

VECTOR >



PREEvision

Release Notes

Version 8.5 SP18
English

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1 PREEvision 8.5 SP18

This chapter contains the following information:

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1.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.18
PREEvision license server	2.0.7
PREEvision database server	8.5.18.00
PREEvision application server	8.5.18

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

1.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

License server version 2.0.7

The new version 2.0.7 of the stand-alone license server is available.

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once. Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

Model restore is only possible with a PREEvision version that has a metamodel change ID that is equal to or greater than the metamodel change ID of the PREEvision version with which the backup was performed.

The following table shows compatible client, server application, database server script, and metamodel versions for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version	Metamodel change ID
8.5.0	8.5.0	8.5.0.12	
8.5.1	8.5.1	8.5.1.04	
8.5.2	8.5.2	8.5.1.04	
8.5.3	8.5.3	8.5.1.04	
8.5.4	8.5.4	8.5.1.04	
8.5.5	8.5.5	8.5.1.04	
8.5.6	8.5.6	8.5.6.00	
8.5.7	8.5.7	8.5.6.00	
8.5.8	8.5.8	8.5.8.00	
8.5.9	8.5.9	8.5.8.00	
8.5.10	8.5.10	8.5.8.00	
8.5.11	8.5.11	8.5.11.01	2018-11-09
8.5.12	8.5.12	8.5.12.01	2018-11-09
8.5.13	8.5.13	8.5.13.05	2019-01-25
8.5.14	8.5.14	8.5.14.02	2019-03-26
8.5.15	8.5.15	8.5.15.01	2019-04-17
8.5.16	8.5.16	8.5.15.01	2019-04-17
8.5.17	8.5.17	8.5.15.01	2019-04-17
8.5.18	8.5.18	8.5.18.00	2019-04-17

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

1.3 Fixed issues

Fixed issues in PREEvision 8.5 SP18

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

ID	Resolution	Category
17938293688669822 17938293899822758	Frame-PDU synthesis will merge <i>Frame Transmissions</i> and <i>PDU Transmissions</i> in multi-sender and multi-receiver scenarios.	Communication
17938289535869224	Loading the version history in the Property View has been improved. The linked non-versioned artifacts, the relation and attributes are no longer loaded when retrieving the version history of an artifact.	Collaboration
17938292805069005	The merge algorithm for the relations has been improved for the replace with latest revision operation for <i>Assets</i> .	Collaboration

1.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

Invisible text while typing in a formatted text field (17938291247938454)

If the Windows settings for the size of text, apps and other items is set to greater than 100%, currently typed-in formatted text is not visible in formatted text fields. After leaving the focus of the formatted text field and clicking again into the formatted text field, the text is visible.

Workaround: In the Windows settings, set the size of text, apps and other items to 100%.

2 PREEvision 8.5 SP17

This chapter contains the following information:

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2.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.17
PREEvision license server	2.0.7
PREEvision database server	8.5.15.01
PREEvision application server	8.5.17

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

2.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

License server version 2.0.7

The new version 2.0.7 of the stand-alone license server is available.

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once. Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

Model restore is only possible with a PREEvision version that has a metamodel change ID that is equal to or greater than the metamodel change ID of the PREEvision version with which the backup was performed.

The following table shows compatible client, server application, database server script, and metamodel versions for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version	Metamodel change ID
8.5.0	8.5.0	8.5.0.12	
8.5.1	8.5.1	8.5.1.04	
8.5.2	8.5.2	8.5.1.04	
8.5.3	8.5.3	8.5.1.04	
8.5.4	8.5.4	8.5.1.04	
8.5.5	8.5.5	8.5.1.04	
8.5.6	8.5.6	8.5.6.00	
8.5.7	8.5.7	8.5.6.00	
8.5.8	8.5.8	8.5.8.00	
8.5.9	8.5.9	8.5.8.00	
8.5.10	8.5.10	8.5.8.00	
8.5.11	8.5.11	8.5.11.01	2018-11-09
8.5.12	8.5.12	8.5.12.01	2018-11-09
8.5.13	8.5.13	8.5.13.05	2019-01-25
8.5.14	8.5.14	8.5.14.02	2019-03-26
8.5.15	8.5.15	8.5.15.01	2019-04-17
8.5.16	8.5.16	8.5.15.01	2019-04-17
8.5.17	8.5.17	8.5.15.01	2019-04-17

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- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

2.3 Fixed issues

Fixed issues in PREEvision 8.5 SP17

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

ID	Resolution	Category
17938292804998157	The frame synthesis does not handle <i>Multiplexed IPDUs</i> or <i>Frames with Multiplexed IPDUs</i> .	Communication
17938293567389005	The error during Frame-PDU synthesis due to <i>Signal-IPDU-Assignments</i> without assigned <i>Signals</i> has been fixed.	Communication
17938290926012689	The DBC export only considers the used value tables and the value tables in <i>Data Type Package</i> "Value Tables".	Communication
17938292940328157	DBC export: The export behavior concerning conversion tables has been improved. Linear conversion tables, verbal conversion tables and OneToOne conversion tables will be exported. Conversion Tables not supported will be displayed in the Information View .	Communication
17938293116256486	DBC export: A consistency check has been added in case more than one value definition exists for an attribute.	Communication
17938293351699221	The stack overflow error during signal routing has been fixed. The implementation was changed from recursive to iterative.	Communication
17938293054679295	The <i>Test Item Editor</i> can be properly opened on <i>Test Items</i> again.	Test engineering and test management
17938293175458454	A runtime error has been fixed that occurred when using a metric in a table containing elements that are displayed in an opened diagram.	Metrics
17938292926028454	When switching to working online again, after working offline, the previously borrowed license can still be used.	Collaboration

2.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
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If the Windows settings for the size of text, apps and other items is set to greater than 100%, currently typed-in formatted text is not visible in formatted text fields. After leaving the focus of the formatted text field and clicking again into the formatted text field, the text is visible.

Workaround: In the Windows settings, set the size of text, apps and other items to 100%.

3 PREEvision 8.5 SP16

This chapter contains the following information:

3.1	Version numbers	23
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3.3	Fixed issues	26
3.4	Known issues	27

3.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.16
PREEvision license server	2.0.6
PREEvision database server	8.5.15.01
PREEvision application server	8.5.16

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

3.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

Model restore is only possible with a PREEvision version that has a metamodel change ID that is equal to or greater than the metamodel change ID of the PREEvision version with which the backup was performed.

The following table shows compatible client, server application, database server script, and metamodel versions for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version	Metamodel change ID
8.5.0	8.5.0	8.5.0.12	
8.5.1	8.5.1	8.5.1.04	
8.5.2	8.5.2	8.5.1.04	
8.5.3	8.5.3	8.5.1.04	
8.5.4	8.5.4	8.5.1.04	
8.5.5	8.5.5	8.5.1.04	
8.5.6	8.5.6	8.5.6.00	
8.5.7	8.5.7	8.5.6.00	
8.5.8	8.5.8	8.5.8.00	
8.5.9	8.5.9	8.5.8.00	
8.5.10	8.5.10	8.5.8.00	
8.5.11	8.5.11	8.5.11.01	2018-11-09
8.5.12	8.5.12	8.5.12.01	2018-11-09
8.5.13	8.5.13	8.5.13.05	2019-01-25
8.5.14	8.5.14	8.5.14.02	2019-03-26
8.5.15	8.5.15	8.5.15.01	2019-04-17
8.5.16	8.5.16	8.5.15.01	2019-04-17

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client

- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

3.3 Fixed issues

Fixed issues in PREEvision 8.5 SP16

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

ID	Resolution	Category
17938290927499223	The display behavior of context menu categories has been adjusted: <ul style="list-style-type: none"> > Previous categories are always displayed. > Subsequent categories are only displayed if they have content in the active context. 	Common
17938293004189223	AUTOSAR export: When exporting an ECU extract, communication artifacts of one Ethernet bus are now exported, depending on the relevant exporting <i>Vlans</i> . The ECU extract avoids exporting to many <i>PDU</i> s or socket connections, for example.	AUTOSAR
17938292759799167	The PDU length calculation has been fixed: The PDU length is calculated from all transformers mapped to a <i>Signal</i> , if the <i>Signal</i> has an <i>Operation</i> without <i>Operation Arguments</i> , or if it has no data type mapped at all, but a connection to a <i>SOME/IP Transformer</i> .	Communication
17938292753719167	The Service to AUTOSAR Classic Technology Mapping metric now creates <i>Operation Arguments</i> for getter and setter methods, like already implemented for usual methods.	Communication
17938292795849223	In the Property View of a <i>Communication Path</i> and <i>Communication Path Target</i> the Generic Communication property page now displays the <i>Network Endpoint</i> .	Communication
17938293100169308	The online check finding descriptions for Ethernet range checks are now properly displayed.	Communication
17938293112762758	The performance for an <i>Asset</i> update with latest version has been improved.	Product line approach

3.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

Invisible text while typing in a formatted text field (17938291247938454)

If the Windows settings for the size of text, apps and other items is set to greater than 100%, currently typed-in formatted text is not visible in formatted text fields. After leaving the focus of the formatted text field and clicking again into the formatted text field, the text is visible.

Workaround: In the Windows settings, set the size of text, apps and other items to 100%.

4 PREEvision 8.5 SP15

This chapter contains the following information:

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4.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.15
PREEvision license server	2.0.6
PREEvision database server	8.5.15.01
PREEvision application server	8.5.15

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

4.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

Model restore is only possible with a PREEvision version that has a metamodel change ID that is equal to or greater than the metamodel change ID of the PREEvision version with which the backup was performed.

The following table shows compatible client, server application, database server script, and metamodel versions for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version	Metamodel change ID
8.5.0	8.5.0	8.5.0.12	
8.5.1	8.5.1	8.5.1.04	
8.5.2	8.5.2	8.5.1.04	
8.5.3	8.5.3	8.5.1.04	
8.5.4	8.5.4	8.5.1.04	
8.5.5	8.5.5	8.5.1.04	
8.5.6	8.5.6	8.5.6.00	
8.5.7	8.5.7	8.5.6.00	
8.5.8	8.5.8	8.5.8.00	
8.5.9	8.5.9	8.5.8.00	
8.5.10	8.5.10	8.5.8.00	
8.5.11	8.5.11	8.5.11.01	2018-11-09
8.5.12	8.5.12	8.5.12.01	2018-11-09
8.5.13	8.5.13	8.5.13.05	2019-01-25
8.5.14	8.5.14	8.5.14.02	2019-03-26
8.5.15	8.5.15	8.5.15.01	2019-04-17

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script

- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

4.3 Fixed issues

Fixed issues in PREEvision 8.5 SP15

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

Further information

- > Common
- > Diagrams
- > Software architecture
- > Communication
- > Hardware architecture
- > Rules
- > Collaboration
- > Migration

4.3.1 Common

ID	Resolution	Category
17938292249989295	Menu IDs of menu items are now displayed correctly for filtering the context menu.	Common
17938292213829295	Unnecessary entries on the property page Mappings (Data Mappings) of a <i>Signal</i> have been removed. Additionally, a table column has been added to display the mapped <i>Data Element</i> .	Common

4.3.2 Diagrams

ID	Resolution	Category
17938291663319221	The performance for the Sort Children functionality has been improved.	Diagrams

4.3.3 Software architecture

ID	Resolution	Category
17938292531292676	The update of a prototype to a different type is possible if the prototype is reused and a port is deleted on updating to the new type.	Software architecture

4.3.4 Communication

ID	Resolution	Category
17938292519349221	The signal router considers all <i>Signal Transmissions</i> of a <i>Signal</i> for removing unused <i>Signal Transmissions</i> , not only for one routed bus.	Communication

ID	Resolution	Category
17938291885660455	A filter was added for the Synthesize Transport Layer for Cluster dialog, so that <i>Diagnostic Connections</i> are not shown anymore.	Communication
17938292566998157	Signal Router: The signal router does not create a socket address if an existing one can be used.	Communication
17938292305159223	In the Network Topology editor for the hardware definition in the SOA & Ethernet Explorer internal testers are not shown anymore.	Communication
17938292748169221	Frame PDU synthesis: <i>PDU Gateway Routing Entries</i> are created only if the <i>PDU</i> s are compatible. Compatible <i>PDU</i> s are detected by the following criteria: <ul style="list-style-type: none"> > Same <i>PDU</i> > Different <i>PDU</i> with same <i>Signals</i> at the same start position > Different <i>PDU</i> with less <i>Signals</i> on the receiving side of the <i>Gateway</i> 	Communication
17938292697139213	For the DBC export the handling of <i>INFINITY</i> values for <i>Application Float</i> types has been added.	Communication
17938292201672743	The highlighting of <i>Frames</i> and <i>Frame Transmissions</i> work properly now, like the highlighting for the corresponding <i>PDU</i> s.	Communication
17938292322109167	Predefined <i>Container IPDU</i> on <i>Ethernet Clusters</i> will be used in case of manual communication routing of non-Ethernet <i>PDU Transmissions</i> .	Communication
17938292290649245	During manual communication routing no new <i>Root Composition</i> is created if a corresponding workspace has already been set.	Communication

4.3.5 Hardware architecture

ID	Resolution	Category
17938292804298454	A wiring harness import with empty "Set Name" values in the part list table works like expected, now.	Hardware architecture

4.3.6 Rules

ID	Resolution	Category
17938291656078454	The consistency rules C2006a to C2006c were re-factored to not use a loop pattern anymore but a medela expression instead. By this change the performance is improved.	Rules

ID	Resolution	Category
17938292928279221	A display error in the E/E Model Online Check view has been fixed.	Rules

4.3.7 Collaboration

ID	Resolution	Category
17938292570980451	A commit is possible after changing a custom attribute value of a checked-in <i>Requirement</i> in case the <i>Requirement</i> is reused and the context freezing point (the <i>Product Line</i>) is checked-in.	Collaboration

4.3.8 Migration

ID	Resolution	Category
17938292530609822	Data is now consistent so that a backup does no longer fail.	Migration

4.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

Invisible text while typing in a formatted text field (17938291247938454)

If the Windows settings for the size of text, apps and other items is set to greater than 100%, currently typed-in formatted text is not visible in formatted text fields. After leaving the focus of the formatted text field and clicking again into the formatted text field, the text is visible.

Workaround: In the Windows settings, set the size of text, apps and other items to 100%.

5 PREEvision 8.5 SP14

This chapter contains the following information:

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5.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.14
PREEvision license server	2.0.6
PREEvision database server	8.5.14.02
PREEvision application server	8.5.14

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

5.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

Model restore is only possible with a PREEvision version that has a metamodel change ID that is equal to or greater than the metamodel change ID of the PREEvision version with which the backup was performed.

The following table shows compatible client, server application, database server script, and metamodel versions for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version	Metamodel change ID
8.5.0	8.5.0	8.5.0.12	
8.5.1	8.5.1	8.5.1.04	
8.5.2	8.5.2	8.5.1.04	
8.5.3	8.5.3	8.5.1.04	
8.5.4	8.5.4	8.5.1.04	
8.5.5	8.5.5	8.5.1.04	
8.5.6	8.5.6	8.5.6.00	
8.5.7	8.5.7	8.5.6.00	
8.5.8	8.5.8	8.5.8.00	
8.5.9	8.5.9	8.5.8.00	
8.5.10	8.5.10	8.5.8.00	
8.5.11	8.5.11	8.5.11.01	2018-11-09
8.5.12	8.5.12	8.5.12.01	2018-11-09
8.5.13	8.5.13	8.5.13.05	2019-01-25
8.5.14	8.5.14	8.5.14.02	2019-03-26

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

5.3 Fixed issues

Fixed issues in PREEvision 8.5 SP14

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

Further information

- > Tables
- > AUTOSAR
- > Software architecture
- > Communication
- > Hardware architecture
- > Product line approach
- > Rules
- > Administration

5.3.1 Tables

ID	Resolution	Category
17938291007202743	Tooltips for table columns will not be displayed on table editor tabs any more, but instead on the corresponding table columns.	Tables
17938292176409822	Explorers now consider changed input and are updated according to the new selection.	Tables
17938292210710000	Fixed invalid object exception when removing table columns via Add/Remove/Reorder Columns dialog.	Tables

5.3.2 AUTOSAR

ID	Resolution	Category
17938292290639245	AUTOSAR export: The ECU extract is working now, even if some <i>Frame Transmissions</i> are missing.	AUTOSAR

5.3.3 Software architecture

ID	Resolution	Category
17938292283839824	The update of a checked-in <i>Atomic SW Component Prototype</i> (in a checked-in structure) is working again if the new <i>SW Component Type</i> has been changed (for example gets a new <i>Port Type</i>).	Software architecture

5.3.4 Communication

ID	Resolution	Category
17938291605649822	The <i>Signal Definition Editor</i> now provides a Dereference button to dereference invalid values in the Invalid Value column.	Communication
17938292206782643	Dragging a <i>Signal Transmission</i> on one of its receiving <i>ECU Interfaces</i> now results in an error instead of generating duplicate SW components.	Communication
17938292135129167	During VLAN switch configuration update, the update switch configuration metric leads to only one <i>Coupling Port per Bus Connector</i> , now.	Communication
17938292168849167	If, during <i>Multicast Socket Address</i> assignment in the Service Discovery Subscription table, neither an <i>Ethernet ECU Interface</i> nor a multicast <i>ECU Interface</i> can be obtained via the <i>Consumed Event Group</i> and its <i>Consumed Service Instance</i> , then the selection of the <i>Multicast Socket Address</i> will be canceled with a corresponding message in the Information View .	Communication
17938292214479167	The display of "Setter" and "Getter" methods has been corrected in the Service Interface ID Editor .	Communication
17938292172979167	The service discovery metric has been fixed: An IP address is set for a unicast socket if not already set by the user.	Communication
17938292105569223	The Ethernet Explorer has been fixed: <i>Diagnostics Tester</i> will be displayed in addition to regular <i>ECUs</i> in all editors of the Ethernet Explorer .	Communication
17938292160129167	The default configuration of the SOME/IP method ID calculation metric can be overwritten by setting the <i>Parameter Block</i> "SomeIPDefault" to false. This will apply custom prefixes. These prefixes are configurable in the calculation metric.	Communication
17938292104269167	The names of all newly created <i>Port Types</i> , <i>Port Prototypes</i> and <i>Ports</i> will be set to the name of the <i>Service Interface</i> .	Communication
17938292172969167	The ANY socket addresses created by executing the service discovery metric have now automatically an <i>Application Endpoint</i> with <i>Udp Tp</i> as the TP configuration and the general defined port number.	Communication
17938292168819167	Multicast sockets are created with a null IP address instead of "ANY" in PREEvision 8.5.x. In PREEvision 9.0.x multicast sockets are still created with an "ANY" IP address.	Communication

ID	Resolution	Category
17938291881079223	Extension of Signal Router for Ethernet – <i>Socket Connect Bundles</i> will be cleaned up: <ul style="list-style-type: none"> <li data-bbox="703 338 1230 461">> all included <i>PDU-Transmissions</i> are collected (direct children of <i>Socket Connect Bundle</i> or from <i>Socket Connection (SC)</i>). <li data-bbox="703 472 1230 595">> sending and receiving <i>ECU Interfaces</i> on each <i>PDU Transmission</i> are updated according to collected contained <i>Signal Transmission</i>. <li data-bbox="703 607 1230 835">> for each included <i>Socket Connection (SC)</i> the following is done: <ul style="list-style-type: none"> <li data-bbox="751 674 1198 741">> if the SC has no client port the SC will be removed. <li data-bbox="751 752 1198 835">> if the client port has no receiving <i>ECU Interface</i> the SC will be removed. 	Communication
17938292110799167	The error for newly entered values, which were wrongly replaced by default values like "false", has been fixed for the Data Rate property page of an <i>Ethernet Controller Configuration</i> .	Communication
17938292306219129	The signal router checks for used <i>Signals</i> on <i>Sender Ports</i> only for relevant <i>Root Composition</i> instead of the overall model.	Communication
17938292316419129	For a proper signal routing, the refactoring "Assign System Signal and I-Signal" now assigns a <i>Signal/System Signal</i> to only one <i>Sender Port</i> of the <i>Software Component/Composition</i> which is mapped to a hardware component.	Communication
17938291663729167	The Remove unused Signal Transmissions... option of the signal router now also deletes all unused <i>Signal Transmissions</i> and <i>PDU Transmissions</i> for the affected <i>Bus Systems</i> .	Communication
17938291894289223	For manual communication routing, a new port has been added to the routing custom block "undoRoutingOnError" which controls whether the changes carried out by the router will be undone when an error occurs during routing.	Communication
17938292297649167	During manual communication routing the selected socket connections will always be used.	Communication
17938291864809245	Communication artifacts on source side are kept unchanged when using the manual communication routing (except needed changes like <i>Routing Entries</i> etc.).	Communication
17938291837579223	Changed naming of generated <i>PDU Transmissions</i> for functional request.	Communication

ID	Resolution	Category
17938292305119223	Generic <i>Communication Paths</i> are not shown in diagnostic communication infrastructure anymore.	Communication
17938292305169223	The <i>Communication Paths</i> table will now show all valid source and target artifacts.	Communication
17938292305179223	The <i>Generic Communication Overview</i> table now displays all values even if they occur multiple times.	Communication
17938292172909167	The synthesis metric Service to AUTOSAR Classic Technology mapping creates (or updates) <i>Data Elements</i> or <i>Triggers</i> with the same name like the <i>Events</i> or <i>Fire and Forget Methods</i> , without the naming suffix "DataElement" or "Trigger".	Communication
17938292155979223	The Ethernet explorer metric Create missing Ethernet communication cluster from category Hardware Definition has been changed. The metric no longer creates or updates <i>Ethernet ECU Interfaces</i> for <i>Vlans</i> and <i>ECUs</i> . Instead, the metric creates or updates one <i>Ethernet Controller Configuration per Bus Connector</i> and <i>Ethernet Communication Cluster</i> combination.	Communication
17938292297659245	A null pointer exception that appeared during manual communication routing in the Socket Adaptor Connection Communication Viewer when <i>System Signals</i> had no assigned mapping sources, has been fixed.	Communication
17938292231599245	The <i>Sent PDU Transmissions</i> table can be opened for several artifacts at once now via multi-selection.	Communication
17938292227699221	During a frame synthesis, <i>PDU Frame Assignments</i> without a mapped PDU are ignored and afterwards displayed in the Information View .	Communication
17938292160119005	Container PDU now considers <i>Conditions</i> even if no <i>Cluster</i> is assigned.	Communication
17938292109412743	Fixed assignment of same <i>Frame</i> with <i>Conditions</i> for multiple senders on the same <i>Bus System</i> .	Communication
17938292314239245	In the Ethernet Explorer and in the Property View , the value "not set" can be selected as Ethertype of a <i>Vlan</i> .	Communication
17938292203489167	The metric Service Discovery is now more customizable: The <i>Parameter Block</i> to find or create a valid multicast address has been replaced by a <i>Calculation Block</i> . If not changed by	Communication

ID	Resolution	Category
	customer, the default implementation of the <i>Calculation Block</i> behaves like the previously used <i>Parameter Block</i> solution.	
17938292518789167	In the SOA & Ethernet Explorer , the SOA to AUTOSAR Classic synthesis does not create duplicate ports and interfaces anymore.	Communication
17938292283392743	If <i>Conditions</i> are set on <i>Frames</i> , the frame synthesis considers the intended sending direction modeled by the <i>Conditions</i> .	Communication
17938291851739213	The missing <i>Signal</i> attribute fx:METHOD is now considered in FIBEX export for all cases.	Communication

5.3.5 Hardware architecture

ID	Resolution	Category
17938292040488454	Newly created artifacts (originated from a previous import, for example) which have a relative revision (-;R+1) can now be refactored.	Hardware architecture

5.3.6 Product line approach

ID	Resolution	Category
17938292214692758	Asset update with reused artifacts works correctly now.	Product line approach

5.3.7 Rules

ID	Resolution	Category
17938291521912743	Some German translations in the English PREEvision client have been fixed: For <i>RM Comment</i> the German "Beziehungen" have been fixed to "Relations" and "Konfigurationen" to "Configurations".	Rules

5.3.8 Administration

ID	Resolution	Category
17938292168689180	The deadlock while reading and removing update caches was prevented.	Administration
17938292302949005	A compilation error has been fixed by removing the call to a deleted method.	Administration

ID	Resolution	Category
17938292089329000	When deleting a custom attribute value in the Property View of a <i>Parameter</i> , the value "not set" is displayed instead of "0".	Administration

5.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

Invisible text while typing in a formatted text field (17938291247938454)

If the Windows settings for the size of text, apps and other items is set to greater than 100%, currently typed-in formatted text is not visible in formatted text fields. After leaving the focus of the formatted text field and clicking again into the formatted text field, the text is visible.

Workaround: In the Windows settings, set the size of text, apps and other items to 100%.

6 PREEvision 8.5 SP13

This chapter contains the following information:

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	Logical function architecture	51
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	Software architecture	53
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	Product line approach	56
	Functional safety	56
	Change and release management	57
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	Collaboration	57
6.4	Known issues	58

6.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.13
PREEvision license server	2.0.6
PREEvision database server	8.5.13.05
PREEvision application server	8.5.13

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

6.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

Model restore is only possible with a PREEvision version that has a metamodel change ID that is equal to or greater than the metamodel change ID of the PREEvision version with which the backup was performed.

The following table shows compatible client, server application, database server script, and metamodel versions for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version	Metamodel change ID
8.5.0	8.5.0	8.5.0.12	
8.5.1	8.5.1	8.5.1.04	
8.5.2	8.5.2	8.5.1.04	
8.5.3	8.5.3	8.5.1.04	
8.5.4	8.5.4	8.5.1.04	
8.5.5	8.5.5	8.5.1.04	
8.5.6	8.5.6	8.5.6.00	
8.5.7	8.5.7	8.5.6.00	
8.5.8	8.5.8	8.5.8.00	
8.5.9	8.5.9	8.5.8.00	
8.5.10	8.5.10	8.5.8.00	
8.5.11	8.5.11	8.5.11.01	2018-11-09
8.5.12	8.5.12	8.5.12.01	2018-11-09
8.5.13	8.5.13	8.5.13.05	2019-01-25

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

6.3 Fixed issues

Fixed issues in PREEvision 8.5 SP13

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

Further information

- > Diagrams
- > Tables
- > Logical function architecture
- > AUTOSAR
- > Software architecture
- > Communication
- > Hardware architecture
- > Product line approach
- > Functional safety
- > Change and release management
- > Rules
- > Metrics
- > Collaboration

6.3.1 Diagrams

ID	Resolution	Category
17938291096739296	Pressing <F5> on a diagram does not update the diagrams last modification time, if changes are within the <i>Title Block</i> .	Diagrams
17938291645289051	When using images for connectors, the images are automatically placed at the center of the connector and rotate correctly now in the diagram.	Diagrams

6.3.2 Tables

ID	Resolution	Category
17938291603469822	Undo and redo buttons for explorers are working properly now.	Tables
17938291885662743	If a model operation is canceled in a table, the table now refreshes automatically.	Tables

6.3.3 Logical function architecture

ID	Resolution	Category
17938292092672695	Logical architecture to hardware mappings are properly created in the corresponding <i>LA-NET: Mappings</i> package available in the currently active scope.	Logical function architecture

6.3.4 AUTOSAR

ID	Resolution	Category
17938291622380451	AUTOSAR export: Nested <i>Parameters</i> are not impeding the AUTOSAR export anymore.	AUTOSAR
17938291843679167	AUTOSAR export: The <i>End to End Transformer</i> chain is exported correctly now.	AUTOSAR
17938291877769129	AUTOSAR export: Temporary model manipulations for preparing value specifications in the EEA model will now be executed without error in case of an active <i>Scope</i> .	AUTOSAR
17938291918930455	AUTOSAR export: The export does not fail anymore in case more than one reuse of a <i>Constant Specification</i> are used in the scope of an <i>ECU</i> .	AUTOSAR
17938291513549297	AUTOSAR export: During ECU extract, delegation ports for ports with the same port type name are not merged any more. Instead, two different delegation ports are created, now.	AUTOSAR
17938292052549102	AUTOSAR export: The default value "false" is now exported for the ECU attributes <code>sleepModeSupported</code> and <code>wakeUpOverBusSupported</code> .	AUTOSAR
17938291671610455	AUTOSAR export: The duplicate exception during the export of an ECU system extract has been fixed.	AUTOSAR
17938292132252676	AUTOSAR export: For a physical response <i>CAN Tp Connection</i> the TA Type attribute is correctly set to "Physical" or "Physical CAN FD".	AUTOSAR
17938291868009129	AUTOSAR export: The conflicts caused by multiple <code>SystemInformations</code> have been solved. The export of the system description works again.	AUTOSAR
17938292093999129	AUTOSAR export: Physical values are now always exported in the same order like modeled in the EEA model.	AUTOSAR
17938291659519295	AUTOSAR export: Hidden artifacts are now correctly considered for the AUTOSAR export even if a variant sensitive export is executed.	AUTOSAR

6.3.5 Software architecture

ID	Resolution	Category
17938291521730451	The consistency check for types, prototypes, and instances of an <i>Atomic SW Component</i> is not performed on artifacts which are out of scope.	Software architecture
17938292110599824	Updating a <i>Software Component Prototype</i> with values of the corresponding type via version history is now possible even if the type's parent is checked in.	Software architecture

6.3.6 Communication

ID	Resolution	Category
17938291519567721	FIBEX export: Fixed the linear conversion denominator to be correctly set to 1.	Communication
17938291642342643	In the <i>ECU-Interfaces Table</i> , the drag and drop menu action Create Signaltransmissions was renamed into Create Transmissions . The drag and drop menu appears when moving a PDU artifact from the Model View on an <i>ECU Interface</i> in the table.	Communication
17938291645249213	FIBEX export: Resolved problem with calculating the start position of a <i>Signal-IPDU-Assignment</i> after FIBEX export.	Communication
17938291661209167	In the <i>Diagnostics Communication Explorer</i> , the table is refreshed after creating the <i>Diagnostics Communication Infrastructure</i> .	Communication
17938291665869223	A naming convention for <i>Network Endpoints</i> has been added to adjust their name according to their <i>Ethernet ECU Interface</i> .	Communication
17938291864569223	After the Create Service Discovery metric is executed, the Service Discovery table is automatically updated.	Communication
17938291891770455	The <i>Bus Type</i> is considered for correct technology selection of the synthesis.	Communication
17938291891922645	All tables of the SOA & Ethernet Explorer have been changed to show detailed electric electronic (without star coupler) instead of <i>ECUs</i> . The following tables have been changed: <ul style="list-style-type: none"> > Service ECU Deployment Editor > Service Socket Deployment Editor > ECU Definition > Ethernet Cluster Configuration > VLAN-ECU Allocation > Socket Adapter Connection Communication Viewer 	Communication

ID	Resolution	Category
	<ul style="list-style-type: none"> > Socket Adapter Bundle Communication Viewer > Data Transformation Viewer > Service Discovery > Service Discovery Editor <p>The metric Create Service Discovery Announcement has been updated to support detailed electric electronic.</p>	
17938291225568157	The signal router does not change routed signals when an ECU that is connected to an Ethernet network is working as gateway.	Communication
17938291530849295	The signal router correctly handles <i>Triggers</i> as <i>Fire and Forget Method</i> .	Communication
17938291644082645	In the <code>SignalRouter_DefaultEthernetRouterConfig.properties</code> configuration file, upper limit settings have been adapted for using the Brute Force-algorithm.	Communication
17938291938219297	Signal router: An additional warning is output for an error in the signal router graph which is caused by an Ethernet point-to-point connection. The routing result is not influenced and routing remains possible, even if a point-to-point connection exists somewhere in the model.	Communication
17938291926319223	During Ethernet signal routing with active variant the signal router ignores the varianting to consider mappings between <i>Signals</i> and <i>Data Elements</i> .	Communication
17938291609429245	The update use case for SOA communication creates the correct amount of <i>Signals</i> and <i>Signal Transmissions</i> including their data mappings and transmittable signal relation.	Communication
17938291838050455	Diagnostics communication infrastructure synthesis sets mandatory settings for <i>CAN TP Connection</i> .	Communication
17938291838070455	Diagnostics communication infrastructure synthesis sets a flow control <i>N PDU</i> for <i>CAN Tp Connections</i> for physical request and response.	Communication
17938291838040455	<p>Diagnostics communication infrastructure synthesis creates <i>CAN Tp Channels</i> under <i>CAN Tp Configuration</i> in the following way:</p> <ul style="list-style-type: none"> > creating one <i>CAN Tp Channel</i> for all physical request and response <i>CAN Tp Connections</i> > creating one <i>CAN Tp Channel</i> for all functional request and response <i>CAN Tp Connections</i> > setting the Channel Mode 	Communication

ID	Resolution	Category
	<ul style="list-style-type: none"> > setting the Channel ID (unique within the <i>Product Line</i>) > adding a <i>CAN Tp Connection</i> to a <i>CAN Tp Channel</i> 	
17938292052459005	During Frame-PDU synthesis an error is output in the Information View if no clusters for <i>Container IPDUs</i> are specified.	Communication
17938292109392743	During Frame-PDU synthesis two <i>PDU</i> s are consolidated when the contained <i>Signal Transmissions</i> are a subset and when the sending and receiving <i>ECU Interfaces</i> are identical and the <i>PDU</i> s have the same type.	Communication
17938291605649822	The <i>Signal Definition Editor</i> now provides a Dereference button to dereference invalid values in the Invalid Value column.	Communication

6.3.7 Hardware architecture

ID	Resolution	Category
17938291007212743	In the <i>Network Diagram</i> , the highlighting for <i>PDU/PDU Transmission</i> shows the complete routing path.	Hardware architecture
17938291646932743	In the <i>Network Diagram</i> , the highlighting for <i>Frames</i> with multiple senders works properly now.	Hardware architecture
17938291030898157	The wiring harness router connects no longer wires to the wrong side of the inline connector. If a <i>Topology Inline Connector</i> has more than two segments, the wiring harness router may cause unintended routing results. Add a null-segment with a <i>Branch-Off</i> to an inline connector on that side with multiple segments as a workaround.	Hardware architecture
17938291031382709	KBL export: The value of a <i>Core</i> or <i>Shielding</i> will be exported to KBL into the attribute <wire_number> of a <i>CoreOccurrence</i> .	Hardware architecture
17938291054339822	When filtering out the <i>Active Star</i> in the Model View , the context menu is adjusted as well. This means the context menu option New Stars Switch is also filtered out.	Hardware architecture
17938291645122709	<p>The total length of a cable will now be calculated correctly according to the following methods:</p> <ul style="list-style-type: none"> > All cores routed together PLUS > Longest core on the left side PLUS > Longest core on the right side EQUALS 	Hardware architecture

ID	Resolution	Category
	> Total length of the cable (KBL.General_wire_occurrence.Length_value)	
17938291646632709	While exporting accessories to KBL, the value of the generic attribute defines if multiple <code>Accessory_occurrences</code> will be merged. To create separate <code>Accessory_occurrences</code> the generic attribute value must be different. Each occurrence will be referenced in KBL at the attribute <code>Referenced_element</code> of a node. Multiple empty values are considered as one <code>Accessory_occurrence</code> and will be merged.	Hardware architecture
17938291932009012	The palette of the <i>Wiring Diagram</i> does not miss hardware device categories anymore.	Hardware architecture
17938291620818157	The electric circuit synthesis is now assigning <i>Schematic Pins</i> of <i>Splices</i> to newly created <i>Wires</i> when a variant is active.	Hardware architecture
17938291838198157	Wiring harness router: In some cases, the <i>Cores</i> of different <i>Cables</i> are mixed with different <i>Schematic Pins</i> of an <i>Inline Connector</i> . Therefore, the <i>Cables</i> were not routed in a correct way. To fix this a <i>Cable consolidation</i> before routing was added.	Hardware architecture
17938289576169012	When adding an <i>Inline Connector</i> to a <i>Wiring Diagram</i> , the positioning of labels for <i>Wire Pins</i> now works properly. There is no need of a manual reset any more.	Hardware architecture

6.3.8 Product line approach

ID	Resolution	Category
17938291049349258	Type change refactorings now check the selected artifacts for invisible reuses. If invisible reuses exist, the operation is not permitted.	Product line approach

6.3.9 Functional safety

ID	Resolution	Category
17938292045110451	<i>HAZOP Editor</i> : The HAZOP categories are now sorted alphabetically like in the Model View .	Functional safety

6.3.10 Change and release management

ID	Resolution	Category
17938291550002647	If an additional icon is configured for <i>Tickets</i> to display a specific property which is set, the icon switches automatically when activating or deactivating this property in the Property View .	Change and release management

6.3.11 Rules

ID	Resolution	Category
17938291910418454	In the <i>Rule Diagram</i> , the error-label because of unknown label-ID was removed.	Rules

6.3.12 Metrics

ID	Resolution	Category
17938291007252743	Fixed broken variants after removing and changing the active variant within a metric.	Metrics
17938292102532709	The <i>Diagram Render</i> custom block no longer ignores passed output parameters when executed via metric automation framework (ANT).	Metrics

6.3.13 Collaboration

ID	Resolution	Category
17938291669942709	When working with a full scope, the "Artifacts loaded" counter in the status bar shows 100 %.	Collaboration
17938291930439296	Adding artifacts to the <i>Scope</i> temporarily is working again.	Collaboration
17938289482822644	When a <i>Source Code</i> is already locked no further shared lock is requested.	Collaboration
17938292109999823 17938292080659180	Relations between uncommitted artifacts no longer get lost under specific circumstances (after client crash, or if the client is terminated via the task manager).	Collaboration
17938291044269005	Model changes like, for example, deleting or moving artifacts, are possible in file-based operation mode, independent of the check-in or check-out state of an artifact.	Collaboration
17938291245768454	Synchronization problem when closing data connection has been fixed.	Collaboration

6.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

Invisible text while typing in a formatted text field (17938291247938454)

If the Windows settings for the size of text, apps and other items is set to greater than 100%, currently typed-in formatted text is not visible in formatted text fields. After leaving the focus of the formatted text field and clicking again into the formatted text field, the text is visible.

Workaround: In the Windows settings, set the size of text, apps and other items to 100%.

7 PREEvision 8.5 SP12

This chapter contains the following information:

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7.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.12
PREEvision license server	2.0.6
PREEvision database server	8.5.12.01
PREEvision application server	8.5.12

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

7.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

Model restore is only possible with a PREEvision version that has a metamodel change ID that is equal to or greater than the metamodel change ID of the PREEvision version with which the backup was performed.

The following table shows compatible client, server application, database server script, and metamodel versions for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version	Metamodel change ID
8.5.0	8.5.0	8.5.0.12	
8.5.1	8.5.1	8.5.1.04	
8.5.2	8.5.2	8.5.1.04	
8.5.3	8.5.3	8.5.1.04	
8.5.4	8.5.4	8.5.1.04	
8.5.5	8.5.5	8.5.1.04	
8.5.6	8.5.6	8.5.6.00	
8.5.7	8.5.7	8.5.6.00	
8.5.8	8.5.8	8.5.8.00	
8.5.9	8.5.9	8.5.8.00	
8.5.10	8.5.10	8.5.8.00	
8.5.11	8.5.11	8.5.11.01	2018-11-09
8.5.12	8.5.12	8.5.12.01	2018-11-09

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

7.3 Fixed issues

Fixed issues in PREEvision 8.5 SP12

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

Further information

- > Common
- > Tables
- > Communication
- > Functional safety
- > Metrics
- > License

7.3.1 Common

ID	Resolution	Category
17938291602659245	The performance of the EEA model import has been improved.	Common
17938291633502758	Errors that occurred while closing the model have been fixed. The caches for temporary not writeable attributes is cleaned up, when removing an attribute from its list.	Common

7.3.2 Tables

ID	Resolution	Category
17938291515339012	Within the explorer, it is now possible to pin table editors.	Tables
17938291246089822	In explorers, the action changing the selection in a drop-down list now works in navigation mode.	Tables
17938291603469822	The undo/redo actions are available for editors that are displayed in the portlet view.	Tables
17938291065849012	It is not possible to change attribute values in tables via double click when table is in navigation mode.	Tables

7.3.3 Communication

ID	Resolution	Category
17938291655959245	The signal router creates no instance if no service is defined for both software components.	Communication
17938291661189167	Existing <i>VLAN Memberships</i> are not modified by the signal router.	Communication

ID	Resolution	Category
17938289452879822	The signal router removes port mappings according reuse analysis that have no mapped ports or ports not connected to any assemblies.	Communication
17938291624952743	The signal router correctly handles bidirectional transmissions of the same signal with conditions.	Communication
17938291625872743	The results of the frame synthesis are the same independent of whether the frame synthesis is started from the Model View or the diagram. Selected packages containing usable frames are added to the frame synthesis.	Communication
17938291098709822	The <i>CAN Bus Editor</i> shows <i>Signal Transmissions</i> of a <i>Frame Transmission</i> defined by a <i>Secured IPDU</i> .	Communication
17938291639850455	In the <i>Ethernet and Service Oriented Explorer</i> , the metric "Create Missing Ethernet Cluster" creates <i>ECU Interfaces</i> for <i>Bus Connectors</i> in the <i>Ethernet Cluster</i> , but only if the parent of the <i>Bus Connector</i> is not an <i>Active Star</i> (switch).	Communication
17938291636192742	In the <i>Ethernet and Service Oriented Explorer</i> , the "Service to AUTOSAR Classic Technology mapping" updates operation arguments only if their names, direction or application type are changed.	Communication
17938291661210455	In the <i>Ethernet and Service Oriented Explorer</i> , if using IPv4, the given static multicast address is used, but the third field is calculated. The address field is calculated from the VLAN identifier divided by 10 (without rest).	Communication
17938291661219167	In the <i>Ethernet and Service Oriented Explorer</i> , the <i>ECU Definition</i> table shows only <i>ECUs</i> in the ECU column.	Communication
17938291661229167	In the <i>Ethernet and Service Oriented Explorer</i> , the <i>Service Discovery</i> table no longer shows multiple entries for the same <i>ECU</i> . Additionally, the multicast address is shown in the Socket Address column.	Communication
17938291661239167	In the <i>Ethernet and Service Oriented Explorer</i> , the <i>Service Discovery</i> table shows the name of the IP configuration if the IP address is empty.	Communication
17938291661280455	In the <i>Ethernet and Service Oriented Explorer</i> , the "Create Service Discovery" action creates <i>General Purpose PDUs</i> with the name of the VLAN as suffix.	Communication

ID	Resolution	Category
17938291663849245	In the <i>Ethernet and Service Oriented Explorer</i> , the <i>Service Discovery</i> table provides two new columns showing the CSI properties Initial Repetitions Base Delay and Initial Repetitions Max .	Communication
17938291605579295	In the <i>Ethernet and Service Oriented Explorer</i> , the <i>Socket Adaptor Connection Communication Viewer</i> displays contents again.	Communication
17938291609109245	In the <i>Ethernet and Service Oriented Explorer</i> , the "Update Switch Configuration from Switch hardware definition" has been corrected.	Communication
17938291625799047	The <i>DUT - Tester Assignment</i> table correctly shows contents in case that the diagnostic path has the same <i>ECU</i> as gateway and DUT.	Communication
17938291625809047	In the <i>Tester - DUT Paths</i> table, DoIP connections are correctly found when an <i>ECU</i> is both a DUT and a DoIP gateway.	Communication
17938291659809245	The configuration of the manual communication routing is now part of the factory reset.	Communication

7.3.4 Functional safety

ID	Resolution	Category
17938291010849254	In the <i>HSI Specification Editor</i> , new <i>SW-HW: Interface Mappings</i> can be created via toolbar button. The toolbar button displays a specific icon for better identification of the action.	Functional safety

7.3.5 Metrics

ID	Resolution	Category
17938291607252709	The metric method <code>getLongLink</code> works again.	Metrics
17938291327769822	Life cycle transition constraints are considered if a check-out is performed via metric.	Metrics

7.3.6 License

ID	Resolution	Category
17938291539329279	Filtering <i>Model Query</i> results works correctly when using a viewer license.	License

7.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

Invisible text while typing in a formatted text field (17938291247938454)

If the Windows settings for the size of text, apps and other items is set to greater than 100%, currently typed-in formatted text is not visible in formatted text fields. After leaving the focus of the formatted text field and clicking again into the formatted text field, the text is visible.

Workaround: In the Windows settings, set the size of text, apps and other items to 100%.

8 PREEvision 8.5 SP11

This chapter contains the following information:

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8.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.11
PREEvision license server	2.0.6
PREEvision database server	8.5.11.01
PREEvision application server	8.5.11

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

8.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

Model restore is only possible with a PREEvision version that has a metamodel change ID that is equal to or greater than the metamodel change ID of the PREEvision version with which the backup was performed.

