VECTOR

PREEvision

Release Notes

Version 7.0 SP19
English

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1 PREEvision 7.0 SP19

This chapter contains the following information:

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1.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.19
PREEvision license server	2.0.5
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.19.01
PREEvision application server (3-tier)	7.0.19

Documentation

Manual	Version number
PREEvision manual	7.0.12
PREEvision operating manual	7.0.13
PREEvision system requirements	7.0.13

1.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

New Java version

Java 1.7.0_80 is now provided with the PREEvision client installation.

Existing application server runtimes should also be updated to Java version 1.7.0_80.

New Oracle JDBC driver version (3-tier only)

With PREEvision 7.0 SP11, the Oracle JDBC driver (`ojdbc7.jar`) has been updated to version 12.1.0.2.

The new version of the `objdbc7.jar` is included in the delivery of the PREEvision 3-tier server application (`as_middleware_<version>.zip`) under `/dbdrivers`.

If an Oracle 12 database is used, the new driver version must be used in the application server.

If an Oracle 11 database is used, it is recommended to use the new driver version.

Update licenses on middleware license server (3-tier only)

With PREEvision 7.0 SP10, a new version of the middleware license server is included in the PREEvision server application.

When using the middleware license server, licenses have to be uploaded again with the following procedure:

1. Stop the application server (e.g. during the update of the PREEvision server application).
2. Switch to the `license-db` folder (e.g. under Tomcat in `Tomcat/work/Catalina/localhost\vCollab...` or in the specified license path in the Java settings).
3. Delete the `*.lic` files.
4. Start the application server.
5. Upload the licenses via the client again to the server.

   The license to user assigments (`namedUsersForLicenses` configuration file) should still be valid.

LDAP configuration changed (3-tier only)

With PREEvision 7.0 SP10, the LDAP configuration in 3-tier environments has been changed and needs to be modified.

For detailed information, refer to the **Operating Manual**.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24

Client version	Server application version	Database server script version
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2
7.0.10	7.0.10	7.0.10.04
7.0.11	7.0.11	7.0.10.04
7.0.12	7.0.12	7.0.12.02
7.0.13	7.0.13	7.0.13.01
7.0.14	7.0.14	7.0.13.01
7.0.15	7.0.15	7.0.13.01
7.0.16	7.0.16	7.0.13.01
7.0.17	7.0.17	7.0.13.01
7.0.18	7.0.18	7.0.18.00
7.0.19	7.0.19	7.0.19.01

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 **Operating Manual**.

1.3 Fixed issues

Fixed issues in PREEvision 7.0 SP19

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

ID	Issue	Category
1792831997721	The column width of tables in the **Property View** is persisted for the client session.	Common
1793910588157	*Activity Chain*s can be extended in reused diagram over a connection.	Logical function architecture
1792474988454	Pins can be selected in the **Resolve Splice** refactoring dialog.	Hardware architecture
1793067328454	The refactorings to replace the wire type and the refactoring to replace the synthesis constraint descriptor have been corrected and work again.	Hardware architecture
1793909787721	The ground spot optimization dialog now consistently supports selection and deselection of solutions using the check boxes.	Hardware architecture
1793619717721	The refactoring of a *Branch-Off* into a *Topology Point* was corrected and works correctly again.	Geometry
1793465848454	In the ANT script `runmetric.xml` that is used for automated metric execution, the reference to the `MetricSuite.xml` is removed. This reference could not be resolved and thus led to an error.	Metrics
1793465878454	For loading a file-based model for automated metric execution, a port no longer has to be specified in the `parameters.properties` file.	Metrics
1792666212687	Bug reports with any legal file name can be committed.	Collaboration
1793838049106	Database restore has been enhanced to handle checked-in state of artifacts in backup history.	Migration

1.4 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector support for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> which PREEvision version shall be used for **valid backup and restore**.

User manual incorrect for Product Goal import via Excel

The user manual is incorrect with regard to the **Product Goal import from Excel**. In PREEvision 7.0, only *Requirements* can be imported with the **Product Goal import from Excel**. *Customer Features* cannot be imported. This functionality will be available with PREEvision 7.5.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

2 PREEvision 7.0 SP18

This chapter contains the following information:

2.1	Version numbers	17
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2.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.18
PREEvision license server	2.0.5
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.18.00
PREEvision application server (3-tier)	7.0.18

Documentation

Manual	Version number
PREEvision manual	7.0.12
PREEvision operating manual	7.0.13
PREEvision system requirements	7.0.13

2.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

New Java version

Java 1.7.0_80 is now provided with the PREEvision client installation.

Existing application server runtimes should also be updated to Java version 1.7.0_80.

New Oracle JDBC driver version (3-tier only)

With PREEvision 7.0 SP11, the Oracle JDBC driver (`ojdbc7.jar`) has been updated to version 12.1.0.2.

The new version of the `objdbc7.jar` is included in the delivery of the PREEvision 3-tier server application (`as_middleware_<version>.zip`) under `/dbdrivers`.

If an Oracle 12 database is used, the new driver version must be used in the application server.

