwner.mdfGetBoundaryIntegrations()`
  is removed without replacement
- `ru.novosoft.mdf.impl.MDFRelationInfo.isCoreBoundaryOfReuseUnitsEnd()`
  is renamed ("Boundary" removed)
- `ru.novosoft.mdf.impl.MDFRelationInfo.isCoreBoundaryArtefactsEnd()`
  is renamed ("Boundary" removed)

The `class MDFReuseUnitUtility` is also affected. Its methods already primarily focus on *Core Artifact*s of *Asset*s or *Add-in*s.

Size limitation for loading and changing the version of an artifact

When loading or changing the version of an artifact, the transfer of the artifact's subtree uses a serialization format that is limited to a size of 2 GB. This corresponds to 9.4 million artifacts or relations. The maximum size refers to the selected artifact and its subtree, as well as additionally required external types and their relations.

Take this limitation into account when you structure the model, so that the affected actions run successfully for your use cases.

The following actions are affected by the size limitation:

- *Asset* update
- replace with version
- replace with selected version
- restore selected version
- reuse historical version
- update *Asset* to historical version in checked-in *Product Line* (customer-specific action)
- load *Product Line* in read-only mode (customer-specific action)
- compare against historical version
- compare for reuse inconsistencies

Other actions are not affected, for example:

- loading the (full) model and updating the model
- loading the scope
- backup and restore
- migrating models
- using *Asset*s

PREEvision provides performance monitoring measurement points to observe the utilization if the serialization format is used.

1.5 Changes

Maintenance mode can only be set in administration panel	The maintenance mode can no longer be activated and deactivated in the **Model Management** view of the PREEvision client. Use the model administration of the administration panel to activate and deactivate the maintenance mode.
Product goals	For ReqIF exports, the DOORS classic schema validation has been removed. In the ReqIF export configuration file, it is no longer possible to set the `ExportSchemaValidation` flag to `DOORS classic`.
XLS support	The XLS file format is no longer supported.
Deprecation of the boundary concept for assets and add-ins	The boundary concept for *Asset*s and *Add-in*s is no longer supported by product features, and representations of the boundary are no longer visible in the **Model View** and in the **Asset View**. The corresponding *Asset* and *Add-in* property pages have been removed.

1.6 Fixed issues

Fixed issues in PREEvision 26.1

You will find the important fixed issues in the following tables. Please note that some issues depend on specific configurations, views, or models.

Further information

> Common
> Diagrams
> Tables
> Requirements
> Logical function architecture
> AUTOSAR
> Software architecture
> Communication
> Hardware architecture
> Geometry
> Product line engineering
> Variant management
> Rules
> Metrics
> Collaboration
> Administration
> Server API
> Backup, restore, and migration

1.6.1 Common

ID	Resolution
9082949060554172008, 9082949060440593008	Existing dialogs for artifact selection could be empty if the *Repository Root* was not contained in the scope and the logical structure with *Product Line Package*s should be displayed in the dialog. This was caused by the filter mechanism to control the type of displayed artifacts. The filter has been adapted to support artifacts that are displayed using the logical structure. Especially artifacts in *Product Line*s and *Local Administration*s are found and are correctly displayed in the context of their logical parents (especially *Product Line Package*s).
9082950154154522101	If more than 1000 *Product Line Package*s are contained in a parent artifact, for example in another *Product Line Package* or in the *Stage*, the *Product Line Packages* are permanently displayed in the domain model if an attribute of one of these *Product Line Package*s has been changed.

1.6.2 Diagrams

ID	Resolution
9082950129656441037	The calculated cell height of tables in diagrams and the resulting table size depends on the font size of the cells in the individual tables. Thus, when exporting the diagram, the individual diagram tables are properly displayed. The display of the diagram tables in the exported file is identical to the diagram tables in the diagram in PREEvision.
9082949060447201843	Model queries in object configurations or label configurations are used in diagrams to control the content or display of figures and labels. When opening a diagram, these model queries are now only triggered once. This increases the performance on opening the diagram.
9082950129573861843	The modification state of diagrams (modifiable, not modifiable) is now calculated with enabled authority model to get the correct results.
9082949060735902102	Metric- or query-based multi-line labels in *Title Block*s do not overlap. Line breaks are supported and the label is displayed correctly.
9082949060470562099, 9082949059944301790, 9082949060553882099, 9082949059870002112	If a commit is prevented by an online check, no error is caused anymore during an undo operation of diagram changes. No restart of the client is necessary anymore.
9082949060422591027	During a commit or check-in, the content of *System*s or *Set*s is no longer updated by the associated *Section*s in diagrams.
9082949855544571843, 9082950129752282039	The selected grid size in a diagram was previously saved as a property. Now the information about the grid size of each diagram is persisted with the help of a memento. This also corresponds to the way in which the zoom factor and view port of a diagram are stored.
9082950129573841843	When using a commit in combination with an undo action, the model switched into an invalid state. The only solution was to restart the client. Now an invalid model state is prevented and no longer results in a client in read-only mode.
9082950129573851843	The rights management cache is no longer cleared upon a database action, for example a commit. Thus, depending diagrams in read-only mode keep their state.

1.6.3 Tables

ID	Resolution
9082950129713202064	The table framework no longer interprets the *Signal Receiver Attribute* as a generic *EE Attribute* when it is a child of a signal transmission.

ID	Resolution
9082949060721542059	In tables, the lifecycle icon is displayed even if other icons have been hidden via the **Column configuration**.

1.6.4 Requirements

ID	Resolution
8682711684951842105	The **Progress Information** for checking OLE objects in formatted texts no longer shows inconsistent numbers.
8682711687661583090	It is now possible to map multiple *Customer Feature*s to one *ECU* or multiple *ECU*s to one *Customer Feature* via multi select and drag and drop.
9082949060452921859	During an updating ReqIF import, this means importing a ReqIF file into an already existing structure, artifacts that are not changed are no longer locked.
9082950129774552105	ReqIF export: The export no longer occasionally ignores default values of attribute definitions if the flag `ReqIFSimpleMode` is set to `false` in the ReqIF export configuration file.
9082949060599223082	ReqIF agreement export: The export works correctly if the requirement data for the *Agreement* has been imported via ReqIF using the flag `ReqIFSimpleMode=false`.
9082949060531382101	ReqIF export: A rare constellation could cause the export to not terminate. This has been improved allowing the export to finish correctly.

1.6.5 Logical function architecture

ID	Resolution
9082949059985681843	When creating a *Logical Architecture System Diagram* in a *System* with an assigned system master, all subsequently created *Logical Architecture System Diagram*s will automatically use the same system master. This behavior is now consistent with all other system diagrams. When creating a *Logical Architecture System Diagram* within the *Logical Function Architecture*, a system master is no longer required. As a result, the option to set a system master has been removed from the **Create Logical Architecture System Diagram** dialog in this context.

1.6.6 AUTOSAR

ID	Resolution
8682711554608772003	Context menu simplified: Only *Role Based Port Assignment*s and *Role Based Data Assignment*s can be created under *Service Need*s.
9082950129775972153	AUTOSAR export: The relation between `GlobalTimeDomain` and `CommuncationCluster` is exported only for AUTOSAR versions 4.3 or older. And `GlobalTimeDomain`s are only exported if the relevant ECU is part of a time domain.
9082950129640971913	AUTOSAR export: CAN controller configuration requirements are exported correctly.
9082949855560051913	AUTOSAR export: Calibration parameters of type curve with an individual axis and physical values of "-1" are correctly exported.
9082950129643971992	AUTOSAR ECU communication extract: Contained IPDUs that are routed via a gateway ECU are exported correctly.
9082949058837251807	AUTOSAR ECU extract: unused *Signal IPDU Transmission*s are ignored for AUTOSAR ECU extracts.
9082950129703493089	AUTOSAR ECU extract: **Y-Axis** and **Z-Axis** are exported for instantiation properties of *Internal Behavior*.
9082950154140071807	AUTOSAR import: The import with `SoAdRoutingGroup`s now also considers the `EventGroupControlType`.
9082947086097832052, 9082949060545730132	AUTOSAR import with merge: Imported artifacts with no defined location in the target *Product Line* are now stored in a dedicated package.
9082949060836602003	Several *Consistency Checks* concerning *Atomic SW Component Type* and *Composition Type* have been corrected.
9082950129688301220	The *Export Compare* metric block reads the export file and the reference file concurrently for faster results.
9082950129688341220	The *Export Compare* metric block provides a precise comparison of `MINvBlockDataMapping` including the linked `NvRamBlockElement`, `ReadNvData`, `WrittenNvData`, and `WrittenReadNvData`. The relation name are also compared.
9082950129688351220	The *Export Compare* metric block supports several special data groups (SDG) with the same GID. Identical substructures are also supported in the AUTOSAR file. Also, the calculation of the comparison has been accelerated.

1.6.7 Software architecture

ID	Resolution
9082949060809182092	When creating a software type, a warning indicates if the selected *Software Types* package is outside the current *Product Line*.

1.6.8 Communication

ID	Resolution
9082950129773961030	The **Diagnostic Communication Explorer** can synthesize the communication infrastructure and communication for complex ECUs and HPCs that contain *Execution Context*s.
9082950129574321030	The **Communication Design Explorer** takes over the length of the relevant *CAN Frame* or *Container IPDU* when creating *Container IPDU*s and *Signal IPDU*s.
9082949060649161810	Signal router: Service-oriented communication is routed solely over fitting *Bus System*s.
8682711687059931003	The frame-PDU synthesis only creates *Input Signal Port*s or *Output Signal Port*s for multiplexor signals if there is at least one payload signal that is received or sent by the current component.
9082947084901602004	A new *Consistency Check* has been added to check if the length of Signal and Pdu are identical in case of SOME/IP transformed communications. Also, the demo model has been corrected accordingly.
9082949855582932004	The *Consistency Check* "ac02015_MoreSIGmapped2SIGIPDU " has been corrected.