The following table shows compatible client, server application, database server script, and metamodel versions for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version	Metamodel change ID
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8.5.1	8.5.1	8.5.1.04	
8.5.2	8.5.2	8.5.1.04	
8.5.3	8.5.3	8.5.1.04	
8.5.4	8.5.4	8.5.1.04	
8.5.5	8.5.5	8.5.1.04	
8.5.6	8.5.6	8.5.6.00	
8.5.7	8.5.7	8.5.6.00	
8.5.8	8.5.8	8.5.8.00	
8.5.9	8.5.9	8.5.8.00	
8.5.10	8.5.10	8.5.8.00	
8.5.11	8.5.11	8.5.11.01	2018-11-09

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

8.3 Fixed issues

Fixed issues in PREEvision 8.5 SP11

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

Further information

- > Common
- > Diagrams
- > Tables
- > Requirements
- > Logical architecture
- > Software architecture
- > AUTOSAR
- > Communication
- > Hardware architecture
- > Product line approach
- > Rules
- > Metrics
- > Collaboration

8.3.1 Common

ID	Resolution	Category
17938287380110451, 17938288635477721, 17938291032369822	Default values are supported for attributes of type enumeration and can be configured in the <i>Default Value Definition</i> .	Common
17938291009489279	The Artifact Picker is cleared when switching to another perspective.	Common
17938291093049822	After creating a new artifact in the Model View , the rename mode is active. The rename mode stays active until the next user operation, for example pressing the <ENTER> key or clicking somewhere else.	Common
17938291065809822	Performance has been improved for working with the Property View and displaying many custom attributes.	Common

8.3.2 Diagrams

ID	Resolution	Category
17938291246109296	Open With <diagram> is available again for artifacts of the software architecture.	Diagrams

8.3.3 Tables

ID	Resolution	Category
17938289990959213	The relation between the template table and the explorer category is no longer moved to the new table instance if the table is created as standalone table in the model.	Tables
17938291020879822	The Property View no longer freezes when using an explorer inside a portlet view.	Tables
17938291096609822	The localized name of an explorer is now displayed in portlet views.	Tables
17938291072392645	Drop-down list in tables are no longer drawn outside the PREEvision window.	Tables

8.3.4 Requirements

ID	Resolution	Category
17938291060269129	Formatted texts with captions for tables/pictures can be opened again.	Requirements
17938291563749104	The ReqIF version is correctly checked in the schema validation. ReqIF export: The value of the attribute reqIFVersion is 1.0. ReqIF import: The import is prevented from version 1.2.	Requirements
17938291563809104	ReqIF import: The recycle bin works for deleted artifacts in the ReqIF file.	Requirements

8.3.5 Logical architecture

ID	Resolution	Category
17938289992388454	Moving multiple selected blocks in the <i>Logical Architecture System Diagram</i> works correctly.	Logical architecture

8.3.6 Software architecture

ID	Resolution	Category
17938291541458157	A stack overflow exception that occurred in the software diagram has been fixed.	Software architecture

8.3.7 AUTOSAR

ID	Resolution	Category
17938289985959129	AUTOSAR export with an active scope: Exporting an <i>ECU</i> which is indirectly mapped to a <i>Root Composition</i> not	AUTOSAR

ID	Resolution	Category
	associating a <i>System Information</i> no longer causes the export to fail and the <i>Composition Type</i> to be missing.	
17938291009379167	AUTOSAR export: The AUTOSAR export metric blocks consider the variant.	AUTOSAR
17938291077939167	AUTOSAR export: Internal to physical or physical to internal conversions are exported independently of the set attribute values for Offset/Factor/Min/Max .	AUTOSAR
17938291501978157	AUTOSAR export: For the export of an ECU extract, checks are added for the <i>VLAN Membership</i> , so that the export continues although the model is incomplete.	AUTOSAR
17938289957439213	AUTOSAR export: Connections between previously indirectly connected <i>Atomic SW Components</i> are properly exported by the ECU extract.	AUTOSAR
17938291004639129	AUTOSAR export: The dynamic part of a multiplexed IPDU is correctly exported.	AUTOSAR
17938291030349129	AUTOSAR export: <i>Constant References</i> and the referenced constants are now exported.	AUTOSAR
17938291061038157	AUTOSAR export: A null pointer exception that occurred during export of a system description has been fixed. In case of modeling issues, a warning is reported in the Information View .	AUTOSAR
17938291009400451	AUTOSAR export: The AUTOSAR export only considers artifacts within the currently active scope.	AUTOSAR
17938291563802791	AUTOSAR export: <i>Port Interface Mappings</i> are exported including the text table mapping and its attributes.	AUTOSAR
17938291076739129	Property pages for <i>Data Interface Mapping</i> and <i>Data Interface Sub Mapping</i> are restructured and corrected.	AUTOSAR
17938291539899102	AUTOSAR ECU extract: Ports of mapped <i>Atomic SW Components</i> that are already delegated correctly to ports of the <i>Root Composition</i> remain delegated after executing the SW flattening.	AUTOSAR
17938291245879213	AUTOSAR ECU extract: Min, Max, Lower Limit Type and Upper Limit Type are now exported correctly for supported Conversions according to the selected AUTOSAR version independently of the values of other unrelated attributes e.g. Factor or Offset .	AUTOSAR

8.3.8 Communication

ID	Resolution	Category
17938291248309822	Performance of model operations has been improved in case that the Frame Layout View is open.	Communication
17938291093299822	In the <i>Signal Definition Editor</i> , the metric has been adjusted to also consider <i>Data Type Packages</i> under the <i>System Software Architecture</i> .	Communication
17938291101919822	Within the <i>Receiver Port Viewer</i> and the <i>Sender Port Viewer</i> , an interface can be assigned to a sender/receiver port via drop-down list.	Communication
17938289677572758	For the same signal, the same default values are shown for Factor and Offset .	Communication
17938291009379295	The Property View now displays a drop-down list for the Priority of a <i>VLAN Membership</i> .	Communication
17938291057729167	The signal router does not create unnecessary <i>Event Handler</i> and <i>Consumed Event Groups</i> anymore. <i>Event Handler</i> and <i>Consumed Event Groups</i> are created by the <i>Service Discovery Editor</i> , instead.	Communication
17938291220778157	The signal router ignores <i>Switches</i> during loop detection, since it is possible to establish a connection on the same switch with incoming VLAN x and outgoing VLAN y.	Communication
17938291245888157	The signal router checks if the client socket address on the socket connection is correctly set to prevent a null pointer exception.	Communication
17938291247969167	The signal router uses socket addresses assigned to service instances, if none is found, it checks for others.	Communication
17938291253239254	The signal router works with an activated variant.	Communication
17938291328429245	The signal router does not create additional PDUs in update cases for Ethernet buses but uses the existing ones, instead.	Communication
17938291247959822	The behavior of the frame synthesis has been unified for use cases with multiple senders so that the update functionality works in a similar way to new creation.	Communication
17938291064942743	The frame synthesis considers conditions when assigning <i>ECU Interfaces</i> and gateway routing entries.	Communication
17938291603312743	The frame synthesis correctly creates routing entries for compatible secured PDUs.	Communication

ID	Resolution	Category
17938291072382645	Multicast support on Ethernet: Multicast addresses are shown in the correct rows in the <i>Service Discovery Subscription Table</i> .	Communication
17938291328559254	On a <i>Data Type Mappings Package</i> , <i>Mode Request Implementation Type Mappings</i> can be created via the New context menu.	Communication
17938291525229167	In the <i>Ethernet and Service Oriented Explorer</i> , the Create Service Discovery action correctly creates <i>Socket Addresses</i> .	Communication
17938291525749167	In the <i>Ethernet and Service Oriented Explorer</i> , socket address routing groups for methods are not created for service interfaces without any method.	Communication
17938291530799167	In the <i>Ethernet and Service Oriented Explorer</i> , the action Service to AUTOSAR Classic Mapping does not create new interfaces but uses existing interfaces.	Communication
17938289465389167	A consistency check is available to check if an Ethernet ECU has no <i>Ethernet Controller Configuration</i> .	Communication
17938289528229167	A naming convention is available for <i>Provided Service Instance</i> which takes over the Service Identifier attribute of the specifying <i>Service</i> . The naming convention can be executed via context menu.	Communication
17938291530559167	In the <i>Service Interface Editor</i> , implementation operations are no longer displayed.	Communication
17938291607469245	In the <i>Socket Adaptor Connection Viewer</i> , Fire and Forget Methods are supported. They are handled like methods.	Communication

8.3.9 Hardware architecture

ID	Resolution	Category
17938290980699012	<i>Sheet Connectors</i> do not support additionally added label graph nodes. This may cause errors while opening diagrams.	Hardware architecture
17938291043488157	In case artifacts have more than one topology location, the wiring harness router may mix wires between different cables.	Hardware architecture
17938291007212743	In the Network Diagram, the highlighting for <i>PDU/PDU Transmission</i> shows the complete routing path.	Hardware architecture

8.3.10 Product line approach

ID	Resolution	Category
17938287807797721	In the VM Template View , filters are cleared when switching the representation of the view from tree mode to list view.	Product line approach
17938291043872758	The table in the VM Template View sorts the artifacts according to their displayed label.	Product line approach
17938291074790455	Automatic check-out is used during update of an <i>Asset</i> , instead of canceling the update if the parent is checked-in.	Product line approach
17938291093069822	Boundary artifacts are hidden in the Select or Create SW Type dialog.	Product line approach
17938291065752820	A checked-in <i>ECU</i> is not checked out during reuse, if the <i>Diagram Configuration</i> has changed.	Product line approach
17938291095330455	The performance of the <i>Asset</i> update has been improved.	Product line approach
17938291563680455	The default special paste action Reuse without external relations for an <i>Asset</i> creates core and boundary artifacts for the reused <i>Asset</i> .	Product line approach

8.3.11 Rules

ID	Resolution	Category
17938291513549822	When executing consistency checks on a multi-selection of artifacts, the Inconsistencies view shows one combined result as if a package is selected.	Rules
17938289940542709	Performance has been improved when executing a consistency check for multiple selected artifacts.	Rules
17938291002698454	After executing a consistency check and selecting an entry in the Inconsistencies view, the Consistency Check perspective shows the rule information and preview in the Consistency Rule View .	Rules

8.3.12 Metrics

ID	Resolution	Category
1793494512793, 17938291093039822	<i>Metric Executors</i> are displayed in the context menu according to their defined Show Order .	Metrics
17938291524789295	Changing a <i>Metric Diagram</i> containing <i>Topology Segments</i> assigned to a <i>Metric Context Block</i> no longer causes a lost and found error.	Metrics

8.3.13 Collaboration

ID	Resolution	Category
17938290958002647	If an artifact structure is explicitly locked and some artifacts cannot be locked because they are already locked by another user, a warning dialog is displayed. Additionally, the artifacts that cannot be locked are posted in the Information View . Clicking on the artifact in the Information View , selects the artifact in the Model View .	Collaboration
17938291010598157	Update to latest revision works correctly.	Collaboration
17938291060640451	Handling of parallel transactions has been improved.	Collaboration
17938291101618157	Update of the version info caches on server startup do not overwrite existing valid information anymore.	Collaboration
17938289380419224	File artifacts to be committed are validated correctly.	Collaboration
17938290985759051	Access rights are correctly considered for scope roots. For evaluating access rights, the scope is disabled.	Collaboration
17938291065509129	In case that PREEvision was not closed correctly, local model changes can later be committed.	Collaboration
17938291040599106	An error message is displayed if the SSL connection is lost.	Collaboration

8.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

Invisible text while typing in a formatted text field (17938291247938454)

If the Windows settings for the size of text, apps and other items is set to greater than 100%, currently typed-in formatted text is not visible in formatted text fields. After leaving the focus of the formatted text field and clicking again into the formatted text field, the text is visible.

Workaround: In the Windows settings, set the size of text, apps and other items to 100%.

9 PREEvision 8.5 SP10

This chapter contains the following information:

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9.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.10
PREEvision license server	2.0.6
PREEvision database server	8.5.8.00
PREEvision application server	8.5.10

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

9.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

The following table shows compatible client, server application and database server script version for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version
8.5.0	8.5.0	8.5.0.12
8.5.1	8.5.1	8.5.1.04
8.5.2	8.5.2	8.5.1.04
8.5.3	8.5.3	8.5.1.04
8.5.4	8.5.4	8.5.1.04
8.5.5	8.5.5	8.5.1.04
8.5.6	8.5.6	8.5.6.00
8.5.7	8.5.7	8.5.6.00
8.5.8	8.5.8	8.5.8.00
8.5.9	8.5.9	8.5.8.00
8.5.10	8.5.10	8.5.8.00

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

9.3 Fixed issues

Fixed issues in PREEvision 8.5 SP10

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

ID	Resolution	Category
17938291061038157	AUTOSAR export: A null pointer exception that occurred during export of a system description has been fixed. In case of modeling issues, a warning is reported in the Information View .	AUTOSAR
17938289957439213	AUTOSAR export: Connections between previously indirectly connected atomic software components are exported correctly in the ECU extract.	AUTOSAR
17938289528229167	A naming convention is available for <i>Provided Service Instance</i> and <i>Consumed Service Instance</i> which takes over the Service ID attribute of the <i>Service Interface</i> . The naming convention can be executed via context menu.	Communication
17938291101919822	Within the <i>Receiver Port Viewer</i> and the <i>Sender Port Viewer</i> , an interface can be assigned to a sender/receiver port via drop-down list.	Communication
17938291220778157	The signal router ignores <i>Switches</i> during loop detection, since it is possible to establish a connection on the same switch with incoming VLAN x and outgoing VLAN y.	Communication
17938291245888157	The signal router checks if the client socket address on the socket connection is correctly set to prevent a null pointer exception.	Communication

9.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

10 PREEvision 8.5 SP9

This chapter contains the following information:

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10.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.9
PREEvision license server	2.0.6
PREEvision database server	8.5.8.00
PREEvision application server	8.5.9

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

10.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

The following table shows compatible client, server application and database server script version for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version
8.5.0	8.5.0	8.5.0.12
8.5.1	8.5.1	8.5.1.04
8.5.2	8.5.2	8.5.1.04
8.5.3	8.5.3	8.5.1.04
8.5.4	8.5.4	8.5.1.04
8.5.5	8.5.5	8.5.1.04
8.5.6	8.5.6	8.5.6.00
8.5.7	8.5.7	8.5.6.00
8.5.8	8.5.8	8.5.8.00
8.5.9	8.5.9	8.5.8.00

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

10.3 Fixed issues

Fixed issues in PREEvision 8.5 SP9

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

Further information

- > Common
- > Diagrams
- > Tables
- > Requirements
- > Logical architecture
- > AUTOSAR
- > Communication
- > Hardware architecture
- > Geometry
- > Product line approach
- > Metrics
- > Reports
- > Collaboration
- > Administration

10.3.1 Common

ID	Resolution	Category
17938289582429167	When editing within the Property View , the view no longer flashes and loses the focus.	Common
17938289660990000	Deleting a value of a custom attribute behaves the same in table editor and the Property View .	Common

10.3.2 Diagrams

ID	Resolution	Category
17938289609732647	Artifact Picker content is no longer changed when the selection is changed in the diagram.	Diagrams
17938290953359012	Within <i>Title Blocks</i> , correct time stamps of diagram elements are displayed.	Diagrams
17938290980319012	Tables in diagrams are placed below the selected diagram element.	Diagrams

10.3.3 Tables

ID	Resolution	Category
17938289148699012	Generic attributes are displayed correctly in tables.	Tables

ID	Resolution	Category
17938289582389167	Help entries in tables are only displayed if the previous column is also the source column to the current one. This prevents erroneous help entries when the order of the displayed columns does not match the actual source columns in the table model.	Tables
17938290953252689	The Navigate to action works within tables that are part of an explorer that is displayed on a portlet and properly navigates to the best suitable table within the already opened explorer.	Tables
17938291005559012	Switching categories in an explorer while an embedded LibreOffice editor is opened in the table no longer causes a deadlock.	Tables
17938289582399167	Issues regarding copy and paste operations in tables have been fixed.	Tables

10.3.4 Requirements

ID	Resolution	Category
17938290988318454	The requirements import via an Excel file imports requirement hierarchies again.	Requirements

10.3.5 Logical architecture

ID	Resolution	Category
17938291033160451	Dereferencing a port in the <i>Logical Architecture System Diagram</i> , removes connections correctly from the diagram.	Logical architecture

10.3.6 AUTOSAR

ID	Resolution	Category
17938289934819129	AUTOSAR export: The export of the attribute <code>startPosition</code> of <code>ISignalToIPduMapping</code> is modified. The value 0 is considered as default value as well.	AUTOSAR
17938290927639102	AUTOSAR export: The following objects are only exported if they are actually referenced by another object: <ul style="list-style-type: none"> > <code>TpConnectionIdent</code> > <code>PncMappingIdent</code> > <code>LinSlaveConfigIdent</code> > <code>ExternalTriggeringPointIdent</code> > <code>ModeAccessPointIdent</code> 	AUTOSAR

ID	Resolution	Category
17938290930829102	AUTOSAR export: Duplicate short names are now adapted to unique short names by considering the namespace as defined by AUTOSAR (namespace = nearest parent of a referable which is a referable as well or the root).	AUTOSAR
17938291009379167	AUTOSAR export: The AUTOSAR export metric blocks consider the variant.	AUTOSAR

10.3.7 Communication

ID	Resolution	Category
17938289677449005	The <i>Custom Attribute Definition</i> "Ethernet Attributes" has been deleted since the associated attributes are now part of the meta model. Associated <i>Model Queries</i> have been cleaned up.	Communication
17938290932282645	The signal router does no longer create event handlers or event groups for service-based communication.	Communication
17938290932308454	The signal router correctly evaluates conditions for founded paths in case of using a 150% routing.	Communication
17938290971148157	The signal router correctly handles the socket address synthesis when Ethernet is working as gateway to CAN.	Communication
17938291007269167	The signal router handles <i>I-Signals</i> for added consumer ports when other connected consumer ports are already routed and have <i>I-Signals</i> assigned to them.	Communication
17938291041168157	None-transporting <i>PDUs</i> are ignored by the frame synthesis.	Communication
17938291009459167	The currently set workspace is considered by the <i>Service Deployment/Software Mapping Editor</i> .	Communication
17938290932262645	When deploying a service role to a <i>Socket Address</i> in the <i>Ethernet and Service Oriented Explorer</i> , the attributes of the <i>Provided Service Instance/Consumed-Service Instance</i> are taken over into the derived <i>Socket Address</i> .	Communication
17938290932232645	Calculating the Message ID for a service properties now distinguishes between getter and setter methods.	Communication
17938290986198454	The <i>Service Interface Editor</i> and the <i>Service Interface Implementation Editor</i> have been adapted to display the getter and setter methods of a property instead of the check boxes.	Communication

10.3.8 Hardware architecture

ID	Resolution	Category
17938289613522647	Performing the refactoring Create Wiring Harness Diagram on an <i>Electric Circuit Diagram</i> with an assigned diagram configuration works.	Hardware architecture
17938291006108157	The wiring harness router dialog prevents setting and executing an invalid configuration.	Hardware architecture

10.3.9 Geometry

ID	Resolution	Category
17938290986942709	KBL export: Export rules have been adapted to only consider contactings of wires that are part of the export scope.	Geometry

10.3.10 Product line approach

ID	Resolution	Category
17938289131962647	External relations are copied when reusing an <i>Asset</i> . However, these relations are not protected by the <i>Asset</i> .	Product line approach
17938289528749129	The Boundary artifacts property page of <i>Assets</i> displays all boundary artifacts.	Product line approach
17938291040870455	Integrating a software component from an <i>Asset</i> works correctly. Invalid structures are avoided by a strict type-prototype-instance check in the software layer. Entries in the Information View are corrected to show invalid type-prototype-instance structures.	Product line approach
17938291041119823	Variant highlighting now supports clusters.	Product line approach

10.3.11 Metrics

ID	Resolution	Category
17938290932267721	A change within a metric source code always triggers the recompilation of its class file.	Metrics

10.3.12 Reports

ID	Resolution	Category
17938290979488454	The correct diagram section is contained in reports, even if the diagram is not locked.	Reports

10.3.13 Collaboration

ID	Resolution	Category
17938289644032644	Loading scope tasks are performed inside an operation to ensure model consistency if an update/load fails.	Collaboration
17938289659469106	Model projects are reliably displayed in the splash screen when using PREEvision with the distributed workspace startup scripts.	Collaboration
17938289951789258	Deleting scope roots using the Property View on scope artifacts works. The name of the context menu action is modified to reflect the target scope roots name.	Collaboration
17938289953389051	Dialogs that allow setting comments (commit, check-in, check-out...) now persist entered comments so that they are available after a restart of the application. The number of persisted comments is limited to the last 5.	Collaboration
17938289996498454	Fixed duplicate exception on commit after changing the type of a new artifact and move.	Collaboration
17938290956649012	The scope owner is no longer displayed on the property page of the <i>Scope</i> artifact. It is displayed within the breadcrumb entry.	Collaboration
17938290949682687	If the model update cache is not filled and the model update is very large, the client no longer triggers a model update from the server. Instead, the client cache is reloaded.	Collaboration

10.3.14 Administration

ID	Resolution	Category
17938288500449224	Administration of the license server is possible when a license with too many named users exists on the server.	Administration
17938291003072673	During factory reset, to-one relations are no longer handled like an import. To-one relations are reset to the artifacts contained in the factory reset model.	Administration

10.4 Known issues

Exporting OLE image files from PREEvision to ReqIF To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

11 PREEvision 8.5 SP8

This chapter contains the following information:

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11.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.8
PREEvision license server	2.0.6
PREEvision database server	8.5.8.00
PREEvision application server	8.5.8

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

11.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

The following table shows compatible client, server application and database server script version for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version
8.5.0	8.5.0	8.5.0.12
8.5.1	8.5.1	8.5.1.04
8.5.2	8.5.2	8.5.1.04
8.5.3	8.5.3	8.5.1.04
8.5.4	8.5.4	8.5.1.04
8.5.5	8.5.5	8.5.1.04
8.5.6	8.5.6	8.5.6.00
8.5.7	8.5.7	8.5.6.00
8.5.8	8.5.8	8.5.8.00

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

11.3 Fixed issues

Fixed issues in PREEvision 8.5 SP8

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

Further information

- > Common
- > Diagrams
- > Tables
- > Requirements
- > Logical architecture
- > Software architecture
- > AUTOSAR
- > Communication
- > Hardware architecture
- > Geometry
- > Product line approach
- > Change and release management
- > Rules
- > Metrics
- > Collaboration
- > Administration
- > Migration

11.3.1 Common

ID	Resolution	Category
17938287915522709	The problem of displaying artifact names as whitespaces in the Model View , instead of the actually defined name, has been resolved.	Common
17938288648562647	Setting values in the Property View works correctly in case that PREEvision is executed within a virtual desktop.	Common
17938289609732647	Artifact Picker content is no longer changed when the selection is changed in the diagram.	Common
17938289613809012	The value of boolean <i>Generic Attributes</i> and <i>EE Attributes</i> can now be set in the Property View .	Common
17938289656229000	The LibreOffice Toolbar is correctly displayed in formatted text fields within the Property View .	Common
17938289656279000	Within the LibreOffice toolbar of a formatted text field, the delete placeholder action is available for newly created placeholders.	Common

ID	Resolution	Category
17938289674699106	Performance of updating the Model View has been improved in case of executed database actions or model changes.	Common

11.3.2 Diagrams

ID	Resolution	Category
17938289640538157	Comments contained in a diagram are correctly displayed in the diagram.	Diagrams
17938289597889258	Refreshing a diagram does not remove the <i>Title Block</i> . Locking a diagram with a <i>Title Block</i> no longer causes an error.	Diagrams

11.3.3 Tables

ID	Resolution	Category
17938289540659216	Correct action buttons are displayed in explorers after switching between tabs.	Tables
17938289551702647	Opening a combined table editor with Open With or from the template now uses the correct scope.	Tables
17938289528359012	Content of columns that depend on a filtered column is displayed.	Tables
17938288967992644	The Default Editor option on the Table Settings property page of a table template is no longer copied when creating table instances.	Tables
17938289561662724	Within the main column of a table, names of generic attributes can be changed.	Tables
17938289470529224	Move of check box column content is now only possible to another check box column.	Tables
17938289543079012	Tables already displayed in a diagram are still activated when again opening the Show Table dialog in the diagram.	Tables
17938289598002647	The "Empty" entry in the predefined filters popup of tables is replaced by a check box named "Show empty values" providing the same function.	Tables

11.3.4 Requirements

ID	Resolution	Category
17938289958242674	ReqIF import: Intention requirements are correctly determined by the ReqIF import configuration.	Requirements

ID	Resolution	Category
17938289595779207	Within the <i>Requirement Text Editor</i> , newly created <i>Requirements</i> are correctly placed even if the <i>Product Line</i> is checked-in. Artifact with a context freezing point are automatically checked out, if necessary.	Requirements

11.3.5 Logical architecture

ID	Resolution	Category
17938289961038226	Ports can be connected even if they are contained in different <i>Logical Structure Packages</i> .	Logical architecture

11.3.6 Software architecture

ID	Resolution	Category
17938289677410455	Values of <i>Physical Values</i> can be edited in the Property View . Property pages have been added to <i>Physical Values</i> and <i>Physical Values Group</i> .	Software architecture
17938288998139129	On the Port Communication Specification property page of the port type, the parameter communication specification is displayed.	Software architecture

11.3.7 AUTOSAR

ID	Resolution	Category
17938289445588454	On the Parameters property page of the <i>Consumed Event Group</i> , the attribute Event Group Identifier is available.	AUTOSAR
17938289596629129	AUTOSAR export: The order of exported <i>Physical Value Groups</i> is maintained.	AUTOSAR
17938289528128454	AUTOSAR import: Update of the <i>Interface Assignment</i> has been corrected.	AUTOSAR
17938289561499129	AUTOSAR export: The consistency check "AR_010510_PV_DirektConnectionService NeedsToInternalBehavior" has been added to check for direct references between <i>Service Need</i> and <i>Internal Behavior</i> without a <i>Service Dependency</i> .	AUTOSAR
17938289957950451	AUTOSAR export: The transformation of <i>Parameters</i> that contain <i>Data Constraints</i> has been modified to avoid conflicts which lead to an export error.	AUTOSAR

ID	Resolution	Category
17938289974669129	AUTOSAR export: <i>CAN Tp Configurations</i> with inconsistent children (e.g. a <i>J1939 Tp Connection</i>) do no longer lead to all artifacts being exported into a single <code>ORPHANS</code> <code>ARPackage</code> .	AUTOSAR
17938289481890455	AUTOSAR export: Unused <i>Data Type Mapping Sets</i> are no longer exported for ECU extracts and system extracts.	AUTOSAR
17938289640849216	AUTOSAR import: Update and merge with an active scope is possible. Duplicate ImEx-IDs are not reported if they are outside the active scope.	AUTOSAR
17938289596218454	AUTOSAR import: The software component update has been improved in case that software components to not have an ImEx-ID (AUTOSAR UUID).	AUTOSAR
17938289640149216	AUTOSAR import: Performance has been improved for posting artifacts with a duplicate ImEx-ID into the Information View .	AUTOSAR

11.3.8 Communication

ID	Resolution	Category
17938289582459167	When creating a communication cluster in the <i>Ethernet and Service Oriented Explorer</i> , all <i>ECU Interfaces</i> of the <i>Ethernet Communication Cluster</i> are updated (if existing) or a new cluster is created with the required <i>ECU Interfaces</i> .	Communication
17938289521018454	In the <i>Ethernet and Service Oriented Explorer</i> , the creation of the <i>Transformer Assignment</i> has been fixed.	Communication
17938289596228454	In the <i>Ethernet and Service Oriented Explorer</i> , the <i>ECU Definition Table</i> shows all artifacts of meta class <i>Detailed Electric Electronic</i> within the ECU column.	Communication
17938289674789005	In the <i>Ethernet and Service Oriented Explorer</i> , the "ServiceDiscoverySubscription" metric can be executed after performing a factory reset.	Communication
17938289673749005	Within the <i>Ethernet ECU Definition Editor</i> , which is part of the <i>Ethernet and Service Oriented Explorer</i> , the Artifact Picker of the VLAN column properly show all <i>VLANs</i> that are reachable by the current <i>Product Line</i> .	Communication
17938289654898454	On the Application Endpoint Configuration property page of the <i>Application Endpoint</i> , a <i>Tp Configuration</i> can be assigned.	Communication

ID	Resolution	Category
17938289451038454	DBC export: The export of the DBC ECU extract considers the byte order of signals.	Communication
17938289949789822	The frame synthesis creates sending/receiving <i>ECU Interface</i> relations if no <i>PDU Gateway Routing Entries</i> exist.	Communication
17938289949609822	The frame synthesis considers the compatibility checks for secured frames as well.	Communication
17938289949779822	For the frame synthesis linked conditions have a higher priority than the compatibility check.	Communication
17938289380218454	Within the <i>CAN Bus Editor</i> , <i>CAN Frames</i> can be instantiated via drag and drop.	Communication
17938289951552689	On the Frame-PDU-Synthesis preference page, the Use CAN frames for CAN FD buses option is activated by default.	Communication

11.3.9 Hardware architecture

ID	Resolution	Category
17938287781969051	The fan size for connections can be increased in intervals of 5, 10, 15, 20, and 40.	Hardware architecture
17938289601942647	When connecting two <i>Schematic Pins</i> using the <i>Electric Circuit Diagram</i> a <i>Schematic Connection</i> can be created automatically. If a <i>Component Package</i> is set as active workspace this package is used as parent for the new <i>Schematic Connection</i> .	Hardware architecture
17938289551202647	Creating a <i>Schematic Connection</i> in the <i>Electric Circuit Diagram</i> no longer creates a logical connection if the user selects the corresponding option in the dialog.	Hardware architecture
17938289953339258	<i>Wiring Diagrams</i> created with a former PREEvision version and containing artifacts without routing style can be opened without error.	Hardware architecture
17938289953509051	Labels for sheet connectors are hidden again by default. In order to show them in the diagram, the sheet connector can be selected and the Reset Labels context menu action can be executed. Executing this action while having only the associated connection selected will not show the label on the sheet connector. Furthermore, it is now possible to properly select the sheet connector in all routing modes and to rotate it using the handle icons.	Hardware architecture
17938289574242647	The Circuit Synthesis dialog works correctly.	Hardware architecture

ID	Resolution	Category
17938288965279182	The naming conventions for <i>Slots</i> , <i>Cavities</i> , Cavity Number and Pin Contact are now part of the factory reset.	Hardware architecture
17938289613522647	Performing the refactoring Create Wiring Harness Diagram on an <i>Electric Circuit Diagram</i> with an assigned diagram configuration works.	Hardware architecture
17938289971009051	<i>Schematic Connections</i> of a <i>Schematic Pin</i> can be dereferenced in the Property View .	Hardware architecture
17938289551659012	The Circuits property page of a <i>Wiring Connector</i> also displays pins with connected wires.	Hardware architecture
17938289609652647	Copy, move and reuse of connected <i>Schematic Pins</i> or pins with a different type of connector is prevented.	Hardware architecture

11.3.10 Geometry

ID	Resolution	Category
17938289586502709	KBL export: If the option Export 2D coordinate is selected and no 2D coordinates are defined, the position of the <i>Connector Locations</i> in the diagram is exported. If a topology artifact is located within two diagrams, the position of the first diagram is exported.	Geometry
17938289952209051, 17938289959699051	KBL import and export: The assignment of <i>Topology Edge Point</i> to module is exported as assignment of <code>FixingOccurrence</code> to module. The relation between <code>FixingOccurrence</code> and module is imported as assignment of <i>Topology Edge Point</i> to module.	Geometry
17938289949389258	Selecting <i>Topology Segment Intervals</i> in the Inconsistencies view also updates the selection in the Model View .	Geometry

11.3.11 Product line approach

ID	Resolution	Category
17938289968940455	Moving a checked-in SWC no longer requires a check-out of the <i>Asset</i> .	Product line approach
17938289457780455	Migration to PREEvision 8.5 no longer causes inconsistent <i>Assets</i> .	Product line approach
17938289582469167	The action for creating a new <i>Product Line</i> with substructure has been enhanced to create <i>Data Type Packages</i> , a <i>Data Type</i>	Product line approach

ID	Resolution	Category
	<i>Mapping Package, and a Transformer Configuration Package and Transformer Configuration.</i>	
17938289544659243	In the <i>System Overview View</i> , the navigate to artifact button works.	Product line approach

11.3.12 Change and release management

ID	Resolution	Category
17938289079638454	On the Contacts property page, it is now possible to assign roles to stakeholders within the Stakeholders table.	Change and release management

11.3.13 Rules

ID	Resolution	Category
17938289449779225, 17938289641142689	If a consistency check returns no results, the Information View no longer displays an error.	Rules
17938289576129822	On a rule object, the framework attribute <code>mdfBranchDisplayName</code> can be added without error.	Rules
17938289576119822	Within rules, the framework attribute <code>mdfCheckout</code> is correctly considered.	Rules
17938289576139822	Renaming a branch is considered by the online check.	Rules
17938289641332709	If a consistency check is executed via metric and several artifacts are given as input, the Inconsistencies view shows the results for all artifacts. The Inconsistencies view is only cleared once at the beginning of the metric execution.	Rules

11.3.14 Metrics

ID	Resolution	Category
17938289595757721	The method <code>deleteRefObjects</code> that can be used in metrics now creates a copy of the list of elements to be deleted to avoid <code>ConcurrentModificationExceptions</code> .	Metrics
17938289546049822	If the option Show in Operations Menu is activated on a <i>Metric Executor</i> , the metric is displayed in the context menu <repository root> Operations .	Metrics
17938289516549225	A <code>StackOverflowException</code> during execution of the <i>KBL Export Block</i> has been fixed.	Metrics

ID	Resolution	Category
17938289574689824	The <i>Change Variant</i> metric block now supports all <i>MSet</i> artifacts as input.	Metrics
17938289475319207	Metrics that run on the server and are triggered by an online check during the commit no longer change the last modification user since they are run without change documentation on the repository.	Metrics

11.3.15 Collaboration

ID	Resolution	Category
17938288838752647	Executing a Dereference action in the Property View no longer causes a lock error.	Collaboration
17938288887169106	Commit is possible after importing a file and moving it to a new parent.	Collaboration
17938289073320000	If a new association (for a to-one relationship) is set to an artifact that is in the scope and that so far has a relationship to an artifact that is not in the scope, then an <i>OutOfScope</i> exception is thrown. Since the new relation has already been established in the MDF, but the exception is thrown, the new relation is now undone correctly and the scope can be activated.	Collaboration
17938289455589224	Do not calculate update cache on server if count of commit delta elements exceeds threshold.	Collaboration
17938289602000452	Cancel by the client is recognized correctly by the server for a queued commit (because of another long running commit).	Collaboration
17938289673359012	Loading historic model versions is possible without causing timeouts.	Collaboration
17938289949579129	If a commit operation is canceled in the client, the commit operation is also canceled on the server.	Collaboration

11.3.16 Administration

ID	Resolution	Category
17938289609722687	Attribute values with more than 1000 characters are correctly handled during anonymization of the model.	Administration
17938289192639051	Within the User Editor a <i>Resource</i> can be created in the EEA model.	Administration

11.3.17 Migration

ID	Resolution	Category
17938289659629129	The consistency check that is executed before creating a backup has been corrected and no longer reports "false-positive" errors.	Migration

11.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

12 PREEvision 8.5 SP7

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12.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.7
PREEvision license server	2.0.6
PREEvision database server	8.5.6.00
PREEvision application server	8.5.7

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

12.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

The following table shows compatible client, server application and database server script version for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version
8.5.0	8.5.0	8.5.0.12
8.5.1	8.5.1	8.5.1.04
8.5.2	8.5.2	8.5.1.04
8.5.3	8.5.3	8.5.1.04
8.5.4	8.5.4	8.5.1.04
8.5.5	8.5.5	8.5.1.04
8.5.6	8.5.6	8.5.6.00
8.5.7	8.5.7	8.5.6.00

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

12.3 Fixed issues

Fixed issues in PREEvision 8.5 SP7

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

Further information

- > Common
- > Diagrams
- > Tables
- > Requirements
- > AUTOSAR
- > Software architecture
- > Communication
- > Hardware architecture
- > Geometry
- > Product line approach
- > Metrics
- > Collaboration
- > Administration
- > Roles and rights

12.3.1 Common

ID	Resolution	Category
17938289450892644	The Metric context menu entry is filterable via blacklist filter with the following entry: MENU-ID: aquintos.metric.actions. contextmenu. CalculateMetricExecutorAction	Common
17938289450912644	The context menu entry Import ReqIF Model and all other entries of the Import/Export entries are now filterable via blacklist filter.	Common
17938289453762689	On the Assignments property page of <i>Conditions</i> , assignments can no longer be dereferenced but only be deleted.	Common
17938289471619243	Opening a formatted text in a separate editor no longer blocks opening a table cell editor.	Common
17938289481729243	Placeholders in formatted text support binary, octal and hex representation for number values of custom attributes.	Common
17938289418479822	Performance of the online check has been improved for the special constellation that a large amount of port types exists for the same parent block.	Common

12.3.2 Diagrams

ID	Resolution	Category
17938289475280452	<i>Req-HW/LA-Mappings</i> and <i>Req-LA-Mappings</i> can be displayed in mapping boxes within <i>Logical Architecture Diagrams</i> and <i>Logical Architecture System Diagrams</i> .	Diagrams
17938288963159005	The behavior of <i>Title Blocks</i> within diagrams has been improved: <ul style="list-style-type: none"> > The border width can now be set in the Object Configuration (default is 0, so that no border is shown). > Padding is removed from <i>Title Block</i>, so that the scrollbars are not displayed before they are required. > <i>Title Blocks</i> do not turn blank when pressing <F5>. 	Diagrams

12.3.3 Tables

ID	Resolution	Category
17938289397439207	When copying cell values in tables using drag and drop, it is now possible to reduce the selection by moving the mouse backwards.	Tables
17938289417867721	Content of column metrics is correctly displayed on refreshing the table.	Tables
17938289434659207	Table column filters are correctly applied when selecting different filter types.	Tables
17938289435039207	The „filtered“ label of a table is not shown if filters are not set or the filter „All“ is selected on all columns.	Tables
17938289462959243	Within check box list columns, the cell editor is displayed correctly.	Tables
17938289435539207	Tables are expanded after setting a filter to "All" if at least one column of the table has the flag show expanded set to true.	Tables
17938289521539197	Saving a table instance in the model via the table toolbar button saves the table instance under the parent artifact on which the table has been opened and not under the currently selected artifact.	Tables
17938289476529224	Icons of a table are updated before the table toolbar is created.	Tables
17938288741289051	The performance of tables has been improved in case that the clipboard contains large HTML contents.	Tables

12.3.4 Requirements

ID	Resolution	Category
17938289434249243	The version graph shows content for all requirement subtypes now.	Requirements
17938289449119207	In the <i>Requirement Text Editor</i> , after switching a requirement type the table tree is expanded again if a row is changed and the expand setting of the table is set.	Requirements
17938289464722644	The condition metric in the check box list column of the <i>Requirement Text Editor</i> filters sets with the name "(empty)".	Requirements
17938289464732644	In the <i>Requirement Text Editor</i> , within check box list columns, multi-edit is only possible if all selected cells are in the same column.	Requirements
17938289464742644	In the <i>Requirement Text Editor</i> , the Mapped Artefacts column displays now targets of: <ul style="list-style-type: none"> > <i>Req-X-Mappings</i> > <i>Req-HW/LA-Mappings</i> > <i>Req-LA-Mappings</i> 	Requirements
17938289471159207	In the <i>Requirement Text Editor</i> , pasting clipboard content into multi-attribute fields is copied to the first writeable attribute.	Requirements
17938289456022644	The given object level in the <i>Product Goals</i> import is imported correctly.	Requirements
17938289523039243	In the <i>Requirement Text Editor</i> , metric-based toolbar buttons are no longer deactivated when working with multi-edit in check box list columns.	Requirements
17938288166789823	Report-based ReqIF export: An issue in the demo model has been solved. Instead of the XMID or UUID, the EPDMID of the artifacts is exported.	Requirements

12.3.5 AUTOSAR

ID	Resolution	Category
1793609210455	AUTOSAR import: The naming of implicitly created <i>Constant Specifications</i> has been changed to: Role name in AUTOSAR + "_" + <code>ShortLabel</code> of the <i>Value Specification</i> (if it is set) + "_" + value of the <i>Value Specification</i> (in case it is not an <i>Array Value Specification</i> , <i>Record Value Specification</i> or <i>Constant Reference</i>). The <i>Constant Specifications</i> synthesized during AUTOSAR import are merged.	AUTOSAR

ID	Resolution	Category
17938289373949129	AUTOSAR export: To prevent errors in the AUTOSAR export, the severity of the consistency check "Check C3002_undelegatedPort" has been changed from "warning" to "error".	AUTOSAR
17938288093212689	AUTOSAR import: Model transformation conflicts on AUTOSAR import are displayed in the Information View .	AUTOSAR
17938289149550455	AUTOSAR import: The calculation of EPDMIDS/identifiers has been modified for <i>Signal Gateway Routing Entries</i> to enable a reliable import with merge.	AUTOSAR
17938289371838454	AUTOSAR import: The usage of non AUTOSAR compliant <i>Application Data Types</i> (unknown CATEGORY) does not cause the import to stop without any error message. Furthermore, the user is informed about <i>Application Data Types</i> that could not be imported.	AUTOSAR
17938289441649276	AUTOSAR export: Problems with <i>Port Interface Mappings</i> that occurred during ECU Extract have been fixed.	AUTOSAR

12.3.6 Software architecture

ID	Resolution	Category
17938287804689129	For <i>Nv Block Descriptor</i> , the property page Used Constant Mappings has been added.	Software architecture
17938289228702689, 17938289336682689, 17938289374258454	For <i>Verbal Table Conversion</i> and <i>Linear Verbal Table Conversion</i> , unnecessary property pages have been removed and the order of the property pages has been changed.	Software architecture
17938289335449129	For <i>Nv Block Descriptor</i> , the property page Nv Data Mappings has been extended with the missing table for written read nv data.	Software architecture
17938289427902689	For <i>Linear Conversion</i> , values with more than 15 digits are now correctly presented in the Property View .	Software architecture
17938289452869822	Moving a part of a software component to another software component keeps external relations.	Software architecture
17938289465009047	In the <i>Software Instance System Diagram</i> ports are displayed correctly.	Software architecture

12.3.7 Communication

ID	Resolution	Category
17938289452899822	During Frame-PDU-Synthesis conflicts are correctly resolved that result from different senders sending the same signal that has multiple possible frames.	Communication
17938289452859822	<i>Container IPDU</i> and <i>Secured IPDU</i> are correctly handled in the Frame-PDU-Synthesis.	Communication
17938287590518157	The following consistency checks for master/slave of a LIN bus have been fixed: <ul style="list-style-type: none"> > R001_NoSlave > R002_NoMaster > R003_MultiMaster 	Communication
17938289355139822	In the Frame-PDU-Synthesis, the creation of PDU transmissions for <i>Secured PDUs</i> has been corrected.	Communication
17938289363048454	The synthesis for the service discovery has been improved.	Communication
17938289427919245	A class cast exception of complex data types that occurred in the signal router has been fixed.	Communication
17938289475189822	The Frame-PDU-Synthesis checks the PDU timing before creating routing entries.	Communication
17938289536079822	The Frame-PD-Synthesis correctly creates the PDU gateway routing entries between secured IPDUs.	Communication
17938289448209822	During signal routing, <i>ECU Interfaces</i> of reused <i>Signal Transmissions</i> are removed when they are not part of the path.	Communication
17938289451009005	Multiple service consumers and providers can be assigned to an <i>ECU</i> .	Communication
17938289475269822	The Frame-PDU-Synthesis correctly updates container and secured IPDUs.	Communication
17938289365319047	In the <i>Ethernet and Service Oriented Explorer</i> all switches are displayed regardless of their hierarchy.	Communication
17938289465499167	In the <i>Ethernet and Service Oriented Explorer</i> , in the <i>Service Discovery Editor</i> , the Create Service Discovery Subscription checks for <i>Service Interfaces</i> before running the synthesis.	Communication
17938289395869167	When the signal router is started via the <i>Ethernet and Service Oriented Explorer</i> , the signal router creates <i>VLAN Memberships</i> for the used <i>VLANs</i> only.	Communication
17938289396169167, 17938289398289167	The signal router available in the <i>Ethernet and Service Oriented Explorer</i> correctly routes <i>Fire and Forget Methods</i> .	Communication

ID	Resolution	Category
17938289403009167	An additional table in the <i>Ethernet and Service Oriented Explorer</i> (category Socket Adaptor) shows the missing IPDU identifier.	Communication
17938289465289167	Assigning a <i>VLAN</i> to an <i>ECU</i> behaves the same independent of whether the first <i>VLAN</i> is assigned or following <i>VLANs</i> are assigned. Additionally, the following required artifacts are created automatically, if not already existing: <ul style="list-style-type: none"> > <i>Channel Communication</i> > <i>Network Configuration</i> > <i>Network Endpoint Package</i> 	Communication

12.3.8 Hardware architecture

ID	Resolution	Category
17938289446499225	When reusing a connector and the set plug type is checked, the reused artifact gets the same structure as the original connector.	Hardware architecture
17938289515589180	Drag and drop of <i>Single Wires</i> and <i>Wire Pins</i> on a <i>Schematic Connection</i> works again.	Hardware architecture

12.3.9 Geometry

ID	Resolution	Category
17938289425349051	The performance of the KBL import has been improved.	Geometry
17938289516302709	KBL export: <i>Pin Types</i> with the name „empty_cavity“, which have formerly been a substitution of cavity plugs, are not supported anymore. Instead, cavity plugs need to be defined in the model.	Geometry
17938289516402709	KBL export: A <i>Topology Type</i> that is simultaneously used on a <i>Topology Edge Point</i> and on a <i>Topology Segment Interval</i> does not cause an invalid KBL file anymore.	Geometry
17938289523448352	KBL export: <i>Wiring Modules</i> without defined attribute Wiring Module Content do not cause invalid KBL files anymore. The attribute „content“ of the <i>Wiring_module</i> in KBL gets the default value „module“.	Geometry
17938289523458352	KBL export: An error message is reported after a KBL export if a wire is not connected to two contactings.	Geometry

ID	Resolution	Category
17938289536892709	If on a <i>Harness</i> or <i>Wiring Harness</i> the custom attribute External Version exists, it is exported to the attribute „version“ of the KBL Harness.	Geometry

12.3.10 Product line approach

ID	Resolution	Category
17938289220990455	Merging a software instance from <i>Asset</i> integration into another software instance with the same type is no longer possible to avoid corrupted <i>Assets</i> .	Product line approach
17938289451029106	For better performance, in the variant selection pop-up menu only the currently selected <i>Product Line</i> is expanded by default.	Product line approach
17938289452109106	Performance of the Set Content View is improved for modifying set contents.	Product line approach
17938289457770455	The integration of software instances with reused prototypes from reused <i>Assets</i> works without structure synchronization errors.	Product line approach

12.3.11 Metrics

ID	Resolution	Category
17938289442438157	The method <code>deleteRefObject</code> within metrics has the same behavior as the Delete action in the Model View .	Metrics

12.3.12 Collaboration

ID	Resolution	Category
17938289416372645	Logging has been improved for long running operations.	Collaboration
17938289522928157	Replace with latest revision is now possible if a <i>Wiring Connector</i> gets a new <i>Connector Plug Type</i> .	Collaboration
17938289540079012	If required locks cannot be obtained, the Information View lists artifacts that are locked by another user.	Collaboration

12.3.13 Administration

ID	Resolution	Category
17938289438589104	The metric for generating EEP files has been adapted to the new model-based scope definition. Scope information is no longer embedded in EEP files.	Administration
17938289542819224	The flag <code>DchangedArtifactsThreshold</code> is handled correctly.	Administration

12.3.14 Roles and rights

ID	Resolution	Category
17938289457488454	A mapping between two artifacts can now be created even if permissions on both artifacts have been restricted to read-only rights. However, write access for the mapping container is still required.	Roles and rights
17938289457538454	Attaching a writeable <i>Bus Connector</i> to a read-only <i>Bus System</i> is now permitted in diagrams. This change also applies to various other connections in several diagrams.	Roles and rights
17938289457548454	Security permissions defined on an <i>Attribute Definition</i> are considered by custom attributes.	Roles and rights

12.4 Known issues

Exporting OLE image files from PREEvision to ReqIF To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

13 PREEvision 8.5 SP6

This chapter contains the following information:

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13.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.6
PREEvision license server	2.0.6
PREEvision database server	8.5.6.00
PREEvision application server	8.5.6

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

13.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

The following table shows compatible client, server application and database server script version for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version
8.5.0	8.5.0	8.5.0.12
8.5.1	8.5.1	8.5.1.04
8.5.2	8.5.2	8.5.1.04
8.5.3	8.5.3	8.5.1.04
8.5.4	8.5.4	8.5.1.04
8.5.5	8.5.5	8.5.1.04
8.5.6	8.5.6	8.5.6.00

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

13.3 Fixed issues

Fixed issues in PREEvision 8.5 SP6

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

Further information

- > Common
- > Diagrams
- > Tables
- > Requirements
- > AUTOSAR
- > Communication
- > Hardware architecture
- > Geometry
- > Test engineering and test management
- > Rules
- > Metrics
- > Administration

13.3.1 Common

ID	Resolution	Category
17938288972110452	Fixed performance issue when opening context menu on large locked subtree.	Common
17938289345919207	The update numbering dialog for the actions Paste as copy without external relations and Paste as reuse without external relations has been fixed.	Common

13.3.2 Diagrams

ID	Resolution	Category
17938288838722709	Diagrams are now refreshed before export or print to ensure that labels which are provided by metrics are updated.	Diagrams

13.3.3 Tables

ID	Resolution	Category
17938289132379216	Fast navigation through the explorer editor is now possible without errors.	Tables
17938289280499051	The type-ahead filter for custom artifact picker tables with a single searchable column has been fixed.	Tables

13.3.4 Requirements

ID	Resolution	Category
17938289055299207	The <i>Requirement Text Editor</i> does not collapse anymore after a commit.	Requirements
17938289347962644	After leaving the edit mode in check box list columns no error occurs. Model changes will now only be executed when a change was detected.	Requirements
17938289347982644	Switching the requirement type in the <i>Requirement Text Editor</i> updates now the changed entry by refreshing the table.	Requirements
17938289347992644	<i>Requirement Text Editor</i> : Refactoring of artifacts by changing the type, is now working for reused artifacts.	Requirements
17938289349639197	<i>Requirement Text Editor</i> : Selecting is Heading will change the type of the artifact to <i>Requirement</i> and activate the is Heading check box. Selecting a requirement type will change the artifact to the selected type and deactivate the is Heading check box.	Requirements
17938289351982985	Creating a new artifact in the <i>Requirement Text Editor</i> via the action buttons now selects the newly created artifact.	Requirements
17938289421799104	ReqIF import as requirements: The value Consider Subtypes of <i>Type Meta Class Authority Proxy</i> will not be overwritten anymore.	Requirements
17938289425332644	<i>Requirement Text Editor</i> : Performance has been improved when working with <i>Set</i> check boxes.	Requirements
17938289446170452	ReqIF import: Existing attribute values are not deleted anymore after an import.	Requirements

13.3.5 AUTOSAR

ID	Resolution	Category
17938287886899129	AUTOSAR import: The relation between CURVES, MAPs or CUBOID <i>Application Data Type</i> and <i>Data Element</i> will be imported.	AUTOSAR
17938289064889129	AUTOSAR export: The <i>Port Interface Mappings</i> which are referenced by assembly and delegation connectors on the required side are exported. The interfaces referenced by the <i>Port Interface Mappings</i> are exported.	AUTOSAR
17938289117008454	AUTOSAR import and export: PDU.length is now imported as Bit for all PDUs and PDU.bitLength is now export as Byte for all PDUs.	AUTOSAR

ID	Resolution	Category
17938289145678454	AUTOSAR import with merge: Modified the AUTOSAR import with merge using partial model support to avoid creating new <i>Product Lines</i> if the DesignModel is not contained in the active scope.	AUTOSAR
17938289192880455	AUTOSAR export: Needed delegation ports are created during the export of the AUTOSAR ECU system extract.	AUTOSAR
17938289350869102	AUTOSAR export: The AUTOSAR ECU extract will now successfully export a valid file even if the library containing types and prototypes for the software layer is not included in the active scope.	AUTOSAR
17938289354712674	AUTOSAR export: Only <i>Application Data Types</i> with a category supported by AUTOSAR will be exported (DOUBLE or LONG are not standardized categories, so they will be translated to VALUE).	AUTOSAR
17938289374709167	AUTOSAR export: The variant sensitive AUTOSAR export with propagation, will now export all admin data assigned to the selected <i>Custom Attribute Profile</i> . The inclusion of the <i>Attribute Definition</i> in the active variant is not regarded.	AUTOSAR
17938289379869240	AUTOSAR export: Nested attribute values (such as OpaqueReferences/SdxRefs) will now be exported correctly as admin data for all exported artifacts.	AUTOSAR
17938289402359102	AUTOSAR export: ECU extract and ECU system description of an <i>ECU</i> , mapped to two software instances of the same type, instantiated in two different <i>Root Compositions</i> , will now be executed successfully.	AUTOSAR
17943661519129	AUTOSAR export: The error messages handling has been improved to clearly indicate errors which occurred during the AUTOSAR file writing process.	AUTOSAR

13.3.6 Communication

ID	Resolution	Category
17938288101999822	Unused <i>Signal Transmissions</i> are cleaned up – even if the option Allow multiple block mappings is activated.	Communication
17938288958338352	DBC import: DBC import with merge considers <i>CAN Controller Configuration</i> .	Communication
17938288965752674	<i>Computation Method</i> , <i>Verbal Table Conversion</i> and <i>Linear Verbal Table Conversion</i> are now sorted.	Communication