If an Oracle 11 database is used, it is recommended to use the new driver version.

Update licenses on middleware license server (3-tier only)

With PREEvision 7.0 SP10, a new version of the middleware license server is included in the PREEvision server application.

When using the middleware license server, licenses have to be uploaded again with the following procedure:

1. Stop the application server (e.g. during the update of the PREEvision server application).
2. Switch to the `license-db` folder (e.g. under Tomcat in `Tomcat/work/Catalina/localhost\vCollab…` or in the specified license path in the Java settings).
3. Delete the `*.lic` files.
4. Start the application server.
5. Upload the licenses via the client again to the server.

   The license to user assigments (`namedUsersForLicenses` configuration file) should still be valid.

LDAP configuration changed (3-tier only)

With PREEvision 7.0 SP10, the LDAP configuration in 3-tier environments has been changed and needs to be modified.

For detailed information, refer to the **Operating Manual**.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24

Client version	Server application version	Database server script version
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2
7.0.10	7.0.10	7.0.10.04
7.0.11	7.0.11	7.0.10.04
7.0.12	7.0.12	7.0.12.02
7.0.13	7.0.13	7.0.13.01
7.0.14	7.0.14	7.0.13.01
7.0.15	7.0.15	7.0.13.01
7.0.16	7.0.16	7.0.13.01
7.0.17	7.0.17	7.0.13.01
7.0.18	7.0.18	7.0.18.00

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 **Operating Manual**.

2.3 Fixed issues

Fixed issues in PREEvision 7.0 SP18

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

ID	Issue	Category
1792959142709	Query labels in *Title Block*s are now refreshed using <F5> or the context menu **Update Query Label**.	Diagrams
1792961338454	Selecting a *Requirement* while a formatted text editor in a table is opened no longer opens a new table editor.	Tables
1792831219118	Export of an AUTOSAR ECU extract: Setting the flag `synthesizeISignals` to `TRUE` in the `eea2autosar.config` file, `I-SIGNAL`s are synthetized depending on the bus (one `I-SIGNAL` per bus segment). With `synthesizeISignals` set to `FALSE` one `I-SIGNAL` for the whole system (one `I-SIGNAL` for all bus segments) will be synthetized.	AUTOSAR
1792931609119	During AUTOSAR export, *CAN Cluster* is exported also when several *Nm Cluster*s are assigned (only valid in variant scenario). In this case only one *Nm Cluster* is exported.	AUTOSAR
1792971790455	The number of warnings reported during AUTOSAR import has been reduced. Warnings are only reported for not empty formatted texts.	AUTOSAR
1792971800455	The performance for the AUTOSAR import with merge has been improved. UUIDs for assembly connectors are now correctly build.	AUTOSAR
1792984130455	During AUTOSAR import with merge, *Signal*s are correctly assigned to *Signal Transmission*s.	AUTOSAR
1792936180452	During a KBL export the 2D coordinates of connector locations will be exported correctly.	Hardware architecture
1792981120452	During a KBL export splices that are associated with a set are now exported correctly, i.e. the resulting `connector_occurrence` will be connected to the corresponding module in KBL.	Hardware architecture
1792541472709	The metric execution helper is no longer executed as job to avoid deadlocks.	Collaboration
1792929929824	A commit error which occurred after model import has been fixed.	Collaboration
1792941188454	The AUTOSAR import can be committed without an error message.	Collaboration
1792952008454	After repeated deletion of ports within the logical function architecture and a subsequent undo, artifacts were created that could not be committed. The issue has been fixed.	Collaboration

ID	Issue	Category
1792956739824	Insets of diagram elements are now initially set. The associated problems during model update have been fixed.	Collaboration
1792966747721	A `NullPointerException` on commit has been fixed. The exception occurred after an *Asset* had been updated to the latest revision.	Collaboration
1792978212687	Performance of the project backup has been improved.	Migration

2.4 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector support for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> which PREEvision version shall be used for **valid backup and restore**.

User manual incorrect for Product Goal import via Excel

The user manual is incorrect with regard to the **Product Goal import from Excel**. In PREEvision 7.0, only *Requirements* can be imported with the **Product Goal import from Excel**. *Customer Features* cannot be imported. This functionality will be available with PREEvision 7.5.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

3 PREEvision 7.0 SP17

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3.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.17
PREEvision license server	2.0.4
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.13.01
PREEvision application server (3-tier)	7.0.17

Documentation

Manual	Version number
PREEvision manual	7.0.12
PREEvision operating manual	7.0.13
PREEvision system requirements	7.0.13

3.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

New Java version

Java 1.7.0_80 is now provided with the PREEvision client installation.

Existing application server runtimes should also be updated to Java version 1.7.0_80.

New Oracle JDBC driver version (3-tier only)

With PREEvision 7.0 SP11, the Oracle JDBC driver (`ojdbc7.jar`) has been updated to version 12.1.0.2.

The new version of the `objdbc7.jar` is included in the delivery of the PREEvision 3-tier server application (`as_middleware_<version>.zip`) under `/dbdrivers`.