1.6.9 Hardware architecture

ID	Resolution
9082949060823422196	A KBL export with activated option **Export only active variant** exports custom attributes and their assigned *Attribute Definition*s even if they are not part of the active variant.
9082949060600520084	During KBL export, the *Attribute Definition*s linked to the selected *Custom Attribute Profile* are exported if the **System Export** option is activated.
9082950129639903104	The KBL import imports the formulas contained in the `Logistic_control_information` for *Pre Build Variant Condition*s into PREEvision. The literals extracted from the `Logistic_control_information` are compared with *System Constant*s in PREEvision. For

ID	Resolution
	this purpose, at least one *Data Type Package* containing corresponding *System Constant*s must be specified during KBL import. If no *Data Type Package* is specified, the content of the `Logistic_control_information` is imported as a *Not Parsable Formula*. This behavior applies to both the import wizard and the import via metrics.
9082949060725301037	The configuration files for KBL import and KBL export are part of the "Electrologic and Harness" *Add-in*. These configuration files are renamed to identify them as default. Custom configurations can be created from these default configuration files. Changes to these default configuration files are overwritten when the *Add-in* is installed the next time.
9082949060675172112	In the **Property View** of a wire, *Wire Type Families* as well as *Wire Type*s can be selected from the drop-down list.
9082949855594602039	Labels of *Hardware Device*s in checked-in *Electric Circuit Diagram*s or *Wiring Diagram*s no longer appear twice after they have been moved.

1.6.10 Geometry

ID	Resolution
9082949059287781795	Online checks that check whether a type is set on a wiring harness artifact have been modified. The checks are only triggered and calculated if changes are carried out on the typed artifact. Changing the type does not trigger the calculation of the online check anymore. This results in a significant improvement of the performance of the online checks for the electrologic and harness use-case.
9082949855494831029	The default size of a *Connector Template Diagram* and a *Segment Point Template Diagram* has been increased to 80x80 pixels. The initial zoom factor when opening one of these diagrams has been changed to 100%.
9082950129793322083	For *Connector Location*s, the property page **Environment** has been added to the **Property View**.

1.6.11 Product line engineering

ID	Resolution
9082949855577000124	The move integration has been improved to correctly handle synthesized parent artifacts for which no name attribute has been defined on the corresponding meta class.

ID	Resolution
9082949060853112101	Loading *Product Line*s in read-only mode is now applicable for *Product Line*s in *Product Line Package*s that are read-only for the active user.
9082950129704790073	The deletion propagation of core artifacts triggered by *Asset* operations such as *Asset* updates now also considers *Asset*-related deletion checks.
9082949855559131202	Neutral change detection now ignores any changes made to an artifact or its subtree prior to their replacement. In rare cases, these changes could result in a "check-out prevented" error.
9082949059995170161	Information about changes to relations after an *Asset* update is no longer displayed in the **Information View**. However, this information is still available at the "updateResult" *Data Source Port* of the *Update Asset* metric block.

1.6.12 Variant management

ID	Resolution
9082949060853893042	The wrong variant highlighting when exporting a diagram with different active variants via metric has been fixed.

1.6.13 Rules

ID	Resolution
9082950129736140088	The **Condition Query** association of a rule object or link pair of a *Propagate Definition* is now removed when the corresponding EPRConditionLabel is deleted from the model in the *Propagate Definition Diagram*.
9082950154207462044	*Propagate Definition*s with multiple entry points can be generated.
9082947087369773108	A *Query Rule* with a right-hand side now returns objects that have been marked for return, even if they have been deleted. Note that *Query Rule Group*s now always set "hasHit" to `true` if their queries match any objects, regardless of whether objects are marked for return.
8682711687710682058	Now, clicking an empty *Multi Classifier Object* in a rule diagram selects the object itself rather than its graph node.
9082949060611082039	A performance issue that was caused by broken *Query Rule*s in an object configuration has been fixed.
9082949058216103104	The property pages of the *Consistency Rule Group* and the *Variant Propagation Rule Group* have been unified and extended to include the assignment of contained rule groups.

1.6.14 Metrics

ID	Resolution
9082950154129392024	The *Model Tree Compare* metric block now correctly handles *Local Administration*s with identical contents.
9082949060446051808	The context menus of the artifacts no longer display metric executors located below table editors.
9082949058247813108	When pasting a *Calculation Block* with its *Source Code*, the "full copy" action no longer creates a second *Source Code*.
9082949058390553042	A rare `ConcurrentModificationException` in `CalculateLoop` has been fixed.
9082950129640783088	The *Populate* block now informs the user via an error status if and why a diagram could not be opened.
9082949060399262102	If rule groups used in metrics do not match, corresponding messages are only displayed in the **Status** view but are no longer logged.
9082949060650692102	Warnings are now written in the `error.log` file if the input for the „exportProperties“ *Data Target Port* of the *Report Executor* metric block is invalid.
9082949060134381995	The online check for source port names now accepts `<List>` as a valid port name.
9082950154122573077	When the parsing of the *Comment*s used to configure a table test metric detects entries other than comparison criteria or comments preceded by a "#" on each line, test execution fails and an error message is returned.
9082950154213232024	For performance reasons, the display of metric test results in the **Information View** has been limited to the first 500 characters.
9082949060626221804	Automatic client saving works properly after metric execution.
9082949855552021848	If a metric changes the model and the changes are undone via save points, checks for structured type-of relations are no longer executed.
9082949855556622101	On the **General** property page of the *Uniqueness Cache*, the **In Memory** option has been removed.
9082950129764993059	The documentation of the "exportProperties" input port of the *Report Executor* block has been updated in the PREEvision configuration manual.

1.6.15 Collaboration

ID	Resolution
9082950129727312041	It is now possible to check out a hidden version object that belongs to a checked-in artifact.

ID	Resolution
9082949060784672054	A memory issue in the messaging server has been resolved that occurred if keep-alive messages could not be sent to the clients because of network problems.
9082950154205351036	The model cache can properly handle very large XMIIDs now.
9082950129552221848	When connecting to the model a second time all scope contents are loaded properly.
9082950154202882102	Loading and activating a scope with Jenkins works seamlessly again.
9082949855593772101	Network problems are no longer incorrectly recognized as update errors. In this case, the client no longer switches to read-only mode.
9082949060785952068	Downloading files has been corrected to ensure the correct files are available on the hard disc.

1.6.16 Administration

ID	Resolution

9082949058797181993	The default values of the following server parameters have been changed:
	`ServerFileCacheSizeInGB: 20`
	`openid.access_token.verification_interval: 900`
	`ServerUpdateMemoryCacheSize: 7.000.000`
	`ServerUpdateFileCacheSize: 40.000.000`
	`WarningRAMForOneMillArtifacts=1`
	`WarningWorkingMemory=0.1`

9082950154113441036	An error occurred during *Add-in* installation when the segue relations of artifacts that had been moved under newly created parent artifacts were removed at their endpoints. Now, the directed segue relations are removed solely at their origins.
9082949058700321998	The information provided in the **Information View** regarding *Add-in* installation errors has been extended.
9082950129754522068	*Add-in* installation failed if non-versionable *Add-in* artifacts were assigned to *Obsolete Add-in*s. Now, only versionable subtrees are considered obsolete or deleted if their artifacts are not referenced in the model.
9082949855604701855	An *Add-in* installation is now always rolled back when canceled.
9082950154132152039	An update to a customized *Add-in* could previously fail without properly informing the user. An error message is now provided, and the artifacts causing the error are displayed in the **Information View**.

ID	Resolution
9082950154154732012	If the *Add-in* installation detects checked-out *Add-in*s on the target model with a branch suffix that differs from the one defined by the *Add-ins* model to be updated, it now displays a warning indicating the number of checked-out *Add-in*s and their branch suffixes in a dialog and in the **Information View**.
8682711684968111032	In the **Property View**, values for custom attributes are no longer set for artifacts whose meta class is not assigned to the corresponding *Attribute Definition*.
9082950154188521992	A file-based authority model can be opened again.

1.6.17 Server API

ID	Resolution
9082950129789860136	The Server API documentation for the `GET <baseURL>/<model>/tas/config` REST call has been corrected. The data type of the success response has been changed to `application/octet-stream`.
9082950129640441848	Copying checked-in subtrees via a custom server API application no longer fails due to missing artifact revision data.
9082947085103241995	The `AttributeDefinitionUtil` is now available for API server metrics that are executed on the API Server.

1.6.18 Backup, restore, and migration

ID	Resolution
9082950129655841036	During migration, branch names are correctly set for newly created *Type Definition Package*s.
9082950129724541036	An issue has been resolved that occurred during migration to a newer SVN server version. SVN no longer supports control characters in path names and file names. Therefore, these characters are now replaced with an underscore.
9082950129696311036	An error in the incremental backup and restore has been resolved.

1.7 Known issues

Known issues in PREEvision 26.1

You will find the important known issues in the following table. Please note that some issues depend on specific configurations, views, or models.

ID	Known issue
8682711555165912106	ReqIF export: For empty attributes, the string defined in the **Text for empty Labels** property is exported instead of an empty string. By default, this is "---". **Workaround:** In the **Preferences**, under **PREEvision | General**, remove all characters from the **Text for empty Labels** property.
9082949059821032062	During KBL export with propagation, more artifacts are exported than were propagated. This is caused by an issue in the export framework. For example, it is currently not possible to export only a specific *Connector Location* if its *Installation Location* is part of the propagated artifacts, since all contained *Connector Location*s are exported. The exported KBL file however is valid.
9082949059853333059	When comparing two artifacts, in the **Compare** perspective one of the **Property View**s of the artifacts to be compared is, in some cases, not displayed in compare mode. **Workaround:** Close the **Compare** perspective and execute the artifact compare again.
9082949059891171896	Artifacts that have been unloaded from the temporary scope are kept in memory. **Workaround:** Commit the model to remove artifacts of the temporary scope from memory.
9082950129724501783	In some cases, when a *Report* includes a *Report Module* with double spaces at the end of the *Report Module*, the spaces are not maintained.
9082950154215842008	Due to the new URL format, the import from vTESTstudio and CANoe to PREEvision is not possible, if the *Test Specification* data has been exported with PREEvision version 26.1. Data exported with PREEvision version 26.0 or 10.x can be imported into PREEvision. The import fails if the URL in the XML import file contains the UUID as a parameter (`uuid=<UUID>`). The export to vTESTstudio and CANoe is not affected.
9082950154204021202	The *Add-in* customizing update does not reset the alias name of rules to the alias name of the upstream *Add-in*. This results in old names of the *Link LHS* and *Link RHS* and the representation in diagrams for relations that have been renamed in the meta model. This does neither affect the functionality of the rule nor the functionality of the relation in the rule.