ID	Resolution	Category
17938289221129822	Condition on <i>Layout Package</i> and <i>Communication Package</i> can now be created via context menu.	Communication
17938289228158454	For the software component update a handling was added. Inconsistencies are avoided when the SW prototypes have no UUID whereas the SW types have a UUID and the name of the SW type is the same but the UUID different.	Communication
17938289360318454	The creation of <i>Multicast Mac Addresses</i> on the table Multicast MAC Forwarding Editor has been fixed. The separator for <i>Multicast Mac Address</i> is AUTOSAR conform now.	Communication
17938289427929245	Signal router recognizes existing routing path correctly also when there are more than switches in the ethernet network.	Communication

13.3.7 Hardware architecture

ID	Resolution	Category
17938289354668454	The refactoring Merge Wiring Harness Inline Connectors does not lead to data loss anymore.	Hardware architecture
17938289391379247	Added missing combo boxes for <i>Power Distribution Connection</i> and <i>Ground Connection</i> in the Property View .	Hardware architecture
17938289405719012	A problem with the drag and drop operation and the dereferencing action in the material section of a <i>Wire Type</i> was fixed.	Hardware architecture

13.3.8 Geometry

ID	Resolution	Category
17938288955829012	The template diagrams of <i>Wiring Connectors</i> and <i>Topology Types</i> are now displayed for <i>Connector Locations</i> and <i>Topology Segment Points</i> within a diagram. This works correctly now for artifacts which are part of an active variant.	Geometry
17938289023000000	Within the <i>Geometry Diagram</i> the user can decide via an action in the toolbar if figure template will be shown when adding new artifacts to the diagram. Additionally, the visibility of each <i>Topology Type</i> can be set separately through a refactoring.	Geometry

13.3.9 Test engineering and test management

ID	Resolution	Category
17938289225069132	Import test protocol from test execution tool: Changed category of cell add-on for import table, so that the missing control is displayed inline again.	Test engineering and test management

13.3.10 Rules

ID	Resolution	Category
17938289020129243	The inconsistency findings from one consistency rule are not influenced by the metric of the other consistency rules.	Rules
17938289145759243	If there is no inconsistency finding, a message will be shown in the Consistency View .	Rules

13.3.11 Metrics

ID	Resolution	Category
17938289336669005	Several <i>Source Codes</i> with compilation errors have been fixed.	Metrics
17938289355059247	Current calculation via metric returns the proper results.	Metrics

13.3.12 Administration

ID	Resolution	Category
17938289346220455	Database model can be initialized with file.	Administration
17938289361179822	Merge mechanism fixed if an artifact is created in step one and deleted in a later step.	Administration
17938289361249822	Factory reset uses auto lock mechanism now to check-out only necessary artifacts.	Administration

13.4 Known issues

Exporting OLE image files from PREEvision to ReqIF

To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

14 PREEvision 8.5 SP5

This chapter contains the following information:

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14.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.5
PREEvision license server	2.0.6
PREEvision database server	8.5.1.04
PREEvision application server	8.5.5

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

14.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

The following table shows compatible client, server application and database server script version for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version
8.5.0	8.5.0	8.5.0.12
8.5.1	8.5.1	8.5.1.04
8.5.2	8.5.2	8.5.1.04
8.5.3	8.5.3	8.5.1.04
8.5.4	8.5.4	8.5.1.04
8.5.5	8.5.5	8.5.1.04

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

14.3 Fixed issues

Fixed issues in PREEvision 8.5 SP5

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

ID	Resolution	Category
17938289360808454	Fixed problem with Asian character encodings in rich text preview.	Common
17938289143798454	AUTOSAR export: During AUTOSAR export the CompuScales of CompuMethods are exported according to the index.	AUTOSAR
17938289393129129	AUTOSAR export: During AUTOSAR export (ECU Extract, SW Component Template) record elements are exported in the correct order.	AUTOSAR
17938289393339129	AUTOSAR export: During AUTOSAR export all order-relevant composite relations are exported according to the index.	AUTOSAR

14.4 Known issues

Exporting OLE image files from PREEvision to ReqIF To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

15 PREEvision 8.5 SP4

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	Software architecture	136
	Communication	137
	Hardware architecture	137
	Product line approach	138
	Change and release management	138
	Metrics	138
	Collaboration	138
	Migration	139
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15.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.4
PREEvision license server	2.0.6
PREEvision database server	8.5.1.04
PREEvision application server	8.5.4

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

15.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after factory reset

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

The following table shows compatible client, server application and database server script version for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version
8.5.0	8.5.0	8.5.0.12
8.5.1	8.5.1	8.5.1.04
8.5.2	8.5.2	8.5.1.04
8.5.3	8.5.3	8.5.1.04
8.5.4	8.5.4	8.5.1.04

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

15.3 Fixed issues

Fixed issues in PREEvision 8.5 SP4

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

Further information

- > Common
- > Diagrams
- > Tables
- > Requirements
- > Logical function architecture
- > AUTOSAR
- > Software architecture
- > Communication
- > Hardware architecture
- > Product line approach
- > Change and release management
- > Metrics
- > Collaboration
- > Migration
- > License

15.3.1 Common

ID	Resolution	Category
17938288947449012	The items from the drop-down list of the Artifact Picker are sorted with given priority.	Common
17938288962712644	The context category "Mapping" can be filtered out with the blacklist filter as a whole category.	Common
17938289041512709	The defined Property View filter is saved correctly now.	Common
17938289069608157	Within the <i>Relation Editor</i> , which is opened after executing a special paste action, the check box in the Apply column can be activated and deactivated without error.	Common
17938289070668157	The <i>Relation Editor</i> opens without error after executing the special paste action Reuse without external relations on an artifact that contains a file attachment.	Common
17938289146722647	Dereferencing artifacts via Property View is working again.	Common

15.3.2 Diagrams

ID	Resolution	Category
17938289055249180	Existing lines are only routed again if the resized components area overlaps a waypoint.	Diagrams
17938289143882758	Only <i>Signal Transmissions</i> of the active variant are highlighted in diagrams.	Diagrams

15.3.3 Tables

ID	Resolution	Category
17938288523452644	The position of the rich text inline editor in tables has been fixed in case of locked columns.	Tables
17938288967992644	The Default Editor flag on the Table Settings property page, will not be copied when creating table instances.	Tables
17938289039522644	It is now possible to define in a table editor which relations should not lead to a table update.	Tables
17938289040442644	The same Artifact Picker is showed only once for multiple dynamic columns.	Tables
17938289044999823	Tables are created in sections if the corresponding artifact is in a section. Tables can be moved freely between section and diagram.	Tables
17938289064082644	When selecting an attribute in the drop-down list within a table, the cell editor is saved and closed directly after the selection.	Tables
17938289066379012	Generic attributes are displayed correctly again as hierarchy in the main column.	Tables
17938289129042647	Help entries in tables are now displayed correctly.	Tables

15.3.4 Requirements

ID	Resolution	Category
17938287832810452	Table cells that contain formatted text are shown grayed out when the artifact is not part of the active variant.	Requirements
17938288856719207	ReqIF export: Styles are exported compliant to XHTML.	Requirements
17938289037499207	The <i>Requirement Text Editor</i> is expanded again when the column filter is deactivated and the flag "show expanded" = true is set.	Requirements

ID	Resolution	Category
17938289038499207	The expand state of the <i>Requirement Text Editor</i> is restored when using the "Add Editor to Model" button or when changing to another table instance.	Requirements
17938289054580452	The inline rich text cell editor of the <i>Requirement Text Editor</i> is not displayed in front of dialogs anymore.	Requirements
17938289054650452	Copy and paste in the <i>Requirement Text Editor</i> modifies the correct attribute when the column has multiple constraint customized labels.	Requirements
17938289069029207	Fixed ReqIF DOORS import metric for importing models without deleted objects in the tool extensions.	Requirements
17938289075262644	Fixed ReqIF DOORS import metric regarding the determination of imported artifacts.	Requirements
17938289113809207	The <i>Requirement Text Editor</i> cell buttons disappear when selecting another tab.	Requirements

15.3.5 Logical function architecture

ID	Resolution	Category
17938289068848454	The context menu Refactoring Convert Block that always created an <i>Actuation Block</i> independent of the selected target type, has been repaired.	Logical function architecture

15.3.6 AUTOSAR

ID	Resolution	Category
17938288624659158	AUTOSAR import: The import with merge does not delete hardware artifacts (<i>Bus Connectors</i>) anymore.	AUTOSAR
17938288658119167	AUTOSAR export: The AUTOSAR ECU extract creates an <i>I-Signal-I-PDU-Group</i> and includes the <i>I-Signal-I-PDU</i> in the case that it is sent/received (relation of <i>PDU Transmission</i> to <i>ECU Interface</i>) and a port transmission mapping exists.	AUTOSAR
17938288790079129	AUTOSAR import: The AUTOSAR import from folder works again.	AUTOSAR
17938288958289129	AUTOSAR export: The class cast exception that occurred during the AUTOSAR ECU extract has been fixed.	AUTOSAR
17938288975859129	AUTOSAR export: Irrelevant <i>Application Data Types</i> are not exported anymore.	AUTOSAR

ID	Resolution	Category
17938289045220455	AUTOSAR export: When exporting an AUTOSAR system description, the problem of missing <i>Computation Methods</i> has been fixed.	AUTOSAR
17938289052850455	AUTOSAR export: The AUTOSAR ECU extract creates only one delegation connection for each sender port, even if more assembly connectors are connected to it and shall be delegated. For receiver ports one delegation connection per port will be created.	AUTOSAR
17938289053220455	AUTOSAR export: The generation of <i>Signal IPDU Groups</i> for signals which are routed over the <i>Gateway</i> , was adapted.	AUTOSAR
17938289064260455	AUTOSAR export: The export has been extended to consider the full-featured attribute value. The information which should be exported, is decided by the defined priority. The following priorities have been defined: <ul style="list-style-type: none"> > enumeration entry value > context text value > text value > context value > version value 	AUTOSAR
17938289076210455	AUTOSAR export: The <i>RAM Block</i> in an <i>Nv Block Descriptor</i> is referenced by <i>Read Nv Data</i> , <i>Write Nv Data</i> and <i>Written Read Nv Data</i> even if the relation is not set in the PREEvision model.	AUTOSAR
17938289115430455	AUTOSAR export: Non-typed <i>Frame Transmissions</i> are now also exported which avoids the export to the <code>ORPHAN</code> packages when this inconsistency exists.	AUTOSAR
17938289139542791	AUTOSAR import/export: All attributes of <i>SOME/IP Transformation Properties</i> , which were not imported/exported before, are considered now.	AUTOSAR
17938289143732758	AUTOSAR export: The crash of the AUTOSAR export block during an AUTOSAR <i>ECU</i> extract has been fixed. The crash was caused by <i>Application Record Elements</i> without <i>Application Data Type</i> .	AUTOSAR

15.3.7 Software architecture

ID	Resolution	Category
17938289220759167	The Service Implementation property page of a <i>Property</i> shows the correct contents now. UML methods will be returned now.	Software architecture

15.3.8 Communication

ID	Resolution	Category
17938288100069822	The signal router detects loops in the model and finds a route for a detected loop.	Communication
17938288886969822	Signal router considers now also conditions assigned to sender ports (new behavior) in addition to conditions assigned to receiver ports (legacy behavior).	Communication
17938288893399822	Signal router will create only one <i>Signal Transmission</i> for the same signal when all sender ports are sending to same receiver ports.	Communication
17938289078688454	The Frame-PDU synthesis has been adapted to not use CAN FD frames on CAN busses.	Communication

15.3.9 Hardware architecture

ID	Resolution	Category
17938288955829012	The template diagrams of <i>Wiring Connectors</i> and <i>Topology Types</i> are now displayed for <i>Connector Locations</i> and <i>Topology Segment Points</i> within a diagram. This works correctly now for artifacts which are part of an active variant.	Hardware architecture
17938288962919180	Background images are now ignored when routing connections in a diagram.	Hardware architecture
17938289001979051	The attribute "Version" is imported on a custom attribute for the KBL classes <i>Wiring Harness</i> , <i>Harness Configuration</i> and <i>Wiring Module</i> . If the attribute is set, it will be exported from the custom attribute, or otherwise from the regular PREEvision version and branch.	Hardware architecture
17938289023000000	A property was added to the <i>Wiring Diagram</i> . The <i>Segment Point Template Diagram</i> of a <i>Topology Type</i> will now be displayed at a <i>Topology Segment Point</i> instead of the standard figure.	Hardware architecture
17938289037629182	The "Wiring Cavity" icon has been updated.	Hardware architecture
17938289045170000	The list of <i>Schematic Pins</i> is now represented correctly in the Property View of a <i>Schematic Connection</i> .	Hardware architecture
17938289045192709	Assigning a new header type (containing slots and cavities) with multiple applicable opposite types is now possible.	Hardware architecture
17938289066180000	The wrong <i>Localizations</i> of <i>Wiring Harness Inline Connector</i> and <i>Topology Inline Connector</i> has been fixed.	Hardware architecture

ID	Resolution	Category
17938289043272709, 17938289064292709, 17938289070452709	The wiring harness router works again with connectors (inline and regular) containing slots and cavities. Also issues with mappings in active variants have been fixed.	Hardware architecture
17938289146229258	When changing the position of a legend within a <i>Wiring Diagram</i> , the legend will not disappear anymore.	Hardware architecture

15.3.10 Product line approach

ID	Resolution	Category
17938287891678454	Fixed setting for synchronizing default and changed attribute marker of a reused <i>ECUs Attribute Definitions</i> .	Product line approach
17938288099202647	All external relations are copied when an artifact is reused.	Product line approach

15.3.11 Change and release management

ID	Resolution	Category
17938289056349243	Created <i>Tickets</i> get an Artifact ID after the check-out of the <i>Ticket Package</i> .	Change and release management

15.3.12 Metrics

ID	Resolution	Category
17938289053878454	Within a <i>Metric Package</i> , <i>Metric Tables</i> can be created and are correctly displayed again.	Metrics
17938289078608454	If the method <code>addSubStatus</code> is called in a metric source code and no message is assigned to the status, no (empty) message box is displayed when executing the metric.	Metrics

15.3.13 Collaboration

ID	Resolution	Category
17938288767662682	Added proxy authentication to the PREEvision client.	Collaboration
17938288998310452	Check-out of reused types is possible when the types have instances that are not reuses themselves.	Collaboration
17938289043339224	Warning dialog (threshold exceed) is not shown anymore, when executing commit, lock, or other implicit model updates.	Collaboration

ID	Resolution	Category
17938289192342709	An error has been fixed that occurred when loading the full scope.	Collaboration

15.3.14 Migration

ID	Resolution	Category
17938289068929129	Restore works correctly now for migration.	Migration

15.3.15 License

ID	Resolution	Category
17938289118289258	With the Viewer role it is now possible, to add table contents to the Favorites via drag and drop.	License

15.4 Known issues

Exporting OLE image files from PREEvision to ReqIF To display OLE images correctly, the following registry entries must be done before starting the ReqIF export from PREEvision.

Precondition: Microsoft Word must be installed.

For the following registry entries (**Standard**) must be set to "Paint.Picture":

- > HKEY_CLASSES_ROOT | .png
- > HKEY_LOCAL_MACHINE | SOFTWARE | Classes | .png
- > HKEY_CURRENT_USER | SOFTWARE | Classes | .png

16 PREEvision 8.5 SP3

This chapter contains the following information:

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16.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.3
PREEvision license server	2.0.6
PREEvision database server	8.5.1.04
PREEvision application server	8.5.3

Documentation

Manual	Version number
PREEvision manual	8.5.3
PREEvision operating manual	8.5.3
PREEvision system requirements	8.5.3

16.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Precompiling metrics after the service pack update or factory reset

After each service pack update, all metrics must be precompiled once.

After each factory reset, all metrics must be precompiled once.

Therefore, proceed as follows:

1. In the **Model View**, select the *Metric Model*.
2. Open the context menu and select **Delete Compiled Classes and Precompile Source Codes**.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

The following table shows compatible client, server application and database server script version for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version
8.5.0	8.5.0	8.5.0.12
8.5.1	8.5.1	8.5.1.04
8.5.2	8.5.2	8.5.1.04
8.5.3	8.5.3	8.5.1.04

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

16.3 Fixed issues

Fixed issues in PREEvision 8.5 SP3

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

Further information

- > Common
- > Diagrams
- > Tables
- > Requirements
- > Logical function architecture
- > AUTOSAR
- > Software architecture
- > Communication
- > Hardware architecture
- > Geometry
- > Product line approach
- > Functional safety
- > Test engineering and test management
- > Rules
- > Metrics
- > Collaboration
- > Administration
- > Migration

16.3.1 Common

Issue ID	Resolution	Category
17938288947809180	The property page TestPage has been removed from <i>ECU</i> .	Common
17938288426710455	It is now possible to immediately set a value to "0" in the Property View .	Common
17938288693789180	Improved performance of selections when model contains many online check findings.	Common
17938288840188454	Categories in the context menu are now hidden, if all their content is blacklisted.	Common
17938288947969180	The creation of a new perspective is possible via the New context menu.	Common
17938288957989180	Performance of working with a large number of artifacts has been improved.	Common

16.3.2 Diagrams

Issue ID	Resolution	Category
17938288661779824	Label configuration has been extended to display the unit for <i>Application Axis</i> , <i>Application Cube</i> , <i>Application Curve</i> , <i>Application Date</i> , <i>Application Map</i> and <i>Application Opaque</i> .	Diagrams
17938288950069824	A performance issue has been fixed that occurred during online check analysis when opening diagrams.	Diagrams

16.3.3 Tables

Issue ID	Resolution	Category
17938288667040455	Light-weight formatted text attributes are now shown correctly in tables.	Tables
17938286737658454	A table columns can be configured to display the context values of a custom attribute. Therefore, a metric column must be configured and in the object configuration the <code>contextValue</code> or the <code>contextTextValue</code> must be configured.	Tables
17938288661762644	Tables no longer collapse the tree when adding or removing children or when changing relations to artifacts in the table.	Tables
17938288850279224	Cell action buttons are displayed in cells of fixed columns.	Tables
17938288756929207	In the user-defined filter dialog within tables, the filter definition text box is focused when initially opening the dialog.	Tables
17938288759799207	The delay of displaying the progress dialog for metric actions executed in tables has been increased.	Tables

16.3.4 Requirements

Issue ID	Resolution	Category
17938288424499207	The ReqIF export informs the user if a file cannot be overwritten because it is, for example, opened in another program.	Requirements
17938288953079207	Performance has been improved when working in the <i>Requirement Text Editor</i> . Unnecessary refreshes are reduced.	Requirements
17938288527099207	The correct link count is now shown in the <i>Requirement Text Editor</i> .	Requirements
17938288759189207	The selection in the Online Check View and in the Inconsistencies view is propagated to other views and editors.	Requirements

Issue ID	Resolution	Category
17938288947522647	Product goals import: Changes in the config file are directly saved during requirement import. New config files are available in the “locally available configuration” folder and can be added to the model.	Requirements
17938288947829207	If a ReqIF import cannot be executed because the artifacts are locked by other users, a corresponding error dialog is displayed.	Requirements
17938288953048454	ReqIF import: <i>Image</i> and <i>Object</i> tags with query strings within the <i>href</i> or <i>data</i> attribute can be imported.	Requirements
17938288968492644	An error has been fixed in the <i>Requirement Text Editor</i> that occurred when creating requirements under checked-in and reused parents.	Requirements
17938288856719207	ReqIF export: Styles are exported compliant to XHTML.	Requirements
17938288998570452	ReqIF export: Links between <i>Requirement</i> and <i>Test Item</i> are exported as open links.	Requirements

16.3.5 Logical function architecture

Issue ID	Resolution	Category
17938288851710452	The “SW2LA Transformation” metric connects system building block ports.	Logical function architecture
17938288693789216	Interface assignments have been added for ports of system blocks.	Logical function architecture

16.3.6 AUTOSAR

Issue ID	Resolution	Category
17938288757109102	AUTOSAR 4 export: Implemented the sorting of <i>SwCalprmAxes</i> contained in <i>Application Primitive Data Types</i> according to their <i>SwAxisIndex</i> (X, Y, Z).	AUTOSAR
17938288959179129	AUTOSAR export: The values of a <i>Record Value Specification</i> are exported in the same order as it is displayed in PREEvision.	AUTOSAR

16.3.7 Software architecture

Issue ID	Resolution	Category
17938288770649129	New menu entries for <i>Physical Values Group</i> and <i>Physical Values</i> are available again.	Software architecture

Issue ID	Resolution	Category
17938288264210455	A new refactoring is now available for assigning a <i>System Signal</i> and <i>I-Signal</i> to selected and connected ports.	Software architecture

16.3.8 Communication

Issue ID	Resolution	Category
17938288468560455	The refactoring Merge system signals with same name is available.	Communication
17938288020758454	In the ECU deployment editor it is possible to deploy service providers again.	Communication
17938288763796486	The DBC custom export works correctly now when selecting one <i>Channel Communication</i> . Only the selected <i>Channel Communication</i> is exported to one DBC file.	Communication
17938288958508454	Internal Initial Value and Physical Initial Value of a signal can now be set in the Property View via drag and drop.	Communication
17938288972159016	The Signals property page of a <i>CAN Frame</i> is correctly displayed.	Communication

16.3.9 Hardware architecture

Issue ID	Resolution	Category
17938288522312689	During the refactoring Merge ECUs with same name and reference code the selected artifact is added to the list of artifacts also when multi-selection is used.	Hardware architecture
17938288670629180	Within the <i>Schematic Diagram</i> a fan is only created if there are two or more connections connected to a port. Additionally, only connections that are relevant for the particular fan are regarded to activate it.	Hardware architecture
17938288680789180	<i>Pins</i> stay in the same place after the headers are shown within the diagram.	Hardware architecture
17938288962919180	Background images are now ignored when routing connections in a diagram.	Hardware architecture
17938288965289182	The refactoring that creates <i>Wiring Connectors</i> from <i>Header Connectors</i> , even if the header contains slots and cavities, has been repaired.	Hardware architecture
17938288125999180	Descriptions, icons and tool tips have been updated for the cable palette in the <i>Wiring Diagram</i> .	Hardware architecture

16.3.10 Geometry

Issue ID	Resolution	Category
17938288790949824	The KBL export now correctly works if no attribute content is set. Later schema validation fails with an error reporting the missing attribute content.	Geometry
17938288839719824	Attributes logistic control information and configuration type are available in the Property View of the <i>Wiring Module</i> .	Geometry
17938288625488157	KBL models with references to <i>Accessory_Occurrence</i> can be imported.	Geometry
17938288964479182	<i>IDC Connections</i> are exported to KBL.	Geometry

16.3.11 Product line approach

Issue ID	Resolution	Category
17938288931069106	Performance of switching between variants is improved.	Product line approach

16.3.12 Functional safety

Issue ID	Resolution	Category
17938288856760000	Hazardous events can be deleted.	Functional safety

16.3.13 Test engineering and test management

Issue ID	Resolution	Category
17938288763029243	The <i>Test Execution Increment</i> is correctly shown on the Test Tasks property page.	Test engineering and test management
17938288839682647	An error in the "CalculateAggregatedVerdict" metric was fixed.	Test engineering and test management

16.3.14 Rules

Issue ID	Resolution	Category
17938288751159243	The Setting property page can be opened for rule objects of the <i>RHS</i> .	Rules

16.3.15 Metrics

Issue ID	Resolution	Category
17938288930228454	The metric debugger can be started again.	Metrics

16.3.16 Collaboration

Issue ID	Resolution	Category
17938288630149197	Scopes are now correctly displayed in the scope definition perspective.	Collaboration
17938288468657721	After editing a server project, the client cache is deleted. The currently opened project can no longer be edited but has to be closed first.	Collaboration
17938288762749207	Deleting is possible after a previous delete action failed, e.g. because of missing locks.	Collaboration
17938289019979051	The model update works correctly in the rule model.	Collaboration
17938288962609129	During replace with a different version, associations are correctly preserved.	Collaboration
17938287988449180	An error has been fixed that occurred when repeatedly performing the Undo operation.	Collaboration
17938288667199224	The PREEvision server application works on Windows Server 2016.	Collaboration

16.3.17 Administration

Issue ID	Resolution	Category
17938288855879822	After performing a factory reset, commit is possible again.	Administration
17938288957709824	Performance of the factory reset has been improved. After a factory reset, online checks are only executed once. <i>Java based Consistency Rules</i> without a proxy in the E/E model are no longer executed.	Administration

16.3.18 Migration

Issue ID	Resolution	Category
17938288999129129	During Migration from PREEvision 8.0.x to 8.5.x, <i>PhysicalValuesGroup</i> and <i>PhysicalValues</i> artifacts are considered.	Migration

17 PREEvision 8.5 SP2

This chapter contains the following information:

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17.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.2
PREEvision license server	2.0.6
PREEvision database server	8.5.1.04
PREEvision application server	8.5.2

Documentation

Manual	Version number
PREEvision manual	8.5.2
PREEvision operating manual	8.5.2
PREEvision system requirements	8.5.1

17.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Application server parameters

The recommended startup parameters of the Apache Tomcat server have been changed. For details, refer to the PREEvision operating manual

Example: Java options for the JVM

```
-XX:+UseParallelGC
-XX:+DisableExplicitGC
-Xverify:none
-XX:ReservedCodeCacheSize=1024m
-XX:StringTableSize=1500007
-XX:+UseCodeCacheFlushing
```

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

The following table shows compatible client, server application and database server script version for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version
8.5.0	8.5.0	8.5.0.12
8.5.1	8.5.1	8.5.1.04
8.5.2	8.5.2	8.5.1.04

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

17.3 Fixed issues

Fixed issues in PREEvision 8.5 SP2

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

Further information

- > Common
- > Diagrams
- > Tables
- > Requirements
- > AUTOSAR
- > Communication
- > Hardware architecture
- > Product line approach
- > Functional safety
- > Test engineering and test management
- > Metrics
- > Collaboration
- > Administration
- > Migration

17.3.1 Common

Issue ID	Resolution	Category
17938288661482647	<i>Application Reference Type</i> can now be created via the New context menu.	Common
17938288468590455	In the Property View , a tooltip now provides further information if a drop-down list is disabled because the maximum number of entries is exceeded.	Common
17938288665739129	During the export of the E/E model, branch names that contains special characters (<>&") are now correctly handled so that the exported model can be opened and imported again.	Common
17938288665740241	Default marker are no longer incorrectly shown if the attribute has not set a default value.	Common

17.3.2 Diagrams

Issue ID	Resolution	Category
17938288636519051	Missing exceptions are added to highlight that <i>Title Block</i> figures are out-of-grid.	Diagrams
17938288640459051	Figure feedback is now shown correctly on move actions in diagrams.	Diagrams

Issue ID	Resolution	Category
17938288680879180	Corrected wrong behavior that prevented inserting text elements in diagrams which are not locked.	Diagrams

17.3.3 Tables

Issue ID	Resolution	Category
17938288631629197	Fixed the wrong position of the LibreOffice cell editor in the case that a table is shown in an own window and is detached from the main application.	Tables
17938287480939106	Label providers are deregistered when a table is disposed.	Tables
17938288646102647	The Open With context menu entry is now available in table editors used in the explorer.	Tables
17938287893039106	When generic attributes are displayed in a table as result of a model query or metric, they can be edited like custom attribute values.	Tables
17938288663012647	When opening a table, errors are no longer displayed for missing icons in table cells.	Tables
17938288630119051	The check for minimum and maximum values in table cells is now only executed if minimum and maximum are different.	Tables
17938288666399823	Drag and drop to a table cell is correctly interpreted for cells which do not contain artifacts.	Tables
17938288102962644	Table action buttons in the toolbar are now sorted by the Priority of the associated metrics. If several actions have the same priority, then they are sorted by the metric name instead.	Tables

17.3.4 Requirements

Issue ID	Resolution	Category
17938288424489207	ReqIF export: The „Propagated Artifacts“ button in the ReqIF export wizard now displays the result on first click.	Requirements
17938288645812644	ReqIF import: An invalid operation error was fixed, which could occur using the ReqIF import in 3-tier environments.	Requirements
17938288649052697	ReqIF import: Commit errors because of duplicate UUIDs no longer occur when using the ReqIF import in 3-tier environments.	Requirements

Issue ID	Resolution	Category
17938288661959207, 17938288646558454	ReqIF import: PNGs as embedded objects in XHTML are imported correctly.	Requirements
17938288661969207	ReqIF export: The export wizard now displays the propagated artifacts.	Requirements
17938288666699207	ReqIF export: Path and file name are taken over correctly.	Requirements
17938288674919207	IDs are now adopted when moving requirements up and down.	Requirements
17938288751239207	Lock errors during ReqIF import have been resolved.	Requirements

17.3.5 AUTOSAR

Issue ID	Resolution	Category
17938288665009102	AUTOSAR 4 import and export: Ambiguous <i>Sender Receiver To Signal Group Mappings (System Signal contained in more than one System Signal Group and mapped in the context of more than one System Signal Group)</i> are now imported and exported correctly.	AUTOSAR
17938288105139129	AUTOSAR export: The AUTOSAR XML is always written with the same order.	AUTOSAR
17938288142020455	AUTOSAR 4 export: Restricted the AUTOSAR 4 export to only consider artifacts which depict an ECU Instance in AUTOSAR (<i>ECUs, Sensors, Actuators, ActuatorSensors</i>) and enabled the <code>ECU_COMM_EXTRACT</code> for <i>Actuators/Sensors/ActuatorSensors</i> as well.	AUTOSAR
17938288501188454	On AUTOSAR import with merging and without using a reference model no artifacts are deleted and virtual packages are correctly merged.	AUTOSAR

17.3.6 Communication

Issue ID	Resolution	Category
17938287277610455	Opaque byte order is displayed and handled like Intel in the Frame Layout View , except for arrows and msb/lbs bit/byte are not displayed.	Communication
17938288110382689	DBC import: <i>Attribute Definition Subsets</i> are merged by name.	Communication
17938287917640455	The Artifact Picker for the initial value of a parameter now lists the values of the input fields' drop-down list.	Communication

17.3.7 Hardware architecture

Issue ID	Resolution	Category
17938287922782709	Expand rules and reducing rules for KBL export are now handled correctly by the KBL export.	Hardware architecture
17938288032939180	The wiring connector of the wire pin is now displayed on the Pin Parameter property page.	Hardware architecture
17938288632479824	It is possible now to import KBL files with <code>ExternalReferences</code> to the EEA model with an Electric Designer license.	Hardware architecture
17938288636692647	<i>Schematic Pins</i> are now shown on the correct position within the <i>Schematic Diagram</i> .	Hardware architecture
17938288645279180	Within <i>Electric Circuit Diagrams</i> all <i>Schematic Pins</i> are offered to be shown/hidden via dialog, including pins contained in nested components.	Hardware architecture
17938288645689180	Deleting a <i>Section</i> within a <i>Component Diagram</i> no longer leads to a defect diagram layout. Components are no longer reordered and moved and connections are not routed anew.	Hardware architecture
17938288675349824	KBL export: During a variant sensitive export, the error message "Connector Type has no slots" will only be displayed if a <i>Connector Plug Type</i> has no slot defined in the active variant.	Hardware architecture
17938288675642709, 17938288741079182	KBL export: To correctly export KBL <code>Node.Ids</code> , the KBL <code>exporter.config</code> file contains appropriate configuration options to define whether the name or the ID of a <i>Branch-Off</i> , an <i>Inline Connector</i> or <i>Connector Location</i> will be exported as <code>Node.Id</code> .	Hardware architecture
17938288693632709	KBL export: To correctly export KBL <code>Wire_protection_occurrence.Ids</code> , the KBL <code>exporter.config</code> file contains appropriate configuration options to define whether the name or the ID of a <i>Topology Segment Interval</i> will be exported as <code>Wire_protection_occurrence.Id</code> .	Hardware architecture

17.3.8 Product line approach

Issue ID	Resolution	Category
17938288531232647	Replacing <i>Assets</i> is possible, also if <i>Assets</i> are connected to requires check-in artifacts via to-1-relations.	Product line approach

Issue ID	Resolution	Category
17938288670959051	The performance of variant selection dialog has been improved and the „No filter“ filter option has been removed.	Product line approach

17.3.9 Functional safety

Issue ID	Resolution	Category
17938288646929129	The factory reset flags for reports of the use cases functional safety and test data engineering have been set correctly.	Functional safety

17.3.10 Test engineering and test management

Issue ID	Resolution	Category
17938288670979243	In case the direct parent of the <i>Test Task</i> is not the <i>Test Execution Increment</i> , the <i>Test Execution Increment</i> is now also displayed on property page Navigation for <i>Customer Feature</i> or <i>Requirement</i> .	Test engineering and test management

17.3.11 Metrics

Issue ID	Resolution	Category
17938288677869822	Handling of special characters (e.g. Chinese) in metric source codes has been fixed.	Metrics

17.3.12 Collaboration

Issue ID	Resolution	Category
17938288559039051	A new option is available in the check-out dialog: Keep Reuses .	Collaboration
17938288593592644	Switching scopes works properly now. A synchronization problem with containers during unload has been solved.	Collaboration
17938288663489180	A check for null values is added and executed when adding an artifact to a many-to-many relation list.	Collaboration
17938288737262709	Improvements in check-out as branch mechanism for a reused artifact if no prior commit has been carried out.	Collaboration
17938288739399106	An authentication problem during login with a selected scope has been fixed.	Collaboration

17.3.13 Administration

Issue ID	Resolution	Category
17938288646179224	Licence and settings handling on client start-up has been improved. The startup script: <ul style="list-style-type: none">> faster checks required folders in the network share> provides a GUI to give better feedback to the user that the application gets started> provides enhanced log entries in the <code>PREEvisionStartup.log</code>	Administration
17938288632429051	<i>Resources</i> without login are not shown in User Editor table.	Administration

17.3.14 Migration

Issue ID	Resolution	Category
17938288594339106	Inconsistencies of a migrated model are correctly reported. Detailed information about detected inconsistencies are written to the log file.	Migration

18 PREEvision 8.5 SP1

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18.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.1
PREEvision license server	2.0.6
PREEvision database server	8.5.1.04
PREEvision application server	8.5.1

Documentation

Manual	Version number
PREEvision manual	8.5.1
PREEvision operating manual	8.5.1
PREEvision system requirements	8.5.1

18.2 Installation and compatibility information



Reference: For detailed information about the installation and compatibility of PREEvision 8.5 in general, refer to [PREEvision 8.5 - Installation and compatibility information](#).

Application server parameters

For the startup of the Apache Tomcat server, the following additional parameter must be specified:

```
-XX:+UseParallelGC
```

Example: Java options for the JVM

```
-Xss256k
-Xms10G
-Xmx110G
-Xverify:none
-XX:+DisableExplicitGC
-XX:+UseParallelGC
-XX:ReservedCodeCacheSize=512m
-XX:+UseCodeCacheFlushing
```

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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.

The following table shows compatible client, server application and database server script version for specific PREEvision 8.5 versions:

Client version	Server application version	Database server script version
8.5.0	8.5.0	8.5.0.12
8.5.1	8.5.1	8.5.1.04

For an update of an existing 3-tier environment, all components with a changed version number must be updated, which may include the:

- > PREEvision client
- > PREEvision database server script
- > PREEvision application on the application server



Reference: For detailed instructions on how to update a 3-tier environment, refer to the PREEvision operating manual.

18.3 Changes

- Changed class name in object configuration** Within the object configuration, the enumeration `aquintos.gdf.objectconfiguration.InternalLabelPosition` has been renamed to `aquintos.gdf.objectconfiguration.InternalNodePosition`.
If the class name is contained in an object configuration file that is manually migrated, the class name has to be manually replaced during migration.
- Moving elements in diagrams** There are two possibilities to move elements in a diagram:
- > Move via drag and drop automatically reroutes the connections
 - > Move via <SHIFT> + drag and drop moves the first waypoint only and keeps the routing of the remaining connection

18.4 Fixed issues

Fixed issues in PREEvision 8.5 SP1

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

Further information

- > Common
- > Diagrams
- > Tables
- > Requirements
- > Logical function architecture
- > Software architecture
- > AUTOSAR
- > Communication
- > Hardware architecture
- > Geometry
- > Product line approach
- > Rules
- > Metrics
- > Reports
- > Collaboration
- > Administration
- > License

18.4.1 Common

Issue ID	Resolution	Category
1794232972716	The selection behavior of the auto-completion drop-down list for specifying a class in the search dialog has been improved.	Common
17938288028798454	The PREEvision manual has been updated. The documentation of configuring filters for the comparison now regards that filter settings are automatically stored in the <i>Filter Configuration File</i> of the <i>Comparison Configuration</i> .	Common
17938288138152985	The compact representation of the Change History is scrollable, now.	Common
17938285498300452	Indirectly referenced custom attributes are correctly shown in the display name of an artifact.	Common

18.4.2 Diagrams

Issue ID	Resolution	Category
17938287922759205	Mappings are only displayed once in a mapping box within a diagram. In the Select Mappings dialog, the [OK] button is correctly enabled if the Select all option was activated.	Diagrams
17938287780582647	Populate operations in narrow sections with overlapping figures connect all newly added figures again.	Diagrams
17938287780322985	Added faster refresh handling for default label configurations in diagrams.	Diagrams
17938288527849051	Updating legend information on opening diagrams no longer causes lost-and-found artifacts.	Diagrams

18.4.3 Tables

Issue ID	Resolution	Category
1793906467721	The Excel export of tables works again with colored cells.	Tables
17938288122109013	Column actions in table editors are available in temporary contexts.	Tables
17938287832810452	Table cells that contain formatted text are also greyed-out when the artifact is not part of the active variant.	Tables
17938287559119012	Errors that occur when an editor is opened (e.g. table editor) are no longer ignored and displayed again.	Tables
17938287880706486	Full-featured custom attributes with <i>Integer</i> data type can be edited in tables.	Tables
17938288102688454	Tables displayed in the Portlet View correctly show metric-based filter dialogs, now.	Tables
17938287538089012	The Hide icon for X property that is available in the column configuration works now properly even if the table contains hidden columns.	Tables
17938287538099012	The Show/Hide All buttons in the Add/Remove/Reorder Columns dialog of a table work correctly again.	Tables
17938288075042644	No error message is displayed when copying cell content via drag and drop and a metric-based action is configured for the cell.	Tables

18.4.4 Requirements

Issue ID	Resolution	Category
17938287832819104	ReqIF export: ReqIF files with allowed special character in the file name can be exported.	Requirements
17938287906079104	ReqIF export: The <div> tag is used in XHTML instead of the <p> tag.	Requirements
17938287906089104	ReqIF export: The attribute class is not exported in XHTML tags.	Requirements
17938287906109104	ReqIF export: Exported ReqIF files contain the correct schema location, now.	Requirements
17938287906119104	ReqIF export: The artifact name and description can be exported to any attribute value without duplication based on the ReqIF export configuration.	Requirements
17938288096319104	ReqIF import: The attribute values are not imported duplicated as name/description and custom attribute values.	Requirements
17938287531378454	During import of <i>Requirements</i> and <i>Customer Features (Product Goals Import from Excel)</i> the artifact names are updated, if the imported Excel file has been modified.	Requirements
17938285412307721	<i>Use Case Diagrams</i> correctly prohibit the use of condition artifacts, now.	Requirements
17938287916209207	In some special cases, the ReqIF import could not be executed. The error has been fixed. LibreOffice is now closed if closing documents takes too long.	Requirements
17938288266789207	ReqIF export with <i>Requirements</i> without attributes works, now.	Requirements
17938288266869207	ReqIF export: The entries <code>ArtifactName</code> and <code>ArtifactDescription</code> in the export configuration file works.	Requirements

18.4.5 Logical function architecture

Issue ID	Resolution	Category
17943389758454	The Mapping property page is now shown in the Property View of <i>Activity Chains</i> .	Logical function architecture
17938285640019129	Fixed scratchpad freeze during new object generation in a <i>Logical Architecture Diagram</i> .	Logical function architecture
17938287834160452	In <i>Logical Architecture Diagrams</i> , the feedback of placing ports via drag and drop has been improved. Ports correctly show their drop feedback on grid intersections and are placed at the feedback position. This applies to ports created via palette and ports dropped from the Model View .	Logical function architecture

Issue ID	Resolution	Category
17938287834220452	Ports in the logical architecture that are created as a result of a create assembly connector operation are now placed on the nearest grid intersection. Furthermore, ports that are already connected to an assembly connector can be placed on any valid grid intersection.	Logical function architecture

18.4.6 Software architecture

Issue ID	Resolution	Category
1792481932791	For <i>Abstract SW Instance</i> and <i>Abstract SW Port</i> , the Connected SW Components property page has been enhanced. Missing columns of tables have been added.	Software architecture
17938287895419129	Enhancements are now available in the Property View for <i>Read NVData</i> , <i>Written NV Data</i> , and <i>Written Read Nv Data</i> .	Software architecture
17938287919430455	<i>Written Read Nv Data</i> and the <i>Role Based Port Assignment</i> can now be created via New context menu of the <i>Nv Block Descriptor</i> .	Software architecture
17938288103032791	<i>Composition Type</i> inherits from <i>Parameter Group Owner</i> , now.	Software architecture
17938288263902791	When changing the type of an <i>SW Component Port</i> , the type of the contained <i>Port Communication Specifications</i> is changed, too.	Software architecture
17938287399149129	For the <i>Mode Switch Event</i> , a <i>Port Prototype</i> can be selected on the Event Configuration property page.	Software architecture

18.4.7 AUTOSAR

Issue ID	Resolution	Category
17938287806162791	AUTOSAR export: The class cast exception that occurred during the AUTOSAR ECU extract and system extract has been fixed.	AUTOSAR
17938287234492791	AUTOSAR export: Modified propagation for the AUTOSAR system description. <i>ECUs</i> which are not modeled as <i>Gateways</i> and are not mapped to a software component but are involved in the communication of the system, are propagated.	AUTOSAR
17938287602289158	AUTOSAR export: The AUTOSAR ECU extract correctly creates PDU ports.	AUTOSAR

Issue ID	Resolution	Category
17938287628332689	AUTOSAR import: An AUTOSAR import of files contained in a folder (option From Folder) catches exceptions concerning AUTOSAR <atpSplittable> violation.	AUTOSAR
17938287781249158	AUTOSAR import / export: For AUTOSAR 3, import rules have been added for the generation of a <i>Network Management Configuration</i> inheriting all network management attributes. For AUTOSAR 3, export rules have been added for the export of network management attributes for <i>CAN Nm Clusters</i> and <i>Nm PDUs</i> .	AUTOSAR
17938287781822758	AUTOSAR export: Export of <code>COMPU-NUMERATOR</code> only works properly if Factor and Offset of <i>Computation Methods</i> both have the value <code>-not set-</code> .	AUTOSAR
17938287880550455	AUTOSAR export: The export does no longer create <i>I-Signal-I-PDU-Groups</i> for PDUs routed over a <i>Gateway</i> .	AUTOSAR
17938287883929129	AUTOSAR export: When exporting an AUTOSAR system description the problem of creating <code>ORPHAN</code> packages has been fixed when exporting with the standard AUTOSAR package structure.	AUTOSAR
17938287884039158	AUTOSAR export: When exporting an AUTOSAR cluster extract the problem of creating an <code>ORPHAN</code> structure has been fixed.	AUTOSAR
17938287906940455	AUTOSAR import: During AUTOSAR import the <i>Partial Network Cluster</i> of the <i>Root Composition</i> is handled correctly.	AUTOSAR
17938287916539822, 17938287916549822	AUTOSAR export: Errors that occurred during an AUTOSAR export of artifacts that are not contained in the active variant have been fixed.	AUTOSAR
17938287916559822	AUTOSAR export: The error that occurred during an AUTOSAR custom export of artifacts which are not contained in the active variant has been fixed.	AUTOSAR
17938288025909822	AUTOSAR export: AUTOSAR variant export considers the reference from <i>Bus Connector</i> to <i>Port Configuration</i> and exports the reference from <code>COMMUNICATION-CONNECTOR</code> to <code>COMMUNICATION-CONTROLLER</code> .	AUTOSAR
17938288156802791	The AUTOSAR export considers End To End Profile.	AUTOSAR
17938287589099102	AUTOSAR 4 Export: The functionality of synthesizing (l) <i>Signals</i> functionality (used for modelling without <i>System Signals</i>) has been extended to handle associated <i>End to</i>	AUTOSAR

Issue ID	Resolution	Category
	<i>End Protection Signal IPDUs</i> correctly. The export of mappings between <i>Nm PDUs</i> and <i>Signals/Signal Groups</i> has been fixed.	
17938287880509102	AUTOSAR 4 import and export: The attribute category owned by <i>EndToEndDescriptions</i> is imported as category of <i>End to End Profiles</i> and the attribute category of <i>End to End Profiles</i> is exported as category of <i>End to End Descriptions</i> .	AUTOSAR
17938287520279129	Flattened ECU extract exports assemblies with context component.	AUTOSAR
17938288099389158	AUTOSAR 3 export: Offset and factor of computation methods are no longer duplicated.	AUTOSAR
17938287883929129	AUTOSAR export: When exporting an AUTOSAR system description with the standard package structure, the problem of creating <i>ORPHAN</i> packages has been fixed.	AUTOSAR
17938288120300455	AUTOSAR export: Delegation ports are exported correctly in the ECU system extract.	AUTOSAR
17938287585579158	On SWC update, interfaces and type packages are only checked out if needed.	AUTOSAR
17938287602532791	AUTOSAR import: <i>Ethernet Connector Types</i> for <i>Bus Connectors</i> used in the context of Ethernet are imported.	AUTOSAR
17938287835292689	On SWC update the default marker attribute is also considered for comparing artifacts.	AUTOSAR
17938288027169129	AUTOSAR import: <i>Constant Specifications</i> that are generated during the AUTOSAR import and that are used to set initial values are merged by the constant value.	AUTOSAR
17938288027582791	AUTOSAR import: Boundary artifacts are considered when updating SWCs. That avoids creating new artifacts when they already exist in the model.	AUTOSAR
17938288420989129	AUTOSAR export: The ECU extract no longer takes the complete <i>Product Line</i> hierarchy into account if the addressing methods are placed in different <i>Product Lines</i> .	AUTOSAR
17938288528082791	AUTOSAR 4 import: The <i>EEA Communication</i> artifact including a <i>Communication Package</i> is now imported even if the AUTOSAR model does not contain any <i>Bus Communication</i> artifacts, but only if it is necessary.	AUTOSAR

18.4.8 Communication

Issue ID	Resolution	Category
1794284488454	DBC import and export: The order of attribute definitions is correctly considered during DBC import and export. In PREEvision, the Show Order property on the attribute definition is used to define the order.	Communication
17938287782140455	It is now possible to create <i>Cube Literals</i> , <i>Curve Literals</i> , and <i>Map Literals</i> with the corresponding axis literals (<i>X Axis Literal</i> , <i>Y Axis Literal</i> , <i>Z Axis Literal</i>) via the New context menu of a <i>Constant Specification</i> .	Communication
17938287782160455	The Source/Target property page of a <i>COM:Data Type Mapping</i> contained in a <i>Sender Receiver To Signal Mapping</i> has been adapted. A content provider which filters the droppable elements and an operation which sets the correct implementation or application data type has been added.	Communication
17938287834350455	DBC export: For the DBC export of an active variant, <i>Attribute Definition</i> names are exported properly, now.	Communication
17938287916529822	DBC export: Default values of custom attributes of type <code>Boolean</code> are properly exported.	Communication
17938288419072689	DBC export: ID Format and V Frame Format attributes are correctly exported.	Communication
17938288122409213	LDF export: <i>ECUs</i> in <i>Components Composites</i> are considered in the LDF export.	Communication
17938286902238454	In the <i>Signal Definition Editor</i> , the type search considers the <i>Layout Packages</i> that are placed directly under a <i>Communication</i> .	Communication
17938287891432643	Ports under <i>ECU Interfaces</i> are now displayed correctly in the Model View .	Communication
17938288102819822	The drag and drop action to set a contained PDU in the <i>Container IPDU</i> works, now. The Artifact Picker shows suitable artifacts for the drag and drop action.	Communication
17938288156812791	<i>End to End Profiles</i> are now displayed in the Property View of the <i>End to End Protection Set</i> . If an <i>End to End Profile</i> exists, then the <i>End to End Protection Data ID</i> can be added.	Communication

18.4.9 Hardware architecture

Issue ID	Resolution	Category
17938287780282985	In <i>Wiring Diagrams</i> , connections with rectilinear routing only can be routed with fans. Connections with another routing are ignored.	Hardware architecture
17938287559139129	On the Connected Ends property page of the <i>Internal Schematic Connection</i> , the parent is shown in the Connected Ends table.	Hardware architecture
17938287832019183	Enable action to show link label boxes for <i>Sheet Connectors</i> when multiple <i>Sheet Connectors</i> are selected. It will only show boxes for those connectors they do not already have one.	Hardware architecture
17938286121649129	Within an <i>Electric Circuit Diagram</i> , the header connectors are not created anymore if this is not selected in the dialog for displaying headers and pins.	Hardware architecture
17938287831838220	The behavior in the <i>Network Diagram</i> has been corrected when displaying a component several times in a diagram (grey break line) although it is actually displayed only once.	Hardware architecture
17938288074669180	<i>Schematic Pins</i> in <i>Wiring Diagrams</i> are displayed correctly after moving.	Hardware architecture
17938287803662985	In <i>Wiring Diagrams</i> , the feedback of placing <i>Splices</i> via drag and drop has been improved. <i>Splices</i> correctly show their drop feedback on grid intersections and are placed at the shown position.	Hardware architecture
17938287988059180	The layout of the <i>Electric Circuit Diagram</i> is no longer changed when migrating to PREEvision 8.5.	Hardware architecture

18.4.10 Geometry

Issue ID	Resolution	Category
17938287807618226	Copy and paste as layout works when pasting "*" to "*" relations of one <i>Geometry Diagram</i> to another <i>Geometry Diagram</i> .	Geometry
17938287831639182	KBL import and export: The KBL import/export configuration files <code>importer.config</code> and <code>exporter.config</code> are now available in the default model.	Geometry
17938287886502658	It is now possible to disable/enable a z-axis part in <i>Geometry Diagrams</i> using auto-lock.	Geometry

Issue ID	Resolution	Category
17938287893077721	Splitted segments in a KBL file are imported separately.	Geometry
17938288032607721	<i>Geometry Diagram</i> creation based on 3D data has been corrected and improved. The oblique routing style is now used as standard and the installation spaces are now always enclosing their child components correctly.	Geometry

18.4.11 Product line approach

Issue ID	Resolution	Category
17938288030210452	The new meta class <i>Product Line Package Type</i> is available and can be assigned to <i>Product Line Packages</i> .	Product line approach
17938288500040452	On the General property page of the <i>Product Line Package</i> , the <i>Product Line Package Type</i> can be assigned.	Product line approach
17938288500050452	The Usage property page of the <i>Product Line Package Type</i> lists the <i>Product Line Packages</i> to which the type is assigned.	Product line approach
17938288122250452	The branch name is propagated to newly created children on auto-check-out.	Product line approach
17938288500030452	An icon has been added to the <i>Product Line Package Type</i> .	Product line approach
17938288522032709	Manual check-out of not reused <i>Assets</i> is possible.	Product line approach
17938288530308218	Translated labels are available in the <i>Property View</i> of the <i>Product Line Package Type</i> .	Product line approach
17938288531742709	The variant selection dialog, which can be opened via the status bar, opens again even if the model contains a large number of variant artifacts.	Product line approach

18.4.12 Rules

Issue ID	Resolution	Category
17943623107721	Rules are correctly compiled on synchronization. The directory for temporarily generated rules is defined by the project name for each project now. The directory is deleted when disconnecting from the project or deleting the project.	Rules
17938287832549162	Graphical creation of <i>FW Link Pairs</i> on locked LHS <i>Objects</i> is now allowed; participating artifacts are locked automatically.	Rules

Issue ID	Resolution	Category
17938288469062644	Update meta model is possible again in the rule model.	Rules
17938288532042644	<i>Java Based Consistency Rules</i> are no longer duplicate in the initial model.	Rules

18.4.13 Metrics

Issue ID	Resolution	Category
1793562052696	The following <i>Data Target Ports</i> have been removed from the <i>KBL Export Block</i> : <ul style="list-style-type: none"> > <code>expandRules</code> > <code>deleteExportArtefact</code> Instead, the <code>profile Data Target Port</code> has been added to the <i>KBL Export Block</i> to set an export profile (<i>Custom Attribute Profile</i>).	Metrics
1793903388157	The <i>Excel Export Block</i> exports small float numbers (with exponential formatting) as numeric value now and no longer as text.	Metrics
17938287892962644	Class files are cleared when the <i>Source Code</i> of a <i>Calculation Block</i> is renamed.	Metrics
17938287835097721	The execution of the <i>Update SW Component Block</i> is no longer blocked because of checked-in <i>AUTOSAR Attribute Definitions</i> . <i>Attribute Definitions</i> are not checked-out if no relevant changes are made.	Metrics

18.4.14 Reports

Issue ID	Resolution	Category
17938288099439012	By default, reports are saved in the workspace. This is the case, if no directory is specified in the Generate Report dialog, but only the file name is given.	Reports

18.4.15 Collaboration

Issue ID	Resolution	Category
17938287277379129	Client cache compatibility problems have been fixed.	Collaboration
17938287384222647	The project-specific client cache is deleted when deleting the project settings.	Collaboration
17938287413219012	Creating and removing particular artifacts in the same transaction no longer leads to an error.	Collaboration
17938287921927721	Fixed reading of model with invisible artifacts for given license.	Collaboration

Issue ID	Resolution	Category
17938287906059180	An error that occurred during the Undo All Locks operation has been fixed.	Collaboration
17938287906069180	A lock error that occurred because of a "Duplicate Element" problem has been fixed.	Collaboration
17938288169797721	A <code>ClassCastException</code> that caused a lock error has been fixed.	Collaboration

18.4.16 Administration

Issue ID	Resolution	Category
17938287988998454	In the chapter „Uploading licenses“ within the PREEvision Operating Manual, a hint has been added, that license users need to be reassigned when uploading an updated license file to the license server.	Administration
17938287371672645	The JMX Bean <code>ForceClientCacheDeletion</code> is now model-specific. Values set by this bean are evaluated on every update (if available).	Administration

18.4.17 License

Issue ID	Resolution	Category
1793015408454	PREEvision client caches are cleared when the used license is changed.	License

19 PREEvision 8.5

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19.1 Version numbers

Version numbers

Application	Version number
PREEvision client	8.5.0
PREEvision license server	2.0.6
PREEvision database server	8.5.0.12
PREEvision application server	8.5.0

Documentation

Manual	Version number
PREEvision manual	8.5.0
PREEvision operating manual	8.5.0
PREEvision system requirements	8.5.0

19.2 Installation and compatibility information



Reference: For detailed information about the installation, update and migration of PREEvision, refer to the PREEvision operating manual.