If an Oracle 12 database is used, the new driver version must be used in the application server.

If an Oracle 11 database is used, it is recommended to use the new driver version.

Update licenses on middleware license server (3-tier only)

With PREEvision 7.0 SP10, a new version of the middleware license server is included in the PREEvision server application.

When using the middleware license server, licenses have to be uploaded again with the following procedure:

1. Stop the application server (e.g. during the update of the PREEvision server application).
2. Switch to the `license-db` folder (e.g. under Tomcat in `Tomcat/work/Catalina/localhost\vCollab…` or in the specified license path in the Java settings).
3. Delete the `*.lic` files.
4. Start the application server.
5. Upload the licenses via the client again to the server.

   The license to user assigments (`namedUsersForLicenses` configuration file) should still be valid.

LDAP configuration changed (3-tier only)

With PREEvision 7.0 SP10, the LDAP configuration in 3-tier environments has been changed and needs to be modified.

For detailed information, refer to the **Operating Manual**.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24

Client version	Server application version	Database server script version
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2
7.0.10	7.0.10	7.0.10.04
7.0.11	7.0.11	7.0.10.04
7.0.12	7.0.12	7.0.12.02
7.0.13	7.0.13	7.0.13.01
7.0.14	7.0.14	7.0.13.01
7.0.15	7.0.15	7.0.13.01
7.0.16	7.0.16	7.0.13.01
7.0.17	7.0.17	7.0.13.01

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 **Operating Manual**.

3.3 Fixed issues

Fixed issues in PREEvision 7.0 SP17

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
- Logical function architecture
- AUTOSAR
- Communication
- Geometry
- Product line management
- Metrics
- Collaboration
- Administration and migration

3.3.1 Common

ID	Issue	Category
1792621028454	Within the **Compare** perspective, **Property View** filters for the **Property View** can be saved for the left and right comparison side.	Common
1792649498454	Formatted text attributes will be correctly displayed in the **Compare** perspective.	Common
1792649518454	Comparing formatted texts works again.	Common

3.3.2 Diagrams

ID	Issue	Category
1792904957721	Background images can now be displayed in the legend.	Diagrams

3.3.3 Logical function architecture

ID	Issue	Category
1792667447721	Due to an error, *Assembly Connectors* disappeared after commit. The cause of this error was fixed in PREEvision 7.0. Models of older version can be repaired via metric.	Logical function architecture

3.3.4 AUTOSAR

ID	Issue	Category
1792664978454	Wrong warning during export of an AUTOSAR ECU extract has been fixed.	AUTOSAR
1792913449119	Performance of the variant-based AUTOSAR export has been improved.	AUTOSAR
1792913532791	The name of the `MODE-SWITCH-POINT` will be imported from AUTOSAR.	AUTOSAR
1792915529119, 1792935558222	The variant-based AUTOSAR export correctly exports the artifacts associated to the selected variant now.	AUTOSAR
1792938259118	During AUTOSAR export of a system extract, problematic *Assembly Connectors* are handled.	AUTOSAR
1792938279118	During AUTOSAR export and import, `MIN-SAMPLE-POINT` is correctly imported and exported.	AUTOSAR
1792940529118	During import, `I-PDUs` with assigned `I-SIGNAL-GROUPs` are no longer considered as having a mixed `BYTE-ORDER`.	AUTOSAR
1792940539118	In the flattening process of the AUTOSAR export of an ECU extract, the remaining open ports will be automatically removed.	AUTOSAR
1792941260455	After AUTOSAR import with merge the `Constants` package will no longer be deleted.	AUTOSAR
1792952469118	The direction of the delegation port is correct now after AUTOSAR export of ECU extract if more than two SWCs are connected.	AUTOSAR
1792952599118	The attribute `NmCycletimeMainFunction` will not be exported in AUTOSAR if the value is `-1`.	AUTOSAR
1792955422791	In some cases the AUTOSAR export of an ECU extract did not terminate due to model inconsistencies of `ComSpecs`. This has been fixed now.	AUTOSAR
1792962246486	`ReceiverComSpec.queueLength` will not be exported, when the value is set to `-1`.	AUTOSAR

3.3.5 Communication

ID	Issue	Category
1792939158157	The automatic import with merging of an LDF file (merged on a DBC import and involved computation method) does not abort anymore.	Communication

3.3.6 Geometry

ID	Issue	Category
1792916010452	During KBL export the children of `Virtual_length` will now be exported in correct order, so that the export file is XML-schema conform.	Geometry
1792935580452	During KBL export all artifacts that are within a set are exported as control components and will be linked to the respective module in KBL.	Geometry
1792936180452	During KBL export the 2D coordinates of *Connector Locations* will be exported correctly.	Geometry
1792958179005	During KBL export the segment diameter will be exported to KBL now.	Geometry

3.3.7 Product line management

ID	Issue	Category
1792948188454	The property page **Artifacts** for *Architecture Variants* has been removed.	Product line management

3.3.8 Metrics

ID	Issue	Category
1792656918454	*Excel Import Block* parses cells without pretty printing by default again. Optionally, pretty printing can be enabled.	Metrics