ID	Known issue
9082950154212821993	For executing the automatic client update, the `UpdateApplication.jar` is required. The JAR file is contained in the product delivery of the PREEvision collaboration platform (`PREEvisionCollaborationPlatform_<version>.zip`). When you build the server components, the JAR is transferred to the `updater` folder under the application server's build result. The JAR that was transferred in the build process does not work and the automatic client update cannot be executed with this JAR. **Workaround:** Copy the `UpdateApplication.jar` directly from the collaboration platform delivery under `PREEvisionCollaborationPlatform_26.1.0.zip\PREEvisionCollaborationPlatform\templates\vCollab\tomcat\updater`.
9082950154143081804	Filtering and selecting artifacts via metric in a table is not working correctly. The filter is not applied even though the table indicates that a filter is active.
9082950154206170076	In the **Property View** of *Ticket*s, on the **Ticket Relations** property page, referenced artifacts in the **This ticket is linked to (outgoing)** table may display incorrect lifecycle states. **Workaround:** Open the **This ticket is linked to (outgoing)** table as standalone table in the editor area.
9082950154225192006	On the **Deprecated Custom Attributes** property page, no content is displayed if *Attribute Definition*s in the *Local Administration* have no application type set.
9082950154243912102	The functions **Rest Perspective...** and **Reset Perspective to Model Definition** do not work correctly for perspectives. Executing these actions results in an error. **Workaround:** Reset all perspectives via **Window | Reset All Perspectives to Model Definitions**.
9082950154214403089	AUTOSAR import with merge: An AUTOSAR file to be imported contains a special data group (SDG) attribute which was renamed compared to the previous import. After an import with merge of this file, the existing *Attribute Definition* in the model is deleted and a new one is created. The existing one should not be deleted.
9082949060810560072	A small subset of artifact relations, known as segue links, is not captured in the changelog.

2 PREEvision 26.0

This chapter contains the following information:

2.1 Version numbers

Version numbers

Application	Version number
PREEvision client	26.0.0
PREEvision license server	3.0.5
PREEvision database server	26.0.0.02
PREEvision application server	26.0.0

Documentation

Manual	Version number
PREEvision manual	26.0.0
PREEvision configuration manual	26.0.0
PREEvision operating manual	26.0.0
PREEvision migration manual	26.0.0
PREEvision system requirements	26.0.0
PREEvision server API	26.0.0

2.2 Installation and compatibility information

For detailed information about the hardware and software requirements of PREEvision 26.0, refer to the PREEvision system requirements.

For detailed information about the installation of PREEvision 26.0, refer to the PREEvision operating manual.

For detailed information about migration to PREEvision 26.0, refer to the PREEvision migration manual.

Migration manual

The new PREEvision migration manual (`PREEvision_Migration_<version>_EN.pdf`) has been introduced to provide you with detailed information and instructions on how to migrate to PREEvision 26.0, including data migration via the administration panel.

System requirements

The following system requirements have been changed:

- Windows 10 is no longer supported for installing the PREEvision client.
- Amazon Corretto 21.0.8.9.1 is provided with the PREEvision client installation. It is recommended to use Amazon Corretto 21.0.8.9.1 on all server components as well.
- It is recommended to use Apache Tomcat version 9.0.113.
  JVM and server settings of all PREEvision server components must be checked. The required settings are documented in the PREEvision operating manual.
- It is recommended to use VisualSVN Server version 5.4.5 for the PREEvision subversion server.
- The standalone license server is available in the new version 3.0.5.
  When you use the standalone PREEvision license server (RMI), it is recommended to update the license server to the new version 3.0.5.
  Amazon Corretto that is provided with the Windows installer of version 3.0.5 has been updated to version 21.0.8.9.1.

Collaboration platform installation and server configuration

The SVN gateway has been removed.

The following parameter must be set for the startup of Apache Tomcat for all server components:

```
-Djava.security.manager=allow
```

Oracle JDBC driver

The Oracle JDBC driver, which is included in the deployment files of the application server, has been updated to version 19.28.

On the application server, update the Oracle JDBC driver as follows:

1. Unzip the product delivery of the PREEvision collaboration platform (`PREEvisionCollaborationPlatform_<version>.zip`).

   The database driver is in the folder `/dbdrivers`.
2. Copy the `ojdbc8.jar` to the `%TOMCAT_HOME%/lib folder`.

Authority model

The authority model has been renamed to "AUTH_MODEL" and thus no longer contains the version number within its name.

Compatibility

The PREEvision client, the database server and the PREEvision server are only compatible within exactly the same PREEvision version. Using a new client version on a previous server version or a previous client version on a new server version is not supported and may lead to data inconsistencies or data loss.

Client version	Server version	Database server script version	Metamodel change ID
26.0.0	26.0.0	26.0.0.02	2025-11-17

Licenses and license server

For PREEvision 26.0, new licenses are required.

PREEvision workspace and PREEvision.ini

Existing workspaces from earlier PREEvision versions cannot be reused for PREEvision 26.0. Overwriting the `PREEvision.ini` is not allowed as well.

Operating system: character set

Please use an operating system with a full character set of your language. For example, to support Japanese in PREEvision, the Japanese operating system must be installed. An English operating system with Japanese character set might not support all characters. Therefore, this may result in displaying wrong characters in PREEvision.

2.3 New features in PREEvision 26.0

Further information

- Model structure
- Usability improvements
- Administration
- Configuration

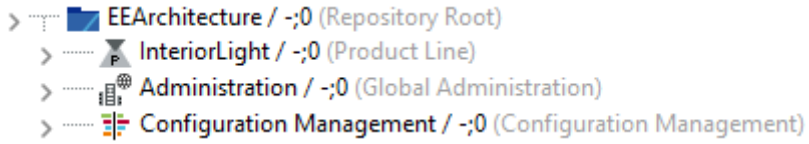
2.3.1 Model structure

New model structure

PREEvision provides a logically separated model structure consisting of the following models under the *Repository Root*:

- *Product Line*s: contain all data relevant for developing a cyber-physical and software-defined system (E/E data).
- Administration: contains the *Global Administration* and the *Local Administration*s of the individual *Product Line*s.
- *Configuration Management*: technically contains the logical structure of the domain model.

The model is only logically separated, technically all artifacts remain in one model.



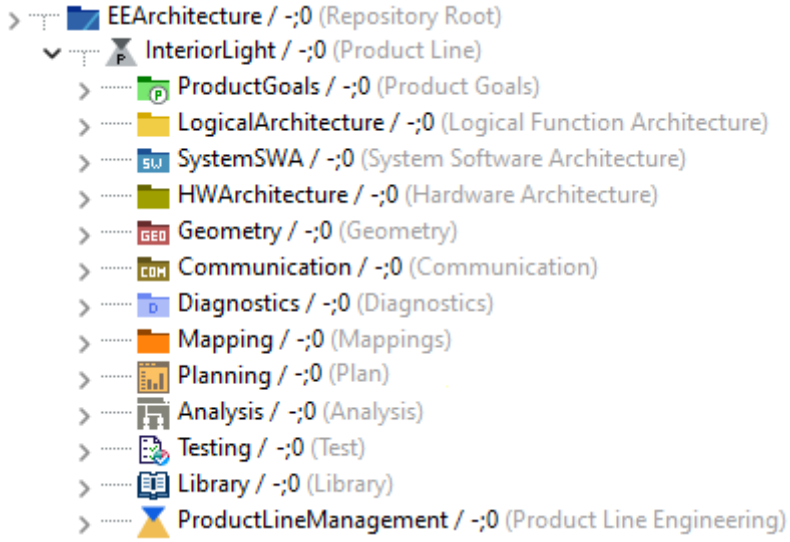
Product lines

A *Product Line* is the central container for data management in the domain model.

Product Lines:

- contain all domain layers.
- are self-contained.
- are used to work in development stages.

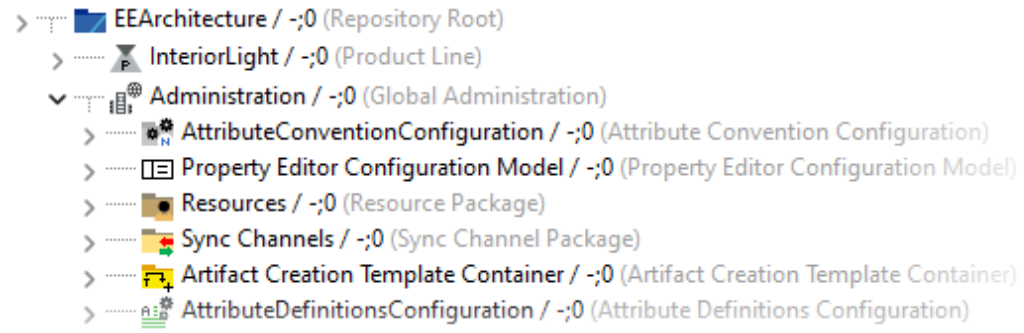
Artifacts formerly located under the *Repository Root* in parallel to *Product Line*s, for example *Library*, *Plan*, *Analysis*, are now integrated into individual *Product Line*s. The *Design Models*, formerly located under the *Repository Root*, has been completely removed.



Administration

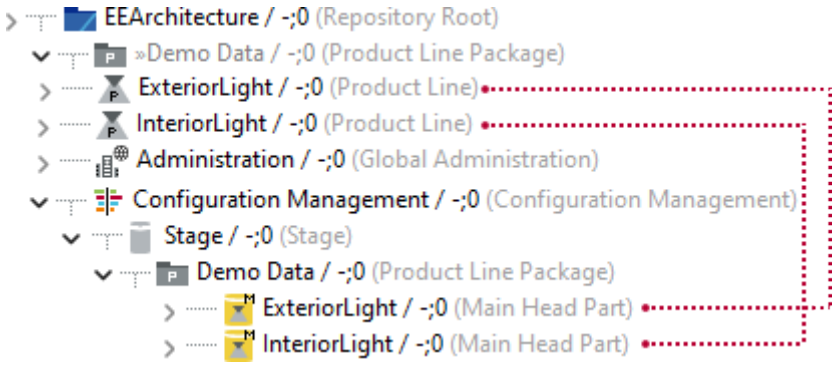
The *Global Administration* contains all data relevant for administration and configuration of the PREEvision client, rules or metrics.

*Local Administration*s are located in *Product Line*s. They are displayed in the *Product Line*s as virtual folders.



Configuration management

The newly introduced *Configuration Management* is used to structure and organize the development data in *Product Line Package*s and *Product Line*s. *Product Line Package*s and *Product Line*s can be created. The *Product Line*s are displayed as parts which reference the individual *Product Line*s in the domain model.