System requirements

The following system requirements are changed:

- > The 32-bit PREEvision client is no longer supported
- > Apache Tomcat 8.5 is now supported
- > Apache Tomcat 7 is no longer supported
- > WebSphere is no longer supported
- > Oracle 12.2.0.1 is now supported
- > Oracle 11.2.0.4 is no longer supported
- > The use of Oracle Multitenant Container Database (CDB) is now supported for PREEvision
- > Subversion 1.9 is now supported
- > Subversion 1.7 is no longer supported



Reference: For detailed information, refer to the PREEvision system requirements.

Compatibility

The PREEvision client, the database server and the PREEvision application on the application 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 application version	Database server script version
8.5.0	8.5.0	8.5.0.12

Licenses and license server

For PREEvision 8.5, new licenses are required.

PREEvision workspace and PREEvision.ini

Existing workspaces from earlier PREEvision versions cannot be reused for PREEvision 8.5. 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, in order to support Japanese in PREEvision, the Japanese operating system has to be installed. An English operating system with Japanese character set might not support all characters. As a consequence, this may result in displaying wrong characters in PREEvision.

19.3 New features

- Further information
- > Requirements engineering and requirements management
 - > AUTOSAR system and software design
 - > Wiring harness design
 - > Diagrams
 - > Tables
 - > Collaboration
 - > Metrics
 - > Usability
 - > Administration

19.3.1 Requirements engineering and requirements management

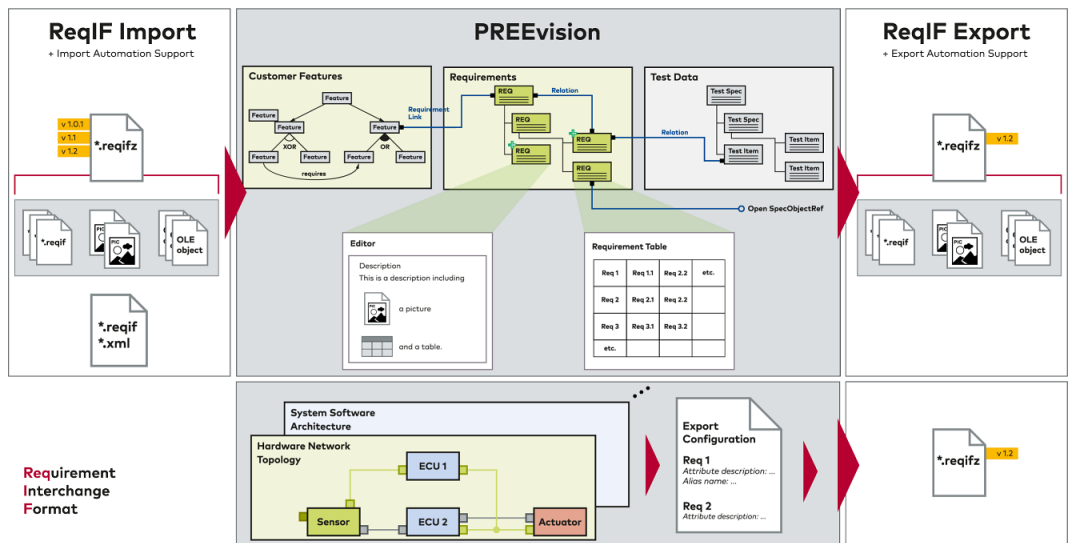
Support for ReqIF

PREEvision 8.5 supports the import and export of ReqIF files. In PREEvision, the ReqIF exchange format can not only be used for requirements. Via ReqIF also customer features and test data can be imported or exported.

Furthermore, PREEvision allows the export of any part of the model as ReqIF objects. In this case, PREEvision generates, e.g. for a given hardware network architecture, a ReqIF object for every node in the network and the connections in between and collects the relevant data in a ReqIF file. Thus suppliers can be provided with ReqIF exports that are directly based on the PREEvision model data.

ReqIF in PREEvision 8.5:

- > Support for ReqIF versions 1.2, 1.1 and 1.0.1
- > Export of any model parts as ReqIF objects
- > Import and export of single files or zipped files
- > Support of files including pictures, tables, rich text and OLE objects
- > Customized ReqIF exports based on temporary reports
- > Optional inclusion of tool-specific information using Tool Extensions
- > Customizing is possible using custom metric blocks for the ReqIF import and export



LibreOffice editor

The stand-alone LibreOffice editor can now be closed using the shortcut <CTRL> +<W>.

The shortcut for closing the inline LibreOffice editor can still be adjusted via **LibreOffice Table Editor Keys** preferences page.

All placeholders in a hierarchy can now be updated via the shortcut menu **Files and Formatted Text | Update Placeholder**, for example, before an export is performed. This function can also be called via metric.

Restricting formatting of formatted texts

With the help of the *Rich Text Template File*, it is now possible to remove direct formatting during paste into a formatted text field.

If the **Remove direct formatting on paste** option is active on the *Rich Text Template File*, then direct formatting, such as, bold or additional paragraph formats, is removed after a paste action. If formatting is removed, a message box is displayed to inform the user.

Formatting options for formatted text can also be restricted via roles and rights management.

Custom ID

A **Custom ID** of type string is now available for *Requirements*, *Customer Features*, *Tickets* and test artifacts. The **Custom ID** can be used, for example, in combination with defining unique attribute values via metrics.

For *Requirements* and *Customer Features* a unique ID is automatically set.

Tagging requirements for deletion

Requirements and *Customer Features* can be marked for deletion. Therefore, the **Tagged for deletion** option can be set on the **Analysis** property page. If the option is active, Requirements/Customer Features are highlighted

- > in the *Requirement Text Editor* with a red background color
- > in the **Model View** with an overlay icon (red cross)

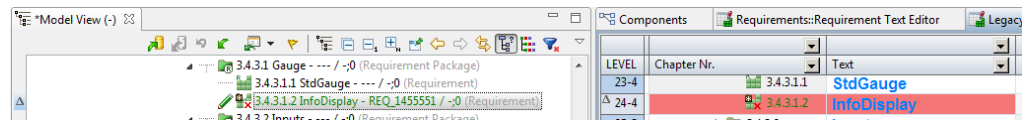
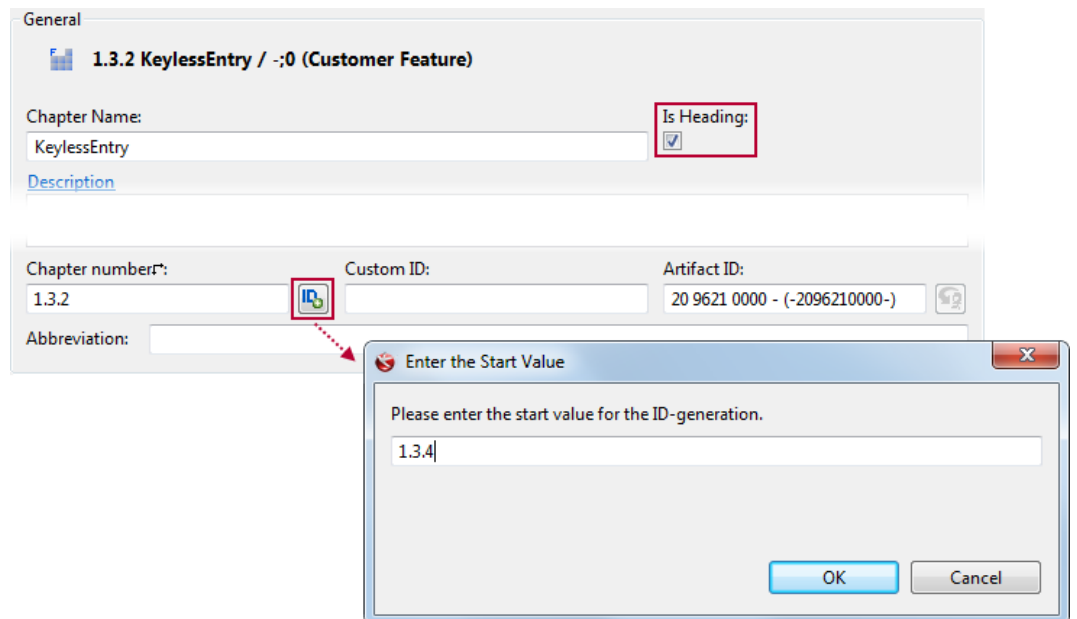


Fig. 1:

Headings

A distinction between requirements is now possible to define whether a requirement is used as heading or text-only. Therefore, for *Requirements* and *Customer Features*, the new **Is Heading** option can be set on the **General** property page.

By default, the option is inactive. If the option is activated, the requirement is a heading and thus gets a chapter number. Otherwise, no chapter number is set.



For headings, a button that changes the chapter number is available on the General property page. The button executes the corresponding refactoring.

Under a text requirement it is not possible to create another requirement.

Requirements perspective

A new requirements perspective is available that provides table editors and portlets supporting document-based working with requirements.

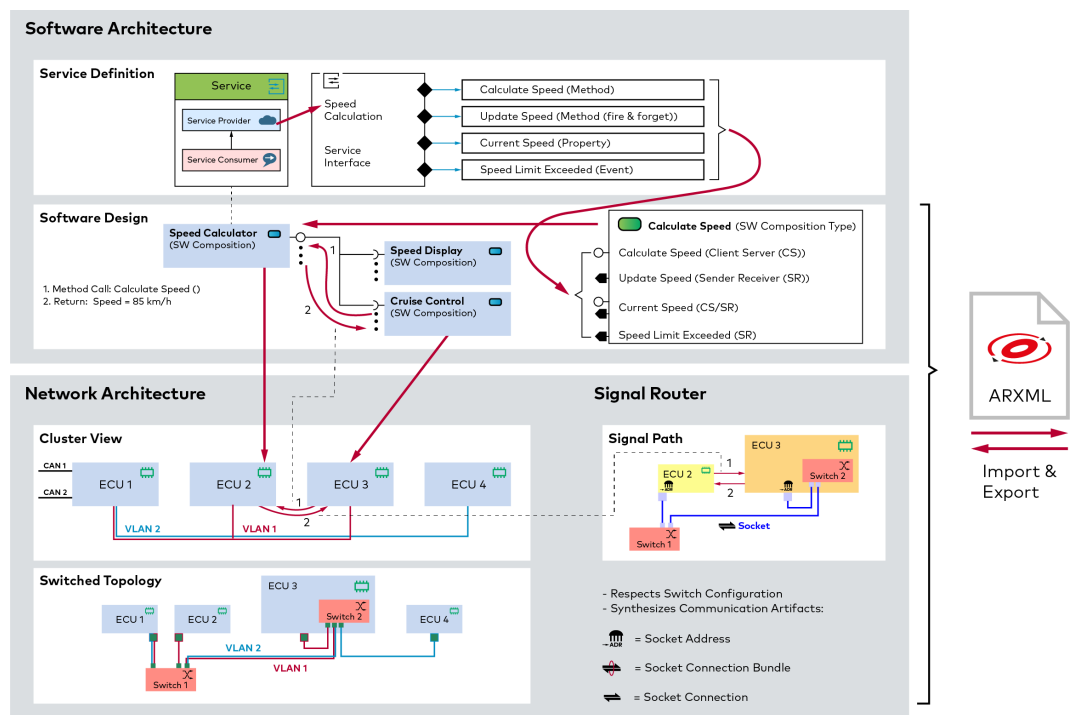
19.3.2 AUTOSAR system and software design

Support for Ethernet and SOA

The support of service oriented architectures (SOA) and Ethernet networks, introduced with PREEvision 8.0, is further extended. PREEvision 8.5 offers UML-based package diagrams and switch diagrams to graphically define service architectures and the switch configuration in Ethernet networks. Also, the modeling of Ethernet networks including its communication is refined and new editors are available.

New in PREEvision 8.5:

- > Package diagram
- > Switch diagram
- > New editors for Ethernet design



Package diagrams

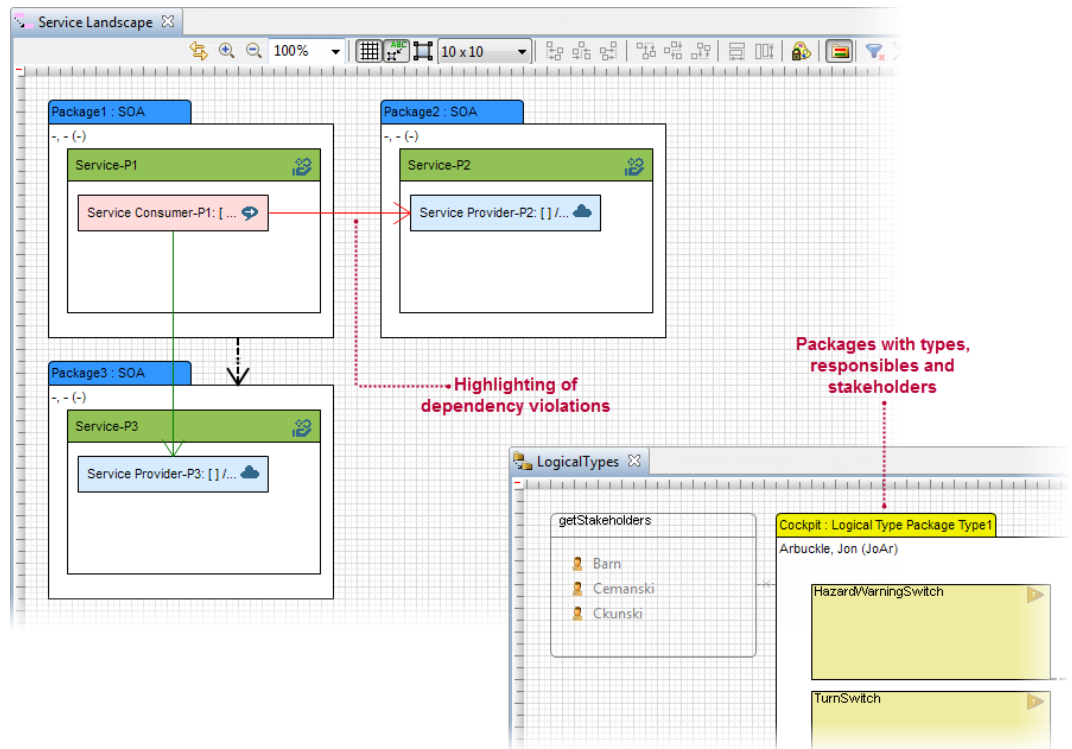
Package diagrams have been introduced to:

- > model layered service architectures, software architectures and logical function architectures
- > define and present dependencies between layers (packages) and their elements
- > analyze dependencies

Package diagrams can, for example, be used for modeling a service landscape and represent the dependencies of a service to other services in the landscape.



Note: As dependencies between packages are a PREEvision concept and not supported in AUTOSAR, the AUTOSAR import and export for dependencies is not available.



The following package diagrams are available in PREEvision:

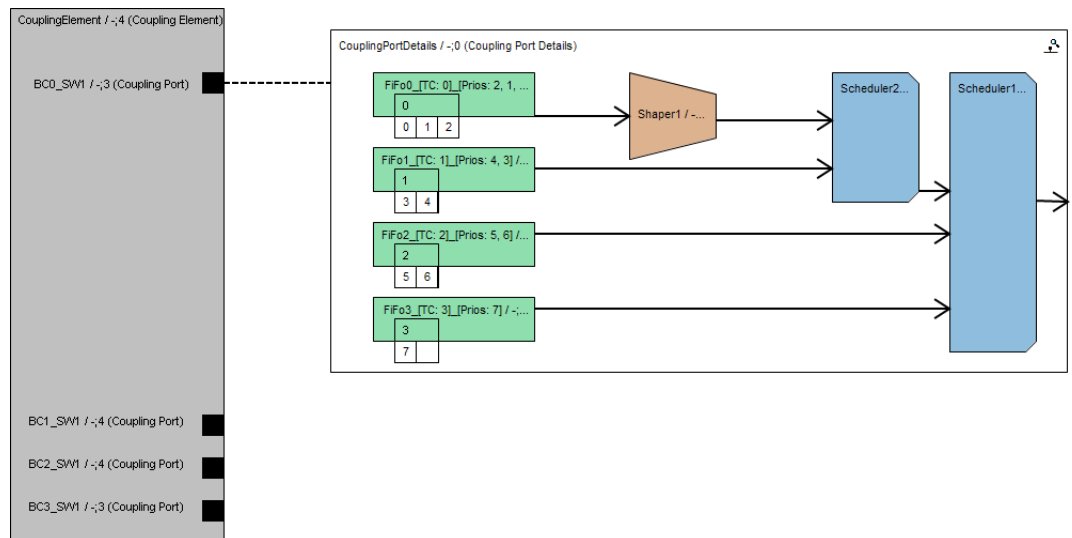
- > Logical package diagram
- > Software package diagram
- > Service diagram
- > Service oriented architecture package diagram

Quality of service diagram for the switch configuration

The inner quality of service (QoS) structure and configuration of a switch port can be defined with the new *QoS Switch Configuration Diagram*.

For each switch port configuration (*Coupling Port*), settings for FiFos (First in First Out Queues), shapers and schedulers can be set.

Traffic class and Ethernet priorities can be assigned to FiFos.



Extensions for the AUTOSAR import and export

The following extensions are introduced for the AUTOSAR import and export:

- > The AUTOSAR support for the software component template and the system template has been extended.
- > AUTOSAR imports and exports have been harmonized for better integration in the Vector AUTOSAR tool chain using the AUTOSAR interface (*.arxml).
- > The AUTOSAR support documentation and the AUTOSAR roundtrip documentation transparently document supported and non-supported areas of the AUTOSAR standard.
- > The AUTOSAR support quality is continuously monitored regarding formal support and roundtrip support.

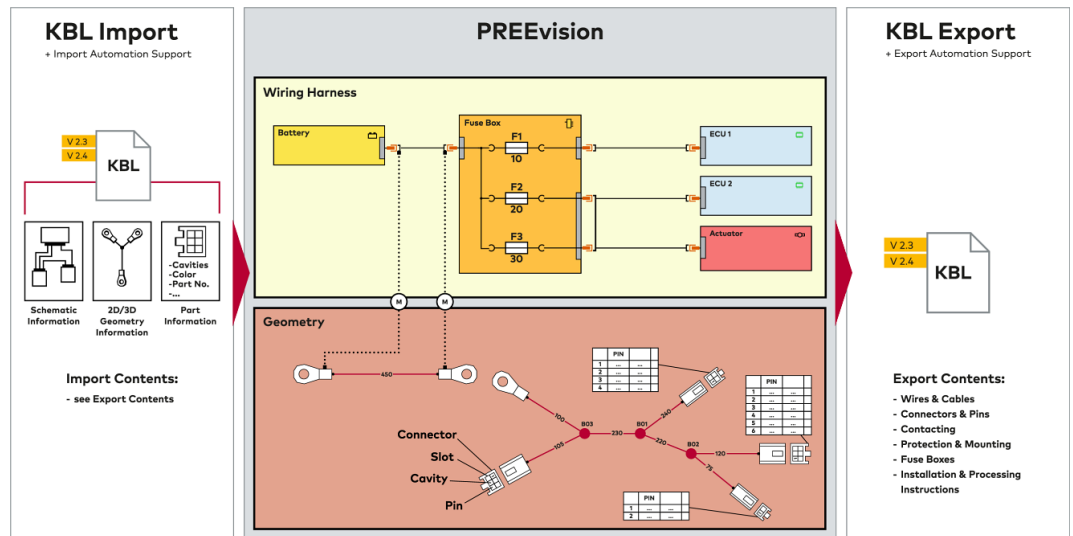
19.3.3 Wiring harness design

KBL 2.4 and wiring harness

PREEvision now supports KBL version 2.4 for the import and export of wiring harness data including fuse values. In previous versions of PREEvision only version 2.3 of the KBL format has been supported. Furthermore, PREEvision 8.5 brings refined modeling capacities and new contents for KBL files like slots and cavities, installation instruction or processing information.

Wiring Harness and KBL in PREEvision 8.5:

- > Support for KBL versions 2.3 and 2.4
- > New concepts like fuse values, slots and cavities
- > Support of installation instruction and processing information



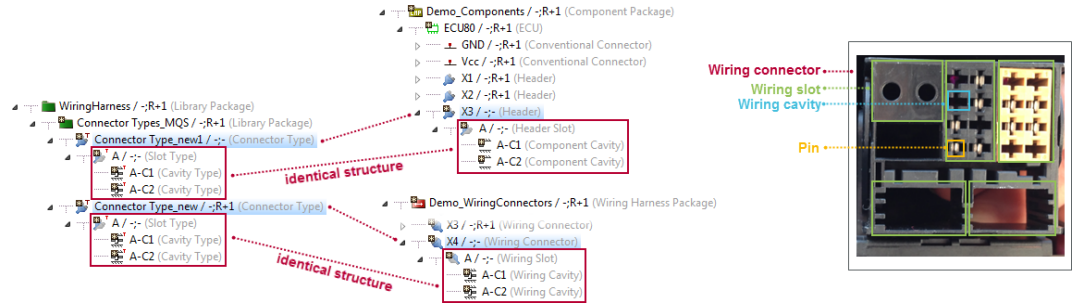
Slots and cavities for connectors

New modeling concepts are available to describe the detailed composition of a connector:

- > Slots of the connector
- > Cavities of the connector and assignment of cavities to slots

The connector type defines the composition of all instances.

These concepts are available for header and wiring connectors.

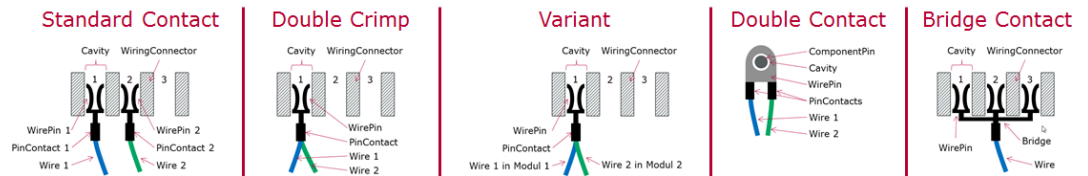
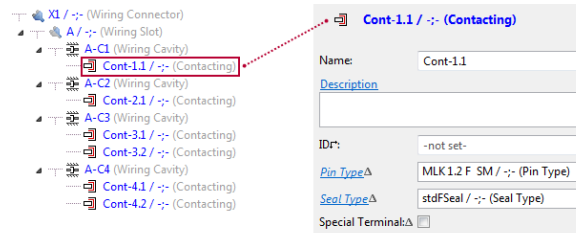


Contacting on wiring connectors

The definition of the properties of wiring pins is a late step in the wiring harness design process and must be possible without changing the component. The component is reused from the library and checked-in (finalized). Wire-sided types (pin type, seal type) have to be decided late when defining/finalizing the wiring harness.

With PREEvision 8.5, Contactings (definition of pins in cavities including pin properties) within the *Wiring Connector* are introduced:

- > Definition of the final types of *Contactings* during the wiring harness design process
- > Support of variant management for different *Contactings* and/or different wires
- > Modeling of multiple and different kinds of *Contactings*



Wiring harness specific variants

Specific classes within the variant management are introduced:

- > All new classes have wiring harness specific attributes
- > The definition of variants is simplified with regard to KBL import and export

Variant management with harness configurations as well as variant management with the help of module families is supported. The behavior is the same as a set for *Harness Configuration* and *Wiring Module*.

Wiring Harness Information

WH (with Harness Configuration) / -:- (Wiring Harness)

Car Classification Level 2: -not set-

Car Classification Level 3: -not set-

Car Classification Level 4: -not set-

Content: -not set-

Model Year: -not set-

Part Number*: -not set-

Company Name: -not set-

Predecessor Part Number: -not set-

Project Number: -not set-

Degree Of Maturity: -not set-

Copyright Note: -not set-

Product Line Management / -:- (Product Line Management)

- ↳ Variants / -:- (Variant Package)
 - ↳ WH (with Harness Configuration) / -:- (Wiring Harness)
 - ↳ Harness Configuration A / -:- (Harness Configuration)
 - ↳ Harness Configuration B / -:- (Harness Configuration)
 - ↳ Harness Configuration C / -:- (Harness Configuration)
 - ↳ Module 6 / -:- (Wiring Module)
 - ↳ Module 7 / -:- (Wiring Module)
 - ↳ Module 8 / -:- (Wiring Module)
 - ↳ Module 9 / -:- (Wiring Module)
 - ↳ WH (with Module Families) / -:- (Wiring Harness)
 - ↳ Module Family A / -:- (Wiring Module Family)
 - ↳ Module 1 / -:- (Wiring Module)
 - ↳ Module 2 / -:- (Wiring Module)
 - ↳ Module 3 / -:- (Wiring Module)
 - ↳ Module Family B / -:- (Wiring Module Family)
 - ↳ Module 4 / -:- (Wiring Module)
 - ↳ Module 5 / -:- (Wiring Module)

Wiring harness families

Specification of families and their members is possible now as well as the definition of applicable types and applicable families.

Example for *Pin Type Family* (other families are supported in the same way but with other attributes in the **Property View** table)

Wiring Types

- ↳ Wiring Families
 - ↳ Pin Type Family
- ↳ Topology Types
 - ↳ Seal Type Family
- ↳ Other Types
 - ↳ Connector Plug Type Family
- ↳ Use Case Types
 - ↳ Wire Type Family
- ↳ Prototypes
 - ↳ Cable Type Family

- ↳ WH Families / -:- (Library Package)
 - ↳ Cable Families / -:- (Library Package)
 - ↳ Connector Families / -:- (Library Package)
 - ↳ Pin Families / -:- (Library Package)
 - ↳ PF X / -:- (Pin Type Family)
 - ↳ PF Y / -:- (Pin Type Family)
 - ↳ Seal Families / -:- (Library Package)
 - ↳ Wire Families / -:- (Library Package)
- ↳ WH Types / -:- (Library Package)
 - ↳ Cable Types / -:- (Library Package)
 - ↳ Connector Types / -:- (Library Package)
 - ↳ Pin Types / -:- (Library Package)
 - ↳ PT1 / -:- (Pin Type)
 - ↳ PT2 / -:- (Pin Type)
 - ↳ PT3 / -:- (Pin Type)
 - ↳ PT4 / -:- (Pin Type)
 - ↳ PT5 / -:- (Pin Type)
 - ↳ Seal Types / -:- (Library Package)
 - ↳ Wire Types / -:- (Library Package)

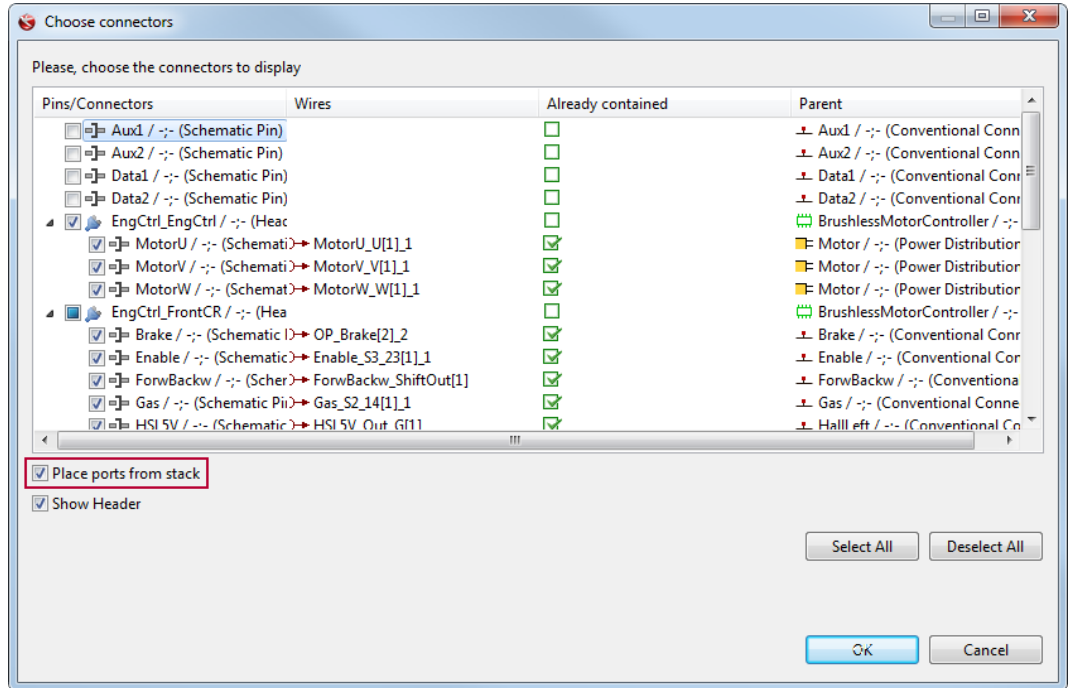
Family

PF X / -:- (Pin Type Family)

Index	Pin Types	Gender	Terminal Contact Type	Min Cross Sect...	Max Cross Sect...	Min Wire Outs...	Max Wire Outs...	Requires Seal	Part Number
0	PT1 / -:- (Pin Type)	Male	flat	0.2	0.5	0.6	0.8	true	456789
1	PT2 / -:- (Pin Type)	Male	flat	0.5	0.8	0.5	1	true	234567
2	PT3 / -:- (Pin Type)	Male	flat	0.8	1.3	0.8	1.5	true	987654

Show/hide headers and pins

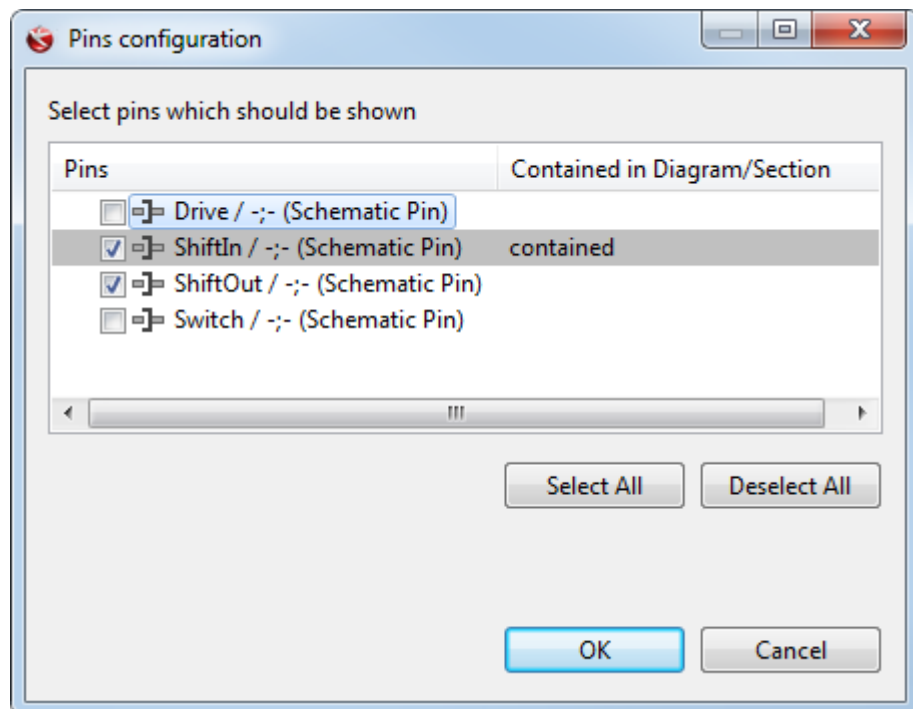
A new option (**Place ports from stack**) is available for the **Show/Hide Headers and Pins** action in *Wiring Diagrams*. If the option is enabled, ports are automatically placed into the slot layout instead of being placed on the stack. The figure is automatically extended.



Show/hide pins

In *Wiring Diagrams*, the **Show/Hide Pins** action is available on

- > *Wiring Harness Inline Connectors*
- > *Headers*
- > *Wiring Connectors*



19.3.4 Diagrams

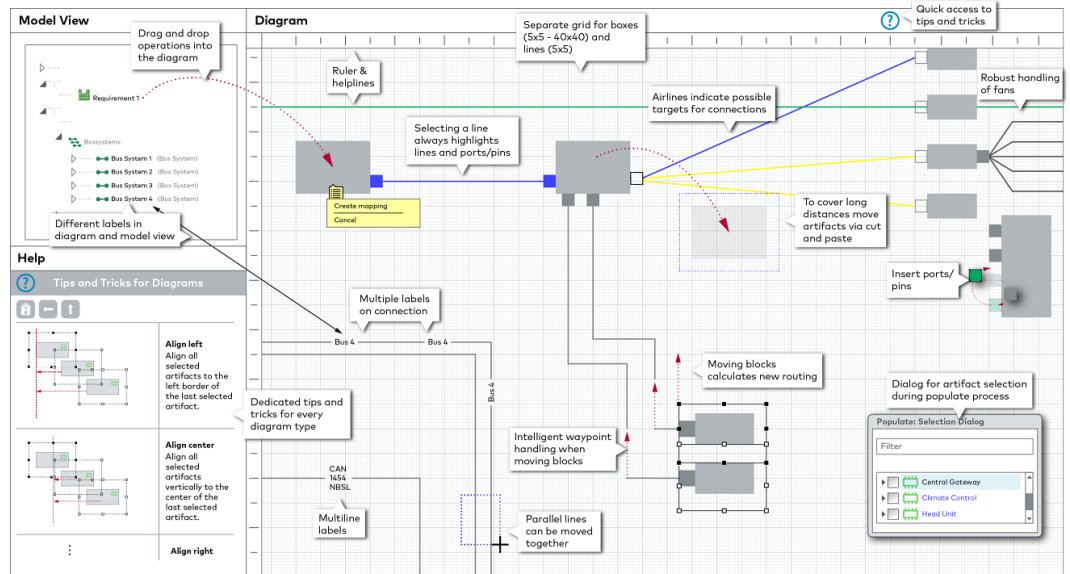
Diagram improvements

Diagrams as one of the main and most powerful editors in PREEvision have been significantly improved. The implementation of a new, robust line router is accompanied by many usability improvements. To name a few: Reference lines facilitate the positioning of

artifacts in the diagram and air lines help to draw connections. Also the possibilities to populate diagrams with existing artifacts have been improved. Many of the usability improvements were motivated by a qualitative survey amongst PREEvision users from various OEMs and suppliers.

New in PREEvision 8.5:

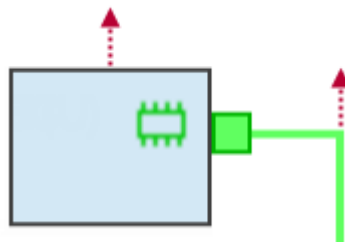
- > New line router
- > Reference lines and improved snap to grid
- > Air lines indicating possible targets for connections



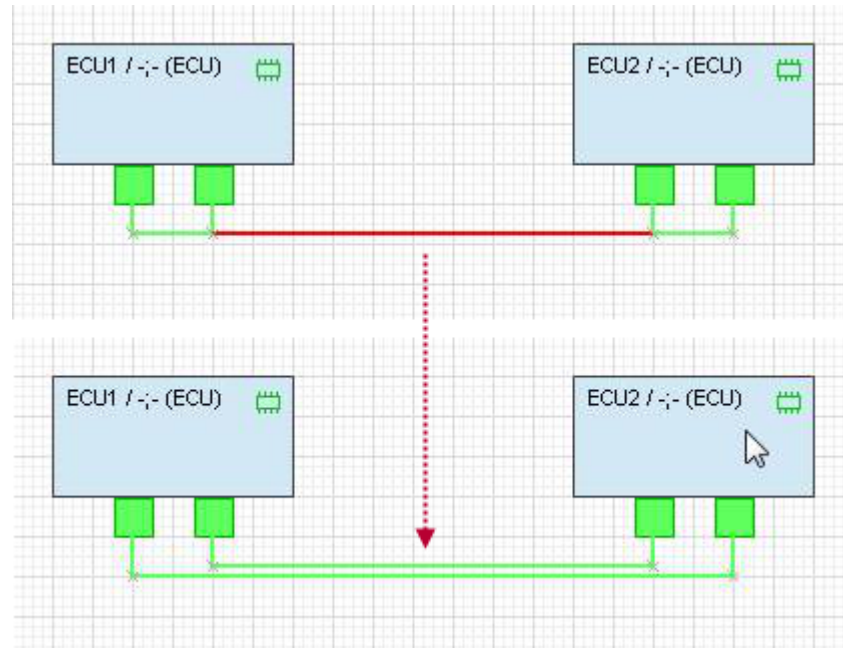
Rectilinear line routing

Rectilinear line routing has been improved:

- > Routing is activated on moving elements, drawing a line and deleting waypoints.
- > Routing results on **Populate** and **Show path** are improved.
- > Moving boxes and areas with <SHIFT> moves the first waypoint, too.



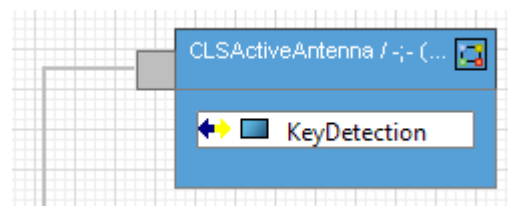
- > Redundant waypoints are automatically removed when editing.
- > Parallel line segments of connections are moved together.
- > Rectilinear routing avoids overlapping and crossing boxes.



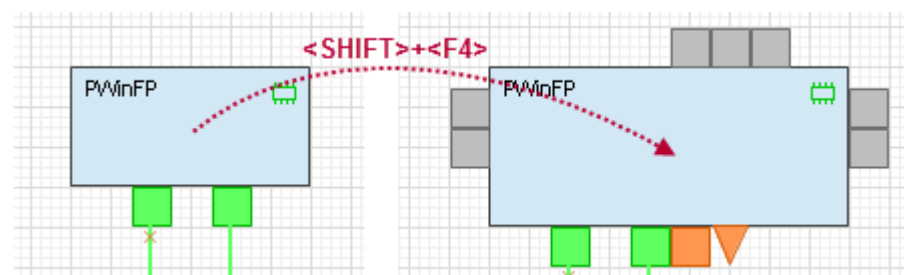
Fixed out-of-grid problems

Out-of-grid problems in diagrams have been fixed:

- > Lines always use a 5x5 grid.




- > Boxes use the predefined grid size or the grid size that is set by the user (5 x 5 to 40 x 40).
- > If *Connectors* are added to diagrams via **Show Connectors** (<SHIFT>+<F4>) or if they are moved via **Place from Stack** <F4>, the connectors are now placed in the given grid.

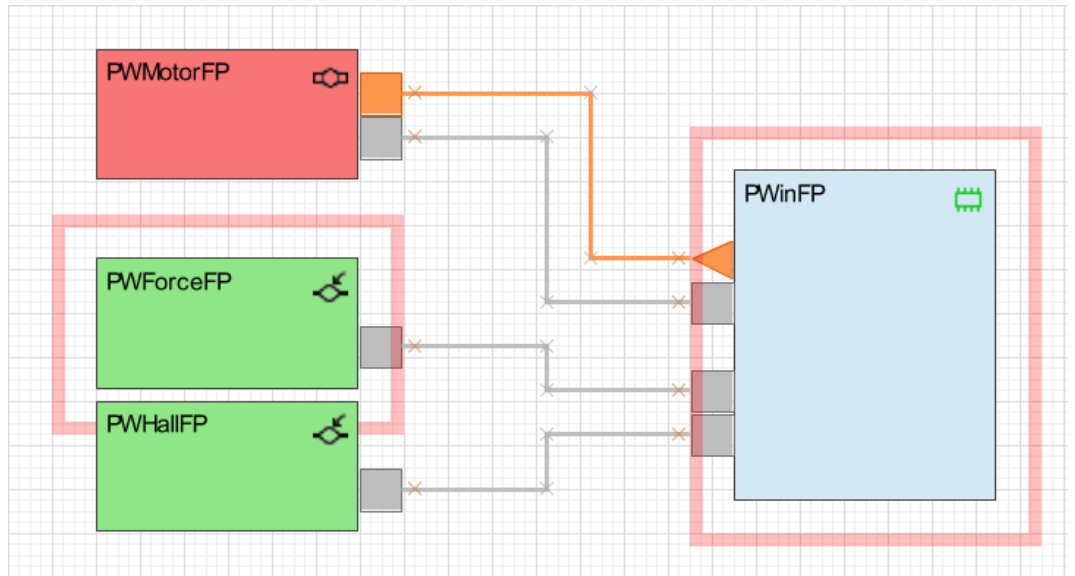


- > Moving elements with <ALT> regards the 5 x 5 grid.

Out of grid highlight

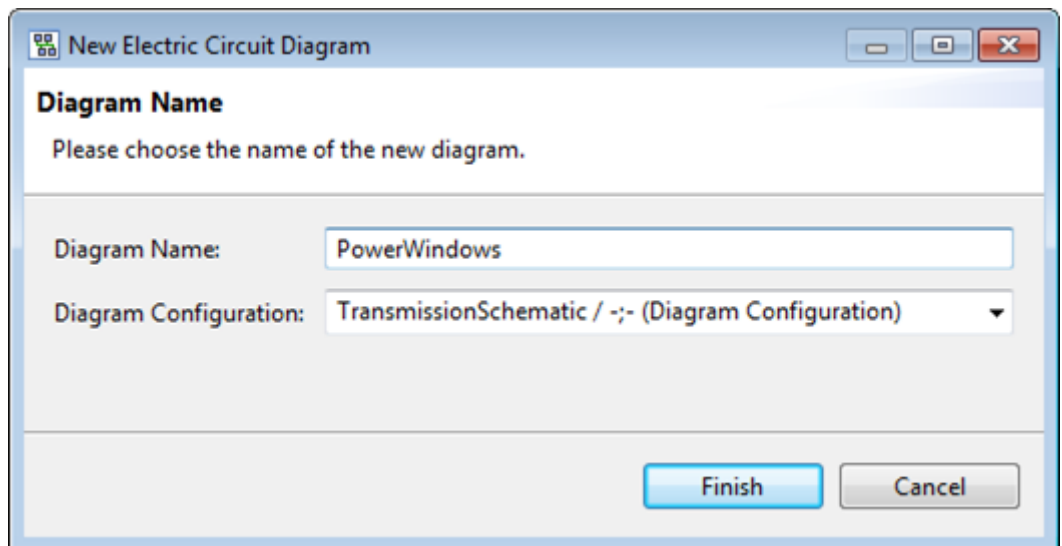
Artifacts that are out of grid can be highlighted with a red frame. To highlight the artifacts that are out of grid, activate the

 button in the diagram toolbar.

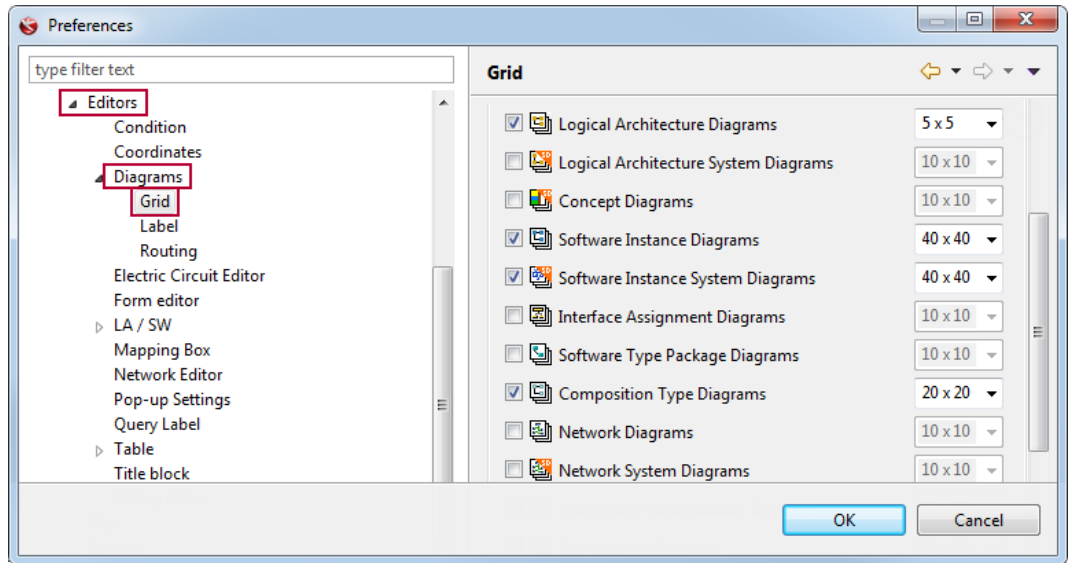


Predefining the grid size for new diagrams

The initial grid size for new diagrams can now be defined for each diagram type. When you create a diagram based on a **Diagram Configuration**, the diagram gets the initial grid size from the related *Master Diagram*.