3.3.9 Collaboration

ID	Issue	Category
1792466442647	Commit and update handling of relations has been corrected regarding duplicates. This applies to relations for which one side requires no lock and the other side requires a shared lock.	Collaboration
1792673892709	Import and merge correctly work without commit errors again.	Collaboration
1792675762987	Committing files in SVN is possible without timeout.	Collaboration
1792885142647	The auto lock mechanism considers paste actions correctly.	Collaboration
1792954610451	After a commit an incorrect and redundant error message concerning working copies was displayed. This incorrect error message will no longer be displayed.	Collaboration

3.3.10 Administration and migration

ID	Issue	Category
1792068408454	The online check shows no errors any more after initialization of the default authority model.	Administration
1792956659051	The created backup can be used if an "ORA-00001: unique constraint" failure occurs. For countermeasures to prevent this failure please contact the PREEvision support team.	Migration

3.4 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector support for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

User manual incorrect for Product Goal import via Excel

The user manual is incorrect with regard to the **Product Goal import from Excel**. In PREEvision 7.0, only *Requirements* can be imported with the **Product Goal import from Excel**. *Customer Features* cannot be imported. This functionality will be available with PREEvision 7.5.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

4 PREEvision 7.0 SP16

This chapter contains the following information:

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4.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.16
PREEvision license server	2.0.4
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.13.01
PREEvision application server (3-tier)	7.0.16

Documentation

Manual	Version number
PREEvision manual	7.0.12
PREEvision operating manual	7.0.13
PREEvision system requirements	7.0.13

4.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

New Java version

Java 1.7.0_80 is now provided with the PREEvision client installation.

Existing application server runtimes should also be updated to Java version 1.7.0_80.

New Oracle JDBC driver version (3-tier only)

With PREEvision 7.0 SP11, the Oracle JDBC driver (`ojdbc7.jar`) has been updated to version 12.1.0.2.

The new version of the `objdbc7.jar` is included in the delivery of the PREEvision 3-tier server application (`as_middleware_<version>.zip`) under `/dbdrivers`.

If an Oracle 12 database is used, the new driver version must be used in the application server.

If an Oracle 11 database is used, it is recommended to use the new driver version.

Update licenses on middleware license server (3-tier only)

With PREEvision 7.0 SP10, a new version of the middleware license server is included in the PREEvision server application.

When using the middleware license server, licenses have to be uploaded again with the following procedure:

1. Stop the application server (e.g. during the update of the PREEvision server application).
2. Switch to the `license-db` folder (e.g. under Tomcat in `Tomcat/work/Catalina/localhost\vCollab…` or in the specified license path in the Java settings).
3. Delete the `*.lic` files.
4. Start the application server.
5. Upload the licenses via the client again to the server.

   The license to user assigments (`namedUsersForLicenses` configuration file) should still be valid.

LDAP configuration changed (3-tier only)

With PREEvision 7.0 SP10, the LDAP configuration in 3-tier environments has been changed and needs to be modified.

For detailed information, refer to the **Operating Manual**.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24

Client version	Server application version	Database server script version
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2
7.0.10	7.0.10	7.0.10.04
7.0.11	7.0.11	7.0.10.04
7.0.12	7.0.12	7.0.12.02
7.0.13	7.0.13	7.0.13.01
7.0.14	7.0.14	7.0.13.01
7.0.15	7.0.15	7.0.13.01
7.0.16	7.0.16	7.0.13.01

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 **Operating Manual**.

4.3 Fixed issues

Fixed issues in PREEvision 7.0 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.

Further information

- Common
- Product goals
- AUTOSAR
- Communication
- Hardware architecture
- Geometry
- Functional safety
- Metrics
- Collaboration
- License

4.3.1 Common

ID	Issue	Category
1792830958220	It can be configured to take over the EPDM-ID during copy or reuse of an artifact.	Common

4.3.2 Product goals

ID	Issue	Category
1792594198454	After deleting the ID for a *Requirement* via shortcut menu refactoring, the value of the ID is correctly reset.	Product goals

4.3.3 AUTOSAR

ID	Issue	Category
1792623297721	The AUTOSAR export option for `SHORT-NAME`s longer than 32 characters is set as default to `TRUE`	AUTOSAR
1792623307721	On AUTOSAR export, the not supported attributes `NM-PDU.NM-CBV-POSITION`, `NM-PDU.NM-NID-POSITION` and `NM-PDU.NM-USER-DATA-LENGTH` will not generate an XML attribute.	AUTOSAR
1792623317721	On AUTOSAR export, the limit values of the scale constraints will be exported considering the primitive data type.	AUTOSAR