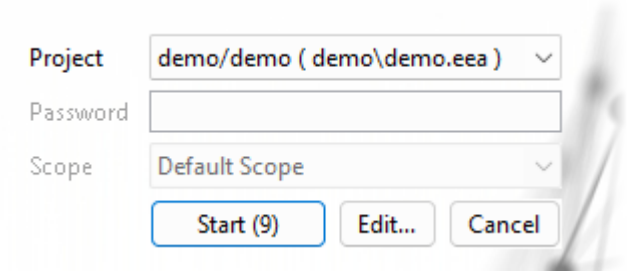


2.3.2 Usability improvements

Client startup

The client starts without any user interaction:

- After a countdown, PREEvision automatically starts with the project settings that have been used during the last session.
- The settings for the automatic startup and the countdown (1s to 600s) can be changed in the Preferences.
- Any user interaction with the login screen cancels the countdown and the automatic startup.



Support for high-resolution displays

PREEvision 26.0 supports high-resolution displays:

> The resolution of PREEvision is adapted to the scaling that is selected in the Windows settings.
> You can set the size of the user interface according to your individual preferences.

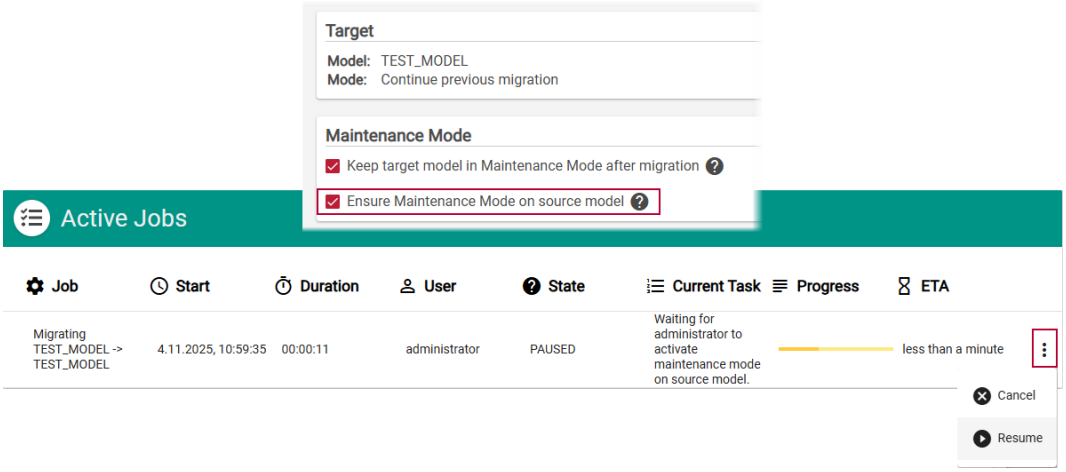
2.3.3 Administration

Reduce maintenance times during restore on top

Maintenance times can be significantly reduced for the final migration step of an incremental migration.

In each migration step, the last restored model version is loaded completely on the source and on the target system, while subsequent model versions are loaded as deltas. In former PREEvision versions, the maintenance mode was set on the source model once the final migration step was started.

In PREEvision 26.0, you can pause the migration after loading the first model version by activating the option **Ensure Maintenance Mode on source model** in the administration panel. Once the maintenance mode is set on the source model, the administrator can resume the migration.



Migration manual

Instructions on how to migrate to a new PREEvision version have been moved from the PREEvision operating manual to the new PREEvision migration manual. The PREEvision migration manual is provided as PDF in the delivery (`PREEvision_Migration_<version>_EN.pdf`).

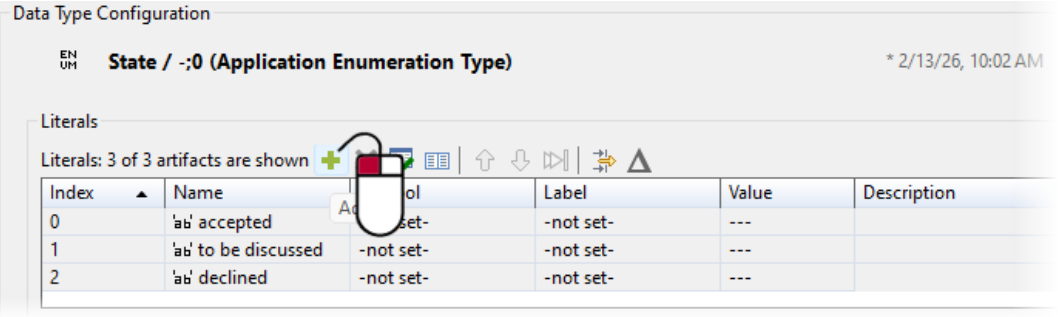
2.3.4 Configuration

Custom attributes

The handling of *Attribute Definition*s for adding a custom attribute to a *Meta Class* has been improved:

> An *Attribute Definition* can easily be used in different parts of the model.
> Changes of an *Attribute Definition* no longer result in a check-out of all artifacts that use the *Attribute Definition*.

If you change an existing *Attribute Definition*, implement only changes that are backward compatible, for example, adding an enumeration entry for an *Application Enumeration Type.*

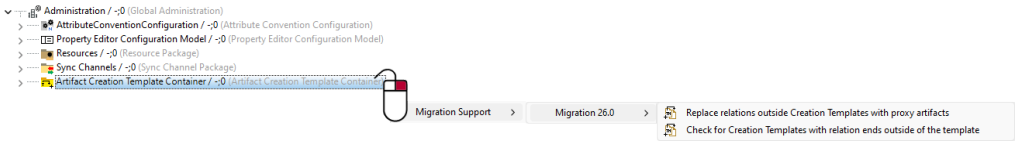


Incompatible changes, for example, changing the data type from string to integer, must be implemented as new *Attribute Definition*.

Artifact creation templates for product lines

Since *Product Line*s can only be created and stored in the domain model, the definition of Artifact Creation Templates has changed:

- For *Artifact Creation Template*s that create a *Product Line*, a proxy artifact is used in the administration.
- During the migration of existing *Artifact Creation Templates*, relevant *Product Line*s are moved from the administration to the *Configuration Management.*
- PREEvision 26.0 provides migration support to easily identify such *Product Line*s and make the required adaptations.

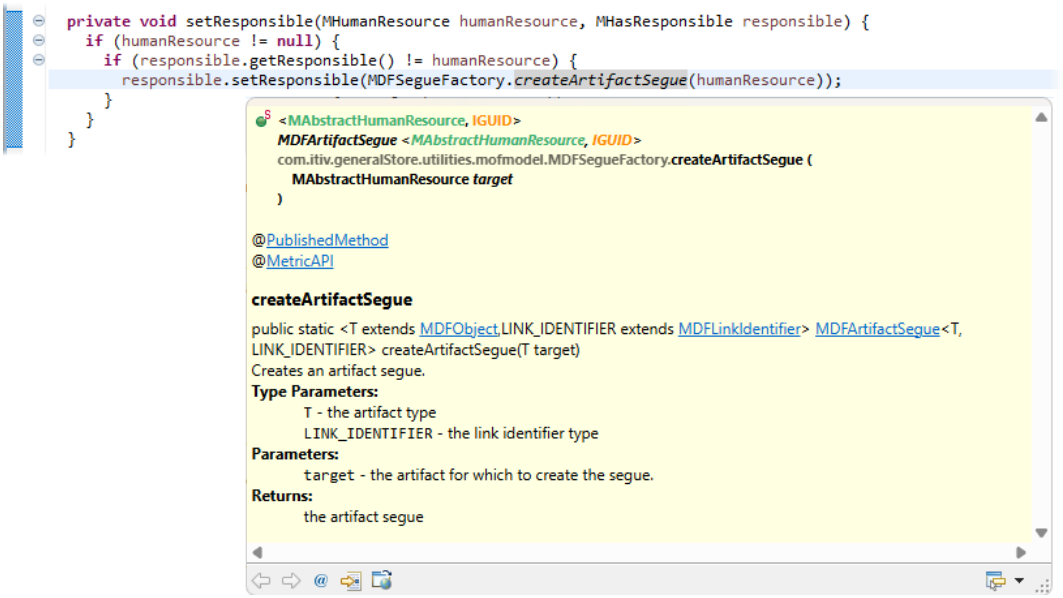


You can only execute an *Artifact Creation Template* for a *Product Line* if the original *Product Line* that has been pasted to the *Artifact Creation Template* is part of your scope.

Metric API and documentation

The Java editor provides a documentation of the classes and methods that are part of the published metric API. When you move the mouse over a class or method that is part of the documented API a tooltip is displayed with the documentation.

Example:



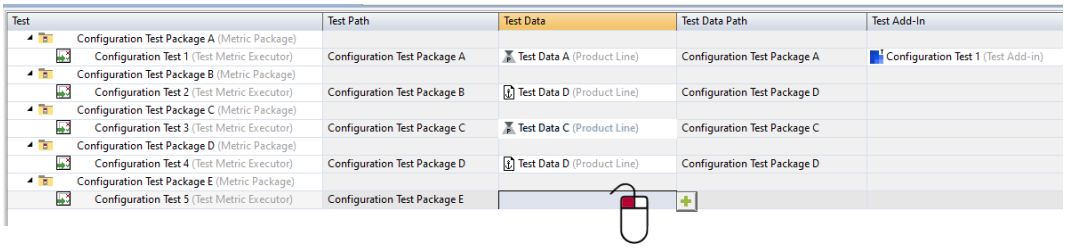
The documentation is also available as HTML help. To access the HTML help in your browser, click into the tooltip and click the button.