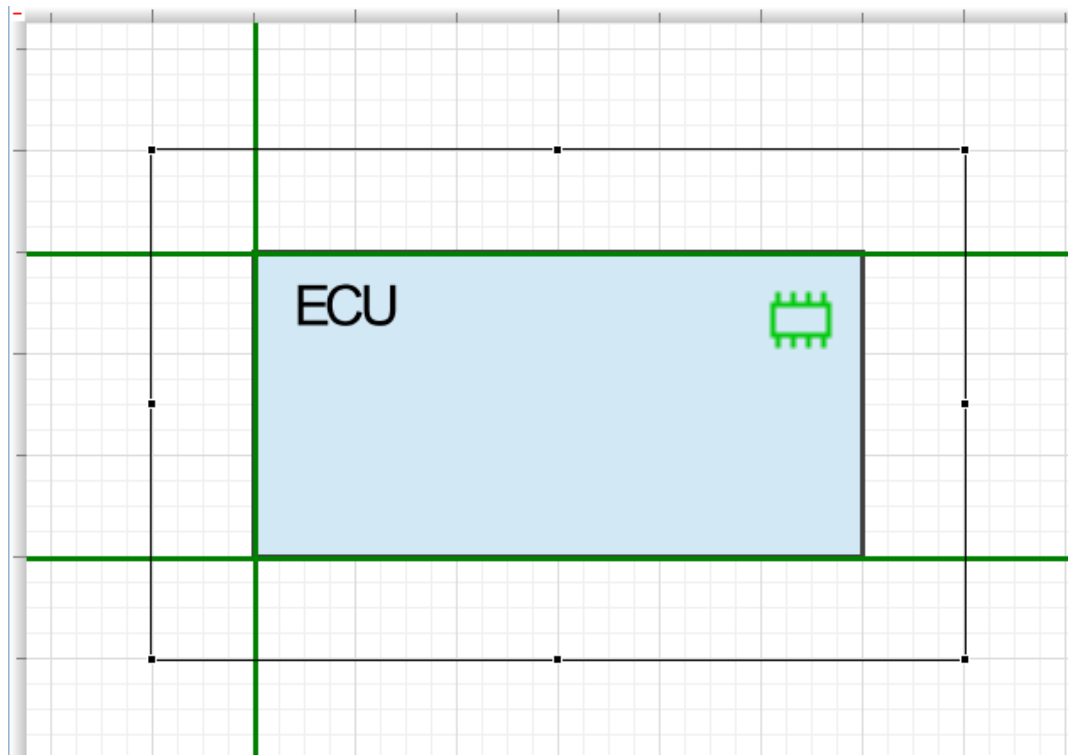


Via **Window | Preferences | Editors | Diagrams | Grid** you can define a default grid size. This setting is independent from the grid size defined in the *Master Diagram*.



Reference lines

Reference lines are introduced for better orientation and alignment of artifacts within diagrams.



- > Reference lines are ignored when printing the diagram.
- > Reference lines are displayed with the grid and are stored in the diagram.

Cut and paste for moving diagram elements

For moving diagram elements over long distances, cut and paste is now supported.

For example, proceed as follows:

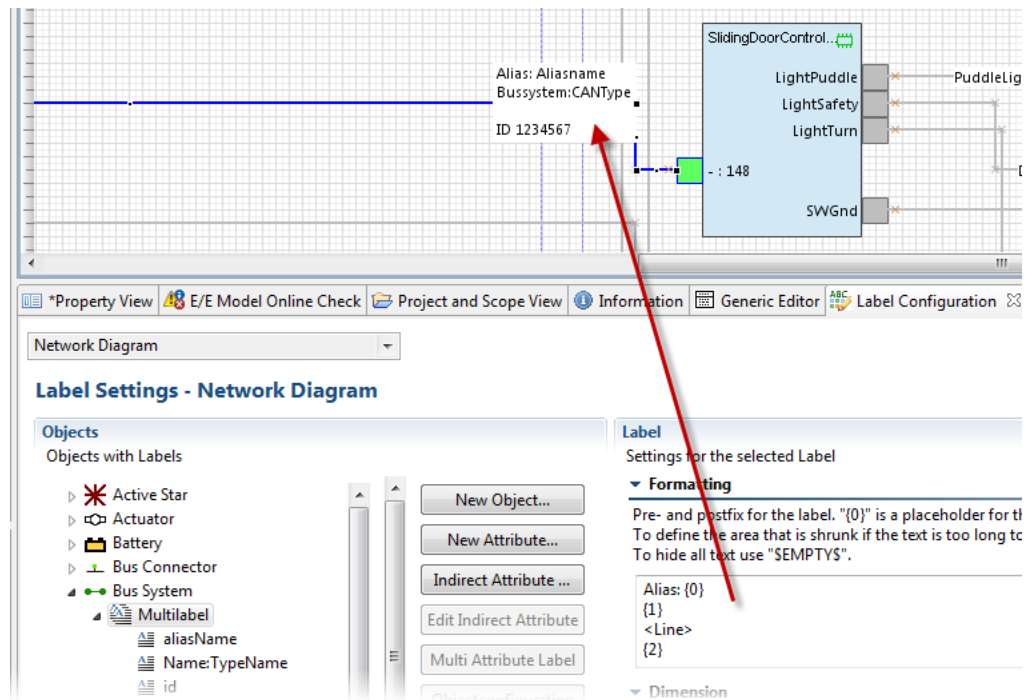
1. Cut the element.
2. Zoom out.
3. Navigate to the desired position in the diagram.
4. Zoom in.
5. Paste the element.

The selection is kept after the paste action.

Labels

The following improvements are available for labels in diagrams:

- > Multi line labels can be configured in the label settings.



- > Labels can be displayed several times on long connections.
- > Missing docking positions for labels are now supported.

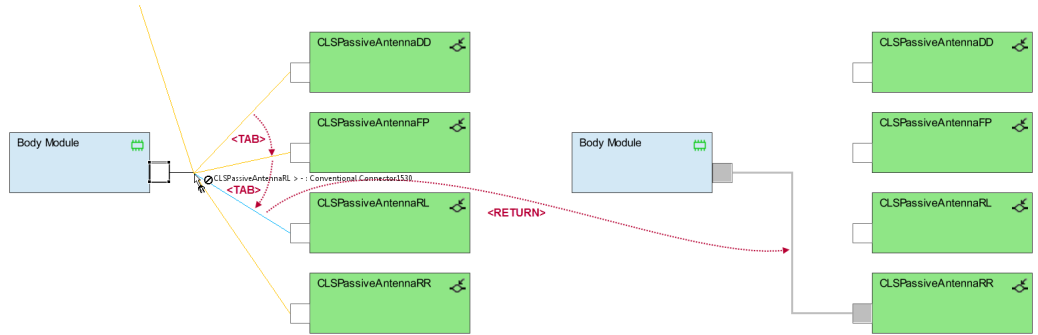
Modeling assistance

Air lines to possible connection targets are displayed to assist you in connecting diagram elements. Air lines are only displayed for connections having already set relevant information.

Air lines are available:

- > in the logical function architecture and the software architecture, for example to connect
 - > compatible interfaces
 - > sender port with receiver port
 - > client port with server port
- > in the hardware architecture to connect the same connector types
- > in the wiring harness layer to connect the same electric connection
- > in the schematics layer to connect the same network connection, e.g. *Bus System*

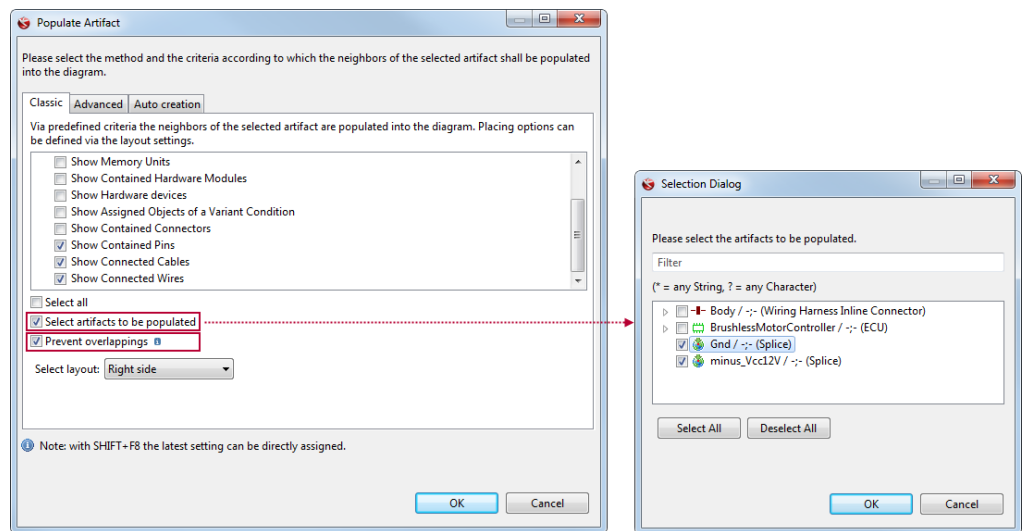
You may use <TAB> to switch between air lines. The selected air line is indicated by a blue line. Press <ENTER> to create a connection.



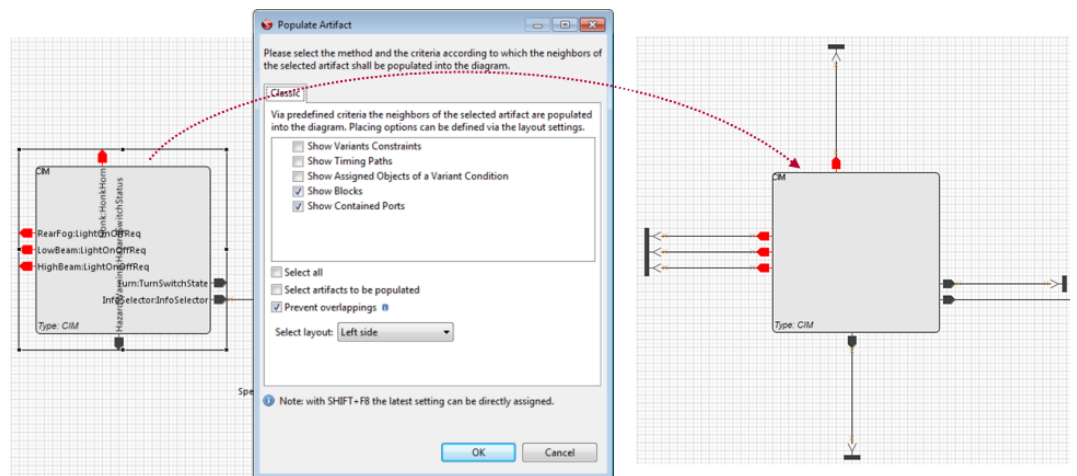
Populate

Two new options are available in the Populate dialog:

- > **Prevent overlappings** option to avoid overlapping elements.
- > **Select artifacts to be populated** option enables a separate dialog to select the specific artifacts to be populated.

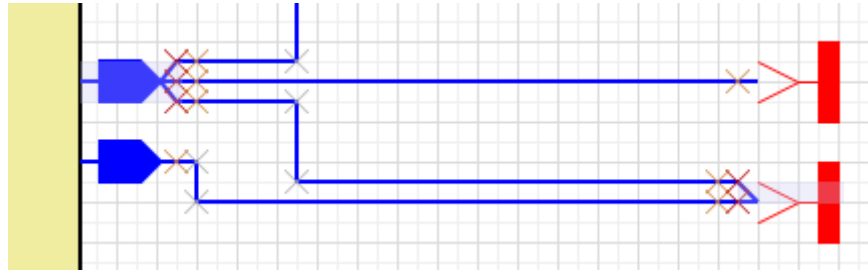


When delegation ports are added to the diagram via the populate function, the function **Place Ports From Stack** is automatically performed for the delegation ports that are added to the diagram.



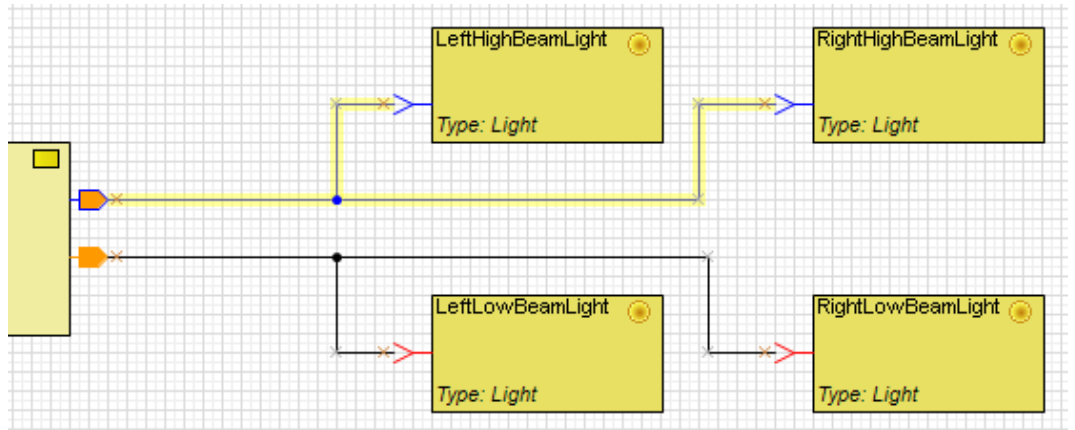
Fan handling

Fan handling is improved and it is possible to manually move fan waypoints.



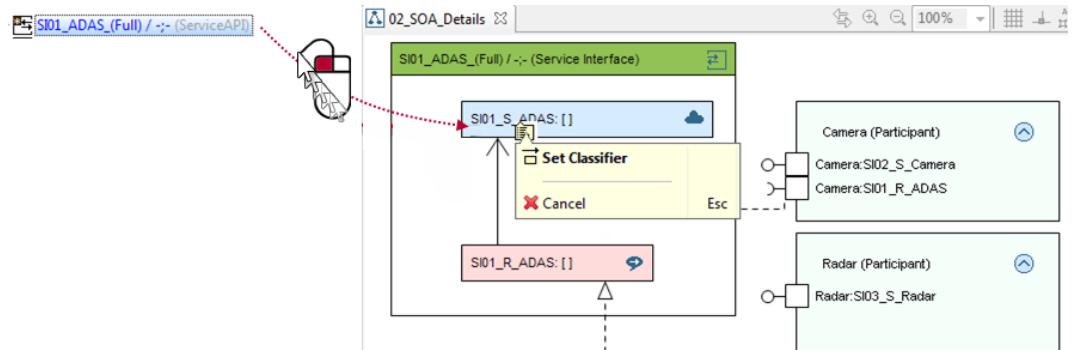
Highlighting of connection

Selecting a connection highlights the complete connection and all pins/ports.



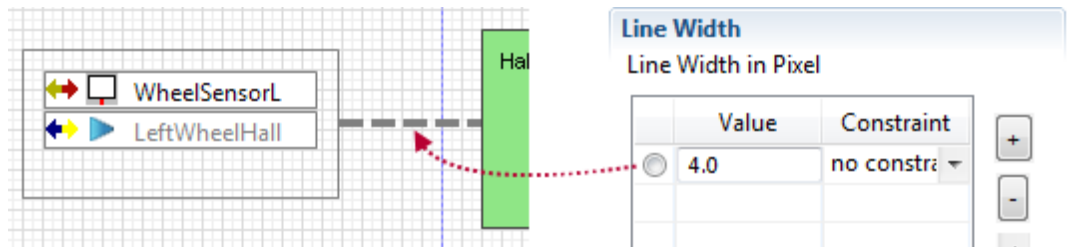
Drag and drop menu in diagrams

The drag and drop menu is now available in diagrams, for example, to set relations. Custom drag and drop actions can also be offered in diagrams.



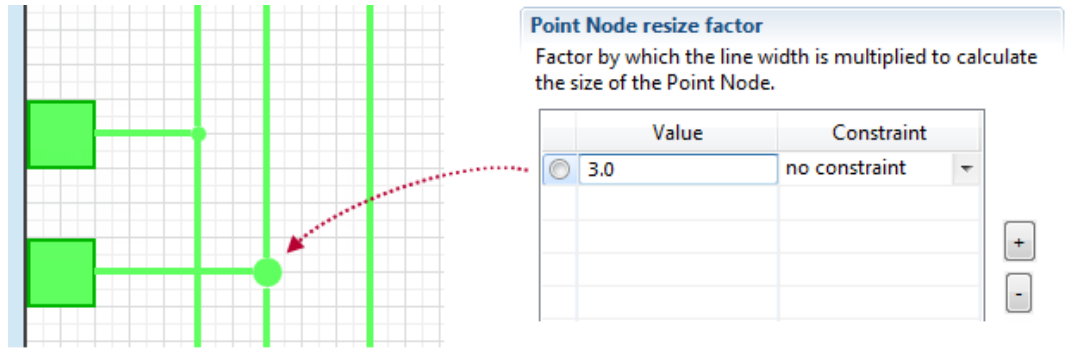
Global line width

A default value for the line width of lines displayed for assembly nets, assembly bus, mapping boxes and mapping assignments can be configured.



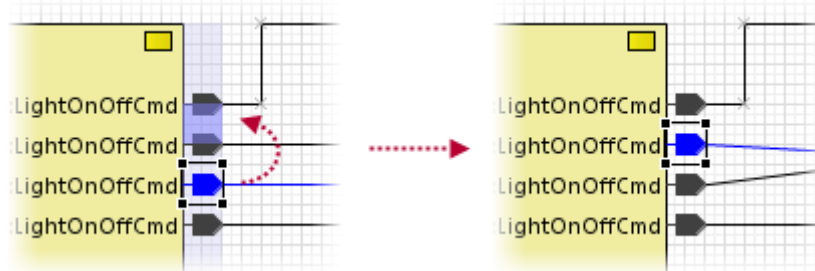
Size of point nodes

The size of *Point Nodes* can be configured via Object Configuration on the corresponding connection, for example a *Bus System*. The factor is multiplied with the corresponding line width.

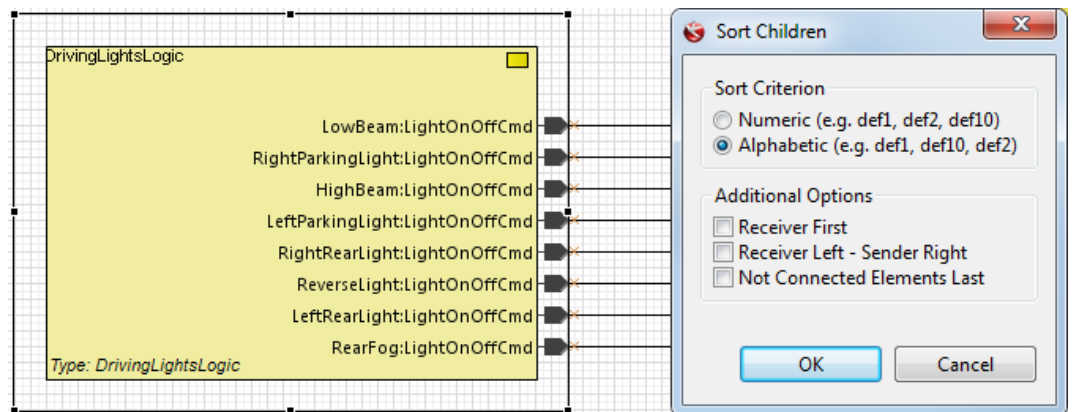


Sort pins and ports

Pins and ports can be manually moved between existing pins and ports via drag and drop. Existing pins and ports are moved accordingly.



In diagrams of the *Logical Function Architecture* and *System Software Architecture*, pins and ports can automatically be sorted.



Separate label configuration for model view and diagrams

For diagrams, a separate name label can be configured. In this way it is possible, for example, to show different artifact information in diagrams than in the **Model View**.

The name label displayed in the diagram can be configured in the Object and label configuration dialog via the **Customized Name Label in Diagram** setting.

Scrolling

While drawing a selection frame, the diagram area scrolls now.

Splitting connections

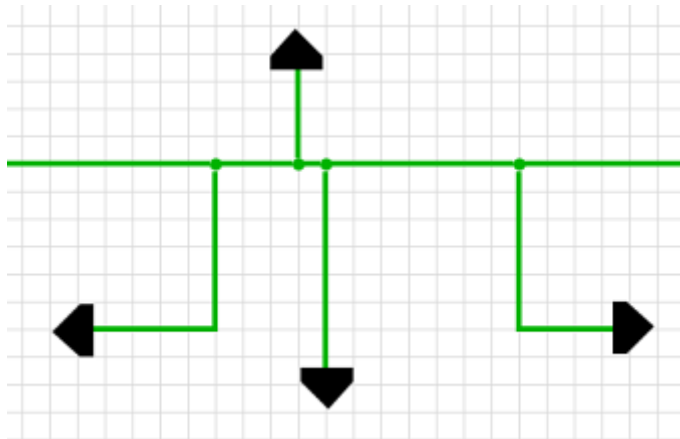
The function Split Connection in the context menu facilitates the splitting of long connections by automatically creating *Sheet Connectors* and labels displaying *Section* and coordinates of the corresponding *Sheet Connector*. On an automatic split, the routing style rectangular is applied.



Connections can be split via context menu in the following diagrams of the *Hardware Architecture*:

- > Network Diagram
- > Electric Circuit Diagram
- > Wiring Diagram

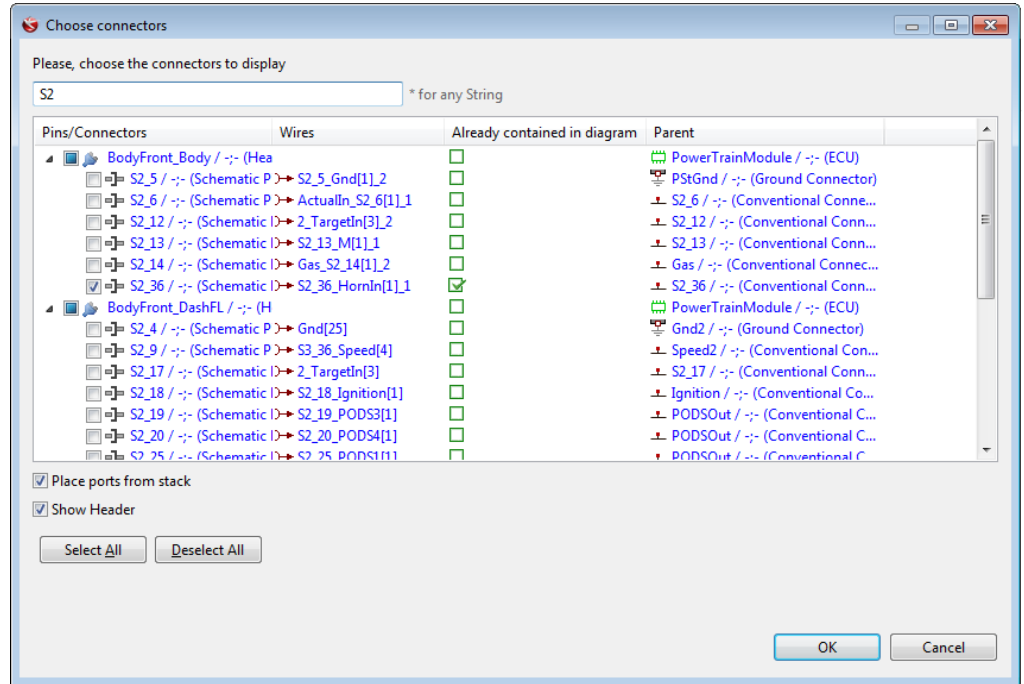
In case of rectangular routing style *Sheet Connectors* are automatically oriented orthogonal to the last line segment.



Show/hide connectors

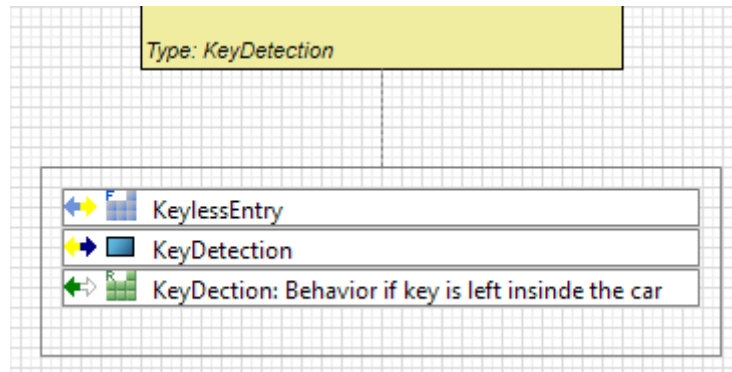
In the dialogs Show/Hide Connectors, **Show/Hide Internal Logic Connectors**, **Show/Hide Ports**, and **Show/Hide Headers and Pins** (SHIFT+F4 functionality) the following usability improvements are available:

- > A type ahead field for filtering the *Pins/Connectors*. Note: The parents, for example the *Headers*, are not filtered.
- > *Connectors/Internal Logic Connectors/Ports/Headers* and *Pins* are sorted.

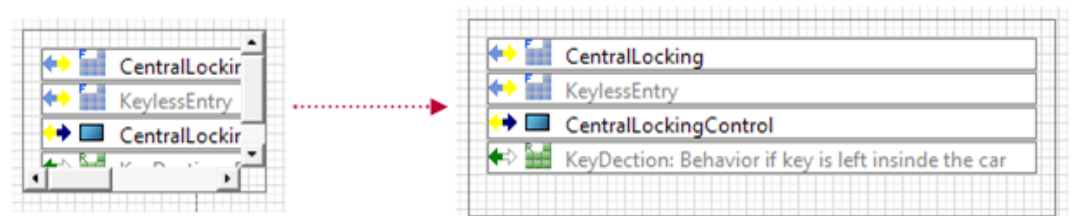


Mapping boxes and query label boxes

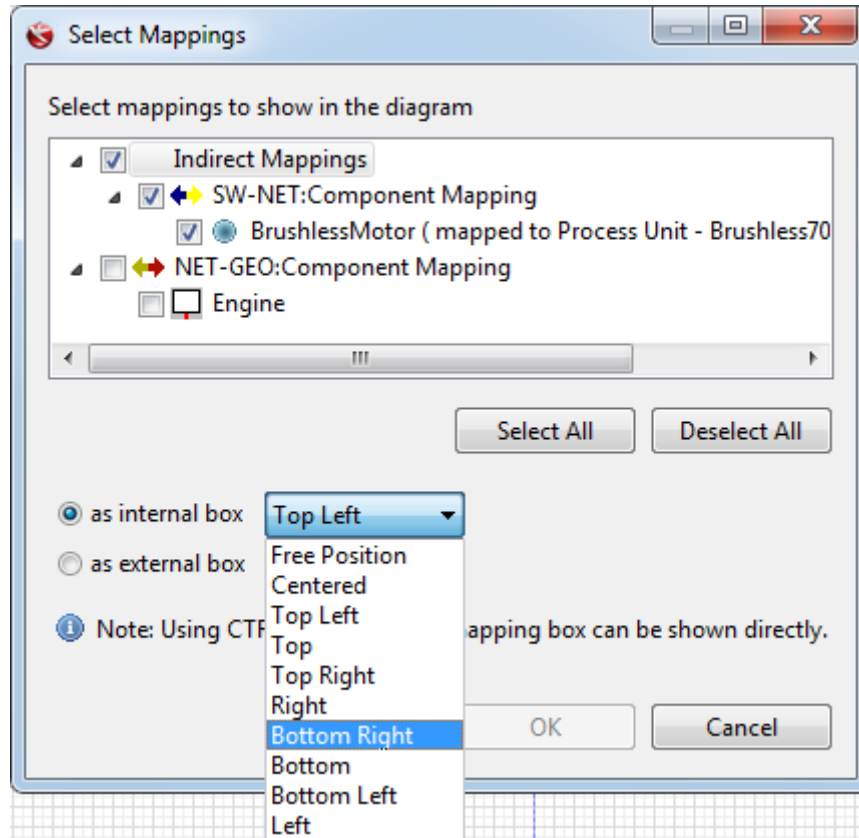
If a new *Mapping Box* or *Query Label Box* is created, the box has now the optimal size to show its complete content.



Existing *Mapping Boxes* are not automatically adjusted when a new *Mapping* is created in order to keep the diagram layout untouched. The size of existing *Mapping Boxes* can be adjusted via context menu **Adjust Size** or via shortcut <ALT>+<A>.



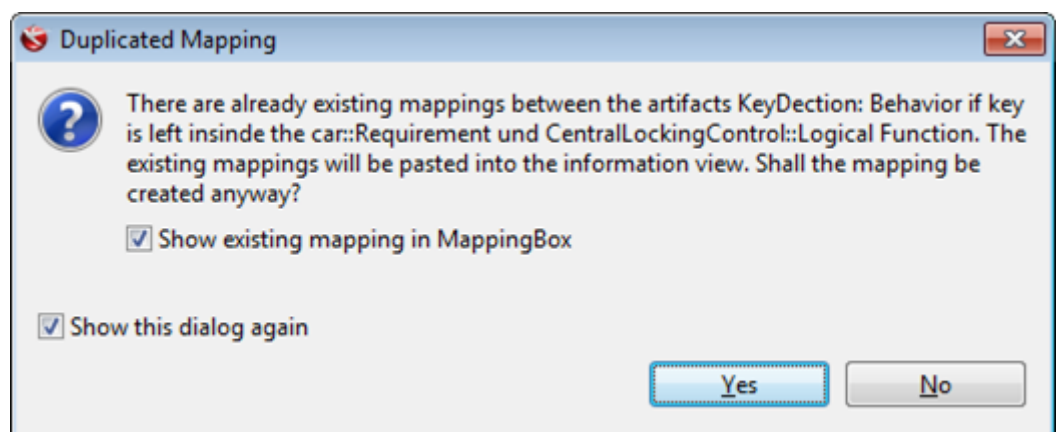
The docking position of internal *Mapping Boxes* can now be defined, instead of placing the *Mapping Box* by default in the upper left corner of the figure.



Shortcuts have been adopted as follows:

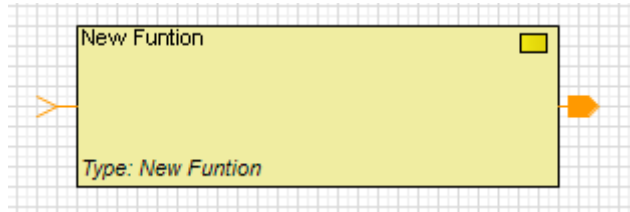
- > <CTRL>+<M> opens the **Select Mapping** dialog
- > <CTRL>+<SHIFT>+<M> creates a *Mapping Box* with all mappings.

When you try to create a mapping via drag and drop of an artifact with pressed <CTRL> +<SHIFT> keys on a diagram figure, but this mapping already exists, you can now decide if the *Mapping* shall be shown in the *Mapping Box*.



Port placement

When you create blocks in the *Logical Architecture Diagram* that only have one incoming and one outgoing *Port*, the *Incoming Ports* placed in the middle of the sides, the incoming *Port* on the left, the outgoing *Port* on the east side.



This port placement is regarded on:

- > **Show Ports** (SHIFT+F4)
- > **Place Ports from Stack** (F4)
- > **Create New**
- > Drag and drop into a diagram.

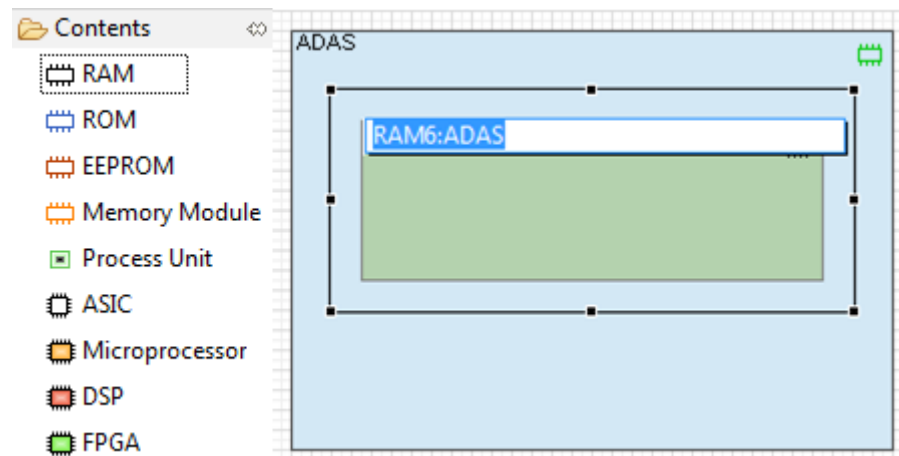
In the **Select or Create Logical Type** dialog, the last entered setting for the number of *Ports* is persisted during client runtime. A button **[Set to 0]** is now available to reset all fields in the dialog to 0.

Ports:

	Logical Sender Port Prototype:	<input type="text" value="1"/>
	Logical Receiver Port Prototype:	<input type="text" value="1"/>
	Logical Server Port Prototype:	<input type="text" value="0"/>
	Logical Client Port Prototype:	<input type="text" value="0"/>
	Logical Slave Port Prototype:	<input type="text" value="0"/>
	Logical Controller Port Prototype:	<input type="text" value="0"/>
	Environment S-Port Prototype:	<input type="text" value="0"/>
	Environment R-Port Prototype:	<input type="text" value="0"/>

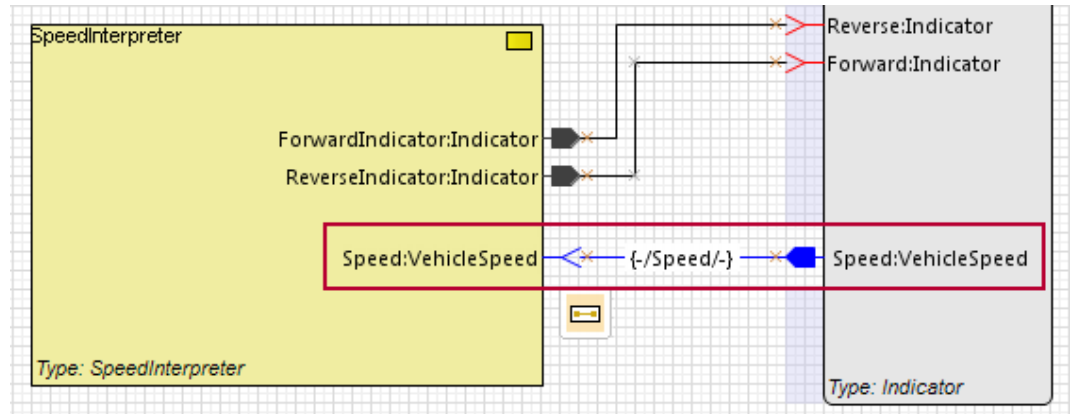
Naming conventions for diagrams

If you create an internal artifact within a *Component*, the name of the *Component* is attached to the internal artifact. This naming convention helps identify to which Component an internal artifact, for example, to which *ECU* a *RAM* module or a *Microprocessor* belongs to.



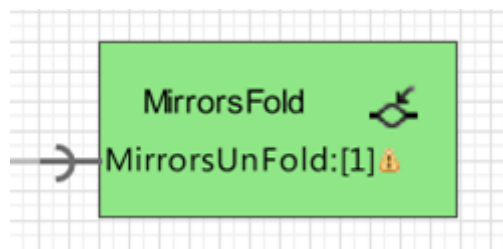
If a new *Assembly Connector* is created via pop-up menu, the new *Port* gets the name of the source. This naming convention is valid in the following diagrams:

- > Logical Architecture Diagram
- > Logical Architecture System Diagram
- > Software Component Diagram

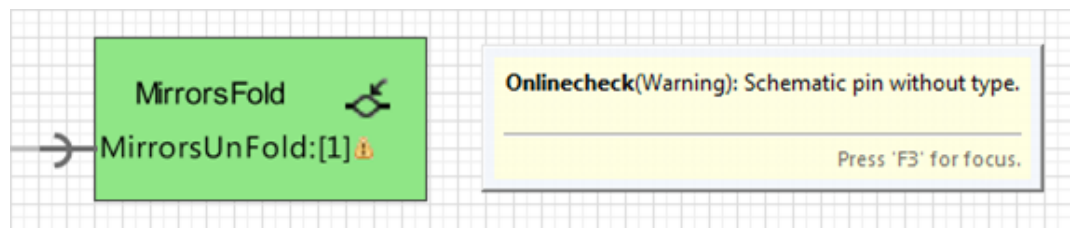


Online check results in diagrams

Results from active online checks are now also presented in diagrams. The severity decorator is shown inside the label of a figure or a connection.



Hovering over the decorator shows the description of the online check findings in a tooltip.



Clicking on the decorator allows to ignore the finding or to call a quick fix if available.

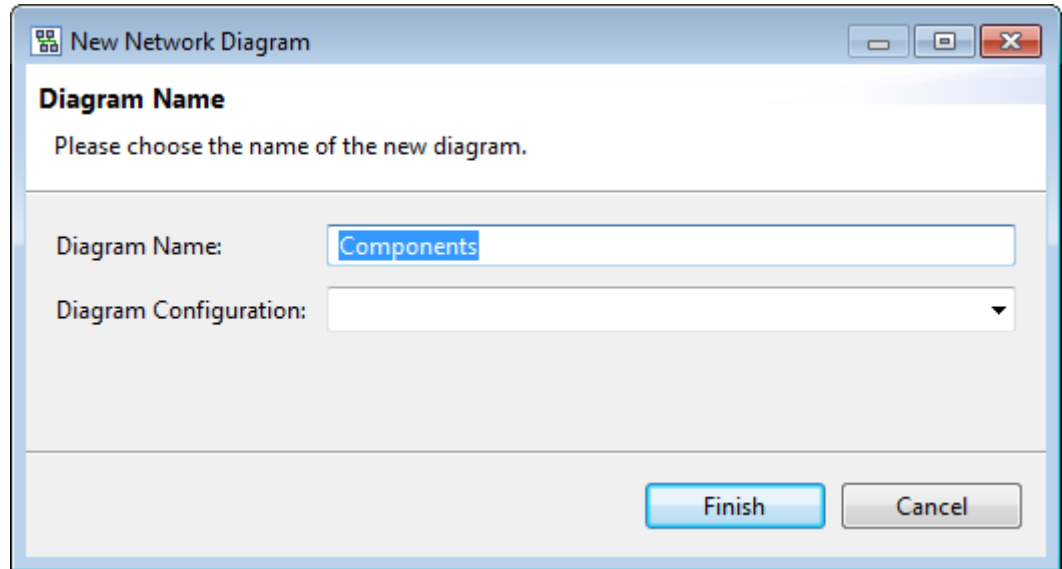
	Schematic pin without type.
	Ignore Online Check for Artefact
	Ignore Online Check for Meta Class
	→ Create missing Schematic Pin Type "A"
	→ Create missing Schematic Pin Type "B"

Metric label

In *Title Block Diagrams*, it is possible to add a field that can be assigned with a *Model Query*. The objects returned by the query are displayed inside the field. As some objects can be more efficiently accessed by a metric, a new field has been introduced that can be assigned with a *Metric Executor*.

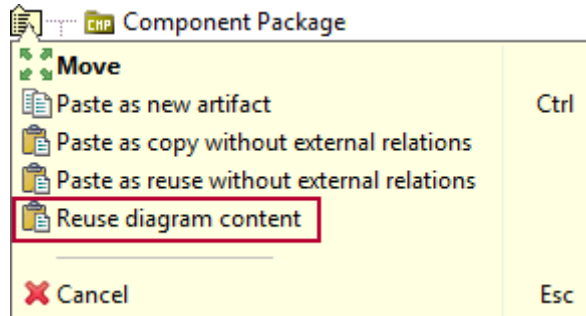
Creating new diagrams

When you create a new diagram, the name field is preselected for quickly entering the artifact name.



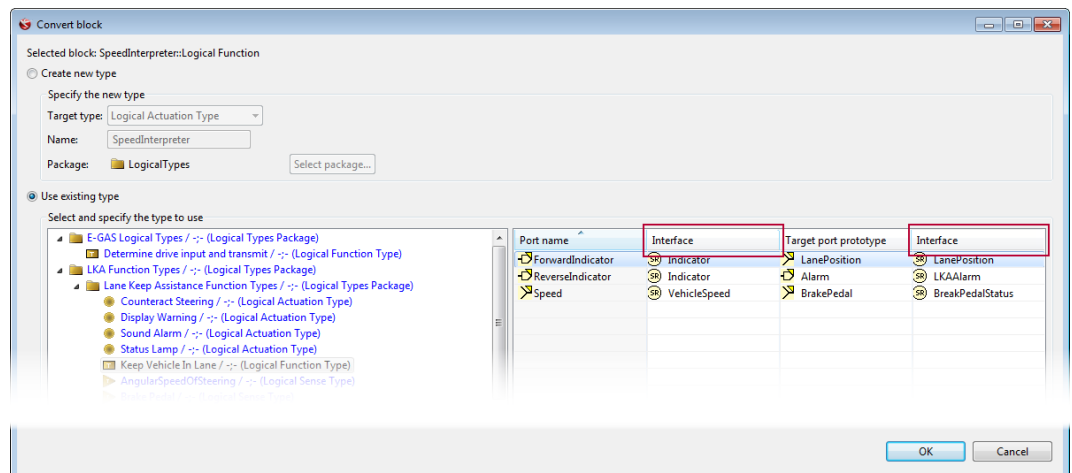
Copying diagrams to another product line

If you copy a diagram to another product line via drag and drop, all artifacts that are contained in the diagram can automatically be reused.



Refactoring convert block

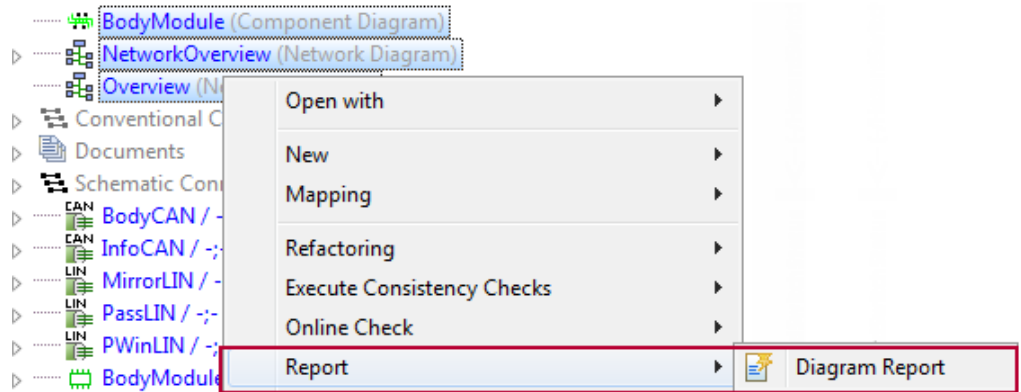
The refactoring **Convert Block** shows now the *Interfaces* when using existing types.



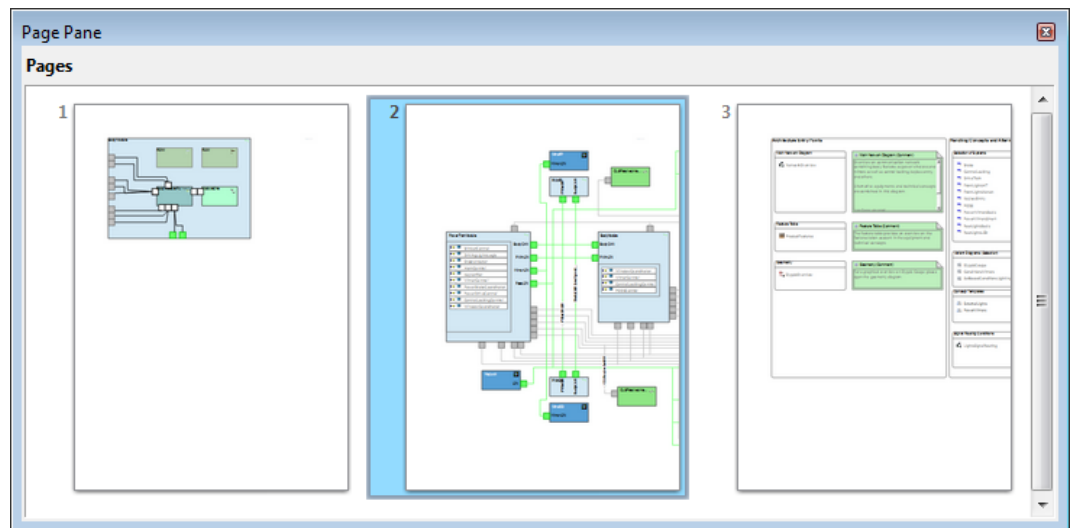
Printing diagrams

It is now possible to print several diagrams at once instead of printing one diagram after another. A report is available which allows to print all diagrams that are:

- > Contained in a package
- > Selected in the **Model View**



Multiple diagrams can be printed at once via context menu **Print** or toolbar button. The print settings are applied to all selected diagrams. Each diagram is printed on a separate page.



Exporting as image

When you export a diagram as image, the actual date is added to the file name.

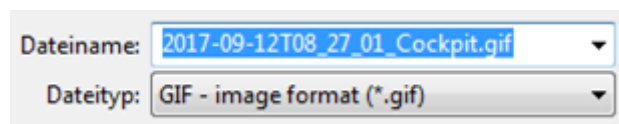
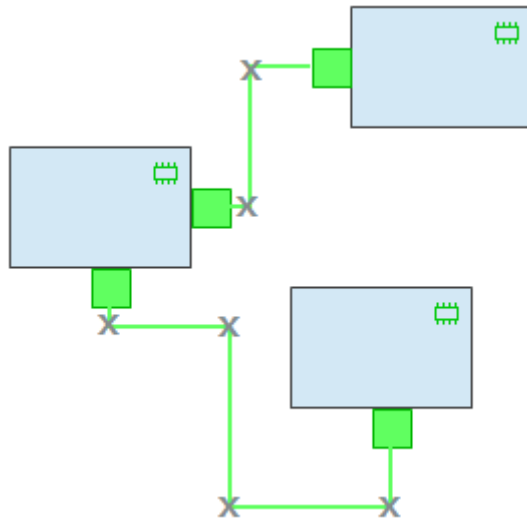


Diagram migration

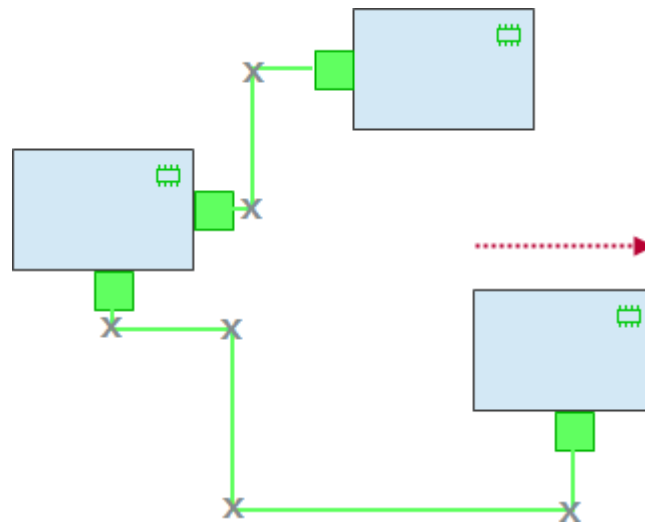
The strategy for migrating existing diagrams of a PREEvision version before 8.5 to the new line router has been adopted to ensure that existing diagrams look similar as in PREEvision 8.0 or former:

When you open a diagram from a PREEvision version before 8.5 (DI version 8.0 or empty) are routed with the old line routing algorithm.



When you edit this diagram:

- > All waypoints are stored in the model.
- > The DI version ist set to 8.5.
- > Routing is done with the new line routing algorithm of PREEvision 8.5.



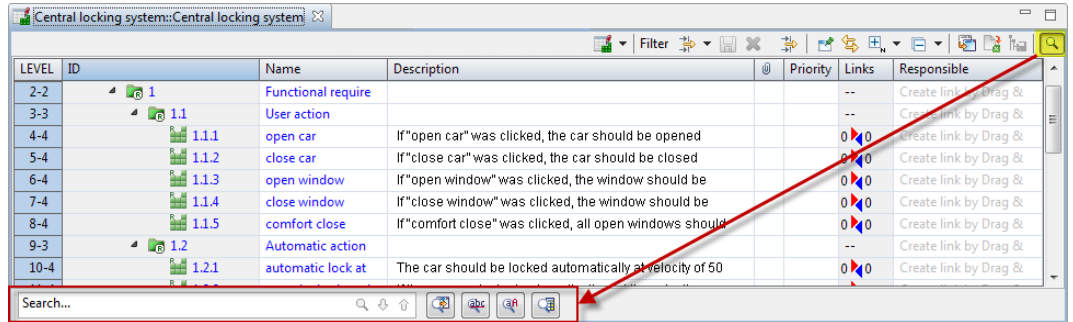
19.3.5 Tables

Quick search in tables

A quick search is available in tables to search in the shown table content. The table search can be activated via toolbar button or the shortcut <CTRL> + <F>. If the table search is active, a search field is displayed below the table.

The search starts context-sensitive with the selected artifact. The complete content in the shown columns is regarded, even content in formatted text fields.

As search result, the table cell in that the search term was found is highlighted.



The table cell in that the search term is found is highlighted.