ID	Issue	Category
1792623377721	On AUTOSAR import, a *Scale Linear Conversion* is created, when the computation method has `CATEGORY = LINEAR` but more than one `COMPU-SCALE`.	AUTOSAR
1792648788454	Fatal error on creating an ECU extract has been fixed.	AUTOSAR
1792650312791	On AUTOSAR ECU extract, `I-SIGNAL`s get the same UUID for the same bus for different ECU extracts.	AUTOSAR
1792650367721	AUTOSAR import and export consider the intervals for the computation method with `CATEGORY=SCALE_LINEAR_AND_TEXTTABLE`.	AUTOSAR
1792654802791	During AUTOSAR export, no XML attribute will be generated if, for the *Signal IPDU*, the **Time Offset** of **Cyclic Timing** is set to -1.	AUTOSAR
1792664712689	During AUTOSAR import, if one PDU contains signals with mixed byte orders, the start position will not be converted.	AUTOSAR
1792679050455	On AUTOSAR export, `TX-BIT-RATE-SWITCH` will be exported.	AUTOSAR
1792831219118	Export of an AUTOSAR ECU extract: Setting the flag `synthesizeISignals` to `TRUE` in the `eea2autosar.config` file, `I-SIGNAL`s are synthetized depending on the bus (one `I-SIGNAL` per bus segment). With `synthesizeISignals` set to `FALSE` one `I-SIGNAL` for the whole system (one `I-SIGNAL` for all bus segments) will be synthetized.	AUTOSAR
1792832420455	AUTOSAR export of an ECU extract no longer creates duplicate *SW Port*s.	AUTOSAR
1792832430455	On AUTOSAR export, the PNC Mapping is exported when it is connected through a `wakeUpFrame`.	AUTOSAR
1792832490455	The AUTOSAR ECU extract generates an ECU composition with the name and UUID calculated from the ECU instance.	AUTOSAR
1792883960455	Export of an AUTOSAR system description: Setting the flag `LDF2AR` to `TRUE` in the `eea2autosar.config` file, the start position of the signals inside of the *PDU* will be taken directly from the PREEvision model. If it is set to `FALSE` the start position will be converted.	AUTOSAR
1792894182791	During export of an AUTOSAR ECU extract, the correct *Signal* name is set.	AUTOSAR

4.3.4 Communication

ID	Issue	Category
1792045100455	The property page **Gateway Transmission** of *PDU Transmission*s shows the correct content now.	Communication
1792433818454	Null pointer errors on FIBEX export are fixed.	Communication
1792662132791	If the attribute **Sync Node Max** of a *FlexRay Cluster* is set to `-1`, no XML attribute will be generated during FIBEX export. During FIBEX import, **Sync Node Max** will be set to `-1` if no XML attribute is contained in the import file.	Communication
1792662152791	If the attribute **Cycle** of a *FlexRay Cluster* is set to `-1`, no XML attribute will be generated during FIBEX export. During FIBEX import, **Cycle** will be set to `-1` if no XML attribute is contained in the import file.	Communication
1792662192791	If the attribute **Max Drift** of a *FlexRay Connector Type* is set to `-1`, no XML attribute will be generated during FIBEX export. During FIBEX import, **Max Drift** will be set to `-1` if no XML attribute is contained in the import file.	Communication
1792673792689	The DBC import has been improved to support specific character sets.	Communication

4.3.5 Hardware architecture

ID	Issue	Category
1792463979051	During a KBL import the value of abbreviation of `Connector_housing` or `fixing` will be imported to the name of the connector *Plug Type* or *Topology Type* if no part number is defined or the part number has value `/NULL`. Otherwise, the value of part number will be imported as name.	Hardware architecture
1792484039005	During a KBL export the description of the *Connector Type* is now exported to KBL `Connector_housing`.	Hardware architecture
1792831119051	During a KBL export the unit for segments will be exported correctly with SI units.	Hardware architecture
1792897608157	Resetting labels and diagram rendering is working on midpoint labels.	Hardware architecture

4.3.6 Geometry

ID	Issue	Category
1792670848454	The refactoring **Change Branch-Off to Topology Segment Point** works correctly now.	Geometry
1792676878454	When merging connections via metrics, the result is correctly displayed in *Geometry Diagram*s.	Geometry

4.3.7 Functional safety

ID	Issue	Category
1792594108454	The columns **rev. Severity**, **rev. Occurence** and **rev. Detection** are ordered correctly in the FMEA table editor now.	Functional safety
1792594118454	The parent ID refactoring works for children in terms of functional safety requirements now.	Functional safety
1792594158454	The FMEA table editor shows the severity, occurrence and detection ranking based on the assigned *FMEA Ranking Schema* now.	Functional safety
1792594178454	Malfunction *Propagation Condition*s are now moveable to other *Malfunction Package*s.	Functional safety

4.3.8 Metrics

ID	Issue	Category
1792629239824	Long result strings of metrics are truncated to 1000 characters in *Metric Diagram*s and result view to improve performance and representation.	Metrics

4.3.9 Collaboration

ID	Issue	Category
1792672588454	Commit can be executed after refactoring and deleting.	Collaboration
1792675762987	Committing files in SVN is possible without timeout.	Collaboration
1792832380451	Commit can be executed when changing the description of reused artifacts.	Collaboration

4.3.10 License

ID	Issue	Category
1792482580451	When working with a viewer role, diagrams are displayed with a red border now instead of a red background.	License

4.4 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector support for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

User manual incorrect for Product Goal import via Excel

The user manual is incorrect with regard to the **Product Goal import from Excel**. In PREEvision 7.0, only *Requirements* can be imported with the **Product Goal import from Excel**. *Customer Features* cannot be imported. This functionality will be available with PREEvision 7.5.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

5 PREEvision 7.0 SP15

This chapter contains the following information:

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5.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.15
PREEvision license server	2.0.4
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.13.01
PREEvision application server (3-tier)	7.0.15

Documentation

Manual	Version number
PREEvision manual	7.0.12
PREEvision operating manual	7.0.13
PREEvision system requirements	7.0.13

5.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

New Java version

Java 1.7.0_80 is now provided with the PREEvision client installation.