The HTML help is also accessible in the installation folder of the PREEvision client under:

`PREEvision\plugins\vi.metric.clientapi.javadoc.vbin_<version>\javadoc\index.html`

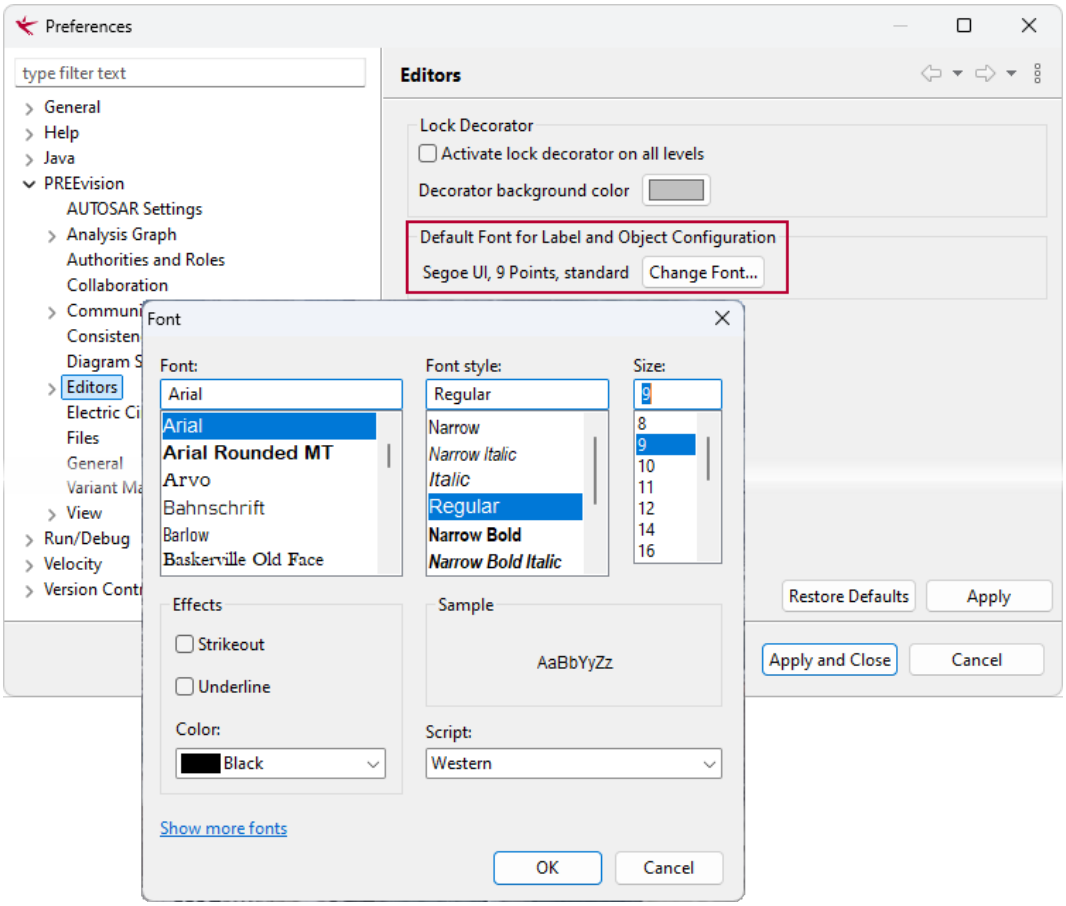
Testing configurations

The new Configuration Test Overview table makes it easy to set up and manage repositories for storing data for configuration tests.



Default font for object and label configuration

The default font used to configure objects and labels with the **Object Configuration** dialog or the **Label Configuration** view is now set in the **Preferences**.



Changed metric blocks: Get file

The *Get File* metric block has a new output port (*Data Source Port*):

> "availableFiles" (data type: `Collection<MFileAttachment>`): returns all *File Attachment*s that are locally available, which can be used for further processing the files.

Changed metric block: Excel import

The "filepath" input port of the *Excel Import* block now accepts *File Attachment*s in addition to file paths for importing.

Changed metric block: CSV export

The *CSV Export* metric block has a new optional input port (*Data Target Port*):

> "encoding" (data type: `String`, default: "UTF-8"): sets the character encoding. Possible values are (case-sensitive): "UTF-8", "UTF-16", "UTF-16BE", "UTF16LE", "US_ASCII", "ISO-8859-1"

2.4 Configuration information

Migration manual

The new PREEvision migration manual (`PREEvision_Migration_<version>_EN.pdf`) has been introduced to provide you with detailed information and instructions on how to migrate to PREEvision 26.0.

This includes:

- an overview of the new model structure and link types of PREEvision 26.0.
- changes with regard to configuration.
- instructions for migrating custom configuration.

Changed metric blocks

The following metric blocks have been changed:

Block and category	Changes
Get File Category: **Common**	New output port (*Data Source Port*) "availableFiles" (data type: `Collection<MFileAttachment>`, default: `NULL`). This port returns all *File Attachment*s that are locally available. The common use case of the block is to pass one *File Attachment* artifact into the block. The new output port now allows further processing of the *File Attachment* artifact.
Excel Import Category: **Common**	The "filepath" input port now accepts *File Attachment*s in addition to file paths for importing.
CSV Export Category: **Common**	New optional input port (*Data Target Port*) "encoding" (data type: `String`, default: "UTF-8"). This port sets the character encoding. Possible values are (case-sensitive): "UTF-8", "UTF-16", "UTF-16BE", "UTF16LE", "US_ASCII", "ISO-8859-1"
Add-in Delivery Category: **Administration**	The mandatory input port "exportTestPREEstoreDelivery" has been removed. Updated description of input port "exportFilePath": Full path including the name of the exported *Add-in*s file. If the given file name does not end with ".addins", either the given file ending will be replaced with `.addins` or `.addins` will be added to the provided name. New optional input port "selectedAddins" (data type: `List<Add-in>`, default: not set): Only the provided list of *Add-in*s is exported. If the input port is not connected or an empty list is provided, then all *Add-in*s in the *Global Administration* are considered. The *Add-in*s that are exported must additionally fulfill the requirements controlled by the input port "exportTestAddinsDelivery". New optional input port "exportTestAddinDelivery" (data type: `Boolean`, default: `false`). Possible values: - `true`: A test export is executed. The resulting file contains all selected *Add-in*s, regardless of their **Delivery State** and check-in state. - `false`: Only *Add-in*s that are checked-in and have the **Delivery State** "Ready for Delivery" are exported.

Block and category	Changes
Add-in Installation/ Update Category: **Administration**	The mandatory input port "exportTestPREEstoreDelivery" was renamed to "addinsFilePath". The port provides the full path to the *Add-in*s file containing the *Add-in*s to be installed. The file extension must be `.addins`.
Update Asset Category: **Product Line Engineering**	New optional input port "productLineTypeForUpdateWithSubstitutions" (data type: *Product Line Type*, default: `NULL`): Substituting components requires that a *Product Line Type* is provided at this port. The type characterizes temporary *Product Line*s that are required during **Asset Update** to re-establish substitutions.

Removed metric blocks

The following metric blocks have been removed:

Category	Block
Product Line Engineering	*Determine Migration Status*
Product Line Engineering	*Migrate Asset Permanently*
Product Line Engineering	*Merge Assets*
Product Line Engineering	*Type Propagator*
Product Line Engineering	*Get Assets From Upstream To Convert Foreign Relation*
Product Line Engineering	*Convert Relation After Asset Reuse From Upstream*
Software Architecture	*Whole Deepest Product Line Relevance Function*
Software Architecture	*AUTOSAR Identity Function (Source defines ImExId matching)*
Communication	*PLM XML Document Creator*
Electrologic and Harness	*KBL Export*
Electrologic and Harness	*KBL Import*
Change Management	*Ticket Import*
Tables	*Table Reference Import*

Metric utilities

The following metric utilities have been changed:

- `mdfHasOutOfScopeRelation` has been replaced by `mdfHasOutOfScopeHardLink(MDFRelationInfo)`
  The method only checks on hard links.
- `mdfGetTypeUUID` has been renamed to `mdfGetObjectUUID`

Size limitation for loading and changing the version of an artifact

When loading or changing the version of an artifact, the transfer of the artifact's subtree uses a serialization format that is limited to a size of 2 GB. This corresponds to 9.4 million artifacts or relations. The maximum size refers to the selected artifact and its subtree, as well as additionally required external types and their relations.

Take this limitation into account when you structure the model, so that the affected actions run successfully for your use cases.

The following actions are affected by the size limitation:

- *Asset* update
- replace with version
- replace with selected version
- restore selected version
- reuse historical version
- update *Asset* to historical version in checked-in *Product Line* (customer-specific action)
- load *Product Line* in read-only mode (customer-specific action)
- compare against historical version
- compare for reuse inconsistencies

Other actions are not affected, for example:

- loading the (full) model and updating the model
- loading the scope
- backup and restore
- migrating models
- using *Asset*s

PREEvision provides performance monitoring measurement points to observe the utilization if the serialization format is used.

For performance monitoring, the following measurements have been added:

- Utilization Segue Relation Storage in Percent. Rounded integer value between 0 and 100.
- Utilization Compressed Values Storage in Percent. Rounded integer value between 0 and 100.

2.5 Changes

Performance changes

For the following actions, the performance has significantly improved:

- updating to the latest revision
- committing new reuses
- committing new relations
- loading submodels from the database
- reloading artifacts
- updating the model on the client with a newly created submodel

Performance degradation for committing large deleted subtrees due to changes for future support of forks.

Diagrams

- The **Advanced** populate function for populating diagrams based on template diagrams has been removed.
- *Diagram Table Reference*s have been removed.

Product goals

The *Feature Functionality Network* has been removed.

Views

The **Monitored Artifacts** view and the **Modified Artifacts** view have been removed.

Search

The **Model Search**, which could be loaded via the **[Customize]** button as additional tab into the search dialog, has been removed.

Model merge import

The import of a model via a model file to merge it into a current model has been removed.

Electrologic and harness

- The *Component Circuit Diagram* has been removed.
- The *Concept System Diagram* has been removed.
- The *KBL Import* block and the *KBL Export* block have been removed.
- The Wiring Harness Import via Excel files has been removed.
- The function of mapping KBL attributes to *Pre Build Variant Condition*s or *Variation Point Set*s via *Variation Point Type*s has been removed. Thus, the *Variation Point Type* class has been removed.

Test engineering and test management

- The **Test Project Execution Analyzer (flat)**, which displays all test execution results as a flat list, has been removed.
- The trend analyzers **Quality Progress Trend** and **Activity Trend**, which monitor information of a *Test Project* over time, have been removed.

Product line engineering

- The implicit *Asset* use via drag and drop in a diagram has been removed. The drag and drop action of a direct core artifact of a checked-in *Asset* in a diagram of a direct downstream *Product Line*, which reuses the *Asset* and displays the reused core artifact in the diagram, is no longer supported.
- Product line foreign relation conversion:
  - The **Product Line Foreign Relation Converter** has been removed.
  - The metric blocks *Get Assets From Upstream To Convert Foreign Relation* and *Convert Relation After Asset Reuse From Upstream* for converting foreign relations have been removed.

- The following further metric blocks have been removed:
  - *Type Propagator*
  - *Whole Deepest Product Line Relevance Function*

2.6 Fixed issues

Fixed issues in PREEvision 26.0

You will find the important fixed issues in the following tables. Please note that some issues depend on specific configurations, views, or models.