Additional functionality:

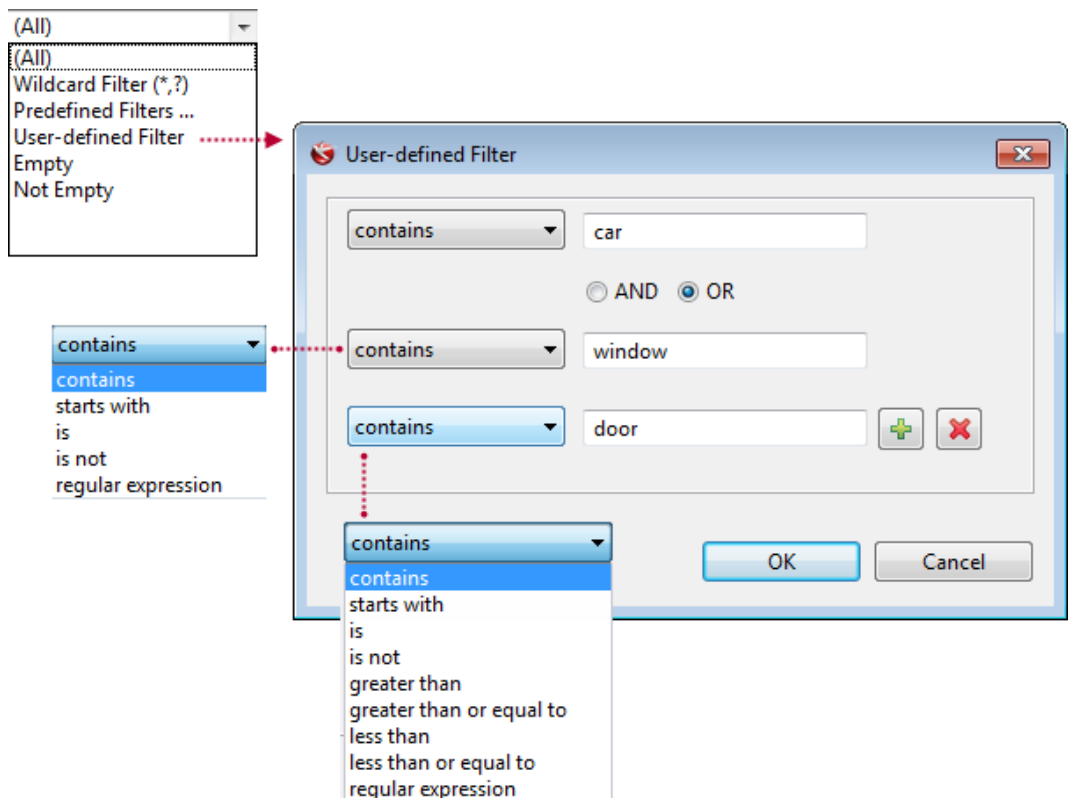
- > Status bar shows the number of matches
- > Next/previous match can be accessed either via buttons or shortcut
- > Search result can be posted into the **Search** view
- > Search case-sensitive or only for whole word instead of searching for substrings
- > Search only in selected table areas

Filters in table editors

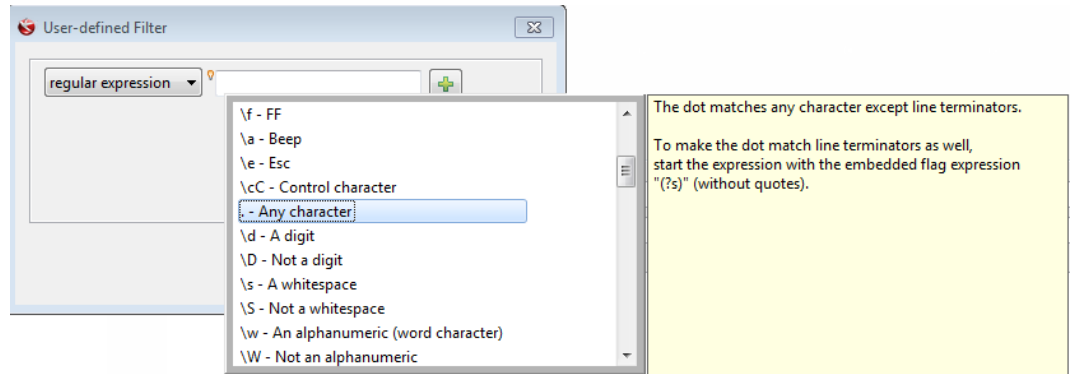
Tables can be opened with active filters by default. Therefore, the **Open with Active Column Filters** flag must be activated on the table artifact.

A new "Wildcard Filter" and a "User-defined Filter" are available as column filters:

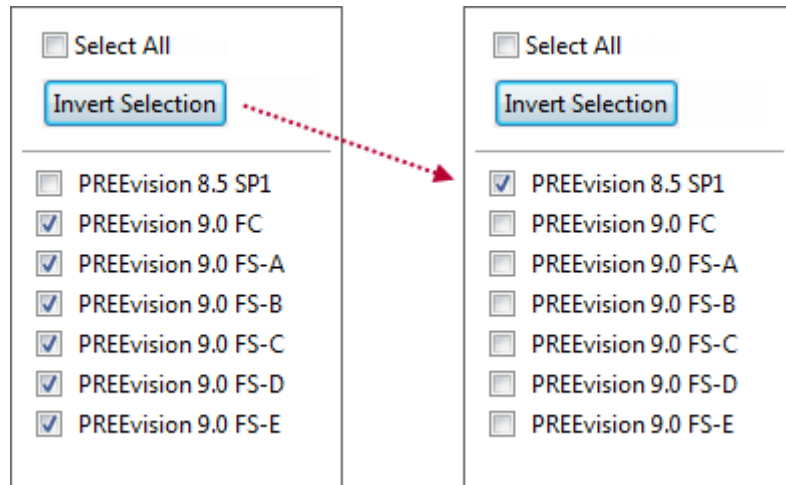
- > The wildcard filter supports * and ? and an entered term is automatically supplemented by *.
- > For user-defined filters:
 - > terms can be combined with logic AND, OR
 - > additional search fields can be added on-the-fly
 - > term operators are offered depending on the column content



The regular expression filter is now available in the user-defined filter. The regular expression filter provides auto-completion and help assistance, now.

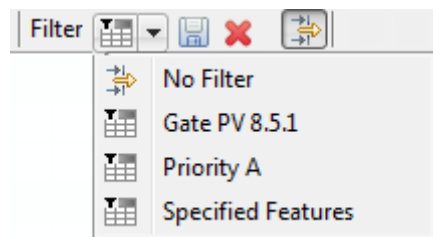


The predefined filter offers the possibility to invert the selection for a faster selection.



Saving filters in tables

Filters can be saved in tables. A stored filter is available for all users. Available filters can be accessed in the toolbar.

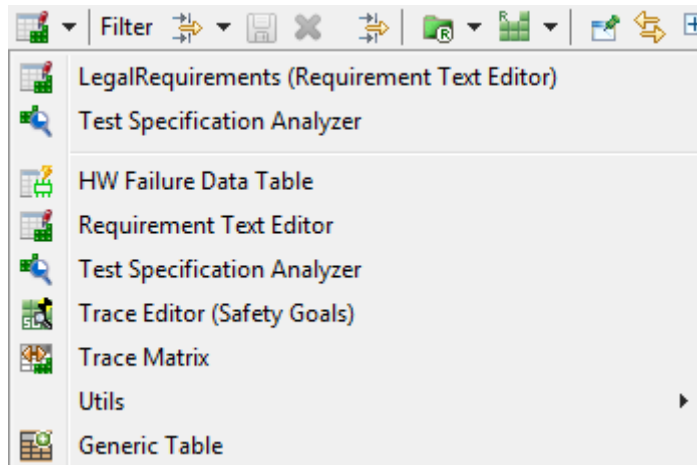


A new filter can be saved. All column filters are stored in the filter definition and are applied if the filter is selected.

The latest active filter is reapplied when a table is reopened (user-specific). If a table has been closed with an active filter, even if this filter was unsaved, the table is opened with the filter settings given by the user.

"View" concept in tables

All available table instances and templates can be accessed within a table editor via a drop-down button in the toolbar.



If another table is selected, the active table is replaced in the same editor view.

Expanding tables

Tables can be configured to show their complete content and do not have to be expanded manually by the user.

Therefore, the following new options are available:

- > **Show expanded** option on column: When opening a table, the hierarchy displayed in the column is automatically expanded.
- > **Show complete text** option on table: When opening a table, the table immediately shows the complete content of all cells.



Note: It is still possible to change the setting in an unlocked table via the **Table** context menu.

Expanding grouped columns

Whether a grouped column is expanded or not can be predefined and is also stored locally for each user.

The **Show expanded** option on a grouped column defines whether the group is automatically expanded when initially opening the table or not.

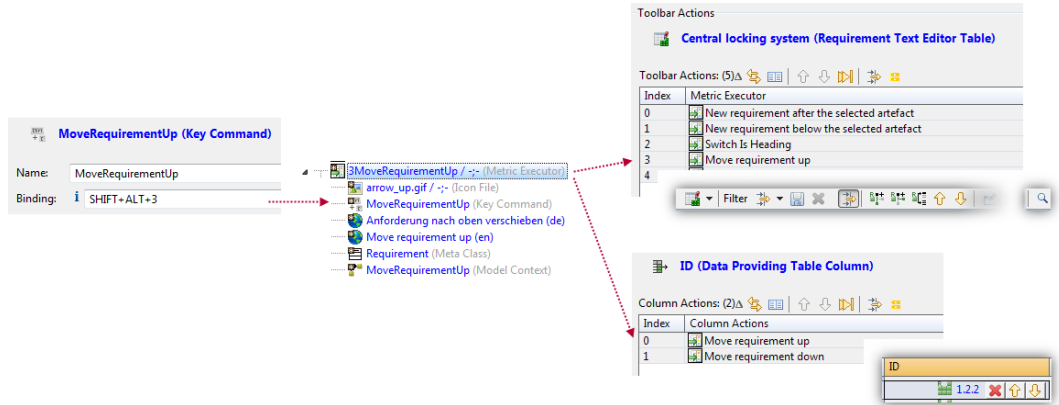
The latest expansion state of a group is reapplied when a table is reopened (user-specific). If a table has been closed unlocked with an expanded group, even if the table itself defines the group collapsed, the table is reopened with the expansion state defined by the user.

Shortcuts in table editors

A key command (shortcut) can now be applied to action buttons in table cells or in the toolbar.

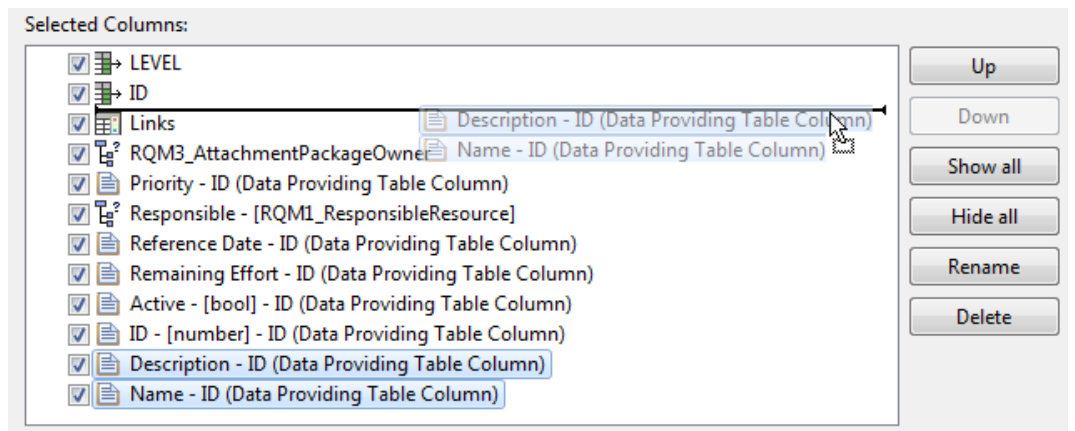
The key binding of the *Metric Executor* is only regarded in the context of the table editor instance.

If the *Metric Executor* is only bound to a column and not to the table, the key command is only regarded if a cell of that column is selected.

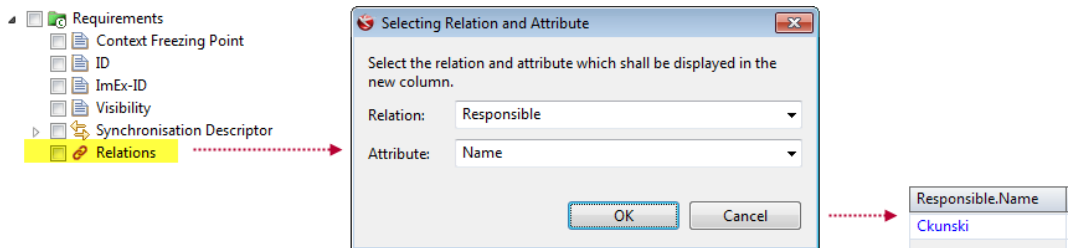


Configuring columns

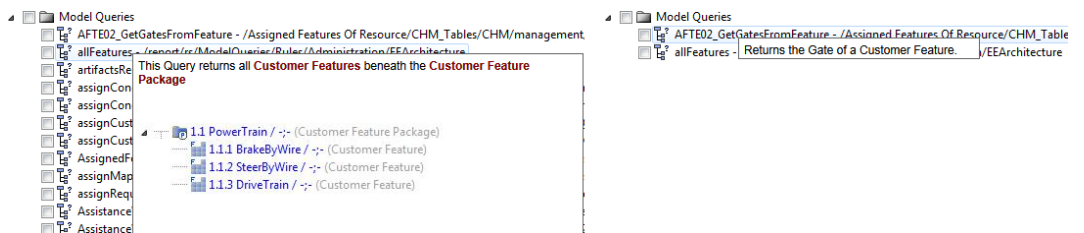
The re-arrangement of columns can be done via drag and drop in the **Add/Remove/Reorder Columns** dialog.



A new "Relations" node is available for each meta class in the **Add/Remove/Reorder Columns** dialog. In this way, new columns that show content of related artifacts can be easily defined.



For a better identification of the available *Model Queries*, the entries are showing now their description in a tooltip. If no tooltip is available the description of the query is calculated and shows the returned artifacts.

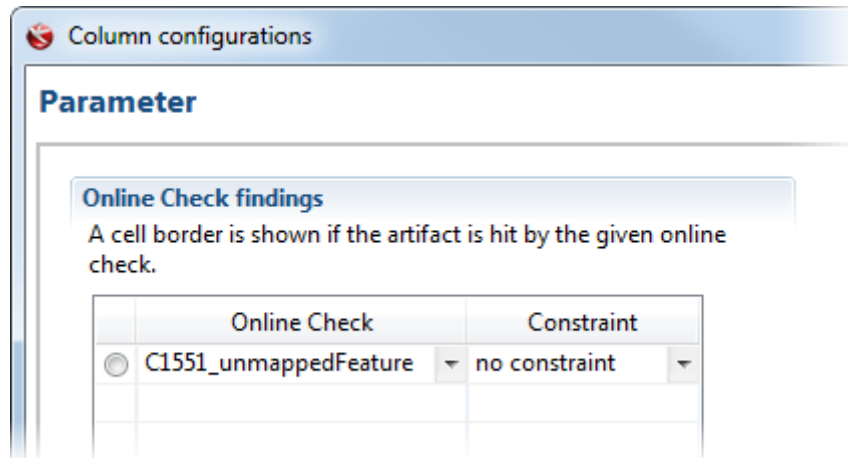


Displaying online check results in tables

Online check findings are no longer automatically highlighted in tables.

Online check findings can be displayed in tables via the column configuration (**Table | Configure Column**).

In the **Online Check Findings** setting, you can assign online checks for which a cell highlighting is to be displayed in the column.

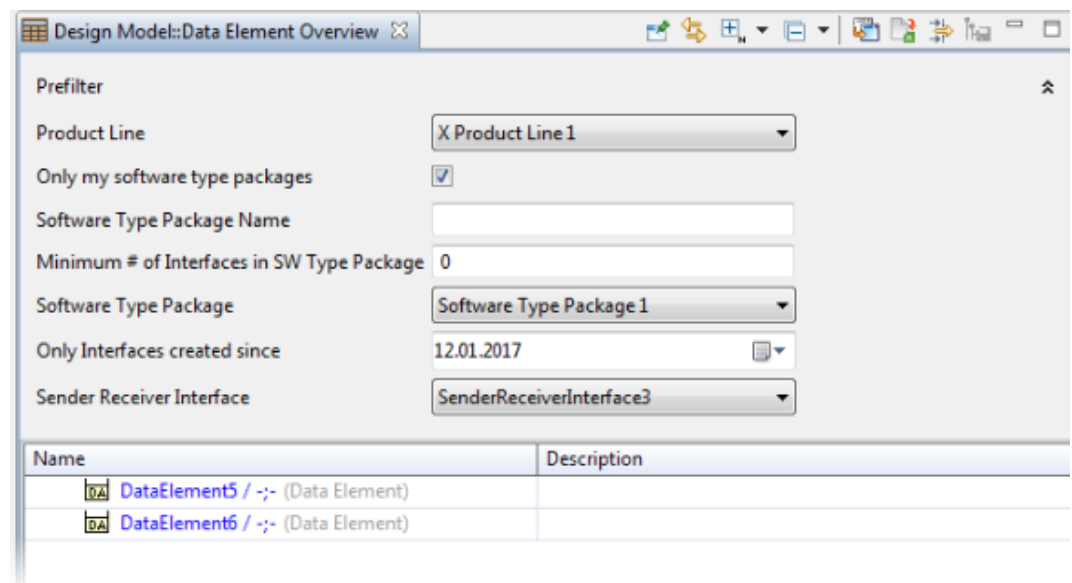


If an online check finding is available for an artifact displayed in the column, the cell in that the artifact is displayed gets a colored cell border.

Pre-filters for table editors

Pre-filters can now be configured for tables via metric.

If a pre-filter is configured for a table, available filter fields are displayed at the top of the table. The filter area can be collapsed.



Available controls for filter fields are:

- > drop-down lists
- > check boxes
- > date fields
- > string fields
- > integer fields

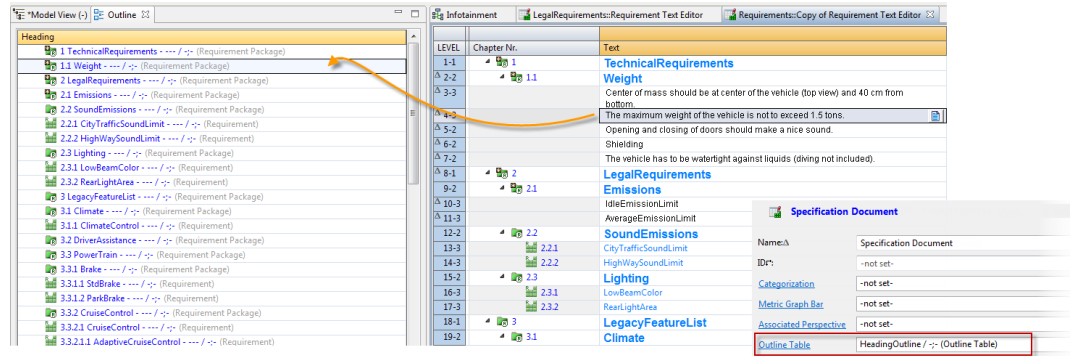
The filter fields can be arranged horizontally or vertically.

Set filters can be stored for the user. Reopening the table applies the same filter settings again.

Tables with pre-filters can be used in the **Artifact Picker**.

Outline view for tables

For a table, an outline table can be configured to show, for example, the document structure of a specification document. The outline table is displayed in the **Outline** view and follows the selection in the parent table and vice versa. Selecting an artifact in the table selects the corresponding entry in the **Outline** view.



Further table features

The following additional new features are available in tables:

- > Action buttons in table cells are now always oriented on the top right corner.
- > Values in cells can be simply deleted via . The related artifact can be deleted from the model as in diagrams via the shortcut <CTRL> + <D>.
- > Cut and paste is now available in tables. If <CTRL> + <X> is pressed, the artifact is grayed out and can be pasted under another artifact in the table or can be pasted in the **Model View**.

LEVEL	ID	Priority	Links	Responsible
1-1	1.1		--	Create link
2-2	1.1.1	A	--	Ckunski,
3-2	1.1.2	B	--	Create link

- > Links and mappings can be represented in a separate column with a symbolic representation, showing the number of incoming and outgoing links. On mouse over, a tooltip shows details for the incoming/outgoing links. The displayed details can be customized.

3-2	1.1.2	B	1 > 2	Create link	-1.0	close_car
4-2	1.1.3		0 < 1	Outgoing Links		indow
5-2	1.1.4		1 < 0	Incoming Links		indow

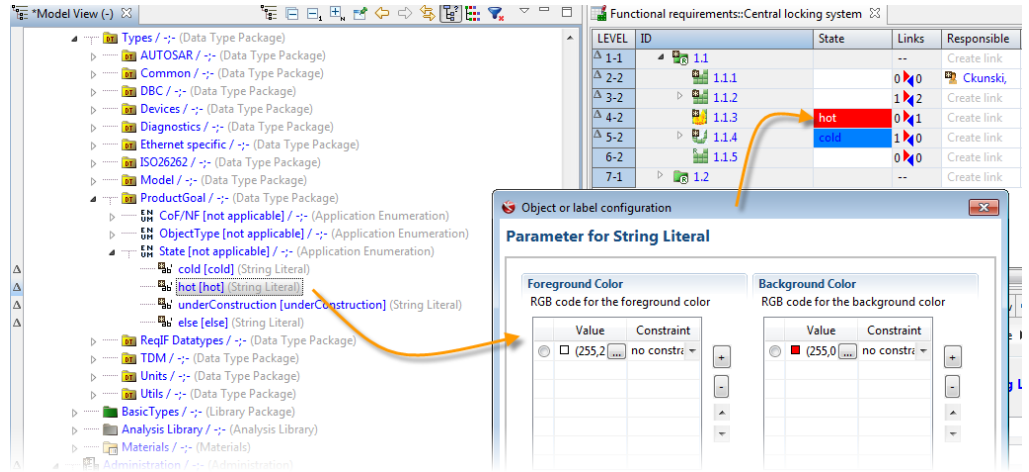
Outgoing Links

- ▲ [Trace] (Product Goal Link)
- ▲ 1.1.3 open window / -;- (Requirement)

Incoming Links

- ▲ [Trace] (Product Goal Link)
- ▲ 1.1.4 close window / -;- (Requirement)
- ▲ [Trace] (Product Goal Link)
- ▲ 1.2.7 no communication when graceful degradation / -;- (Requirement)

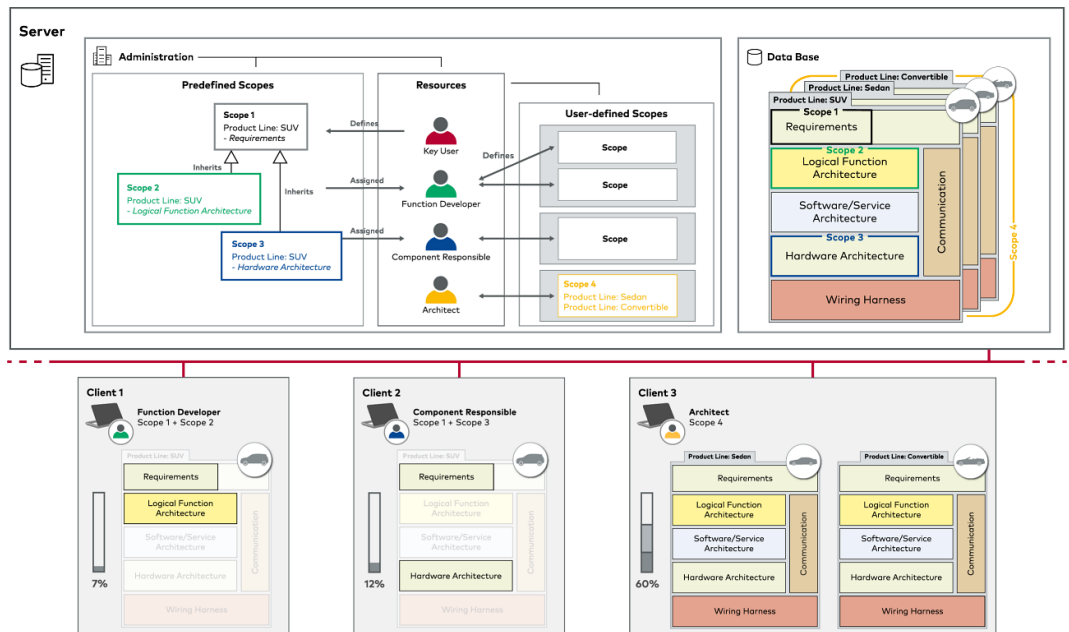
- > The object configuration of an enumeration literal is now automatically regarded in tables. There is no more need to define special metrics for inking a cell depending on the value. The object configuration of the **Model View** has a lower priority than the object configuration of a table column.



19.3.6 Collaboration

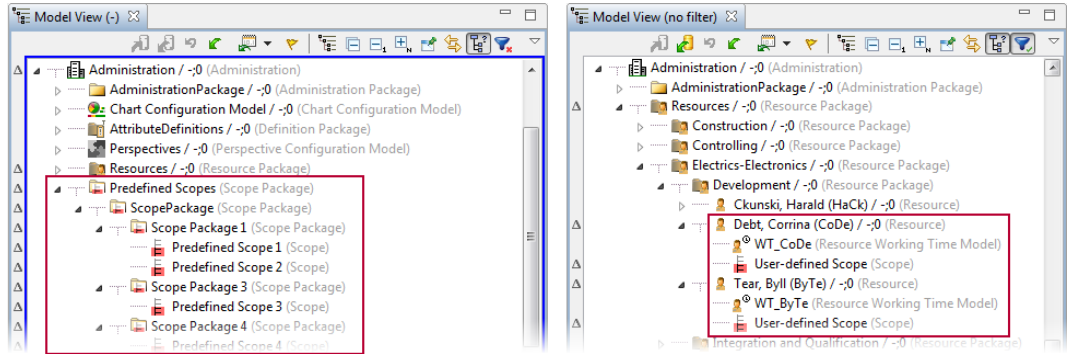
User-defined and predefined scopes

In addition to user-defined scopes, scopes can now be predefined by a project manager or administrator. Scope can now be distributed since their definition is now stored within the E/E model.



User-defined scopes are still defined with the help of the **Project and Scope View**. The scope definition is stored in the E/E model under the *Resource* of the user who defined the scope.

Predefined scopes are centrally configured in the *Administration* within *Scope Packages* and are assigned to users.

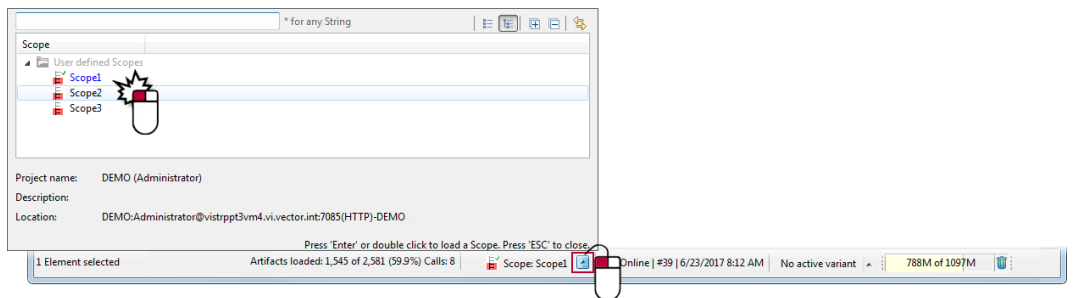


Furthermore, robustness and performance has been improved for the model update and for changing scopes.

Activating scopes

The user interface for activating scopes has been improved.

When working with different scopes, scopes can easily be switched via a new selection dialog that is available in the status bar (similar to the variant selection dialog). It is also possible to activate/deactivate a scope in the status bar.

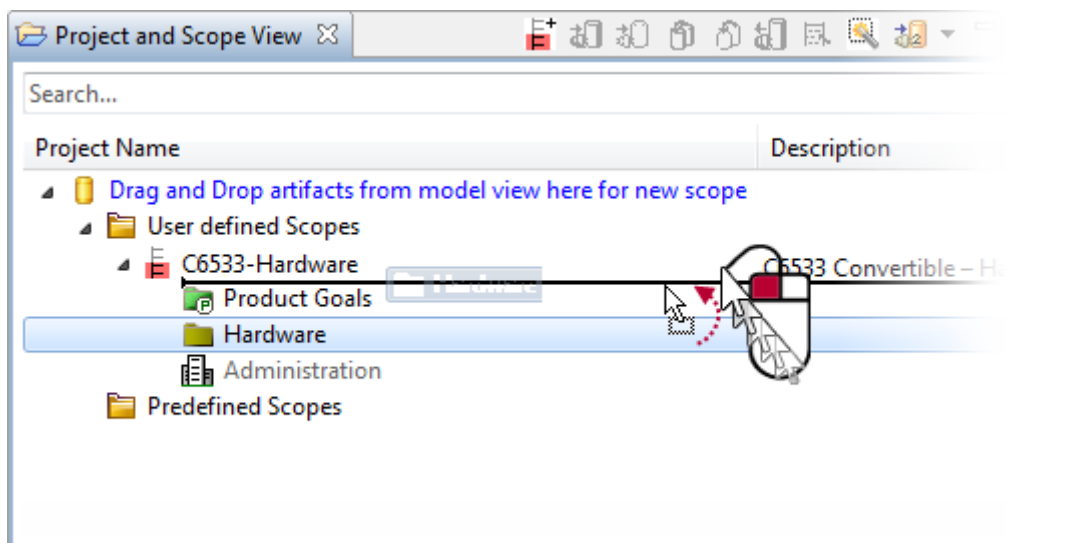


Sorting scope roots

For user-defined scopes, the order of the scope roots can be defined in the **Project and Scope View** via

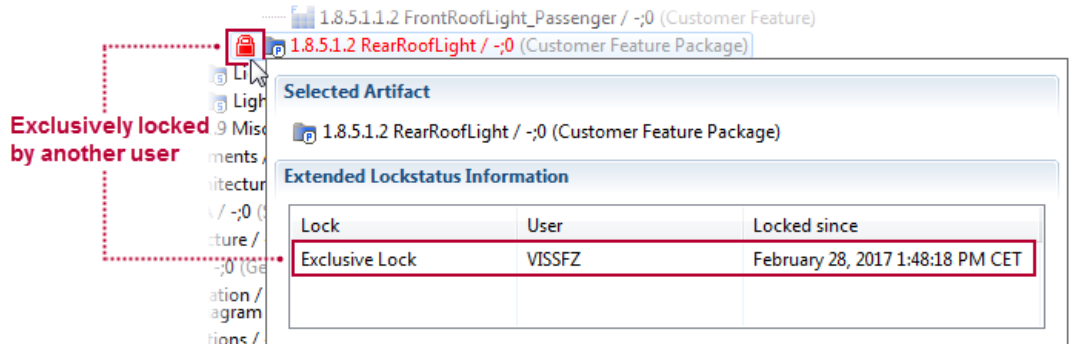
- > the context menu entry **Sort Scope Roots: a..z** or **Sort Scope Roots: z..a**, or
- > drag and drop.

When activating the scope, scope roots are displayed in the **Model View** in the defined order.



Identifying current users of locked artifacts via artifacts' lock status icon

Information on the users who have currently locked artifacts can be easily displayed via the corresponding lock status icon of the artifacts.

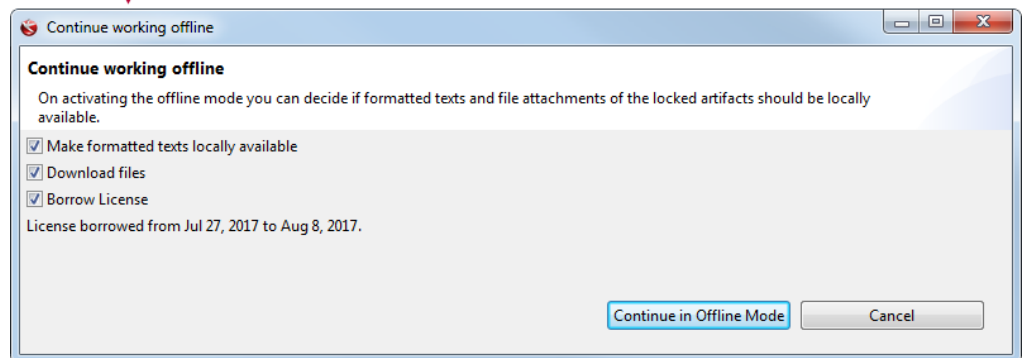
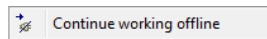


Working offline

On manually activating the offline mode, a dialog is displayed which helps the user to prepare for offline mode.

The following options are available:

- > **Make formatted texts locally available:** Formatted texts of locked artifacts are locally available in offline mode.
- > **Download files:** File attachments of locked artifacts are locally available in offline mode.
- > **Borrow license:** For working offline, the license must be borrowed.



Filter extension in the model view

In the **Configure Filter** dialog of the **Model View** the filter option **Show only locked and changed elements (by current user)** is available in multi-user mode. With this option the artifacts can be filtered by locked artifacts as well as changed artifacts of the current user.

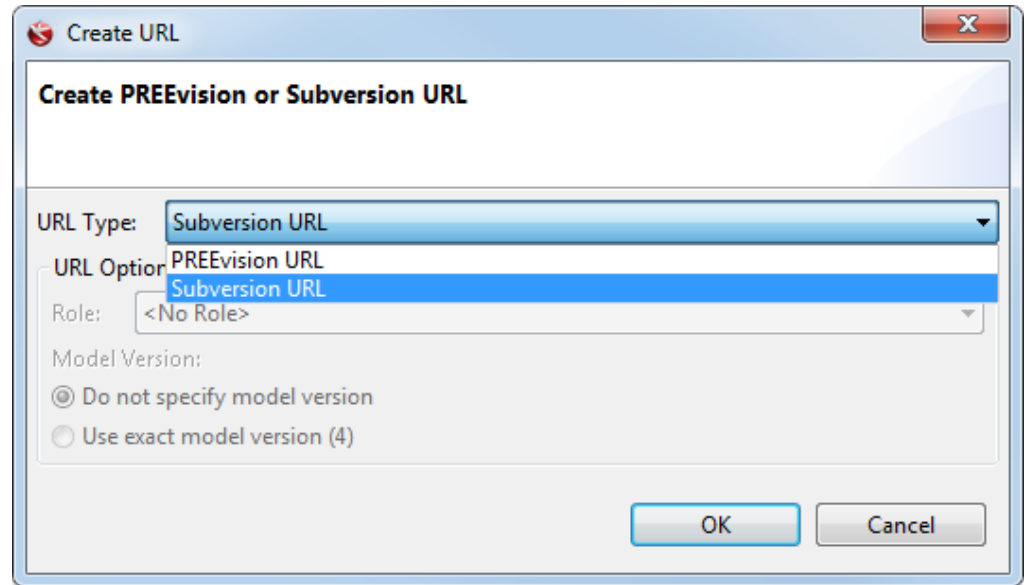
Configuration of life cycle state transitions for lock operations not supported any more

For life cycle management of artifacts, the automatic lock life cycle trigger, which initiates a life cycle state transition during the lock operation of an artifact, is no longer available. All further automatic life cycle triggers are still available.

Subversion URL

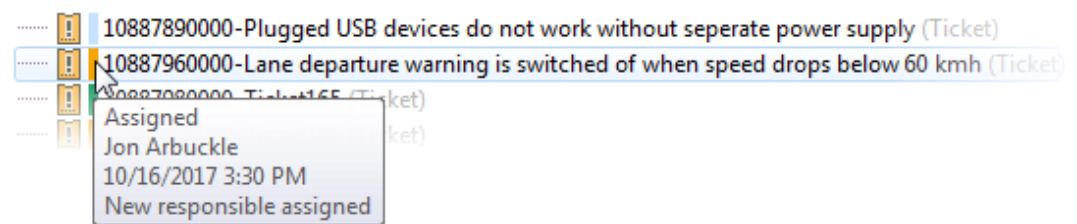
In the **Create URL** dialog it is now possible to specify the URL type to be created:

- > **PREEvision URL:** creates a link to the PREEvision artifact
- > **Subversion URL:** creates a Subversion URL. By this URL, non PREEvision users can access and edit file attachments directly in Subversion.



Life cycle tooltip

A tooltip on a life cycle state icon now displays detailed information on an artifact's individual life cycle state.



The life cycle tooltip functionality is available on state icons in:

- > the **Property View**
- > the **Model View**
- > tables
- > the explorer

Removed commit and update buttons from PREEvision main toolbar

The global commit and update buttons in the main toolbar have been removed. Commit and update is possible via the buttons in the action bar of the **Model View**.

19.3.7 Metrics

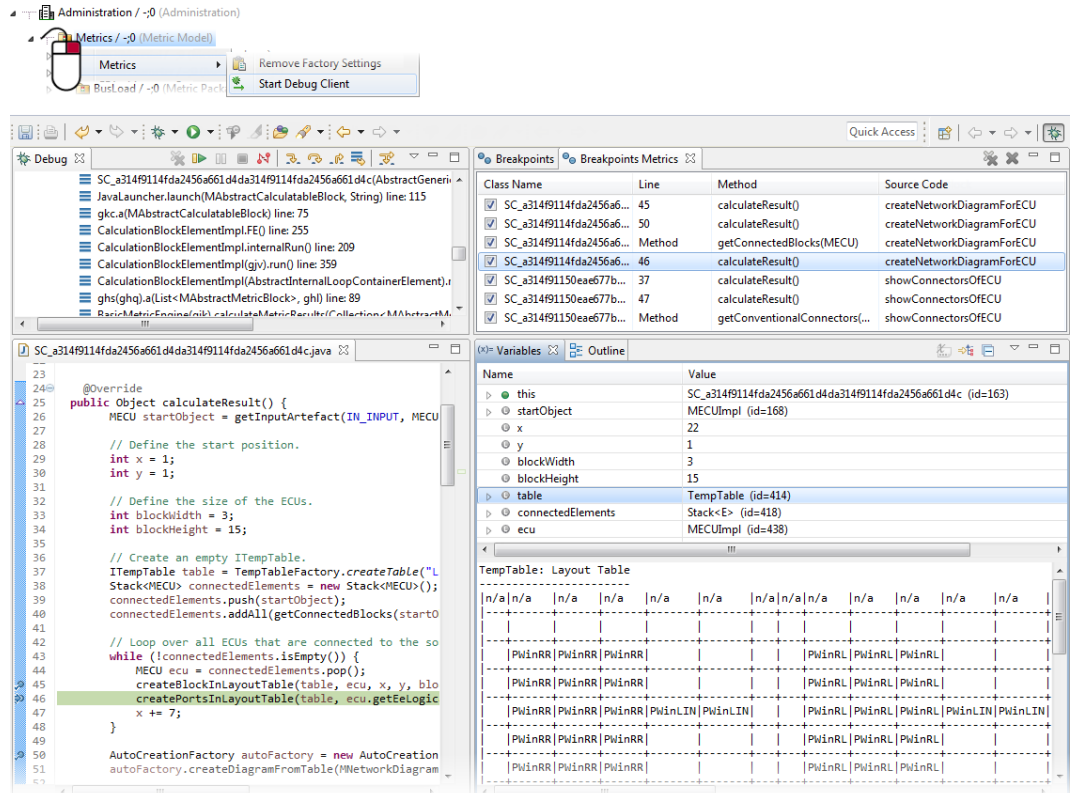
Metric debugger

A separate debug client can be opened to debug Java code of metric *Calculation Blocks*. The independent debug thread allows you to debug metrics which have an interaction at the user interface (e.g. metrics used in tables).

The debug client provides default Eclipse views to:

- > define breakpoints
- > trace values of variables
- > control the debugging process

The debug client can be opened on the **Metric Model** via context menu **Metrics | Start Debug Client**.



Precompiling source codes

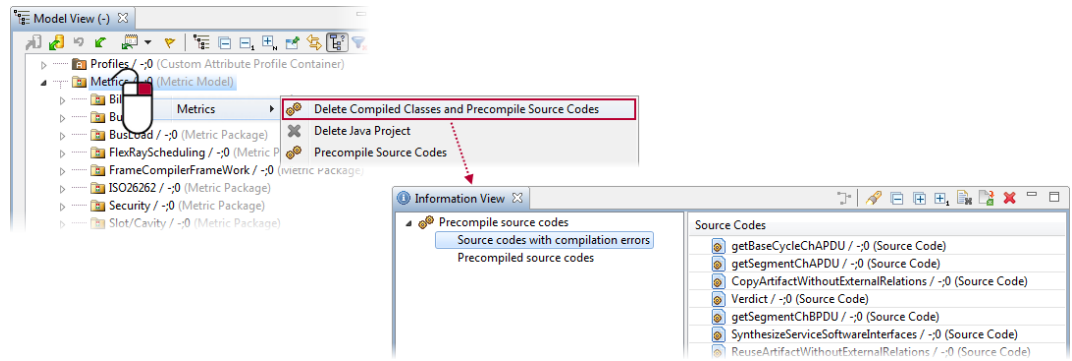
Metric source codes are now compiled in advance. The compiled class files are attached to the *Source Code* artifact and are stored in the model. The performance for executing a metric for the first time thus can be improved, since metrics do not have to be compiled locally for each user.

If a metric source code is edited in the Java editor, the code is automatically compiled and attached to the *Source Code* artifact.

Additionally, on a *Metric Package*, the following actions can be executed to precompile all *Source Codes* located in the selected subtree:

- > **Precompile Source Codes:** only precompiles class files that are outdated or do not have been compiled yet.
- > **Delete Compiled Classes and Precompile Source Codes:** deletes all class files and compiles them again.

The actions can, for example, be used to compile all *Source Codes* after a migration or to check whether all *Source Codes* can be compiled.

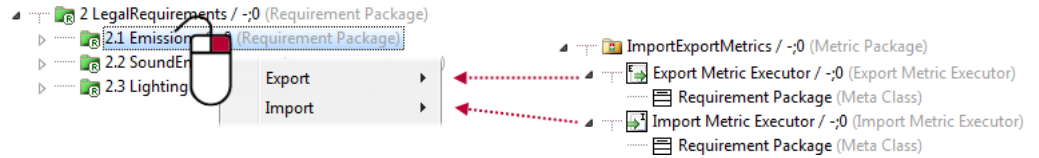


Import and export metric executors

The following new metric executors are available:

- > **Export Metric Executor:** Can be used to provide custom exports in the **Export** context menu.

- > *Import Metric Executor*: Can be used to provide custom imports in the **Import** context menu.



Metric automation for imports and exports

Import and export can be automated using specific metric blocks. New metric blocks are introduced with PREEvision 8.5.

Import and export metric blocks can be created via the palette of the *Metric Diagram*.

The following blocks are available:

Format	Import block available	Export block available
AUTOSAR	YES	YES
AUTOSAR SW Component Update	YES (new)	n/a
AUTOSAR with Merge	YES	n/a
CSV	YES (new)	YES
DBC	YES (new)	YES
EEA Model	YES (new)	YES (new)
Excel	YES	YES
FIBEX	YES (new)	YES
KBL	YES	YES
LDF	YES (new)	YES (new)
ReqIF	YES (new)	YES (new)
RIF	YES (new)	n/a

Accessing metrics

The following new options can be set on the **General** property page of a *Metric Executor*:

- > **Show in Operations Menu**: Enable this option to display a metric in the **Operations** menu. A new context menu entry **<Model root> Operations** is available to better identify metrics that perform model changes.
- > **Keyboard Shortcuts**: You may define keyboard shortcuts to execute the metric. The assigned keyboard shortcut is also displayed in the context menu.

Auto-start metric

A new *Autostart Metric Executor* is available. The *Autostart Metric Executor* is triggered on scope activation and can be used, for example, to set the workspace.

A `PREEvision.ini` parameter `-dRunAutostartMetric=<true|false>` (default: `true`) is available that allows to turn off the execution of all auto-start metrics in case of failure.

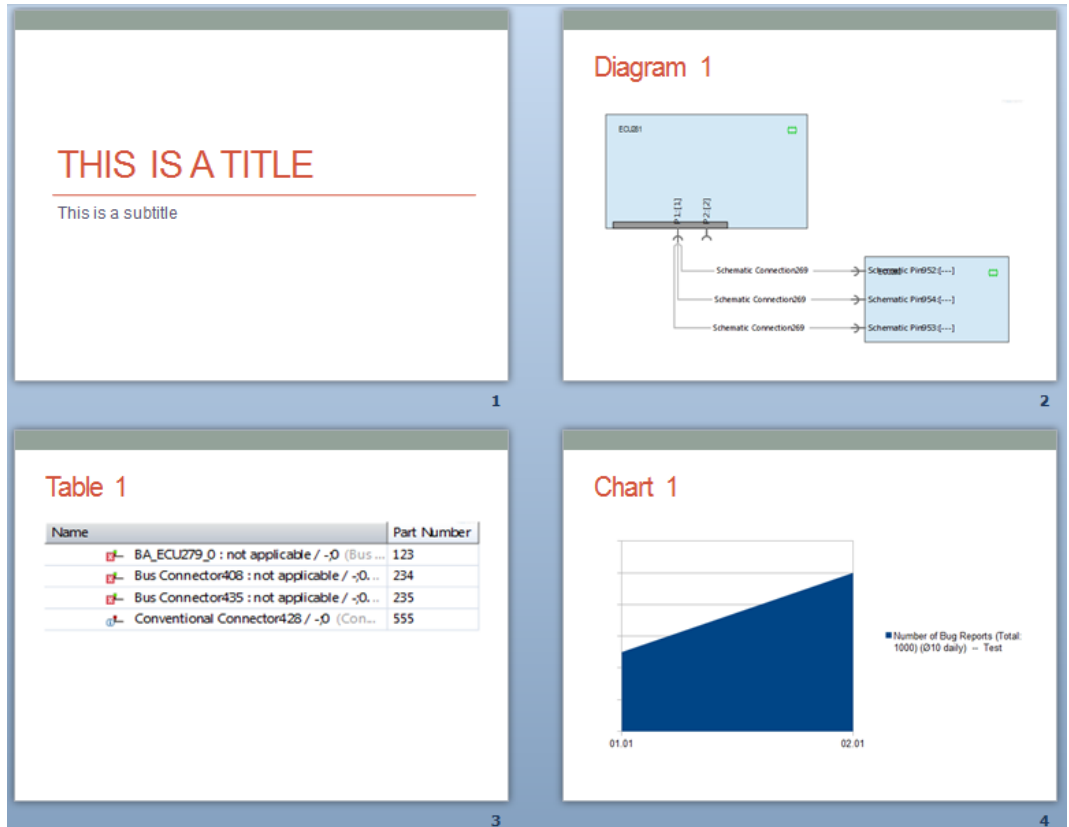
PowerPoint as report

Via metric, PowerPoint slides can be created. The slides may contain data from model artifacts and may contain

- > diagrams
- > tables
- > charts

The *PowerPoint* report is based on a customizable PowerPoint template file.

A well-documented metric example ("PowerPoint Metric Diagram") is available in the demo model.

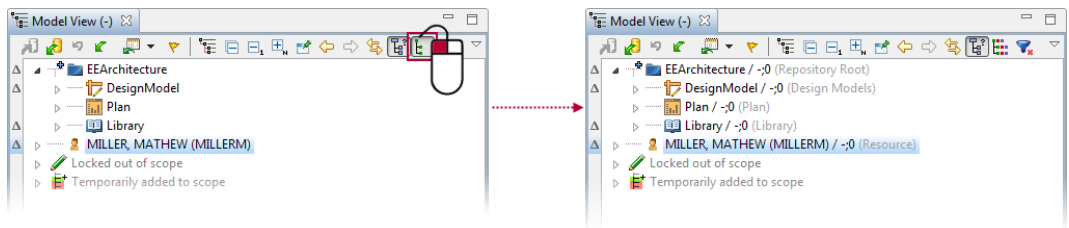


19.3.8 Usability

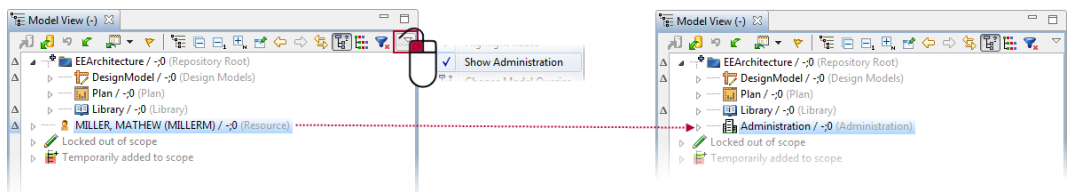
Simplified model view

By default, detailed artifact information, like branch, revision and meta class information as well as the complete *Administration* (except for the own user) are hidden in the **Model View**.

Detailed artifact information can be activated via toggle button in the **Model View** toolbar.



The *Administration* can be displayed via the **View** menu.



The latest active setting is reapplied at the next client startup.