Existing application server runtimes should also be updated to Java version 1.7.0_80.

New Oracle JDBC driver version (3-tier only)

With PREEvision 7.0 SP11, the Oracle JDBC driver (`ojdbc7.jar`) has been updated to version 12.1.0.2.

The new version of the `objdbc7.jar` is included in the delivery of the PREEvision 3-tier server application (`as_middleware_<version>.zip`) under `/dbdrivers`.

If an Oracle 12 database is used, the new driver version must be used in the application server.

If an Oracle 11 database is used, it is recommended to use the new driver version.

Update licenses on middleware license server (3-tier only)

With PREEvision 7.0 SP10, a new version of the middleware license server is included in the PREEvision server application.

When using the middleware license server, licenses have to be uploaded again with the following procedure:

1. Stop the application server (e.g. during the update of the PREEvision server application).
2. Switch to the `license-db` folder (e.g. under Tomcat in `Tomcat/work/Catalina/localhost\vCollab…` or in the specified license path in the Java settings).
3. Delete the `*.lic` files.
4. Start the application server.
5. Upload the licenses via the client again to the server.

   The license to user assigments (`namedUsersForLicenses` configuration file) should still be valid.

LDAP configuration changed (3-tier only)

With PREEvision 7.0 SP10, the LDAP configuration in 3-tier environments has been changed and needs to be modified.

For detailed information, refer to the **Operating Manual**.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24

Client version	Server application version	Database server script version
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2
7.0.10	7.0.10	7.0.10.04
7.0.11	7.0.11	7.0.10.04
7.0.12	7.0.12	7.0.12.02
7.0.13	7.0.13	7.0.13.01
7.0.14	7.0.14	7.0.13.01
7.0.15	7.0.15	7.0.13.01

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 **Operating Manual**.

5.3 Fixed issues

Fixed issues in PREEvision 7.0 SP15

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	Issue	Category
1792074730451	Multi-range codings for LIN *Signals* are mapped to Linear Verbal Table Conversion during LDF import and export.	Communication
1792595402790	During a KBL import KBL-Modules are imported as PREEvision *Sets*. If a KBL-Module belongs to a ModuleFamily, the attributes (e.g. **Name**) are also transformed correctly now. More than one ModuleFamily (being mapped to *Variant Packages*) is supported now.	Hardware architecture
1792485207721	An exception message is output in the **Information View**, when an artifact contained in a *Reuse Unit* cannot be integrated.	Product line management

5.4 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector support for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

User manual incorrect for Product Goal import via Excel

The user manual is incorrect with regard to the **Product Goal import from Excel**. In PREEvision 7.0, only *Requirements* can be imported with the **Product Goal import from Excel**. *Customer Features* cannot be imported. This functionality will be available with PREEvision 7.5.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

6 PREEvision 7.0 SP14

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6.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.14
PREEvision license server	2.0.3
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.13.01
PREEvision application server (3-tier)	7.0.14

Documentation

Manual	Version number
PREEvision manual	7.0.12
PREEvision operating manual	7.0.13
PREEvision system requirements	7.0.13

6.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

New Java version

Java 1.7.0_80 is now provided with the PREEvision client installation.

Existing application server runtimes should also be updated to Java version 1.7.0_80.

New Oracle JDBC driver version (3-tier only)

With PREEvision 7.0 SP11, the Oracle JDBC driver (`ojdbc7.jar`) has been updated to version 12.1.0.2.

The new version of the `objdbc7.jar` is included in the delivery of the PREEvision 3-tier server application (`as_middleware_<version>.zip`) under `/dbdrivers`.

If an Oracle 12 database is used, the new driver version must be used in the application server.

If an Oracle 11 database is used, it is recommended to use the new driver version.

Update licenses on middleware license server (3-tier only)

With PREEvision 7.0 SP10, a new version of the middleware license server is included in the PREEvision server application.

When using the middleware license server, licenses have to be uploaded again with the following procedure:

1. Stop the application server (e.g. during the update of the PREEvision server application).
2. Switch to the `license-db` folder (e.g. under Tomcat in `Tomcat/work/Catalina/localhost\vCollab…` or in the specified license path in the Java settings).
3. Delete the `*.lic` files.
4. Start the application server.
5. Upload the licenses via the client again to the server.

   The license to user assigments (`namedUsersForLicenses` configuration file) should still be valid.