Further information

- Common
- Diagrams
- Tables
- Systems engineering
- Requirements
- Logical function architecture
- AUTOSAR
- Software architecture
- Diagnostics
- Communication
- Hardware architecture
- Geometry
- Product line engineering
- Variant management
- Change and release management
- Test engineering and test management
- Rules
- Metrics
- Collaboration
- Administration
- Backup, restore, and migration

2.6.1 Common

ID	Resolution
17938306916091994	If all diagrams of one diagram type are displayed in the **Search** result view, you can switch between a list view and a tree view.
9082949060133172046	After the content of a table in the **Property View** has been sorted, copying artifacts in the table via the context menu or via **<Ctrl>+<C>** works correctly.
9082949059600482051	For opening the **Usage** property page of a *Constant Reference*, the performance has been improved.
9082949060631692080	The **Compare** perspective is displayed correctly.
9082949060718732080	When you compare artifacts, the **Property View Left Side** and the **Property View Right Side** highlight the differences correctly.
9082949058217743108	A problem with merging two artifacts with multi-value custom attributes has been resolved.

ID	Resolution
9082949059947732113	If you try to create artifacts in a model location where these artifacts cannot be created, an error message is displayed.
9082947085585852025	PREEvision supports high-resolution displays. The resolution of PREEvision is adapted to the scaling that is selected in the Windows settings. The information dialog about the Windows scaling dialog is no longer displayed.
9082947085179441915	The performance of the **Property View** has been improved: **Property View** tables that contain large numbers of artifacts are updated faster.
9082949058587781806, 9082949059445992063	Type changes of artifacts with configured default values no longer result in the loss of internal values.
9082949059944852101, 9082949060398891979, 9082949060352502072	Null pointer exceptions that were caused by asynchronous refreshes of UI elements are now being handled.
9082949059116222076	The Java settings for the parameters "add-opens" and "add-modules" have been unified on the server and client.

2.6.2 Diagrams

ID	Resolution
9082949060580221027, 9082949060725432083	When a diagram is in read-only mode, a colored frame is displayed around the diagram. This frame has been made thicker to make it easier to reach the tooltip. This tooltip provides more detailed information on why the opened diagram is in read-only mode.
9082949060752211995	Documentation objects such as *Comment*, *Todo* and *Information* show the configured icon in the diagram in which they are displayed.
9082947085184442050	For custom palette items, the *Localization*s are correctly displayed in the palette. If no *Localization* exists, the name of the *Palette Folder* is displayed in the palette.
9082949060632051884	If the **Enable Multi-Usage for the Selected Tool** button in a diagram toolbar is active, the mouse pointer (default: arrow) changes its appearance.
9082949059882722099	Moving figures with highlights in diagrams works faster.
9082949059891372034	When deleting an artifact in a diagram via **<Ctrl>+<D>**, the deletion does not differ from a delete of the artifact in the **Model View** via context menu.
9082949855494432102	Object configurations of labels are correctly exported and displayed in diagram reports.

ID	Resolution
9082947087365862081	*Diagram Table Reference*s can only be displayed on artifacts in a diagram not in the diagram area. *Diagram Table Reference*s are not displayed for selection in the **Show Table** dialog if the dialog is opened on a diagram area.
8682711686591042106	The display of text in diagrams exported as SVG has been improved.
9082949059440332081	If an artifact is contained in several diagrams, the diagrams which contain the artifact can be listed in the **Search** view via **Open with | Show diagrams in Search View** on the corresponding artifact. Especially if the artifact is contained more than once in a diagram, the diagram is listed multiple times in the **Search** view. If a diagram is opened from the **Search** view, only the actual representation of the artifact is selected in the opened diagram.
9082949060610141027	Reference lines, which can be used in diagrams to easier align artifacts, are no longer copied when using the paste layout function. In printed diagrams reference lines are not displayed.

2.6.3 Tables

ID	Resolution
9082949060594292101	If you export profiling data for a table to an Excel workbook and the data limit of the Excel workbook is reached, another workbook is created, which contains the remaining data.
9082949060631413043, 9082949060586961995	In tables that display artifacts with lifecycles, the click position for opening the lifecycle state menu on a lifecycle state icon is calculated correctly.
9082949060670193082	Duplicating a table and then closing the other table has no effect on open editors.
9082949059809943089	In tables with multiple expandable trees, column metrics no longer duplicate values of parent entries if the cells below the parent entry are empty.

2.6.4 Systems engineering

ID	Resolution
8682711687264651918	The representation of a fulfilled *Requirement* or *Customer Feature* of a *Use Case* in the *Class Diagram* is displayed correctly.

2.6.5 Requirements

ID	Resolution
9082949060650702105	ReqIF agreement export: The export correctly retains and exports all globally defined text styles.
9082949059954192105	Excel export: The export of formatted texts is more robust when exporting various special characters.
9082949060550712105	Specifications containing multiple placeholders for the same file attachment can be exported to Excel.
9082949060651542042	ReqIF import: ReqIF files containing file objects without the mandatory MIME type can be imported. The affected file objects are skipped during the import. A message in the **Information View** lists these cases.
9082949059992833082	ReqIF export: Misleading error messages in the **Information View** when an exported EEA meta attribute had no value set have been removed.
9082949060708581808	Formatted texts containing strings that are identical with escaped Unicode characters, for example, "_x000D_", can be exported using the Excel export.

2.6.6 Logical function architecture

ID	Resolution
9082949058415253108	When executing the **Convert Block** refactoring on a logical block, in the **Convert block** dialog, *Logical Types Package*s in the *Logical Function Architecture* can be selected as target packages in addition to *Logical Types Package*s in the local *Library*.
9082949058528422042	The refactoring function to create a *Building Block* at a *Logical Function* is only available in a *Logical Architecture Diagram*. The functionality is no longer available in the **Model View**.

2.6.7 AUTOSAR

ID	Resolution
8682711686939771024	AUTOSAR import: AUTOSAR files in subfolders will now be imported when using folder import.
9082949059809982056	AUTOSAR import metrics respond to cancel requests from the user.
9082947086060291998	AUTOSAR import: Import of system description cannot produce multiple roots.
9082949060635881032	AUTOSAR export: The attribute **Number Of Repetitions** of an *Event Controlled Timing* is normally exported even if set to "FALSE".

ID	Resolution
9082949060367081804	AUTOSAR export: The default value for `SW-AXIS-INDEX` has been changed from 0 to 1.
9082949060675331808	AUTOSAR export: `LinNmCluster`s are only exported in AUTOSAR versions from 4.3.0 to 4.4.0.
9082947086046771914	AUTOSAR ECU extract: Implementation data types and application data types of static memory and constant memory are exported.
9082949060527972108	AUTOSAR ECU extract: Nested *Signal IPDU Group*s are exported.
9082949060672922004	AUTOSAR system description: Nested *Signal IPDU Group*s are exported.
9082949060673891030	AUTOSAR cluster extract: The exported *PDU Transmission* as **Secured Payload** of *Secured IPDU*s has been adjusted in case only a single *ECU* is propagated. If multiple *PDU Transmission*s are assigned to a *Secured IPDU* as the **Secured Payload**, the export now deterministically selects a *PDU Transmission* that shares an *ECU Interface* belonging to the exported *ECU* with its container *PDU Transmission* in the same role, either sending or receiving.
9082949060676202051	AUTOSAR export of software component description: Both internal and physical **Data Constraint**s are exported.
9082949060440931998	AUTOSAR export of software component description: *Port Interface Mapping*s are exported correctly.
9082949058600701810	AUTOSAR export of service instance manifest: `Method-Ref` is exported for *Fire and Forget Method*s.
9082949058350742003	AUTOSAR import and export: The relation `NmEcu.busDependentNmEcu` is now supported. Also, attributes of network management artifacts will be exported according to the selected AUTSOAR version.
9082949060699282004	Consistency check: The check for the AUTOSAR `constraint_3008` has been corrected.
9082949060124492051	Consistency check: Two new checks have been added to make sure that virtual packages only contain valid artifacts.
9082949058822901992	AUTOSAR export: The attribute **CAN FD Baud Rate** is exported correctly for *CAN J1939 Cluster*s.
9082949059155861003	Consistency check: The *Consistency Rule* "p1059_SignalIPDUAssignment_with_wrong_attributes" has been reworked and renamed to "ac01157_SignalIPDUAssignment_with_wrong_ attributes".
9082949059158451867	Consistency check: Several checks regarding *Coupling Port*s have been reworked.

ID	Resolution
9082949060398071913	Consistency check: Several adaptations for checking `[constr_1221]` of the AUTOSAR Software Component Template have been made.
9082949060695662004	Consistency check: Checks related to *Assembly SW Connector*s have been corrected and optimized.
9082949060484921024	Consistency check: The *Consistency Rule* "pc1077_SenderReceiverCommunication_without_InitValue" has been removed, because the checks are already covered by the "cac1100" and "cac1891" *Consistency Rule*s.
9082947086151441003	Consistency checks: The *Consistency Rule* "cac1935_multiInstanceSupport" has been optimized.
9082949060577302004	Consistency checks: The *Consistency Rule* "RC422_TPS_SYST_02026_OnlyOneEventControlledTimingNumberOfRepititionsNotZero" correctly checks for "Not Set" condition for the attribute **Number Of Repetitions**.
9082949060676212003	Consistency checks: *Consistency Rule Group*s for software and communication are set to **Active**.

2.6.8 Software architecture

ID	Resolution
8682711553173572113	*Application Record Element*s displays the **Port Owner** in addition to the **Common Port** in the **Selecting Port** table of the **Property View**.
8682711687003171875	**Init Value** on *Per Instance Memory* is displayed properly in the **Property View**.
8682711687003271875	Initial values for *Per Instance Memory* can be easily set in tables. An *Application Literal* is created when a value is set.
9082947084768832111	Names of newly created artifacts are now selected correctly even when a content assist is configured.
9082947086104971024	The **Property View** of *Transformation Properties* now displays the relation to *Port Transformation Specification*.
9082949058221122051	The **Property View** of *Per Instance Memory* no longer offers the option to define a data type.
9082949060442012092	The name of the *Software Architecture System Diagram* has been corrected.
9082949060672912004	In the **Property View** of *Signal IPDU Group*s, the **Contained Signal IPDU Groups** table has been added to display contained *Signal IPDU Group*s.
9082949060399261045	The German localization for the table **Context Data Type** in the **Property View** of *Composite Network Representation*s has been improved.