The attributes to be removed in the simple representation can be defined in the object configuration with the new tag <details>.

```
<groupNoAttribute> <group>{aliasName}: </group> </groupNoAttribute>
{name}<details> <group> / {ArtifactBranch};{ArtifactRevision}</group>
<grey>{{ArtifactType}}</grey> </details>
```

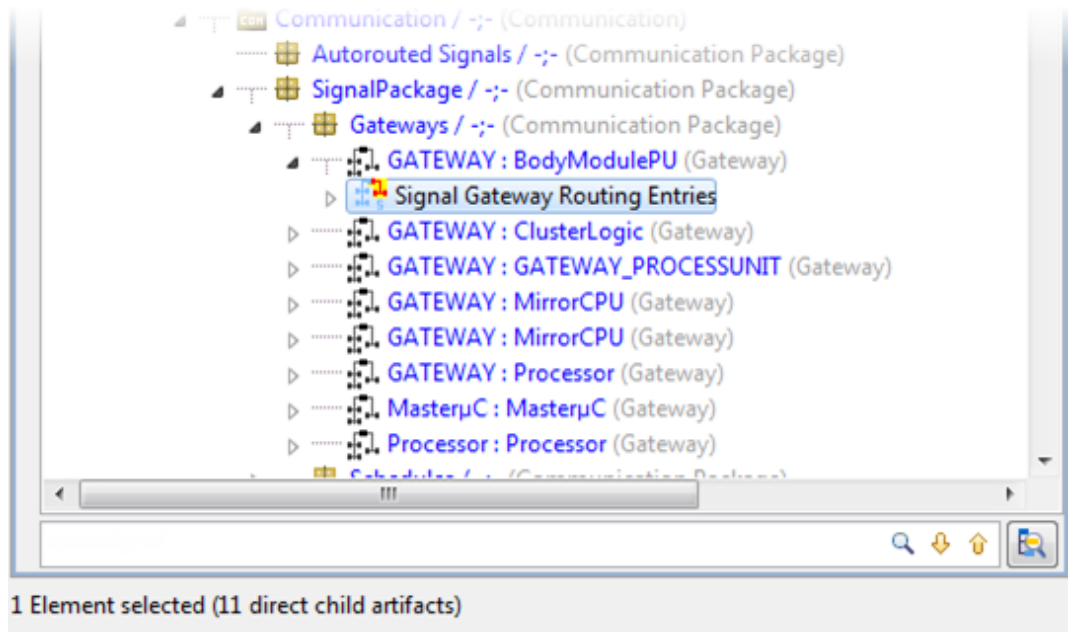
Model view: navigation buttons

In the **Model View**, navigation buttons forward and backward are available which follow the selection in the **Model View**.



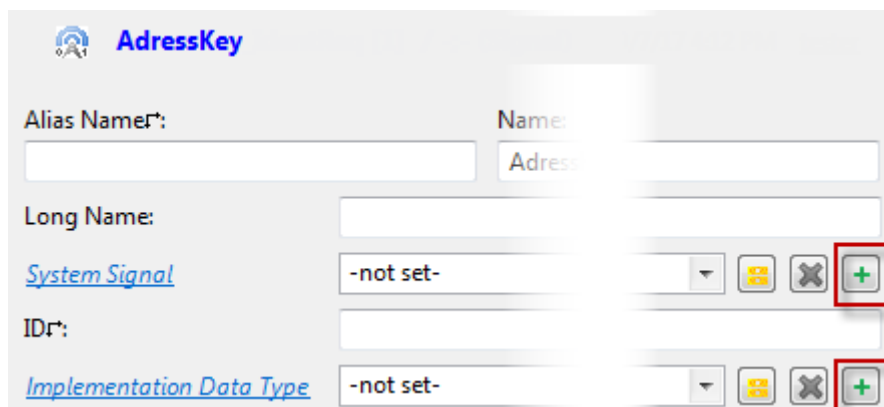
Model view contained artifacts

Selecting artifacts or virtual folders etc. in the **Model View** shows the amount of the directly contained artifacts in the status bar.



Property view: creating new artifacts

It is now possible to create a related artifact directly in the **Property View**. This is possible for to-one relations via the  button.

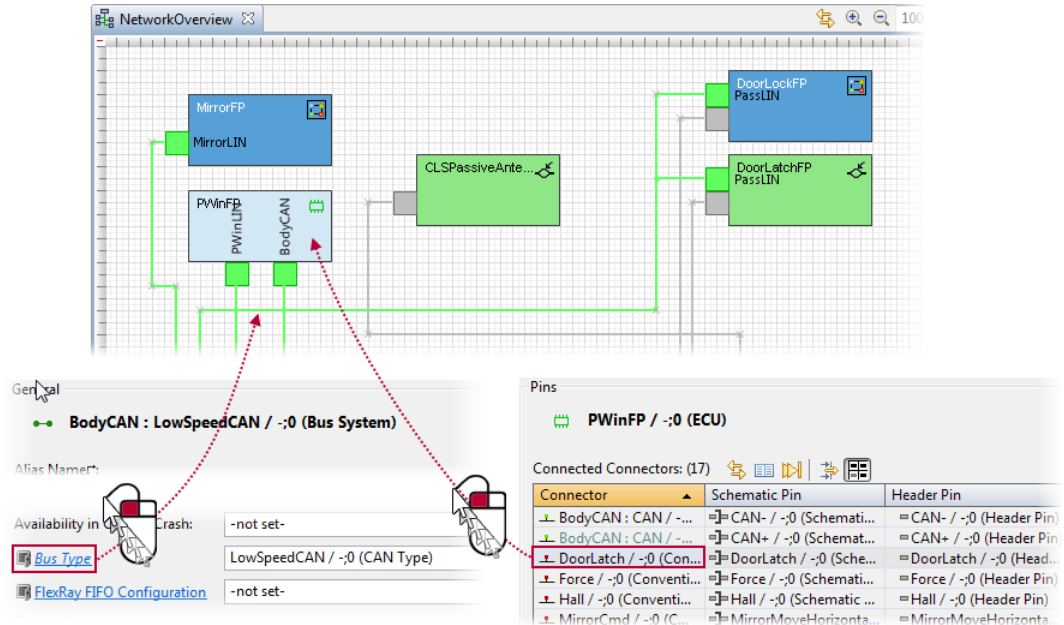


In the **Create Artifact** wizard, a suitable meta class and the context of the artifact to be created can be selected. Finishing the wizard automatically sets the relation from the source artifact to the newly created artifact.

Property view: drag and drop support into editors

It is now possible to use drag and drop from the **Property View** to editors, e.g. diagrams, tables or formatted text editors.

In the **Property View**, table elements including a multi-selection as well as hyperlinks of related artifacts can be selected as source for the drag and drop operation.



Depending on the target, the drop action can be

- > add artifact to a diagram
- > set a relation
- > create a placeholder (formatted text)
- > create a URL (e.g. Outlook)
- > paste the name (e.g. text editor)

Further features of the property view

The following additional new features are available in the **Property View**:

- > In case that a property page contains several formatted text fields or contains several tables the heights of the controls are calculated according to their content. Empty controls are displayed with a minimum size, controls with content get more space. If the height of a control is manually adjusted, then the height is stored for the corresponding meta class during client runtime.
- > By default, the **Description** field is now shown at the bottom of the property page for a better recognition of available attributes.
- > If multiple artifacts are selected, the multi-edit mode is active in the **Property View** by default.
- > All tables on the **Mappings** property page show the source and the target parent, now.

SW Mappings: (3)

Source	Source (Parent)	Mapping	Target	Target (Parent)
Ct_WarningGenerator...	LKA / -; (Composition)	Mapping_Ct_Warnin...	Driver Assistance Mai...	Driver Assistance / -; (ECU)
Cp_ComputeCounter...	LKA / -; (Composition)	Mapping_Cp_Compu...	Driver Assistance Mai...	Driver Assistance / -; (ECU)
Cp_MaxValueDelimit...	LKA / -; (Composition)	Mapping_Cp_MaxVal...	Driver Assistance Mai...	Driver Assistance / -; (ECU)

- > For tables displayed in the **Property View**, the number of rows is displayed in brackets.

Index	Logical Connector
0	MirrorObs / -;0 (Conventional Connector)
1	MirrorCmd / -;0 (Conventional Connector)
2	Hall / -;0 (Conventional Connector)
3	Force / -;0 (Conventional Connector)

Change history

A compact presentation of the **Change History** is available that shows the changes of an attribute or a relation at a glance.

The screenshots show the 'Change history' window for the 'Powertrain Domain Controller' component. The window displays the current value and a table of historic values with their respective commit versions and timestamps.

Change history for Description:

Current value (Description)	Historic value (Description)
253	252
Description of the Powertrain Domain Controller	Description of the Powertrain Domain Controller

Change history for Name:

Current value (Name)	Historic value (Name)
253	252
Powertrain Domain Controller	Power Train
Powertrain Domain Controller (0, -), Wed Oct 04 14:51:19 CEST 2017, VISROT	Powertrain Domain Controller (0, -), Wed Oct 04 14:48:53 CEST 2017, VISROT

Change history for Logical Connectors:

Current value (Logical Connectors)	Historic value (Logical Connectors)
253	185
BA_ECU279_0 : not applicable / -;0 (Bus Connector) Bus Connector408 : not applicable / -;0 (Bus Connector) + Bus Connector435 : not applicable / -;0 (Bus Connector) + Conventional Connector428 / -;0 (Conventional Connector)	BA_ECU279_0 : not applicable / -;0 (Bus Connector) Bus Connector408 : not applicable / -;0 (Bus Connector) - Bus Connector409
Powertrain Domain Controller (0, -), Wed Oct 04 14:51:19 CEST 2017, VISROT	Powertrain Domain Controller (0, -), Fri Sep 29 10:31:22 CEST 2017, VISROT

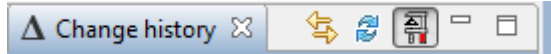
Depending on the attribute type, different compare tables are offered:

- > For formatted text, the LibreOffice compare is displayed.
- > For other attributes, changes are displayed in a table.
- > For relations, a "+" indicates an added relation, a "-" indicates a deleted relation.

It is possible, to select a commit version in the historic value area to compare the actual value with another commit version

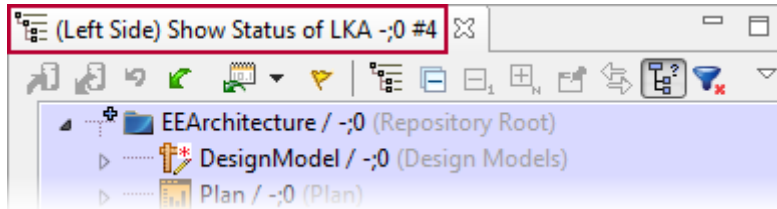
Current	253	Historic value (Logical Connectors)	185
BA_E		BA_ECU279_0 : not applicable / -;0 (Bus Connector)	185
+ Bus C		Bus Connector408 : not applicable / -;0 (Bus Connector)	179
+ Conv		- Bus Connector409	

The compact representation does not show entries for differences to the initial value. In the toolbar of the **Change History** view a button to switch between the simple and the extended representation is available. The simple representation is set to default in the **Preferences**, the latest selected representation is locally persisted.



Comparing artifacts

For a better identification of compared artifacts, in the view titles, the artifact name and the commit version is now additionally displayed.



Scratchpad

A *Scratchpad* is automatically created if a new *Resource* is created, now. If a user without an existing *Resource* in the model is in the scope definition mode and defines a new scope the *Resource* and a *Scratchpad* are now created. The *Scratchpad* of the user is automatically added to a scope. Like the *Administration* node, the *Scratchpad* cannot be deleted from the scope.

Setting workspaces

The dialog for setting a workspace preselects the corresponding mapping container in the active *Product Line*. If the target is not distinct, the parent is preselected. Only parents with selectable, valid children are offered in the dialog.

Excel import and export

The XLSX format is now supported for the Excel export and for Excel import and export metric blocks.

	XLS	XLSX
Maximum rows	65.536	1.048.576
Maximum columns	256	16.384
Maximum characters in cell	1024	32.767

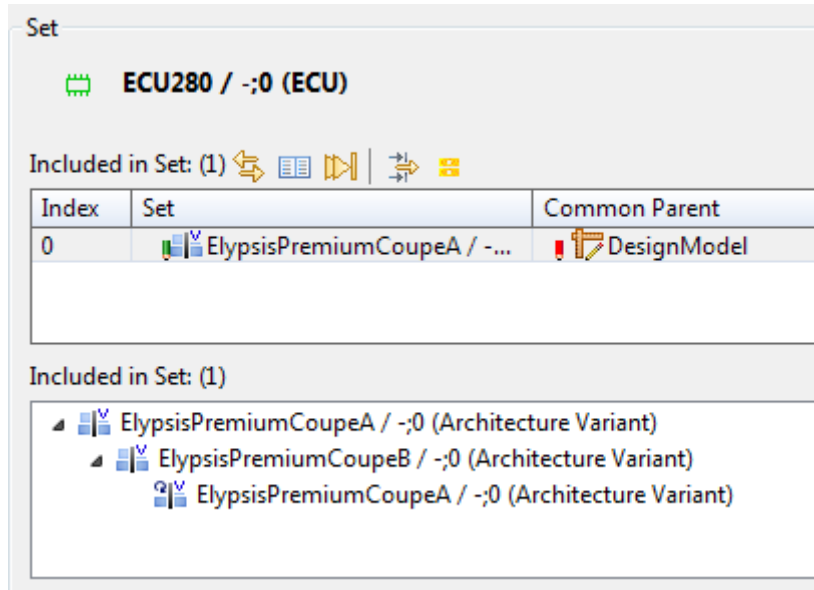
Multi-file support for KBL and DBC import

Via the **[Load]** button, multiple files can now be selected for the KBL import and the DBC import. Each file is imported into a separate import package.

Reducing rules for AUTOSAR and DBC export

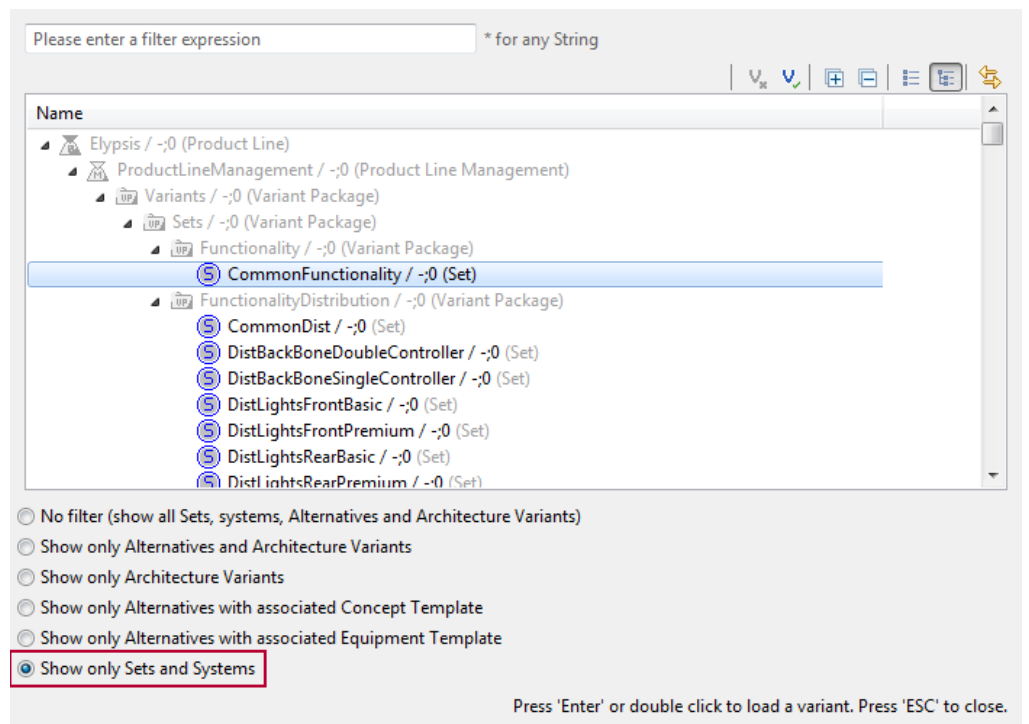
Reducing rules for reducing the export scope are now supported for the AUTOSAR and DBC export.

Displaying set hierarchy The hierarchy of a *Set* (included/excluded) is now displayed on the **Set** property page. If a recursion of the *Set* hierarchy occurs, the recursion is indicated by an overlay icon and the tree is no further expanded.



Activating variants The variant selection dialog, which can be opened in the status bar, has been enhanced:

- > Variants can be displayed as tree view or list view.
- > Using the type-ahead filter is possible in the tree view and the list view.



Variants can be activated and deactivated via:

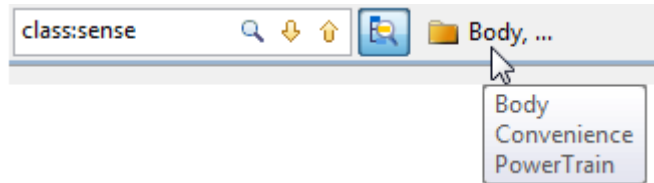
- > shortcut
- > **Model View**
- > variant selection dialog

Sets and Systems can be activated in the same way like variants can be activated.

All features like activation, indication of variant states in the **Model View** with icon decorators or the fading out of artifacts in diagrams which are not part of the *Set/System* are available.

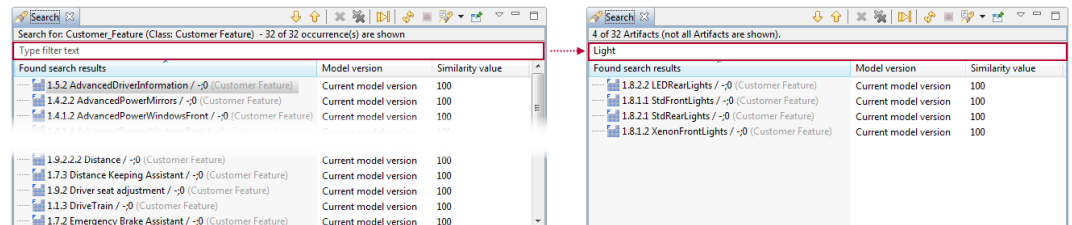
Display of selected search context artifact in quick search

When using the **Search in selection** option for the quick search in the **Model View**, the corresponding selected context artifact will be displayed. By clicking on the displayed context artifact the corresponding artifact will be selected in the **Model View**.



Filtering search results

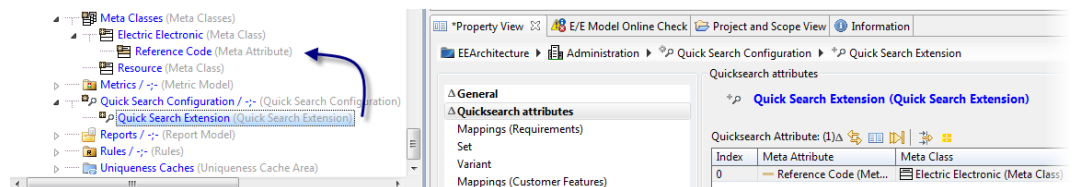
The type-ahead functionality of the **Search** result view can be used to filter the search results for specific search items.



Quick search extension

It is now possible to define attributes that are automatically considered in the quick search without the need to enter a fully qualified search term like `class:Electricelectronic;referencecode:H1_2012`.

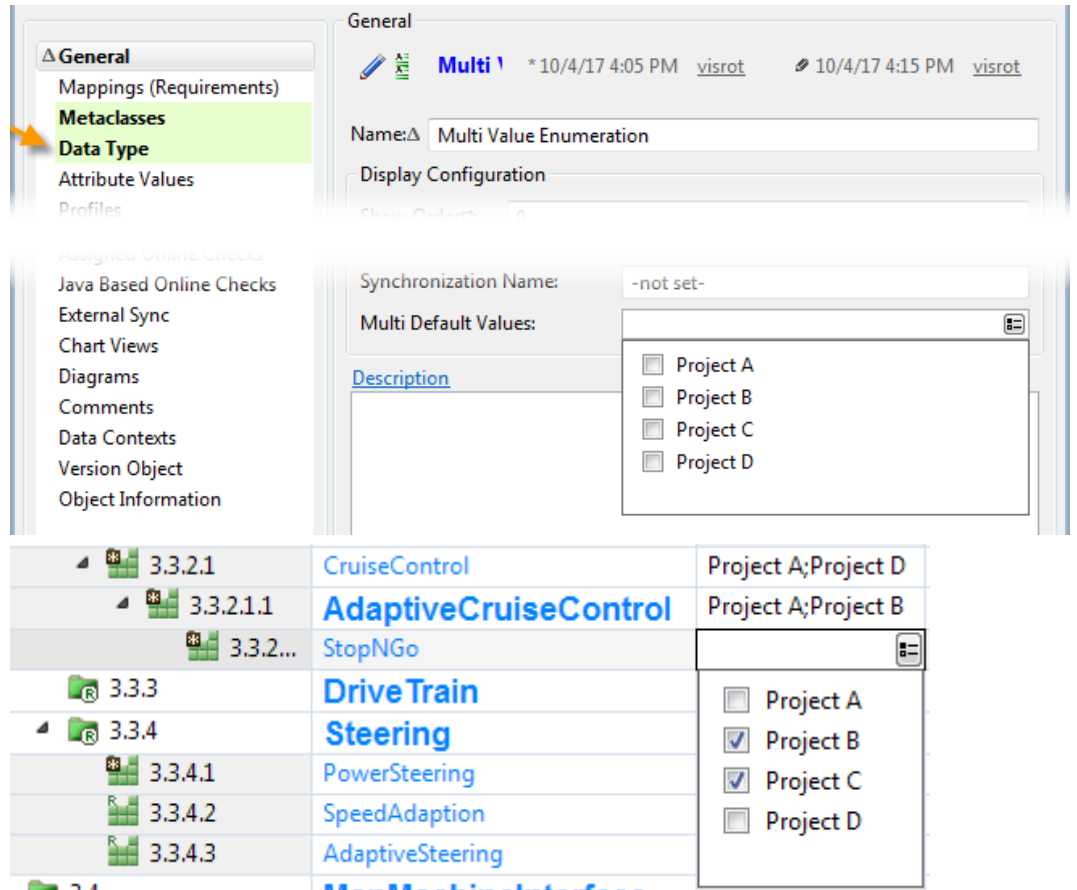
The definition of a *Quick Search Extension* is done by a relation to a *Meta Attribute*.



Multi-value enumerations

For custom attributes, a new *Multi Value Attribute Definition* is available, that allows you to activate several literals of the enumeration. For the *Multi Value Attribute Definition*, a default value can be set.

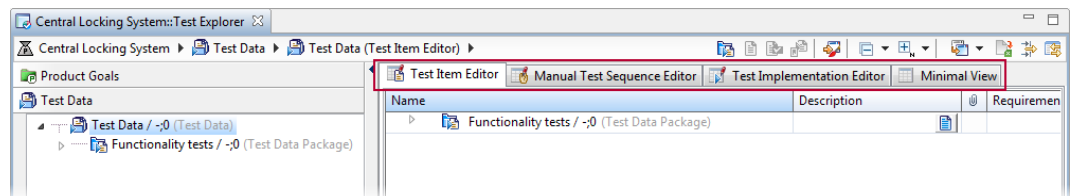
For displaying *Multi Value Attribute Definitions*, a special control is displayed in tables and the **Property View**. Entries in the control and in table cells are sorted by the index. In table cells, active entries are separated by a semicolon. Filtering and sorting in tables is possible.



Explorer

Categorizations are now available for the explorer. Categories are displayed in the **New** and the **Open With** context menu.

Available tables are now displayed as tabs within the explorer for easier identification of available tables.



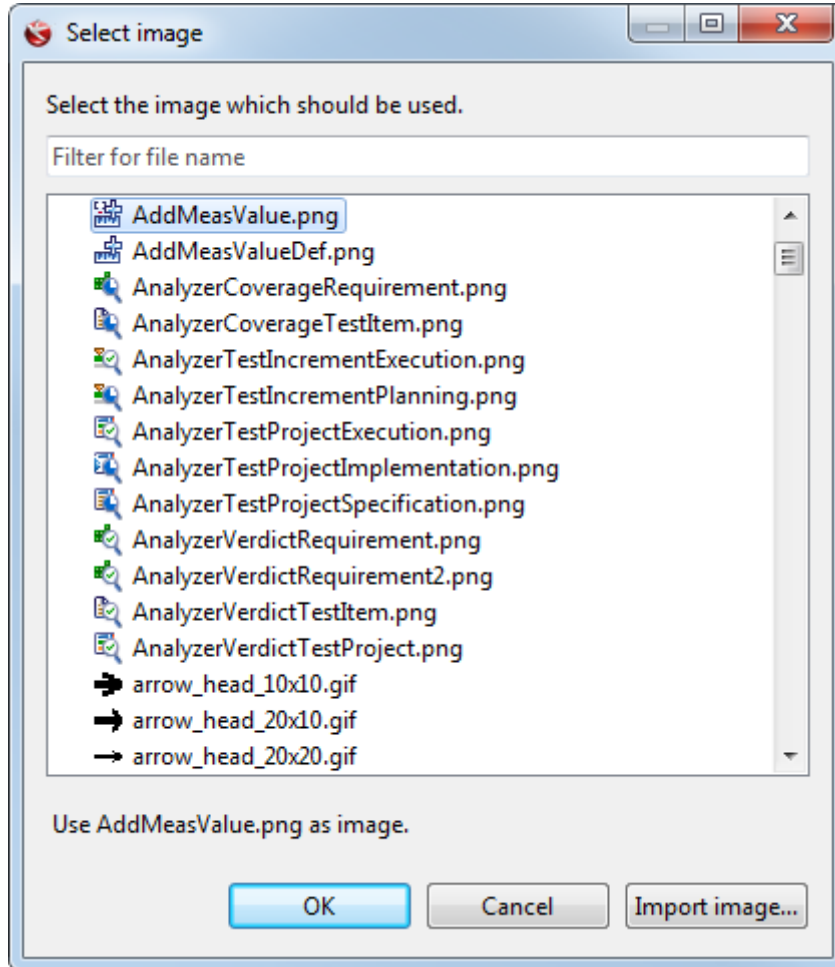
An explorer can be used in a **Portlet View**.

The explorer follows the selection in the **Model View**.

The explorer can be added to the **Portlet View** via drag and drop.

Icon preview in the selection dialog

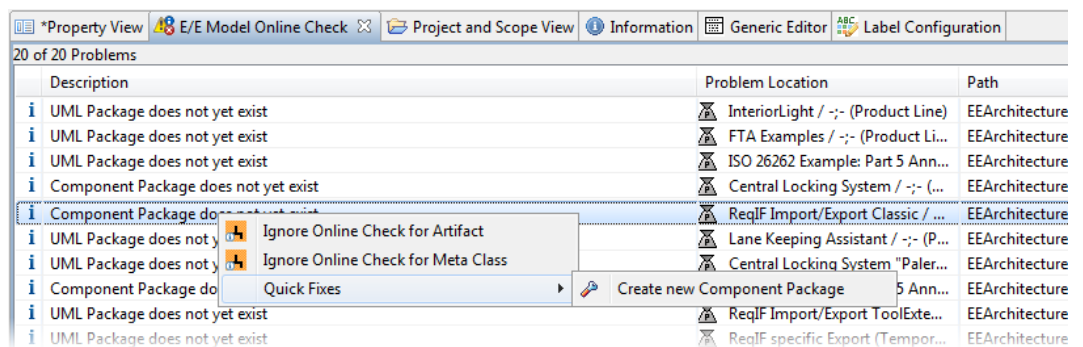
When opening the **Select image** dialog, a preview of the images is displayed. The preview can only be displayed for images smaller than 250 px. Additionally the type-ahead functionality allows filtering the list of images.



Online checks

Quick fixes for online check results can now be directly executed in the **E/E Model Online Check** view.

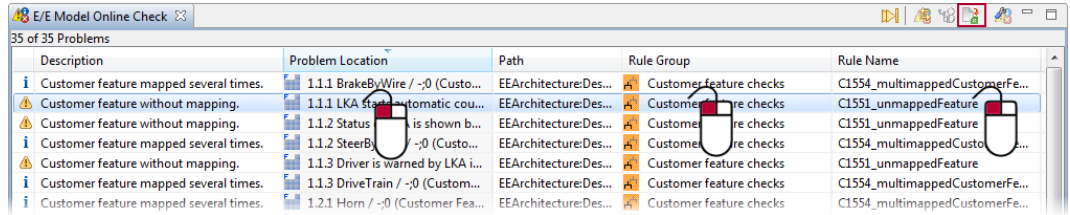
Select an online check result, open the context menu and select an available quick fix in the **Quick Fixes** submenu.



E/E model online check view

In the **E/E Model Online Check** view, it is now possible to navigate to the referenced *Consistency Rule Groups* and *Consistency Rules*. Clicking on an item in one of the columns **Problem Location**, **Rule Group**, or **Rule Name** selects the corresponding artifact in the **Model View**.

Furthermore, it is possible to export the content of the **E/E Model Online Check** view to Excel. The **Problem Location** is exported as link in Excel.

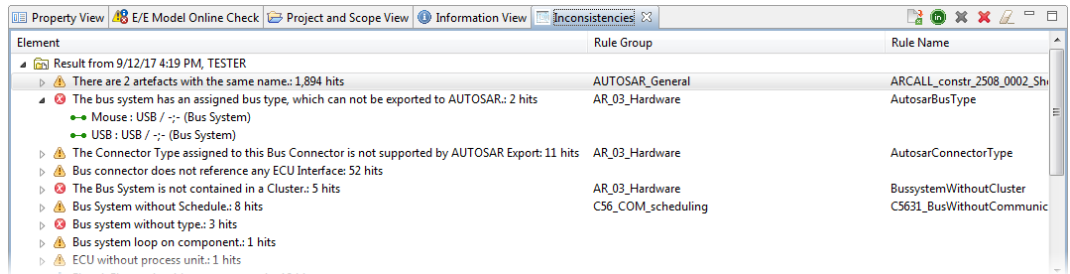


Inconsistencies view

The table in the **Inconsistencies** view shows the *Consistency Rule Group* and the *Consistency Rule* by which an artifact is hit. The severity and the description are now shown together with the amount of hits in the parent node.

In the **Inconsistencies** view, it is now possible to navigate to the referenced *Consistency Rule Groups* and *Consistency Rules*. Clicking on an item in one of the columns **Element**, **Rule Group**, or **Rule Name** selects the corresponding artifact in the **Model View**.

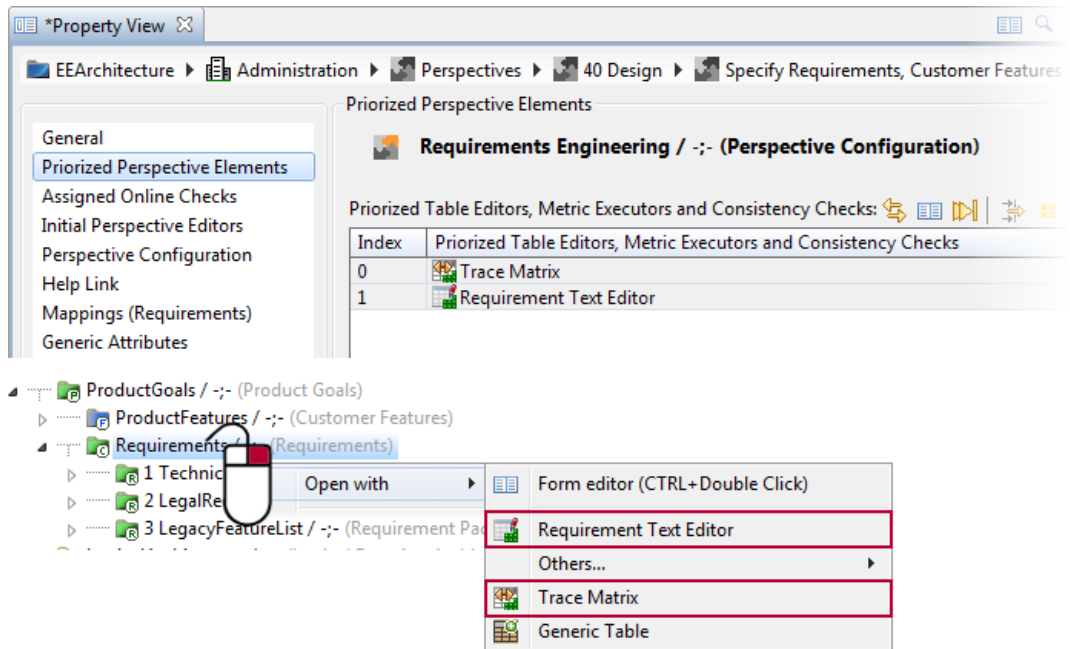
Furthermore, it is possible to export the content of the **Inconsistencies** view to Excel. The problem that caused the finding is exported as link.



Perspective configuration

In addition to online checks, tables, metrics and consistency checks can be assigned to a *Perspective Configuration*.

For quick access, the assigned tables, metrics and checks are presented on top level in the context menu of the **Model View**. Other available items that are not assigned to the *Perspective Configuration* are now located in the submenu **Others**.



Opening a perspective allows to initially open tables, diagrams or explorer editors. The editors to be initially opened can be assigned on the **Initial Perspective Editors** property page of the *Perspective Configuration*.

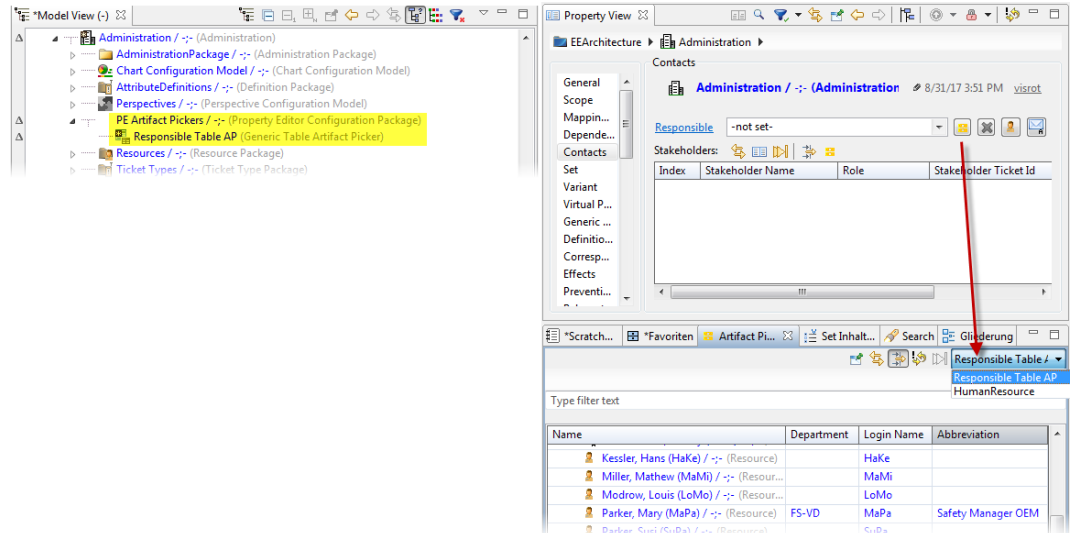
Context of artifact pickers

When configuring an *Artifact Picker*, it is now possible to assign a context. For example, it is possible to only show types of the *Library* within the active *Product Line*.

Artifact picker for property view

In addition to custom *Artifact Pickers* for tables, it is now possible to define *Artifact Pickers* for the **Property View**. All *Artifact Picker* types are available.

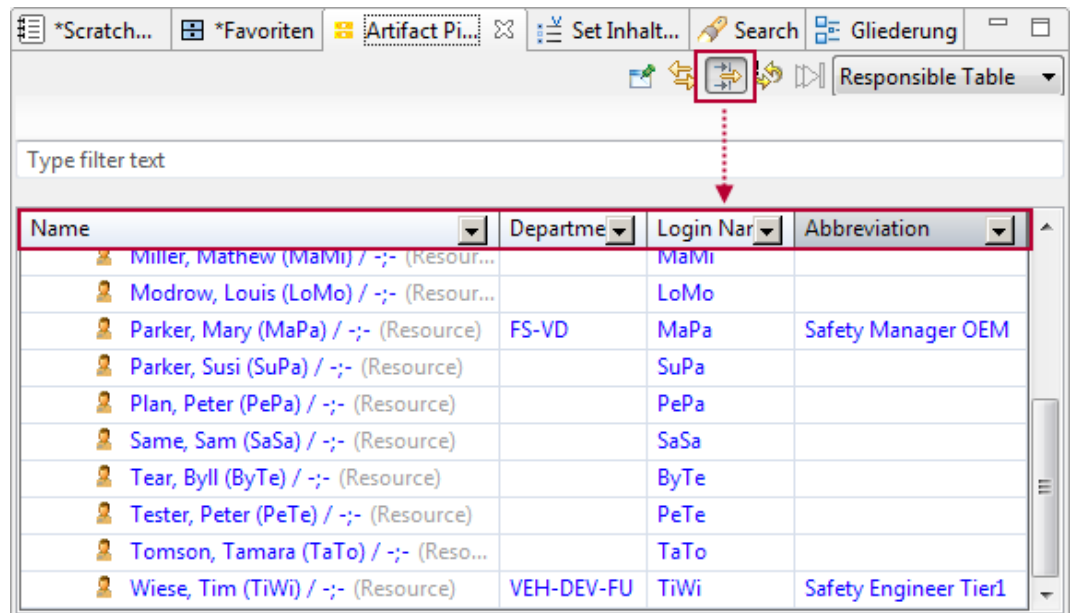
A custom *Artifact Picker* for the **Property View** is shown preferential in the drop-down list of the *Artifact Picker*. Several *Artifact Pickers* can be defined for a meta class. The order of the available *Artifact Pickers* in the drop-down list can be adjusted.



Column filters for artifact picker

The button for the activation of the column filters is now available in the toolbar of the *Artifact Picker*.

All filters are available, allowing to search selectively in a shown column.

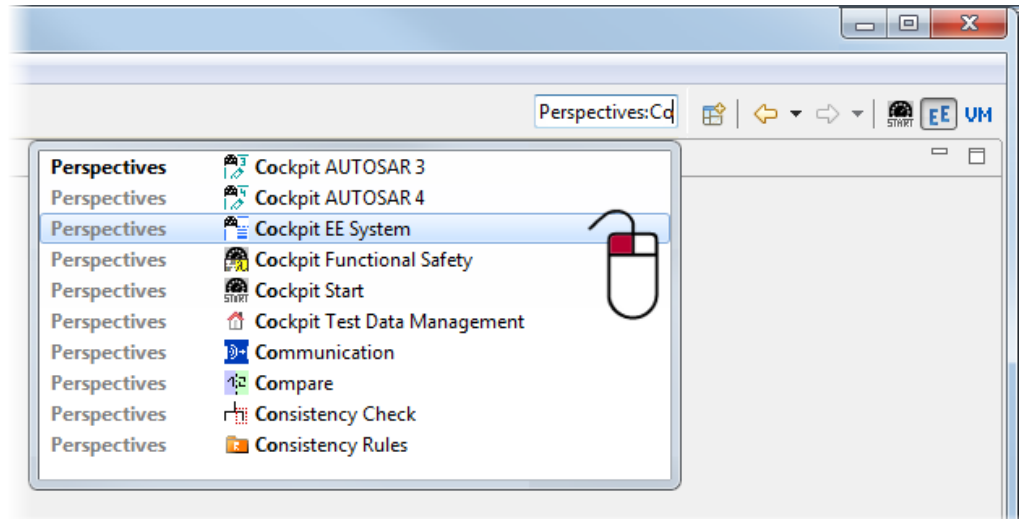


Eclipse 4.6

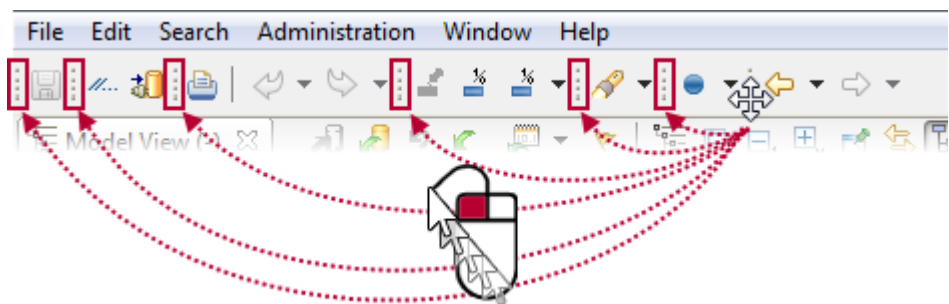
The underlying Eclipse version has been updated to version 4.6.

Due to the update, the following new features are available:

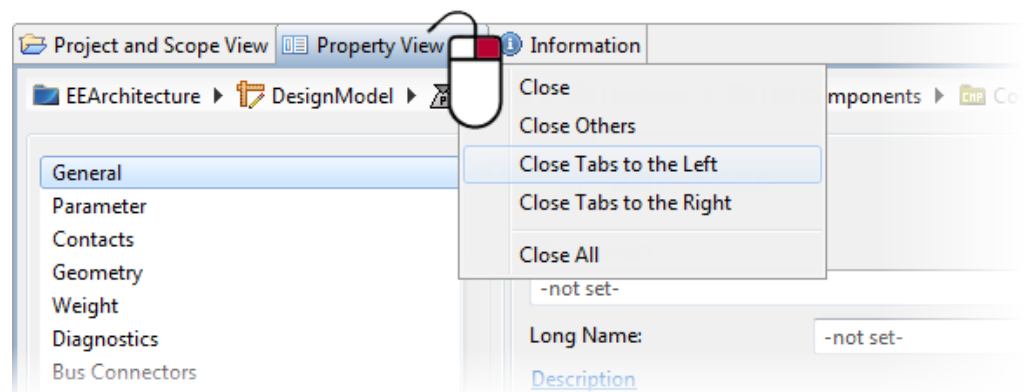
- > Support of high-DPI monitors via resolution-based auto-scaling
- > Commands and shortcuts to zoom in text editors
- > Quick access improvements



- > Hiding window toolbars
- > Full screen mode
- > Substring code completion
- > Rearranging toolbars and perspective buttons



- > Closing several views in one step



19.3.9 Administration



Reference: For detailed information about the installation, administration, operating and migration, refer to the PREEvision operating manual.

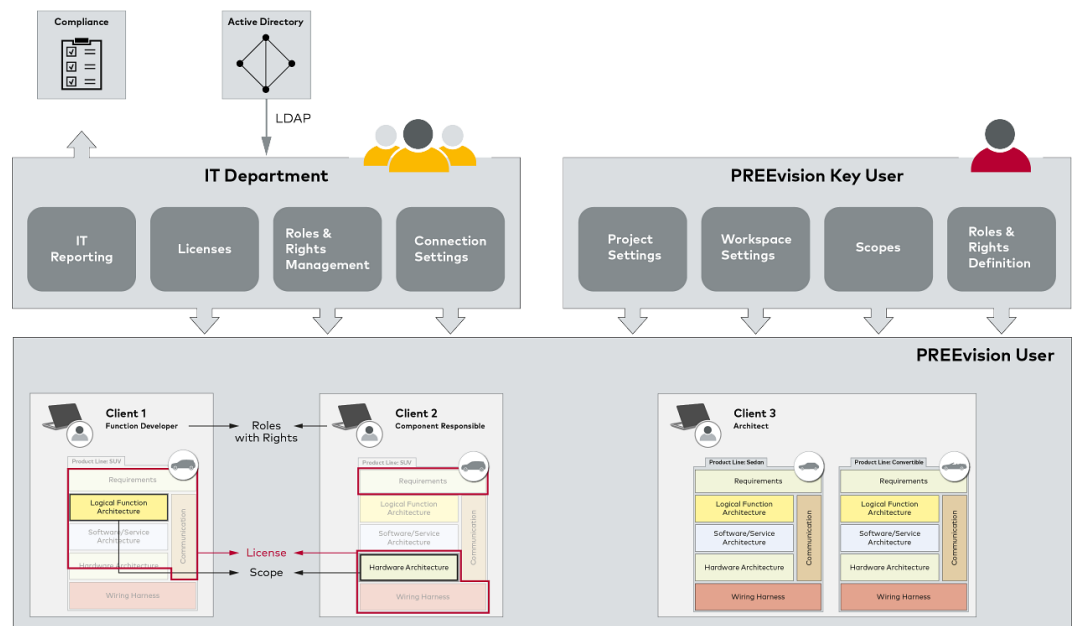
Centralized administration

PREEvision 8.5 features a centralized administration for all aspects concerning users and licenses as well as a central provisioning of installation settings. These new features, motivated by the continuously rising number of PREEvision installations per customer,

are streamlined to the needs of IT departments and PREEvision administrators. They can now, for example, assign PREEvision licenses, named user licenses as well as floating licenses, in one single interface.

Centralized administration in PREEvision 8.5:

- > Single interface to manage users and licenses
- > Central provisioning of settings and preferences of PREEvision clients
- > Reporting according to internal compliance



User and license management

A new User Editor is available in the authority model to

- > display all relevant data required for the user administration
- > reduce and optimize operation tasks (mass operations)
- > provide a central security view for IT audits
- > help you to get an overview of the available users and to check whether they are correctly configured
- > to add/delete users by using a single editor instead of performing operation tasks in different views and models
- > simplify the import and export of users
- > assign licenses to users

The *User Editor* can be opened in the authority model under "R/R Model" | "Administration" | "Rules" | "Query Model" | "Tables".

Login Name	In Auth...	Name	Groups	Active	In Us...	Administrator	Password	Licenses	In EE...	Name	First Name	Abbrev
ADMINISTRATOR	<input checked="" type="checkbox"/>	ADMINISTRATOR	Developer Use, Administrator, Viewer User G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*****		<input type="checkbox"/>			
ARBUCKLEJ	<input checked="" type="checkbox"/>	ARBUCKLEJ (U)	Developer Use, Viewer User G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Electric De	<input checked="" type="checkbox"/>	Arbuckle	Jon	
BARNJ	<input checked="" type="checkbox"/>	BARNJ (User)	Developer Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Architect,T	<input checked="" type="checkbox"/>	Barn	Jacky	
CEMANSKIV	<input checked="" type="checkbox"/>	CEMANSKIV (Viewer User G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Electric De	<input checked="" type="checkbox"/>	Cemanski	Viktor	
CKUNSKIH	<input checked="" type="checkbox"/>	CKUNSKIH (U)	Developer Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Electric De	<input checked="" type="checkbox"/>	Ckunski	Harald	
DEBTC	<input checked="" type="checkbox"/>	DEBTC (User)	Developer Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Architect,T	<input checked="" type="checkbox"/>	Debt	Corrina	
KESSLERH	<input checked="" type="checkbox"/>	KESSLERH (Use	Viewer User G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Electric De	<input checked="" type="checkbox"/>	Kessler	Hans	
MaPa	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	Parker	Mary	Safety
MILLERM	<input checked="" type="checkbox"/>	MILLERM (User)	Developer Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Architect,T	<input checked="" type="checkbox"/>	Miller	Mathew	
MODROWL	<input checked="" type="checkbox"/>	MODROWL (U	Viewer User G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Named: PREEvision V8.5.0 (Function Desig	<input checked="" type="checkbox"/>	Modrow	Louis	
PARKERS	<input checked="" type="checkbox"/>	PARKERS (User)	Viewer User G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Architect,T	<input checked="" type="checkbox"/>	Parker	Susi	
PLANP	<input checked="" type="checkbox"/>	PLANP (User)	Developer Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Architect,T	<input checked="" type="checkbox"/>	Plan	Peter	
PREEVISION	<input checked="" type="checkbox"/>	PREEVISION (U	Developer Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*****		<input type="checkbox"/>			
SAMES	<input checked="" type="checkbox"/>	SAMES (User)	Viewer User G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Architect,T	<input type="checkbox"/>	Same	Sam	
system	<input checked="" type="checkbox"/>	system (User)	Administrator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>			
TEARB	<input checked="" type="checkbox"/>	TEARB (User)	Viewer User G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Electric De	<input checked="" type="checkbox"/>	Tear	Byll	
TESTERP	<input checked="" type="checkbox"/>	TESTERP (User)	Viewer User G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****	Floating: PREEvision V8.5.0 (Electric De	<input checked="" type="checkbox"/>	Tester	Peter	
TIWi	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	Wiese	Tim	Safety
TOMSONT	<input checked="" type="checkbox"/>	TOMSONT (Us	Viewer User G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*****		<input checked="" type="checkbox"/>	Tomson	Tamara	

Floating licenses

Floating licenses can now be assigned to defined users (white listing). The licenses can only be used by the assigned users. Over-provisioning is possible, i.e. more users than available licenses can be assigned to a floating license.

If the PREEvision client is started, the license is dynamically reserved. If the PREEvision client is closed, then a reserved floating license is released again and can be reserved by another user. Each assigned user may dynamically reserve a license until the total number of available licenses is reached.