LDAP configuration changed (3-tier only)

With PREEvision 7.0 SP10, the LDAP configuration in 3-tier environments has been changed and needs to be modified.

For detailed information, refer to the **Operating Manual**.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24

Client version	Server application version	Database server script version
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2
7.0.10	7.0.10	7.0.10.04
7.0.11	7.0.11	7.0.10.04
7.0.12	7.0.12	7.0.12.02
7.0.13	7.0.13	7.0.13.01
7.0.14	7.0.14	7.0.13.01

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 **Operating Manual**.

6.3 Fixed issues

Fixed issues in PREEvision 7.0 SP14

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 and tables
- System software architecture
- AUTOSAR
- Communication
- Hardware architecture
- Geometry
- Product line approach
- Metrics
- Collaboration
- Administration

6.3.1 Common

ID	Issue	Category
1792552579823	Creating and editing an external link on the **External Sync** property page no longer leads to a client freeze.	Common

6.3.2 Diagrams and tables

ID	Issue	Category
1792554532709	The position (padding) of attribute values which are integrated in a *Title Block* via query has been corrected.	Diagrams
1792581319051	Reference lines from diagram artifacts to tables displayed in the diagram are rendered correctly when the diagram is exported to PDF.	Diagrams
1792584897721	Undocking labels in diagram sets the docking position to null instead of "" in the model	Diagrams
1792271312644	Formatted texts are saved correctly if the LibreOffice editor is opened from a table.	Tables
1792584502647	Tables which are filled via metric can be exported via the Excel export again.	Tables
1792598502647	The column filter now also works for tables which are filled via metric.	Tables

6.3.3 System software architecture

ID	Issue	Category
1792471998157	A deadlock which occurred when creating *Assembly Connector*s in a temporary table has been fixed.	System software architecture

6.3.4 AUTOSAR

ID	Issue	Category
1792462690455	New rules have been added to the *Consistency Rule Group* "AUTOSAR 4" to check the consistency of the PDU routing entries.	AUTOSAR
1792523057721	The AUTOSAR 3.2.2 ECU Extract correctly exports *Signal Group*s.	AUTOSAR
1792523210455	Expand rules for the AUTOSAR export has been extended to export assemblies connected to an *RPort* and *PPort*.	AUTOSAR
1792541842791	Wrong references in the AUTOSAR 3.2.2 export of an ECU Extract have been fixed.	AUTOSAR
1792570687721	In the AUTOSAR 3.2.2 export of an ECU Extract, the *ISignal* prefix is configurable now.	AUTOSAR
1792576840455	The AUTOSAR import with merge does no longer create *Assembly Connector*s with only one connected *SWPort*.	AUTOSAR
1792583350455	The AUTOSAR import with merge deletes *Signal IPDU Assignment*s when the referenced *Signal* is deleted.	AUTOSAR
1792583360455	The AUTOSAR import with merge works again.	AUTOSAR
1792583692791	The AUTOSAR import wizard and the import metric handle the parameter **Perform Deletions** identically now.	AUTOSAR
1792623298454	The AUTOSAR export considers *Application Record Element*s.	AUTOSAR

6.3.5 Communication

ID	Issue	Category
1792268068157	During DBC import with merge a gateway entry is created only in the case if a *Signal* is received and sent in different *Bus System*s.	Communication
1792541290455	The **Sender** column of the *FlexRay Schedule Table* (cycle oriented, static) has been fixed.	Communication

ID	Issue	Category
1792460152689	During DBC export the alias names are used for reused *ECU*s within PREEvision.	Communication
1792602547721	During the FIBEX export, the value of `CLUSTER-TYPE.flexray:CYCLE` is no longer rounded.	Communication

6.3.6 Hardware architecture

ID	Issue	Category
1792359029051	If performing a complete KBL import the name of the KBL file is taken for the name of the import package. This allows a better differentiation if importing a lot of files at once.	Hardware architecture
1792374100452	Hiding connections and hiding labels in diagrams is now available with keyboard shortcuts <CTRL>+<K> / <CTRL>+<O>.	Hardware architecture
1792597957721	Creating *Sheet Connector*s works correctly and no longer prevents committing *Wiring Harness Diagram*s.	Hardware architecture

6.3.7 Geometry

ID	Issue	Category
1792575489005	The graphical orientation of segment points within *Geometry Diagrams* now respects the set start point (if start point on segment is changed, the orientation of the segment point is also rotated).	Geometry

6.3.8 Product line approach

ID	Issue	Category
1792234829823	Condition assignments can now be modeled as multiple connections in diagrams. The old behavior (assigning a condition assignment via another condition assignment) was deactivated.	Product line approach
1792485138454	Creation of an *Equipment Template* no longer causes lost and founds.	Product line approach
1792629949823	The content of *Set*s is displayed in the *Variant Diagram* again.	Product line approach

6.3.9 Metrics

ID	Issue	Category
1792595668454	The fractional digits will be imported completely using the Excel import metric block. There is no cut off or rounding.	Metrics