ID	Resolution
9082949058888412051	The value handling for initial values of *Typed Per Instance Memory* has been corrected.
9082949059964593013	The feedback in the error log when doing MeDeLa syntax evaluation has been improved.
9082949060614012051	The display of **Factor** for *Computation Method*s with a double data type has been corrected.
9082949058828941992	Franca: The modeling of generic integers in the "Franca" *Product Line* of the demo model has been corrected. The documentation in the manual has been updated accordingly.
9082949060527191045	Franca export: The export wizard has been optimized and closes if error happens during transformation. Also, the dialog to overwrite files appears only once if exported file already exists.
9082949060439021045	Franca export: The export wizard can now be finished on any page when all wizard pages are complete.

2.6.9 Diagnostics

ID	Resolution
8682711554460332005	The **Diagnostic Realization Explorer** displays all subordinate compositions and software components below the root composition.
8682711554635572005	The **Artifact Picker** has been standardized across the software tables in the **Diagnostic Realization Explorer**.
8682711687005992005	The **Event** table in **SW Instance Referencing** category of the **Diagnostic Realization Explorer** the column **DTC** correctly displays the *Diagnostic Trouble Code* including error code.
9082949060085812005	Enablement, assignment, and display in the **Artifact Picker** of the **DID** table and the **IO Control** table in **SW Instance Referencing** category of the **Diagnostic Realization Explorer** have been corrected.
9082949059821141875	Diagnostic export: **Initial Values** in the context of *Application Array*s are correctly exported.
9082947085174592005	Diagnostic export: A *Diagnostic Connected Indicator* is only exported via PVCDI if it has both a **Healing Cycle** (*Diagnostic Operation Cycle*) and an **Indicator** (*Diagnostic Indicator*). If not, an information is reported in the **Infomation View**.
9082949059962742005	In the **Property View** of *System Signal*s, the *DTC Error Code* is now displayed in hex format with leading zeros.
9082949059961461875	The **IO Controls** table in **SW Instance Referencing** category of the **Diagnostic Realization Explorer** displays assigned *Diagnostic Data Object*s in case of a client-server realization.

2.6.10 Communication

ID	Resolution
9082947085931821794	The signal routing algorithm has been enhanced to remain stable, even if no communication artifacts are associated with the *Bus System*s. This improvement prevents unintended runtime errors and suppresses a misleading error dialog in the user interface.
9082949060361571914	The **Property View** of *SOME/IP Transformer*s, *End to End Transformer*s, *Generic Transformer*s, and *User Defined Transformer*s has been extended to support decimal values for rational conversion values.
9082949060542231030	A problem that caused a client freeze after moving a *Signal* in the **Frame Layout View** has been resolved.
9082949060714241029	DBC ECU extract: *Signal Group*s are exported.
9082949059882110105	DBC export: Export of electric/electronic hardware components has been corrected.
9082949060515131029	Signal router: A problem that caused an error message when routing composition ports that are connected to root ports has been resolved.
9082949060438951030	The feedback in the **Information View** in case of diverging orders of mapped *Application Record Element*s and *Implementation Record Element*s has been clarified.

2.6.11 Hardware architecture

ID	Resolution
8682711684980282196	The refactoring **Resolve Splice** is executed correctly if the *Splice* to be resolved has assigned a *Schematic Connection*.
9082949058592962083	In the **Property View** of a wire, for example a *Core*, the table on the **Connected Pins in Wiring Harness** property page displays the connected pins of the wires. The table on the **Connected Pins in Electric Circuit** property page displays the connected pins of the representing *Schematic Connection*s.
9082949060614271806	When executing the **Check Model Consistency** from the **Administration** menu, the **Information View** now displays extended information about warnings and/or errors when checking the wiring harness model structure to facilitate tracking and fixing the inconsistencies in the model.
8682711686958542062	The default label configuration of *Single Wire*s, *Core*s and *Shielding*s is realized via metrics. These metrics are now contained in the correct *Add-in*. Therefore, no errors are reported in the **Information View** if *Single Wire*s, *Core*s and *Shielding*s are created in empty models.

ID	Resolution
9082949060086752044	Wiring harness routing: When selecting a metric-based configuration as router configuration in the wiring harness router, no *Metric Package* is needed in the metric path of the selected metric.
9082949060688321994	*Header Pin*s can only be assigned to *Header*s or *Header Cavities* which are located on the component of the *Header*.
9082949060533612062	The conversion factors for units, especially those of square and cubic units, have been aligned in the "Wiring Harness Demo Model" *Product Line* in the PREEvision demo model.
9082949058422461029	In the **Property View**, the property page **Wiring Harness** of a wire shows the connected *Wiring Connector* of a *Wire Pin*. As there are several ways to connect wires to a connector, the *Wire Pin* that is connected to a *Pin Contact* has the highest display priority.
9082947086100981037	The palette entry **Connect Single Wire** to connect an existing *Single Wire* in *Wiring Diagram*s and *Wiring System Diagram*s has been removed.
8682711554423001268	The **Populate Artifact** dialog which opens when executing the **Populate...** action on a component in an auto-layout *Wiring Diagram* or *Wiring System Diagram*, only displays the **Show Conditions** populate option. Other populate options which are not allowed are not displayed.
9082949059105152102	In a *Wiring Diagram*, for a *Schematic Pin* or *Splice*, the **Populate** function of a *Condition* was always redirected from the *Schematic Pin* or *Splice* to its *Wire Pin*. Now, the **Populate** function of a *Condition* relates to the represented artifact (*Schematic Pin* or *Splice*).
9082949060021742083	Copy and paste actions of documentation objects, for example **Frame**, **Ellipse**, **Polygon Frame**, **Text**, in *Hardware Device Template Diagram*s, *Connector Template Diagram*s and *Segment Point Template Diagram*s are supported.
9082949060481181994	KBL import and export: The KBL import and export configuration files `importer.config` and `exporter.config` are no longer included in the "Electrologic and Harness" default *Add-in*. They are still available in the "Auxiliary: Import and Export Configuration" demo *Add-in*.
9082949060133642062	When a KBL file is imported twice via the KBL import metric into the same package, the existing *Local Administration* is replaced by the newly imported one. This change leads to the same behavior as with PREEvision 10.x and earlier.
9082949060608142039	KBL export: The error due to an XML schema violation during export via KBL custom export metric has been resolved.

ID	Resolution
9082949060126491784	KBL export: If the artifact propagation has already been executed via the **[Execute Propagation]** button in the KBL export wizard, and the propagation settings have been changed afterwards on the previous wizard page, the propagation result is reset, and the propagation can be executed again. Additionally, the following issue has been resolved: *Attribute Definition*s linked to the selected *Custom Attribute Profile* are propagated even if they are located in the *Global Administration*.
9082949060627411808	When exporting diagrams to SVG, connections, for example dashed or dotted lines for *Cable*s, are properly exported as they are displayed in the underlying diagram.
9082949060487182196	The **Show/Hide Headers and Pins** dialog, which can be used to display and arrange pins and *Header*s on components in *Wiring Diagram*s or *Electric Circuit Diagram*s, has been adapted. The **Terminal Designator** column has been removed, the **Transmitted Signal** column has been renamed to **Schematic Connection**. The **[Select All]** and **[Deselect All]** buttons also affect the state of the **Show Header** checkbox.
9082949060602331027	Using the **Show/Hide Headers and Pins** dialog has led to model inconsistencies. The model inconsistencies have been resolved, and no error is displayed anymore.
9082949060585232102	The delta label configurations have been removed. The label configuration is now included in the default label configuration for *Wiring Diagram*s and *Wiring System Diagram*s again. The required metrics are now contained in the "Object Label Configurations" *Add-in*.
9082949060720372039	The drag and drop of an artifact into the *Wiring Diagram* has caused a client freeze. The client freeze occurred due to uncompiled rules after migration to 26.0. The problem has been resolved after compiling the affected rules.

2.6.12 Geometry

ID	Resolution
9082949060546722045	In the *Geometry*, *Topology Segment*s with contained *Topology Segment Point*s require a defined start node to be routed via the wiring harness router. If a wire is routed through a *Topology Segment* without defined start node, the routing is aborted with an error message. For other *Topology Segment*s not contained in the routing scope only a warning entry is written to the log.
9082949060684581784	When the **Type based representation on placing artifact(s)** display mode is activated for a *Geometry Diagram*, the refactoring **Change Installation Location to Topology Inline Connector** now keeps the *Topology Segment*s and their contained *Topology Segment Point*s and *Topology Segment Interval*s as they are.

ID	Resolution
9082949060684591784	When the **Type based representation on placing artifact(s)** display mode is activated for a *Geometry Diagram*, the refactoring **Change Installation Location to Topology Inline Connector** now creates the graphical representation of the inline connector including its connector locations.
9082949059956772062	In a *Geometry Diagram* it is no longer possible to create multiple representations of a *Connector Location* within a section or the diagram space.
9082949060683331782	A quick fix for the consistency check "C9022_TopologySegment_withoutStartNode" is available which sets the start node with the lowest id as start node for a *Topology Segment*.

2.6.13 Product line engineering

ID	Resolution
9082949060527982012	The context menu action to build an *Asset* automatically has been renamed from **New | Corresponding Asset(s)** to **New | Create or Refresh Asset(s)**, to increase comprehensibility and to refer to the **Refresh Asset(s) and Check-in** function.
9082949060706282034	A merge error that occurred during the integration of updated *Asset* artifacts with modified to-one relations has been fixed.
9082949060706282034	Now, when *Asset*s are replaced, the internal relations between core artifacts whose version is not changed by the replacement are updated.

2.6.14 Variant management

ID	Resolution
8682711687441982012	In the **Artifact** column of the **Set Content View**, you can select all artifacts via **<Ctrl>+<A>**.
9082949059284011917	The recalculation of variants after minor changes has been optimized.

2.6.15 Change and release management

ID	Resolution
9082947085560923013	The **Show change history** action displays the **Change history**, even if the selected artifact has been checked out by another user and the model has not been updated.

2.6.16 Test engineering and test management

ID	Resolution
9082949060367101229	*Test Case Run*s which have been planned in a previous *Test Execution Increment* and for which at least one *Test Step Run* had been set to a verdict "passed" cannot be planned into a subsequent *Text Execution Increment* until all *Test Step*s have been completed.
9082949060711702042	The action **Manual Test Sequence Synthesis** supports multiple selection of *Test Specification*s or *Test Heading*s again.