Central provisioning of settings and preferences

To apply company standards and simplify ongoing configuration and user interaction, silent deployment of the PREEvision client is possible with Windows installer technology and/or Group Policies

The following settings can be managed by the IT department, the project manager and/or key user and be provisioned during rollout:

- > Program settings (PREEvision.ini can be customized)
- > User configuration (Eclipse)
- > Preconfigured workspace
- > Connection settings
- > Project settings
- > License settings

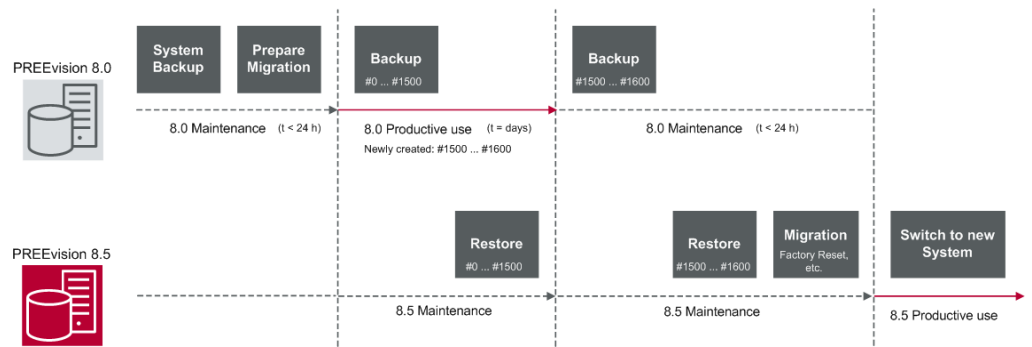
Data migration in steps

Incremental backup and restore has been introduced to

- > realize a migration in steps (several steps in a continuous migration process)
- > minimize maintenance time
- > reduce the offline periods
- > realize a hot backup without offline period

For a migration to PREEvision 8.5, the data integrity of the PREEvision 8.0 model to be migrated must be ensured. Therefore, new actions are available in the **Model Management** view of the **Administration** perspective. Furthermore, the **Backup** dialog has been enhanced and now provides two tabs:

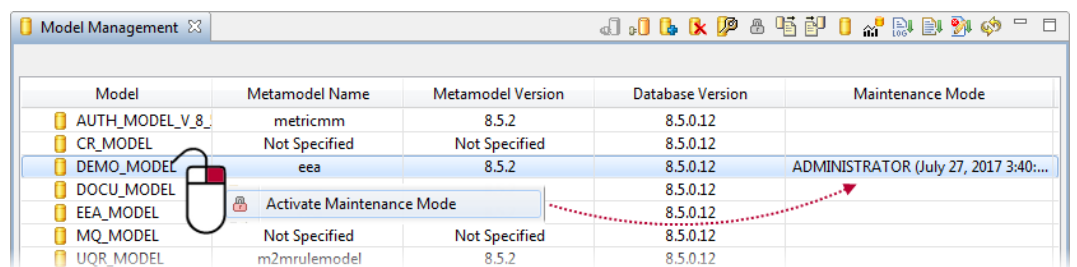
- > The **Complete** tab offers options for creating a complete backup of the model including all model versions.
- > The **Incremental** tab offers options for creating backup chains to realize a step-wise migration.



Maintenance mode

It is now possible to activate and deactivate a maintenance mode for a model.

The maintenance mode can be activated/deactivated in the **Model Management** view. If the maintenance mode is active, then the user cannot login to the model and no changes can be performed by any user.



The following administration actions can only be performed if the maintenance mode is active. If the maintenance mode is not active, these actions are not available in the context menu.

- > **Anonymize**
- > **Prepare Migration**

During restore of a model, the maintenance mode is automatically activated.

19.4 Changes

- Deprecated features** PREEvision 8.5 does no longer support:
- > the master database functionality
 - > AUTOSAR 3.2.1
 - > AUTOSAR 3.2.2

19.5 Fixed issues

Fixed issues in PREEvision 8.5

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

Further information

- > Common
- > Diagrams
- > Tables
- > Requirements
- > Logical function architecture
- > Software architecture
- > AUTOSAR
- > Communication
- > Hardware architecture
- > Geometry
- > Product line approach
- > Functional safety
- > Change and release management
- > Test engineering and test management
- > Rules
- > Metrics
- > Reports
- > Collaboration
- > Administration
- > Installation
- > Migration
- > License

19.5.1 Common

Issue ID	Resolution	Category
1794156632647	The action Window Hide Tabs for Perspective is correctly applied to the perspective even if the window is resized.	Common
1793917758454	Switching a deleted perspective does not cause an error.	Common
1790790669824	A new filter option is available in the Model View to show shared locks and changed artifacts of the user.	Common
1793916149823	In anticipation of a future change in the Artifact Picker the sorting behavior of its table has been changed. It is now possible to sort the table as long as there are less than 500 artifacts shown, even if there is an active name filter applied. Sorting is still	Common

Issue ID	Resolution	Category
	disabled if there are more than 500 artifacts shown. This is done to prevent extended wait times.	
1793832839129	Drop-down lists provide scrollbars if there is not sufficient screen space available for displaying all elements completely.	Common
1793585132689	Enumeration entries of custom attributes are now correctly displayed in the list-style property page.	Common
17938286087302791	The default value of enumerations is now shown for custom attributes.	Common
1794004619129	For tables displayed in the Property View , the reorder functionality works correctly again. Move up and down can be performed several times without losing the selection.	Common
1794011772647	In the Property View , a table with entries gets more space on the page than an empty table.	Common
1794169022647	The Dereference and the Delete action that are available in tables of the Property View have been adapted. The Dereference action is only available if a relation exists between the artifacts. The Delete action is available for source or target composite relations or if no relation exists between the artifacts.	Common
1793971962647	Multi-selection editing in the Property View is now also available for custom attributes.	Common
17938285566669824	Multi-selection editing in the Property View is now also available for cost and weight types.	Common
17943636352791	If multi-selection is activated in the Property View , values that are changed are now displayed properly.	Common
17938285649362791	In Property View tables, "-not set-" is displayed if the table cell value is null or empty. Otherwise, the value is correctly displayed.	Common
17938285649462791	A tooltip is displayed when hovering over check boxes that indicate the "not set" state. This is done to improve the visual differences between the three states that a check box can represent. This change applies to check boxes in the Property View and configurable tables.	Common
17938285652279106	For EE attributes, the selection of enumeration literal values is possible in the Property View .	Common
1793569172647	Artifacts that have been deleted during a merge operation are displayed in the Information View with class and UUID.	Common

Issue ID	Resolution	Category
1793806768454	The <i>Application Enumeration</i> value can be set via drop-down list now.	Common
1793916072672	<i>Application Literals</i> can be created via the New context menu on <i>Constant Specifications</i> , <i>Array Specifications</i> , and <i>Record Specifications</i> .	Common
1793917939129	For <i>Array Specification</i> and <i>Record Specification</i> missing New context menu entries have been added.	Common
1794004119129	Arrays are now represented in the table Implementation Data Type Users on the property page Usage .	Common
1794171289157	Fixed validation of max constraint for application data types: Max is a valid value only if upper limit type is set to CLOSED.	Common
1794017369129	The client starts without any error again.	Common
1792938972676	In file-based mode, changes are always allowed even if an artifact is marked as checked-in (e.g. when exporting a 3-tier model to a file).	Common
1794027078454	Resources allocated by the import wizard are released to allow the garbage collector to free their memory.	Common
1793839619106	Performance of drag and drop actions has been improved.	Common
1793938952656	The performance of the search has been improved.	Common
17938286737209106	The performance of opening the context menu for the first time has been improved.	Common
1792665292793, 1794155572689	The PREEvision online help is displayed correctly again.	Common

19.5.2 Diagrams

Issue ID	Resolution	Category
1790687599051	Show/Hide Ports automatically places the ports at the border of the figure. Populate and Show/Hide Ports automatically place ports if the option is activated.	Diagrams
1792272572709	If tables are displayed in diagrams, texts in table cells are rendered at the exact position when exporting the diagram as image or printing the diagram.	Diagrams
1792594009051	Handling of Open with is changed when an artifact is shown in an already open diagram: <ul style="list-style-type: none"> > If the figure is fully inside the viewport, then no scrolling is performed. 	Diagrams

Issue ID	Resolution	Category
	<ul style="list-style-type: none"> <li data-bbox="708 271 1232 450">> If the figure is intersecting the viewport, then the diagram is scrolled to fully show the figure. If any dimension of the figure is larger than the viewport, no scrolling is performed. <li data-bbox="708 461 1232 674">> If the figure is fully outside the viewport, then the diagram is scrolled to display the figure in the center of the viewport. If both dimensions of the figure are larger than the viewport dimension, the upper left corner is used as target coordinate. 	
1793909457721	Mapping boxes now follow more consistently any movement from their associated parent figure. This improvement especially applies to rotated parent figures.	Diagrams
1793971962709	When displaying a table in a diagram, calculating the optimal width of a cell also considers the font setting in the object configuration.	Diagrams
1793971982709	The label of a connection within a diagram shows the complete text if the connection is long enough.	Diagrams
1793977297721	When diagram elements are copied from a section to another diagram, the layout from the source is used at the target as well.	Diagrams
1793981842709	The PDF export of a diagram no longer displays a white rectangle for configured labels that contain no text.	Diagrams
1794158852647	Increased font size scaling in Windows does not cut off labels in diagrams.	Diagrams
1794192229051	Elements in <i>Legends</i> are no longer selected when using <SHIFT> + click to select all artifacts of the same class.	Diagrams
1794287638454	Type tags in the <code>ObjectConfiguration.xml</code> configuration file are sorted again.	Diagrams
17938285391439005	Selection propagation in diagrams has been improved.	Diagrams
17938285416428454	Changed behavior for saving diagram filters in 3-tier environments: Any change to an already existing filter is only applied to currently opened diagrams of that type. Closing the corresponding diagram(s) performs an undo of any change that has been applied to an already existing filter. This behavior change avoids locking the object configuration file, which would otherwise prevent other users from applying diagram filters. Filters can still be saved via	Diagrams

Issue ID	Resolution	Category
	the Save As button in the Configure Filters dialog, which requires a lock on the object configuration file.	
17938285565598454	All sections are now fully displayed in the Label Configuration view.	Diagrams
17938285593859005	Reordering tables in diagrams does no longer lead to a client freeze.	Diagrams
17938287632569005	Rotating a component now reroutes all connected connections.	Diagrams
17938287770662647	Deletion of components works on migrated diagrams too.	Diagrams
17938287555619823	Settings for highlights are shown correctly again.	Diagrams

19.5.3 Tables

Issue ID	Resolution	Category
1792660052689	Drag-and-drop of an artifact to a table editor refreshes the row in that the artefact is dropped.	Tables
1793911762647	Ordering of table prototype columns has been fixed.	Tables
1793915462647	Reordering columns in a table does no longer lead to display errors.	Tables
1793917749051	The context menu no longer shows duplicate entries for table editors. Entries in the Open With context menu can be categorized.	Tables
1793967462647	The calculation of grouped columns has been fixed in case that no input is set for the group.	Tables
1793967612647	Content within prototype columns is now correctly represented.	Tables
1793971902647	Table prototype columns that are dynamically created via rules cannot be renamed in the Add/Remove/Reorder Columns dialog. [Rename] , double click and <F2> cannot be used for renaming as well.	Tables
1793978982647	Tables now keep the sorting of metric-based columns. The column must own a generic attribute named "sort" which is set to "false".	Tables
1794004622647	The action Show Change History in a table editor opens the Change History view.	Tables
1794181272647	When configuring tables, anchor ports are also evaluated for prototype table columns.	Tables

Issue ID	Resolution	Category
1794182042663	Selection is set properly after navigating to another table in the explorer.	Tables
1794182052663	The correct table is shown after clicking on the navigation button in the explorer.	Tables
1794191152647	Filter entries of the predefined filters in tables are now always synchronized with the displayed table rows.	Tables
1794220187721	When copying content of a table to the clipboard, duplicate lines are now handled.	Tables
1794221357721	The performance has been improved for pasting content into a table.	Tables
1794287659012	Lost and found errors no longer occur when working in tables.	Tables
17943217787721	Double undo within tables no longer causes a corruption of the cache.	Tables
17938285391359822	Charts in table editors are directly displayed when opening the table.	Tables
17938286090879822	Customized drag and drop actions are available again in table editors.	Tables
17938285592062689	Drag and drop on a table column shows only customized drag and drop actions that are valid for the selected column.	Tables
17938287380859822	Tables no longer display an exception, if a model query is used in a table and the model query returns <code>null</code> , because the model contains no artifact of the queries source type.	Tables
17938287369259012	In tables that are displayed on a Portlet View, Open With is now available in the context menu.	Tables
17938286102542647	Tables can now be created under <i>Assets</i> .	Tables
17938287166149106	Editing the filter configuration of a table no longer removes model tree extensions.	Tables
17938287215572647	In drop-down lists within tables, the selected artifact is now correctly processed in case that: <ul style="list-style-type: none"> > the drop-down list contains several artifacts with the same name and > the drop-down list is filtered. 	Tables
17938287431952644	Toolbar actions are no longer missing if a table is opened via Open With .	Tables
17938285652262689	When executing metrics in a table via the table toolbar, auto-lock is performed, if necessary.	Tables

19.5.4 Requirements

Issue ID	Resolution	Category
1792913437721	The requirement list import ignores empty lines now, also if an empty cell has a formatting.	Requirements
1792979422647	The Product Goals import from Excel works again.	Requirements
1793231509129	RIF import: Attribute definitions are moved during RIF import, if the definition is found by UUID and its structure was changed in the RIF file.	Requirements
1793231519129	RIF import: Values of complex attributes are now imported.	Requirements
1793574229129	During merge, formatted texts of the target are no longer overwritten if the target attributes have a higher priority.	Requirements
1793837922647, 1794182152985	The Abbreviation attribute is available on the General property page of <i>Requirements</i> and <i>Customer Features</i> .	Requirements
17938287554529823	Headers are parsed correctly on ReqIF export; the <i>Requirements</i> based on multi span headings are correctly named now.	Requirements
17938287277722647	When using the Product Goals import from Excel , importing product goals with attribute values without existing attribute definition no longer leads to an error.	Requirements
17938286098392647	"Condition as connection" artifacts are handled as <i>Conditions</i> . The set workspace is considered.	Customer features

19.5.5 Logical function architecture

Issue ID	Resolution	Category
1793562300455	The Alias Name has been added to logical architecture artifacts by additional generalizations in the PREEvision meta model.	Logical function architecture
1793619658157	Moving reused logical architecture blocks works.	Logical function architecture
1793835860451, 1793840869129	Selection and open action for <i>Logical Architecture System Diagrams</i> with nested <i>Activity Chains/Installation Spaces</i> works.	Logical function architecture
1793910588157	<i>Activity Chains</i> can be extended in reused diagrams over a connection.	Logical function architecture
1794160638454	When creating an assembly net in the <i>Logical Architecture System Diagram</i> and creating a new port on a receiver block, no block label is created anymore.	Logical function architecture

Issue ID	Resolution	Category
1794166418454	In the <i>Logical Architecture System Diagram</i> , assembly nets can be created between ports and connection edges. Ports can have multiple connections to different ports.	Logical function architecture
1794166428454	Assembly nets can be created between ports and connection edges. Ports can have multiple connections to different ports.	Logical function architecture
17938285412277721	Toolbar buttons of the <i>Logical Architecture System Diagram</i> are now stored per diagram in the PREEvision model.	Logical function architecture
17938285613607721	Moving a <i>Logical Function</i> to a <i>Building Block</i> is now possible in the Model View without error message.	Logical function architecture
17938287602269158	Refactoring a <i>Logical Architecture Diagram</i> to a <i>Logical Architecture System Diagram</i> keeps the connections now.	Logical function architecture

19.5.6 Software architecture

Issue ID	Resolution	Category
17938286117662791	The property pages of the <i>SW Port</i> have been adapted: <ul style="list-style-type: none"> > unnecessary pages have been removed > pages and content have been reordered > tables have been added that show mapped <i>Signals</i> and <i>Signal Groups</i>. Drag and drop is possible between the tables. 	Software architecture
1793575108222	Reuse and copy of <i>Atomic SW Components</i> has been fixed.	Software architecture
1794026026486	The <i>Port Type</i> of the associated <i>Role Based Port Assignment</i> can be set via a drop-down list on the property page. Assignment via drag and drop or the Artifact Picker works as well.	Software architecture
1794028030451	Changing the type of an <i>SW Component Prototype</i> refreshes the corresponding figures in all open diagrams.	Software architecture
17938285410910455	For <i>Data Received Event</i> , the Port Prototype drop-down list and the Artifact Picker display <i>Sender Receiver Port Types</i> now.	Software architecture
17938285410950455	The Property View has been corrected to access data for the reading port type.	Software architecture
17938285625529129	The mapping container <i>SWC To SW Impl Mappings</i> can now be created under <i>Mappings</i> via the New context menu.	Software architecture

Issue ID	Resolution	Category
17938286991128454	In the <i>Software Instance Diagram</i> , the default orientation of delegation ports is changed. Sender ports now face eastwards. Receiver ports now face westwards. If an assembly connection is used to create a new delegation port, the new delegation port aligns its orientation with the source of the connection. Source port and delegation port try to face each other after the alignment, so that the line routing delivers better results.	Software architecture
17938286667949129	The attribute Symbol Name is now hidden on the General property page of a <i>Runnable Entity</i> .	Software architecture
17938286668069129	The attribute Deadline has been removed from the Runnable Entity Attributes property page of a <i>Runnable Entity</i> . The attributes Task Priority and Execution Order have been removed from the Event Configuration property page of an <i>Event</i> .	Software architecture
17938286681359129	The check operation for intervals of numeric values for the constraints minimum and maximum has been corrected.	Software architecture
17938286869380451	All tables on the Internal Behavior property page of an <i>Application SW Component Type</i> display content.	Software architecture
17938287166282791	The Nv Block Needs property page of <i>Nv Block Sw Component Type</i> has been removed. The Service Needs Configuration property page of <i>Nv Block Descriptor</i> has been removed. The Service Needs Configuration property page of <i>Nv Block Descriptor Needs</i> has now the same attributes as the Service Needs Configuration property page of <i>Nv Block Needs</i> .	Software architecture
17938287200502791	The attribute Timeout is now hidden on the General property page of <i>Sender Com Spec</i> . The attribute Max Delta Counter is now hidden on the General property page of <i>Receiver Com Spec</i> . The attribute Sender Port Prototype is now hidden on the General property page of all <i>Com Spec</i> classes.	Software architecture
17938287439612791	The NV Block Descriptor Configuration property page has been removed from <i>NV Block Descriptor</i> .	Software architecture
17938285640029129	When adding an <i>Application SW Component Type</i> to a virtual package, a shared lock of the package is performed, instead of a full lock.	Software architecture

19.5.7 AUTOSAR

Issue ID	Resolution	Category
1793147452791	AUTOSAR export: SIGNAL-TO-I-PDU-MAPPINGS and I-PDU-TO-FRAME-MAPPINGS are sorted by their start positions.	AUTOSAR
1794204632791	The <i>Custom Attribute Profile Container</i> is not locked during AUTOSAR SWC update.	AUTOSAR
17938286074276486	AUTOSAR export: Resolving <i>Data Type Mappings</i> includes application types and implementation types of pointers and unions as well.	AUTOSAR
17938286119089129	AUTOSAR export: Nested <i>Implementation Data Types</i> and <i>Application Data Types</i> are exported considering the settings for type handling.	AUTOSAR
17938286886869822	The AUTOSAR export finishes correctly even if the client is located in a directory path that contains a white-space.	AUTOSAR
17938287277829129	AUTOSAR export: Rules have been corrected for the export of the <i>Implementation Data Type/Application Data Type</i> referenced by a <i>Parameter</i> when the <i>Implementation Data Type/Application Data Type</i> matches the export setting for data types.	AUTOSAR
17938287278369129	AUTOSAR export: <i>Implementation Data Types/Application Data Types</i> referenced via an array element data type are always included if the <i>Array</i> is included, regardless of the export setting for data types.	AUTOSAR
17938287384299129	AUTOSAR export: <i>Data Type Mappings</i> are now propagated from their users instead of propagating them from the mapped data types.	AUTOSAR
17938285410930455	AUTOSAR export: <i>Data Type Mapping Sets</i> that are not referenced are not exported.	AUTOSAR
17938285651788454	AUTOSAR import: Missing propagation rules are added for <i>System Constants</i> referenced from <i>Computation Methods</i> and <i>Data Type Sets</i> .	AUTOSAR
17938287274810455	AUTOSAR export: Corrected propagation for <i>Diagnostic Connections</i> to avoid broken references (named with "!!!!") in AUTOSAR files.	AUTOSAR
17938287277522791, 17938287395262791	The following ports have been added to the AUTOSAR export block: > input port "activateSchemaValidation": Requires a String as input. If set to "true", a schema validation is done.	AUTOSAR

Issue ID	Resolution	Category
	<ul style="list-style-type: none"> > input port "schemaValidationSeverity" Requires a String as input. Decides the further execution of the metric in case that the schema validation fails. Possible values: "error": metric execution is terminated "warning": metric execution is continued and the AUTOSAR export block returns status "warning" "info": metric execution is continued and the AUTOSAR export block returns status "info" > input port "profile" Requires a <i>Custom Attribute Profile</i> as input. Is used to export the admin data. > output port "status" Returns an <i>IStatus</i> with the status of the AUTOSAR export. If a schema validation is done, the <i>IStatus</i> additionally contains the validation status as child. 	
17938286737192791	AUTOSAR import and export: PNC-attributes are exported to/imported from <i>CAN ECU Interface</i> instead of <i>CAN Port Configuration</i> .	AUTOSAR
17938286845212791	The AUTOSAR export supports additional incomplete model constellations.	AUTOSAR
17938286845272791	AUTOSAR export: For AUTOSAR 4.1.x and 4.2.x <i>BAUDRATE</i> is exported instead of <i>SPEED</i> .	AUTOSAR
17938286880949822	AUTOSAR export: All PDU triggerings that are referenced from <i>Container IPDU</i> are exported for the ECU extract.	AUTOSAR
17938286886879822	AUTOSAR export: All relevant PDU triggerings of <i>Container IPDU</i> are exported for the ECU extract.	AUTOSAR
17938286902220455	AUTOSAR export: The ECU extract (flatten) exports only atomics.	AUTOSAR
17938287439559158	AUTOSAR export: Source and target of the <i>Gateway</i> entries are correctly exported to AUTOSAR 3.	AUTOSAR
17938287585589158	AUTOSAR export: <i>Ethernet ECU Interfaces</i> are correctly exported for the ECU extract.	AUTOSAR
17938287591019822	AUTOSAR export: ECU propagation of rport and pport mappings to logic ports is corrected, so that <i>ISignalPorts</i> are correctly created in the ECU extract.	AUTOSAR
17938286119190455	AUTOSAR export: <i>Dynamic Part Alternative</i> of a <i>Multiplexed IPDU</i> is correctly exported.	AUTOSAR

Issue ID	Resolution	Category
17938287134110455	AUTOSAR export considers SW-ADDR-METHOD.	AUTOSAR
17938286898522791	AUTOSAR export: TIMEOUT of CONTAINED-I-PDU-PROPS is not exported if the value is -1.	AUTOSAR
17938286681308454	AUTOSAR import: Missing artifacts after an SWC update are now handled and added.	AUTOSAR
17938287439189158	AUTOSAR import: Connection from <i>End To End Protection</i> to <i>Signal Group</i> is created via AUTOSAR 3.x import.	AUTOSAR
17938287602542791	AUTOSAR import: The port-transmission-mappings are correctly created for Ethernet buses.	AUTOSAR
17938286274178454	For the SW component update via metric block, merging criteria of <i>Application Data Types</i> that are assigned to <i>Attribute Definitions</i> have been corrected.	AUTOSAR
17938287392958454	During SW component update via metric block, <i>Software Type Packages</i> are correctly merged during import now.	AUTOSAR
17938286274208454	During AUTOSAR import with merge, merged artefacts that have different UUIDs, but are merged because of other merging criteria, get the correct revision.	AUTOSAR

19.5.8 Communication

Issue ID	Resolution	Category
17943547097721	The documentation of the DBC import with merge has been refined in the PREEvision manual.	Communication
1794192222689	On the General property page of a <i>UML Parameter</i> the Direction attribute is now available. The <i>Data Element</i> of a <i>UML Parameter</i> can be accessed on the Service Implementation property page.	Communication
1794192512689	The attribute MAC Address Kind is now available on the Attributes property page of the <i>Ethernet Port Configuration</i> .	Communication
17943517620455	The property page Network Representation of the <i>Linear Verbal Table Conversion</i> has been corrected and represents the specified values now.	Communication
17943545692791	The Property View of the <i>Network End Point</i> has been corrected.	Communication
17943635422689	It is now possible to set the Byte Order of the <i>SOME/IP Transformer</i> .	Communication

Issue ID	Resolution	Category
17943682352791	On the Signal Attributes property page of a <i>Signal</i> , the attributes Internal Initial Value and Physical Initial Value can be set and reset.	Communication
17943682410455	On the Protocol Specific Parameters property page of a <i>CAN Port Configuration</i> , configuration tables have been added. Table entries can be created and deleted using the [+] and [-] buttons.	Communication
17938286958672791	On the Signals property page of an <i>SW Port</i> , the Selected I-Signals are displayed in a table. It is possible to drop artifacts from the Model View or the Artifact Picker into the table.	Communication
1793944442791	Missing buttons on the Protocol Specific Parameters property page of the <i>CAN FD Controller Configuration</i> are available now. Different buttons are visible and active depending on the <i>Bus Connector Type</i> .	Communication
17938286272002689	<i>Provided Service Instances</i> on a <i>Consumed Service Instance</i> are now displayed on the General property page.	Communication
17938286272032689	<i>Consumed Service Instances</i> on a <i>Provided Service Instance</i> are now displayed on the Consumed Service Instances property page.	Communication
17938286272042689	On the General property page of an <i>Operation</i> , the Methods drop-down has been added.	Communication
17938286272052689	The Service Implementation property page has been added to <i>Data Elements</i> .	Communication
17938286870922791	Several corrections have been made on the Gateway Transmissions property page of the <i>Signal Transmission</i> .	Communication
17938286898372791	The Property View of <i>Container IPDU</i> has been enhanced.	Communication
1793960742791	On ports, the Parameter Required Communication Specification entry in the context menu is only available, if the assigned interface is of type <i>Parameter Interface</i> .	Communication
1793988208454	Frame Sender Attribute and Signal Receiver Attribute are now available in the New context menu for <i>CAN Frame Transmission</i> and <i>CAN Signal Transmission</i> .	Communication
17943389292791	<i>COM:Provided Port Mappings</i> and <i>COM:Required Port Mappings</i> can now be created via the context menu on <i>COM-X:Mappings</i> .	Communication

Issue ID	Resolution	Category
17943623412791	The New context menu on <i>CAN Tp Configuration</i> now offers actions for creating <i>CAN Tp Connection, ECU, Node</i> and <i>Channel</i> .	Communication
17938287481160455	<i>Curve Literal, Map Literal</i> and <i>Cube Literal</i> have been added to the New menu of the <i>Constant Specification</i> .	Communication
17938285613639129	For <i>CAN J1939 Tp Connection</i> and <i>CAN J1939 Tp Pg</i> , missing user interface elements have been added: <ul style="list-style-type: none"> > context menu items > property pages > attributes on property pages 	Communication
1792959702647	"CAN J1939 Catalog" artifacts can now be assigned via drag and drop action in the Property View .	Communication
1794187230455	The New context menu has been fixed for <i>J1939 TP Configuration</i> .	Communication
17938286040639822	During signal routing, the correct parent <i>Gateway</i> is used for the <i>Gateway Routing Entry</i> in case of multiple receivers and multiple <i>Gateways</i> .	Communication
17938287768176486	The signal router can now create one signal for each sender port or only one signal for all sender ports. A new extended option is available in the signal router wizard.	Communication
17938286668400455	The signal router correctly handles multiple <i>System Signals</i> on a receiver/sender port.	Communication
17938287277727721	DBC import: A <code>NullPointerException</code> has been fixed that occurred during DBC import with merge.	Communication
1793916072689	The DBC ECU extract has been corrected so that the export now delivers the same correct result independent of whether the export is started from the metric diagram or the context menu.	Communication
1793917932689	The DBC export works now if some <i>Attribute Definitions</i> have no default value.	Communication
1793924652689	DBC export: Attribute values of artifacts contained in moved <i>Layout Packages</i> are exported now.	Communication
1793969778454	The DBC export considers the active variant if the corresponding option is activated.	Communication
17938285488672689	DBC export: Messages posted in the Information View during DBC export have been restructured and adapted.	Communication
17938287472232791	DBC export: The children of the propagated elements for the custom export are not automatically added to the export. The	Communication

Issue ID	Resolution	Category
	model query for the DBC ECU extract was extended to propagate all necessary elements.	
17938287583652791	DBC import creates and assigns a <i>CAN Controller Configuration</i> to each imported <i>Bus Connector</i> now.	Communication
1793482649822	During frame synthesis, no <i>PDU Transmission</i> is created if there already exists a valid <i>PDU Transmission</i> .	Communication
1793578928454	LDF import: The error message for redundant signal subscribers was corrected.	Communication
1793584728454	For all linear conversions, the denominator is exported with value = 1.	Communication
17938287369229822	The LDF export metric block works again.	Communication
17938287414692689	FIBEX export: PDUs and signals are propagated when the frame is propagated, regardless of their transmissions.	Communication
17943694472689	Using the navigate button in the <i>Ethernet Explorer</i> does no longer throw an exception.	Communication
17938285404469129	The Start Position of a newly created <i>Signal-IPDU-Assignment</i> is set correctly now.	Communication
17938285404559129	All types of PDUs are handled in the Frame Layout View .	Communication
17938286870200451	During creation of a <i>Constant Specification</i> , an error message containing German text was displayed even when using the English client. The error message has been translated.	Communication
17938287276018454	The consistency rules to check for overlapping signals in PDUs were adapted and regard now different layout settings.	Communication
17938286598779129	<i>System Signals</i> can be copied and moved to another <i>Layout Package</i> .	Communication

19.5.9 Hardware architecture

Issue ID	Resolution	Category
1793839479129	The New context menu entry for creating <i>Diagnostic Event Needs</i> is only available in the submenu Service Needs .	Hardware architecture
17938285405069129	The Connected Connectors property page of a <i>Ground Connector</i> or a <i>Power Connector</i> now also shows a drop-down list with the connection. The connector can be decoupled from the connection via the dereference button next to the drop-down list.	Hardware architecture

Issue ID	Resolution	Category
17938287780282985	In <i>Wiring Diagrams</i> , connections with rectilinear routing only can be routed with fans. Connections with another routing are ignored.	Hardware architecture
1790789140452	All available off-sheet connectors now support a standard (configurable) label in addition to the label with the position of other off-sheet connectors.	Hardware architecture
1792615139824	Creating a <i>Schematic Connection</i> to and from a <i>Header</i> connector is now possible and correctly sets the relation between the <i>Header</i> connector and the component pin.	Hardware architecture
1792906057721	Texts and translations for <i>Seal Types</i> have been adapted.	Hardware architecture
1793578347721	Refactoring on logical connectors is now possible even if no logical connection exists at the target connector. Furthermore, the refactoring operation will now correctly propagate the change of type across all other connectors, which are connected to the target connector. A connection is seen as established if two connectors are either connected via a logical connection, a schematic connection or wires/cables.	Hardware architecture
1793578477721	Routing of cores that end in different components works correctly now. A problem with routing in different directions was corrected.	Hardware architecture
1793585450452	Cable routing with <i>Splices</i> works correctly now. An additional check has been added for common <i>Branch-Offs</i> . If there are differences, then an error is reported in the Information View . The start and the end <i>Wire Pin</i> are set correctly now, if the mapped artifact is already a <i>Branch-Off</i> .	Hardware architecture
1793813887721	When moving an ECU, connectors are not deleted at all. Connections are only deleted if less than two connectors are connected to it.	Hardware architecture
1793826067721	Deleting components in diagrams correctly handles all affected artifacts in the diagram.	Hardware architecture
1793828539051	Pins are placed according to the chosen layout after executing Populate in diagrams.	Hardware architecture
1793909787721	The ground spot optimization dialog now consistently supports selection and deselection of solutions using the check boxes.	Hardware architecture
1794191140452	Cables can be routed again.	Hardware architecture

Issue ID	Resolution	Category
17943218140452	A new option is available to choose whether the <i>Schematic Connection</i> should be merged or not when solving a conflict during <i>Single Wire</i> creation in the <i>Wiring Diagram</i> .	Hardware architecture
17943545519012	In <i>Wiring Diagrams</i> , Border Width settings are now applied to <i>Wiring Connector</i> figures.	Hardware architecture
17943547099051	Connecting <i>Wire Pins</i> with wires in <i>Wiring Diagrams</i> , reliably shows the Select Schematic Connection dialog. Editing wires in <i>Wiring Diagrams</i> does not change <i>Schematic Connection</i> assignments. Automatic assignments are only performed if there are no previous assignments.	Hardware architecture
17943701279005	The routing of a wire between two <i>Wiring Connectors</i> of one <i>Installation Location</i> works correctly again and considers the option to route through the <i>Installation Location</i> or not.	Hardware architecture
17938285625829180	When creating a new <i>Cable</i> based on a <i>Cable Prototype</i> the colors set in the prototype are taken over for the new <i>Cable</i> now.	Hardware architecture
17938286657867721	Cycles in <i>Component Circuit Diagrams</i> are handled correctly now.	Hardware architecture
17938286993499180	The Show connectors and pins dialog properly shows all available pins if multiple artifacts are selected as source.	Hardware architecture
17938287249739180	When creating new electrical connections within the <i>Electric Circuit Diagram</i> and then using the Select schematic connection dialog, the selected <i>Schematic Connection</i> is used instead of creating a new connection. A new <i>Schematic Connection</i> can still be created by using the corresponding check box.	Hardware architecture
17938287419919012	Copy and paste layout within <i>Electric Circuit Diagrams</i> has been corrected to handle artifacts that occur several times on the same component, for example, <i>Header connectors</i> .	Hardware architecture
17938286119189005	It is now possible to configure the label of <i>Wire Pins</i> in the label configuration.	Hardware architecture
17938287413179005	Newly created <i>Splices</i> are now correctly placed within the grid of the <i>Wiring Diagram</i> .	Hardware architecture
17938287559229012	Within the <i>Wiring Diagram</i> , a populate on an internal connector now also shows the child pins of a <i>Schematic Pin</i> correctly again.	Hardware architecture
17938287413219051	Creating a <i>Single Wire</i> from a <i>Wiring Harness Inline Connector</i> to a <i>Component</i> is possible again.	Hardware architecture

Issue ID	Resolution	Category
17938287275019824	Type and prototype associations are consistent after creating a <i>Cable</i> from a <i>Cable Prototype</i> .	Hardware architecture
17938287537028454	The "Configure diagnostics" chapter has been updated in the PREEvision manual regarding the custom attribute concept.	Hardware architecture

19.5.10 Geometry

Issue ID	Resolution	Category
17938287807618226	Copy and paste as layout works when pasting "*" to "*" relations of one <i>Geometry Diagram</i> to another <i>Geometry Diagram</i> .	Geometry
17938287831639182	KBL import and export: The KBL import/export configuration files <code>importer.config</code> and <code>exporter.config</code> are now available in the default model.	Geometry
1779768749822	KBL import: Multiple files can now be selected for the KBL import.	Geometry
1792833359005	It is now possible to define minimum and maximum diameters for <i>Seal Types</i> . The values are also imported and exported to KBL.	Geometry
1793972247721	Topology edge points can be converted into <i>Branch-Offs</i> again.	Geometry
1794004439132	Within <i>Geometry Diagrams</i> , during populate the label position is calculated according to the start point that is set on the <i>Segment</i> .	Geometry

19.5.11 Product line approach

Issue ID	Resolution	Category
1792961519119	To improve performance, results are displayed page-wise in the VM Table View . The behavior is similar to the Search result view or the Artifact Picker .	Product line approach
1793608909824	For the dialog that is displayed when moving reuses, the dialog text has been improved.	Product line approach
1793978988454	The variant-sensitive model export works again.	Product line approach
1794155772709	The maximum iteration count for variant management propagation that can be set via the Preferences dialog is correctly applied to new propagation operations.	Product line approach

Issue ID	Resolution	Category
17938285645712647	<i>Atomic SW Components</i> are correctly represented in the Core Artifacts table of the <i>Asset</i> .	Product line approach
17938287473537721	All artifacts displayed in the Set Content View are updated on change.	Product line approach
17938287553707721, 17938287553717721	Merge of locally typed <i>Logical Functions</i> is possible during <i>Asset</i> core content integration.	Product line approach
17938287558597721	Mapping artifacts are displayed in the Property View of an <i>Asset</i> .	Product line approach
17938287588937721	Merging <i>Logical Functions</i> is possible if participating interfaces are not yet integrated in other <i>Assets</i> .	Product line approach
17938286274202647	Integration of <i>Atomic SW Components</i> from an <i>Asset</i> is possible now.	Product line approach
17938287234159106	Scopes are regarded in the VM Set Structure View .	Product line approach
17938287553348454	A checked-in <i>Asset</i> is not checked out in an unintended way.	Product line approach
17938286121029132	Creation of a reuse is now possible if parent and child artifacts are selected by multi-selection. The child artifact is not reused separately.	Product line approach
1794170589823	Search for all reuses of other revisions and branches finds reuses of different meta classes too.	Product line approach
17938287093039823	Entries of the Variants context menu are available in the Favorites view as well.	Product line approach

19.5.12 Functional safety

Issue ID	Resolution	Category
1793943718454	The calculation of probabilities was optimized for the quantitative fault tree analysis.	Functional safety
17938287480848454	It is now possible to create <i>Requirement Links</i> in the New menu of a Safety Mechanism artifact.	Functional safety

19.5.13 Change and release management

Issue ID	Resolution	Category
1793977722647	<i>Ressources</i> can now be assigned to a <i>Role</i> via drag and drop to the property page.	Change and release management

Issue ID	Resolution	Category
1793973752689	<i>Ticket Types</i> can be selected via the drop-down list on the General property page.	Change and release management

19.5.14 Test engineering and test management

Issue ID	Resolution	Category
17938287472158454	Tables in the tabs of the <i>Test Execution Explorer</i> are displayed.	Test engineering and test management

19.5.15 Rules

Issue ID	Resolution	Category
1793585809129	On synchronizing the <i>Consistency Rule Model</i> , all <i>Java based Consistency Rules</i> are now considered to be part of the Factory Reset model, and therefore they are all tagged with Factory Reset = "true" .	Rules
17938285566827721	Online checks are no longer calculated when closing PREEvision or switching a perspective.	Rules
17938287250289129	An issue has been resolved, that occurred during rule import into the rule model.	Rules
17938286880418454	After client start, no error messages of online check indicators are thrown.	Rules

19.5.16 Metrics

Issue ID	Resolution	Category
1792940729824	Deleting a metric <i>Calculation Block</i> does no longer delete associated <i>Metric Executors</i> .	Metrics
1792965678454	The <i>Excel Export Block</i> supports the XLSX format now.	Metrics
1793834992793	Table editors can be converted to <code>TempTables</code> using the method <code>OffScreenTableBasedEditorToTempTableConverter.convertTableEditor()</code> .	Metrics
1793935108454	A new method has been added to the metric base class: <code>createRefObjectWithSuppressedNameConventionWarnings</code> allows creation of <code>RefObjects</code> without any visible warnings (e.g. in the Status View) that might be caused by possible naming conventions. This new method is equal to the existing <code>createRefObject(Class<T></code>	Metrics

Issue ID	Resolution	Category
	metaClass, RefObject parent, String roleNameToParent, boolean useNameConvention) method, but with the additional feature of suppressed warnings.	
1793939239106	A missing plug-in has been added to metric system class path so that Velocity JARs can be used again.	Metrics
1794003698454	A buffer size has been added to TempTable.toString. In that way, TempTables bigger than the Integer maximum size do not cause OutOfMemoryErrors errors anymore.	Metrics
17938287134188454	The variant propagation metric block works properly again.	Metrics
17938287166139106	Metrics are now executed with progress dialogue to enhance the user feedback of running metrics.	Metrics

19.5.17 Reports

Issue ID	Resolution	Category
1793970499106	When generating a report, tables within diagrams are rendered only during the print process to improve the report generation.	Reports
1794107258157	If errors in diagrams occur during report generation an information message is posted to the Information View .	Reports
1794107268157	Reports can be now generated even if a diagram has wrong background images.	Reports
17938285411958454	A LibreOffice error that occurred when generating a report as PDF has been fixed.	Reports
17938285414659129	Bookmarks in table captions are now correctly replaced during report generation.	Reports
17938285609958454	LibreOffice no longer crashes when selecting the header on the first page of a report.	Reports
17938286845468454	A note has been added in chapter „Conditional format placeholder“ of the PREEvision user manual: Formatted texts cannot be formatted using a conditional format placeholder. They maintain the original formatting.	Reports

19.5.18 Collaboration

Issue ID	Resolution	Category
1715977998454	When working in offline mode, formatted text can be made available via the context menu Files and Formatted Text Make Formatted Texts Locally Available . When switching to offline mode, the Continue working offline dialog provides an option to make formatted texts of locked artifacts locally available.	Collaboration
1792590372687	The match between the server model name and the <i>Project</i> created in the authority model is implemented with exact string comparison now.	Collaboration
1792936022647	The action Create branch from predecessor revision with this data works again.	Collaboration
1792995509823	The client cache update strategy is modified and improved.	Collaboration
1793055620451	Additional information is written to the log file for serialization problems during read and write operations of the model cache.	Collaboration
1793621702709	An error has been fixed that occurred during a delete operation of an artifact that was included in a <i>Set</i> and the <i>Set</i> was locked by another user.	Collaboration
1793623102709	Activating a scope no longer triggers an empty commit dialog.	Collaboration
1793642237721	An exception has been fixed, that occurred during the Undo All Locks operation.	Collaboration
1793810588454	The check-out life cycle trigger is also performed on automatic check-out.	Collaboration
1793837987721	The algorithm of the model update has been improved in case that many commit versions are needed to update the model.	Collaboration
1793903249824	The files in Subversion are not removed after a failure during initializing with file.	Collaboration
1793907852709	Starting the search no longer leads to an „Update failed“ error.	Collaboration
1793915472689	Commit is possible after performing changes in the <i>Library</i> .	Collaboration
1793949102697	Commit of systems is possible.	Collaboration
1793967349051	Commit is possible after delete operations in diagrams.	Collaboration
1793975602676	If an error is reported, e.g. because of a missing lock, the Information View no longer displays hidden artifacts but their next visible parent artifact instead.	Collaboration

Issue ID	Resolution	Category
1793976002647	Replacing an artifact with another revision and branch keeps external relations of the artifact to be replaced.	Collaboration
1794092359051	Illegal model changes are not reverted, if the model cache does not fit.	Collaboration
1794102979051	Hiding components in a diagram no longer causes a commit error.	Collaboration
1794106192687	Performance has been improved if a large number of single exclusive locks exist in the system.	Collaboration
1794159018454	Updating the model from the server works.	Collaboration
1794184792716	Performance has been improved for create reuse and check-out actions.	Collaboration
1794193619823	Commit is possible when working with diagrams that contain errors.	Collaboration
1794202362672	On the dialog that informs the user that a defined amount of queued transactions in the server has been exceeded, the [OK] button has been renamed to [Enqueue] .	Collaboration
1794223248454	The commit of the RIF import is possible without any error messages.	Collaboration
1794223752709, 17938285404589180	Commit works without any error messages after working in the <i>Wiring Diagram</i> .	Collaboration
1794281942680	The default setting for the amount of scopes that can be loaded in parallel is the number of cores on the server minus 1. In this way, one core will be available for other business calls (check-in, lock, etc.). The queue size can be changed via JMX at runtime.	Collaboration
1794284278454	Context menu entries for scopes will now always show the correct activate or deactivate action depending on the scopes state.	Collaboration
1794287082647	Lock works after editing or viewing <i>Variant Diagrams</i> .	Collaboration
1794317950451, 17943217740451, 17943217749132, 17938287369972647	Commit problems have been solved. Illegal model changes, which caused the problem, have been removed.	Collaboration
17943545749132	Updating the model in scope definition mode works for artifacts that are not visible.	Collaboration
17938285394252647	When a scope is deactivated, then the authority management is refreshed as the previous call might not reset the cached authority of the referenced class.	Collaboration
17938285404609180	The commit error "XMIID already exists in repository" has been solved.	Collaboration

Issue ID	Resolution	Category
17938285405769129	Recovering from network problems does not lead to merge problems during updates or displaying historic model versions.	Collaboration
17938285498289012	Undo All Locks works as expected.	Collaboration
17938285568689180	A commit error that occurred because of illegal model changes has been fixed.	Collaboration
17938285595202647	The Add Parent to Scope action is shown in tables only once.	Collaboration
17938285611032663	Changing files of checked-in artifacts is no longer possible.	Collaboration
17938286870109106	The handling of database connections has been improved in case of interrupts.	Collaboration
17938287278399051	Commit in the database of one model no longer blocks transactions on other models.	Collaboration
17938286091092709	A mapping target is still available if the mapping target is moved out of the scope via an update.	Collaboration
17938286120339180	A sporadic problem has been solved that caused lost and finds while opening diagrams.	Collaboration
17938286080259132	The Property View editor works properly for search results that are artifacts out of scope.	Collaboration
17938286273219012	An error is fixed that occurred when the Commit Changes dialog, which is displayed on scope switch, is closed via [ESC].	Collaboration
17938287277729132	Renaming an active scope is correctly reflected by the scope label in the status bar.	Collaboration
17938286598079180	An empty error message has been fixed that occurred during login to a project.	Collaboration
17938286080259012	A message was corrected that was displayed when executing the replace operation with artifacts under authority control.	Collaboration
17938286120279180, 17938286272008454, 17938286272018454, 17938286598089180, 17938286870208454, 17938286882239180, 17938286993679180, 17938287520619012, 17938287528919005, 17938287520218454	Several commit errors have been fixed.	Collaboration
17938287187038454	Reuse operations and synchronization works as expected.	Collaboration

Issue ID	Resolution	Category
17938287283020451	Artifacts to be check-in are calculated correctly if artifacts with relative revisions are imported.	Collaboration
17938287417929012	After changing a diagram <i>Title Block</i> , commit is now possible without error message.	Collaboration
17938286870950451, 17938286870940451, 17938286274028454, 17938286845219180, 17938286119129012	Illegal model changes, which caused lost and found packages or errors during operations, have been removed.	Collaboration
17938287250439012	Automatic locking is performed during KBL import.	Collaboration
17938286127939129	Deleting old bug reports from the database does no longer lead to blocking database sessions.	Collaboration

19.5.19 Administration

Issue ID	Resolution	Category
1792593482687	Unnecessary error messages "List of product features in client session is null instead of empty" have been removed from the server log file.	Administration
1793015408454	PREEvision client caches are cleared when the used license is changed.	Administration
1793585118454	The Check Model Consistency operation is now available for all relevant PREEvision licenses.	Administration
1793832512644, 1793966567721	If the Annotate Artifacts for Factory Reset operation fails, the Information View displays the artifacts that caused the operation to fail. These artifacts need to be removed.	Administration
1793832889129	During factory reset, external relations to existing artifacts are kept correctly now.	Administration
1793835052644	If an artifact from the initial model is exactly the same as in the target model, then it is not changed by the factory reset.	Administration
1793956038454	Only visible artifacts are considered for initialization a server model with an existing model file. Invisible artifacts are ignored.	Administration
1793966287721	Localization artifacts are now handled correctly during factory reset.	Administration
1793966557721	Error message handling for checked-in artifacts during factory reset is improved.	Administration
1793979662687	Error messages that occurred during server startup have been eliminated.	Administration

Issue ID	Resolution	Category
1793979722687	Statistic files are now written to the directory workspace/statistics on the application server.	Administration
1794099899169	When adding a new server model with a name of an already existing model, a dialog is now displayed asking the user whether to overwrite the existing model or not.	Administration
1794107312687	Debugging outputs in the server to <code>Catalina.out</code> has been removed.	Administration
1794182032647	More information about the executed, undone and redone operations is now provided in the bug report.	Administration
17943701319106	Management Bean deactivation behavior is fixed. In some rare cases the middleware server tried to deactivate an MBean that has never been properly activated and registered. This lead to error logs during middleware startup. This is now avoided by explicitly checking if an MBean can be deactivated and deregistered.	Administration
17938285414748454, 17938287479888454	The German text that was displayed in the English client on initializing the user query model has been translated.	Administration
17938287252080451	Commit issues have been resolved that occurred after performing a factory reset.	Administration
17938287768699129	A time slice error has been solved that occurred during deregistering of the backup procedure.	Administration

19.5.20 Installation

Issue ID	Resolution	Category
17943217708454	A compatibility check has been added within the database migration scripts.	Installation
17938287529088454	To avoid problems with VS-Script on PREEvision installer on customer computers the VB-Script actions has been replaced by other scripts in the installer.	Installation
1794107319169	The PREEvision startup folder includes a script for creating the default folder structure for the settings deployment feature (provisioning).	Installation
17938286880952687	The database installation script works correctly under Linux again, case-sensitive behavior was corrected.	Installation

19.5.21 Migration

Issue ID	Resolution	Category
17938287175919166	The client prevents to start an incremental restore with a backup that is not the start of the backup chain.	Migration

19.5.22 License

Issue ID	Resolution	Category
1793904830451	A user no longer blocks two licenses after switching from LAN to WiFi connection.	License
1793924492687	Corrupt licenses are deleted during middleware server startup. The license server is accessible and new licenses can be uploaded.	License
1794011829824	If a user reserves a license, while the license server is shutting down, the license no longer gets corrupted.	License
17938287274339012	The context menu Open With <table> works when using a viewer license.	License
17938287382129012	The Set Content View shows the correct contents when using a viewer license.	License

19.6 Known issues

Diagrams sometimes cannot be edited

Under certain circumstances, diagrams cannot be edited. For example, diagrams that reference a *Diagram Configuration* with a *Title Block*, *Legend* or *Master* diagram may sometimes cause problems.

When trying to edit the diagram, an error message is displayed.

The issue is only relevant within multi-user environments.

Workaround:

1. Close the diagram.
2. Exclusively lock the diagram and all referenced diagrams (*Diagram Configuration*, *Title Block*, *Legend* and *Master* diagram).

Editing the locked diagram is possible.



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