2.6.17 Rules

ID	Resolution
9082949060373702070	In the **Consistency Check Results** view, the **Expand Result** action is no longer offered if no inconsistencies are found.
9082949059798642102	**Information View** entries and log file entries regarding the execution of *Consistency Rule Group*s include the name of the *Consistency Rule Group*.
9082950129643052102	When copying a rule, the **isNavigable** settings of the links of a rule are now kept.
9082949060478961234	A new rule *Object* receives the correct default name when it is created in a rule diagram by dragging a connection from an existing rule *Object* to an empty area of the diagram while holding down the **[SHIFT]** key.
9082949059992982101	The feedback regarding MeDeLa errors in the rule compilation has been revised for both the client and the server.

2.6.18 Metrics

ID	Resolution
9082947087335711995	Dragging and dropping a *Source Code* into a *Metric Diagram* creates a new *Calculation Block* that links to the *Source Code*.
9082949059975612024	The *Compare Model Tree* block now correctly evaluates metric-based *Compare Configuration*s.
9082949060657113054	The *Set, Change, or Remove Connector Prototype* block opens a dialog if the new *Connector Prototype* provided to the block has fewer cavities than the one previously used. Clicking **[OK]** closes the dialog and deletes the extra cavities, contacts, and their relations. Clicking **[Cancel]** closes the dialog and returns "Cancel" at the "changedArtifact" output port.

ID	Resolution
9082947087304402050	The *CSV Export* block now has an input port for setting the character encoding. The default encoding is `utf-8`.
9082947086024502011	A new output port has been added for the *Open Condition Editor* block which returns `0` if the dialog was closed via the **[OK]** button or `1` if the dialog was closed via the **[Cancel]** button.
9082949060440562060	The option **Table Editors | Metric Table** has been removed from the context menu.
9082949059976352113, 9082949059975293042	The highlight calculation in *Metric Diagram*s has been limited to artifacts that are contained in the diagram.
9082949060519753088	Error messages related to invalid MCHL allow list files have been improved. Configuration files from multiple global administrations can now be handled.
9082947087375251024	Moving the first or last element of a composite up or down with the *Change Order* block no longer results in a null pointer exception.
9082949060784741995	For the automated metric execution via ANT script, both „selectedElements“ and „parameters“ can be simultaneously set to set the input of the metric. The PREEvision configuration manual has been updated and now describes how model contexts are overwritten when both parameters are specified. If both „selectedElements“ and „parameters“ are set, „selectedElements“ overrides the first context below the metric executor that matches one of the following criteria: > The context is a *Primary Model Context*. > The context is a *Model Context* with the name "source".
9082949059594081995	A null pointer exception that occured while executing multiple internal loops in metrics is now being handled.
17938305016852042	The *Open File Dialog* and *Open Directory Dialog* blocks now use the same Windows dialog.
9082949059596701870	The **Undo All Locks** action no longer fails during automatic metric execution.
9082949059227171992	Context menu folders containing only metric executors are now displayed.

2.6.19 Collaboration

ID	Resolution
9082949059717192203	Files with a file size larger than 500MB can be committed if the application server is installed on a Linux system.
9082949060130312062	Performance of label calculations in scope definition mode has improved.

ID	Resolution
8682711687273921030	A problem with checking out reused types with checked-out instances has been resolved.
9082949058320162203	E-mails that are sent during lifecycle transitions use UTF-8 encoding.
9082949059693322051	A problem has been resolved which caused an error message after a large commit and subsequent updates for many users.
9082949058764420124	If you try to replace an artifact version with another artifact version that has a different object UUID, a detailed error message is displayed.
9082949060355222203, 9082949060440572203	Client-server communication has been made more robust for committing many files, such as during *Add-in* installations, and for poor connections to the SVN server.
8682711553438923103	In the Jaeger three-tier test environment, server traces are now categorized under "PREEvision Server"

2.6.20 Administration

ID	Resolution
9082949059825641995	The **Custom Attribute Definition Editor** has been optimized and shows *Multi Value Attribute Definition*s and their details.
9082949060050571786	The error during *Add-in* installation in installation mode comprising large models, for example, models containing more than 60-80 million artifacts, has been resolved.
9082949059140171995	The *Metric Diagram*s that are provided with the *Demo Add-in* "Auxiliary: Change Profiles" have been repaired.
9082949059944112068	When updating *Add-in*s containing *Condition*s, *Condition*s and their child artifacts are properly updated. Changes can now be delivered via update. No deletion of the *Condition* in the target model is necessary anymore.
9082947084965702191	In the **Information View**, all postings about uninstalling *Add-in*s are now grouped under a new main entry. A new subentry lists the uninstalled *Add-in*s.
9082949058283511868	When installing partial *Add-in* deliveries, *Add-in*s not included in the delivery are no longer uninstalled. The `-DdeactiveAddinsDeinstallation` parameter of the `PREEvision.ini` client configuration file is obsolete.
9082949058382351868	The installation wizard displays a message when a user cancels an *Add-in* installation.
9082949060533692101	Reverting customized *Add-in* artifacts has been improved: You can now select multiple artifacts to revert them to their original state. The results of the reversion are displayed in the **Information View**. Additionally, the reporting of reversion progress has been improved.

ID	Resolution
9082949060562821868	*Add-in* propagation now considers the *Data Type Unit* for *Application Data Type*s that are used as *Attribute Definition*s or in *Parameter Block*s.
8682711686729843013	When unrecoverable authority model constellations occur, proper PREEvision error handling now applies, such as switching to read-only mode.
8682711554422571917	Users who do not have the necessary rights to execute a check-out action no longer see the check-out entry in the context menu.
9082949058981311229	Artifacts that have been removed in the authority model are displayed correctly in the **Commit Dataset** dialog.
9082949059591091806	When you export parts of the authority model, in the export wizard, the same artifacts are selected as in the **Model View**.
9082949060426062051	If the **Inherit Data Type Unit** option is activated for a *Value Handling Configuration*, the *Data Type Unit* is taken over correctly from the referenced data type.
17938308088942039	*Add-in* propagation now considers all rules and metrics included in a *Diagram Configuration*.
9082949060710431231	**Add as core artifact** is now the default selection in the *Add-in*'s drag and drop menu.
9082949059395451837	The "Configuration without Add-ins" *Table* now only displays artifacts that are not assigned to an *Add-in*. This includes artifacts assigned to *Test Add-in*s, *Demo Add-in*s, or *Obsolete Add-in*s.
9082949060526532012	Clicking **[Cancel]** in the **Create Add-in Delivery Model** dialog before specifying a save location will close the dialog immediately.
9082949060542252039	If an *Add-in* installation results in unsynchronized reuse, the user is now prompted in the **Information View** to perform a model consistency check to resolve the issue.
9082949060680981995	When a *Table* is moved to a *Table Editor Package* within the *Table Editor Configuration* of a *Local Administration* or *Global Administration*, it is removed from the auto-managed configuration data.
9082949058603321231	When installing or delivering *Add-in*s, it is checked whether ACD (auto-managed configuration data) artifacts whose insertion point (location where an ACD artifact virtually resides in the model) is not included in an *Add-in* have parent ACD artifacts whose insertion points are also not included in the *Add-in*.
8682711687408941202	Add-in installations assign obsolete artifacts to a single *Obsolete Add-in*.
9082949059944191995	The OSLC view has been renamed "OSLC Links" and a new icon has been added.
9082949059828112112	The message in the **Missing External Relations** dialog has been clarified.

ID	Resolution
8682711686356961229	A problem with the localization of license-related log file entries has been resolved.
8682711555040521217	The connection data (host and port) for the data collector and data query are logged in the log file.
9082947084928643008	The **Model Extraction With History** action is only available for user with administrator rights.

2.6.21 Backup, restore, and migration

ID	Resolution
9082949060578321872	In the administration panel in the **Backup Configuration**, the option for handling referenced model versions has been updated. The option **Omit referenced model versions** has been renamed to **Include referenced model versions**. The option is now disabled by default, which means referenced model versions are not included in the backup.

2.7 Known issues

Known issues in PREEvision 26.0

You will find the important known issues in the following table. Please note that some issues depend on specific configurations, views, or models.

ID	Known issue
8682711555165912106	ReqIF export: For empty attributes, the string defined in the **Text for empty Labels** property is exported instead of an empty string. By default, this is "---". **Workaround:** In the **Preferences**, under **PREEvision | General**, remove all characters from the **Text for empty Labels** property.
9082949059821032062	During KBL export with propagation, more artifacts are exported than were propagated. This is caused by an issue in the export framework. For example, it is currently not possible to export only a specific *Connector Location* if its *Installation Location* is part of the propagated artifacts, since all contained *Connector Location*s are exported. The exported KBL file however is valid.
9082949059853333059	When comparing two artifacts, in the **Compare** perspective one of the **Property View**s of the artifacts to be compared is, in some cases, not displayed in compare mode. **Workaround:** Close the **Compare** perspective and execute the artifact compare again.
9082949059891171896	Artifacts that have been unloaded from the temporary scope are kept in memory. **Workaround:** Commit the model to remove artifacts of the temporary scope from memory.
9082949060708422113	PVCDI export: Until now, *Attribute Definition*s and their lightweight values are only exported to PVCDI variants if they are contained in a variant set. With PREEvision 26.0, it is no longer possible to assign an *Attribute Definition* to a variant set, since this would represent an invalid relation in the form of a model-crossing link. Already existing *Attribute Definition*s contained in variant sets, however, remain valid and can be exported without restriction. **Workaround:** To model variants for PVCDI export, it is necessary to define a temporary exception in the `ModelCrossingLinkConfigurationFile.mchl` located in the *Global Administration | Configuration File Container | ModelCrossingLinkConfiguration*. Add the following entry: `ALLOW AttributeDefinition.includedBy Set.includedArtefacts`

ID	Known issue
9082949855557903059	In some cases, when a *Report* includes a *Report Module* with placeholders, double spaces at the end of a paragraph are not merged to one space. This situation occurs if there is a space after the placeholder including the *Report Module* and the *Report Module* ends with a space. **Workaround:** Open the *Report* or the *Report Module* and delete one of the spaces.
9082949060452921859	In case of an updating ReqIF import, this means importing a ReqIF file into an already existing structure, some artifacts are locked even though they are not changed. When committing, the commit dialog correctly shows which artifacts are changed. **Workaround:** If you commit right before and right after the updating import, the commit dialog shows the correct set of changed artifacts.
9082949060440593008, 9082949060554172008	Dialogs that display artifacts or that are used to select an artifact sometimes do not show all artifacts. The error is caused by virtually displayed artifacts, for example, *Product Line Package*s, in combination with the scope handling.

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