6.3.10 Collaboration

ID	Issue	Category
1792216537721	Historic model version can be loaded in parallel now.	Collaboration
1792574622647	An error has been fixed which prevented to commit diagrams of the wiring harness layer.	Collaboration

6.3.11 Administration

ID	Issue	Category
1792574342687	Initializing a database project with a file-based model is possible now, even if the model contains a huge number of artifacts and many formatted texts.	Administration

6.4 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector support for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

User manual incorrect for Product Goal import via Excel

The user manual is incorrect with regard to the **Product Goal import from Excel**. In PREEvision 7.0, only *Requirements* can be imported with the **Product Goal import from Excel**. *Customer Features* cannot be imported. This functionality will be available with PREEvision 7.5.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

7 PREEvision 7.0 SP13

This chapter contains the following information:

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7.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.13
PREEvision license server	2.0.3
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.13.01
PREEvision application server (3-tier)	7.0.13

Documentation

Manual	Version number
PREEvision manual	7.0.12
PREEvision operating manual	7.0.13
PREEvision system requirements	7.0.13

7.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

New Java version

Java 1.7.0_80 is now provided with the PREEvision client installation.

Existing application server runtimes should also be updated to Java version 1.7.0_80.

New Oracle JDBC driver version (3-tier only)

With PREEvision 7.0 SP11, the Oracle JDBC driver (`ojdbc7.jar`) has been updated to version 12.1.0.2.

The new version of the `objdbc7.jar` is included in the delivery of the PREEvision 3-tier server application (`as_middleware_<version>.zip`) under `/dbdrivers`.

If an Oracle 12 database is used, the new driver version must be used in the application server.

If an Oracle 11 database is used, it is recommended to use the new driver version.

Update licenses on middleware license server (3-tier only)

With PREEvision 7.0 SP10, a new version of the middleware license server is included in the PREEvision server application.

When using the middleware license server, licenses have to be uploaded again with the following procedure:

1. Stop the application server (e.g. during the update of the PREEvision server application).
2. Switch to the `license-db` folder (e.g. under Tomcat in `Tomcat/work/Catalina/localhost\vCollab…` or in the specified license path in the Java settings).
3. Delete the `*.lic` files.
4. Start the application server.
5. Upload the licenses via the client again to the server.

   The license to user assigments (`namedUsersForLicenses` configuration file) should still be valid.

LDAP configuration changed (3-tier only)

With PREEvision 7.0 SP10, the LDAP configuration in 3-tier environments has been changed and needs to be modified.

For detailed information, refer to the **Operating Manual**.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24

Client version	Server application version	Database server script version
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2
7.0.10	7.0.10	7.0.10.04
7.0.11	7.0.11	7.0.10.04
7.0.12	7.0.12	7.0.12.02
7.0.13	7.0.13	7.0.13.01

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 **Operating Manual**.

7.3 Fixed issues

Fixed issues in PREEvision 7.0 SP13

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 and tables
- Product goals
- Logical function architecture
- System software architecture
- AUTOSAR
- Communication
- Hardware architecture
- Geometry
- Functional safety
- Metrics
- Collaboration
- Administration

7.3.1 Common

ID	Issue	Category
1792218182716	A fallback mechanism has been implemented if the `modelcreation.properties` file for filtering the **New** menu is not available in the model.	Common
1792467672689	On the **General** property page of an *Implementation Record*, the data type can now be set for a newly created *Implementation Record Element*.	Common

7.3.2 Diagrams and tables

ID	Issue	Category
1792465969051	The function for copying the layout was enhanced to ignore legends and title blocks including their content as these are always supplemented to the diagram via the diagram configurations, and thus shall never be copied.	Diagrams
1792474822790	*Title Block* with content delivered by a model query can be shown in all diagrams.	Diagrams
1792474832790	Formatted text attributes in *Title Blocks* delivered by a model query are now shown correctly.	Diagrams

ID	Issue	Category
1792474972790	If a *Title Block* contains content delivered by a model query, section and diagram can now be passed as source object to the model query.	Diagrams
1792453898454	In the **Table Editor** preferences it can now be defined which text character is interpreted as empty value in a table cell.	Tables

7.3.3 Product goals

ID	Issue	Category
1792455782689	During the Excel import, only the *Requirement Attribute Definitions* within the selected *Requirement Attribute Definition Package* are considered now.	Product goals
1792472072689	During the Excel import, names of *Requirements* / *Customer Features* will only be changed if the name attribute is contained in the imported Excel file.	Product goals

7.3.4 Logical function architecture

ID	Issue	Category
1792470467721	The **Convert block** refactoring available for a block within the *Logical System Architecture Diagram* has been corrected. It correctly builds the graphical representation of the block now.	Logical function architecture
1792472849822	The **Convert block** refactoring in the *Logical System Architecture Diagram* has been corrected. Existing connections are kept when changing port types.	Logical function architecture
1792474152647	Moving logical instance artifacts is now possible in the instance layer.	Logical function architecture

7.3.5 System software architecture

ID	Issue	Category
1792467232791	On the **Parameters** property page of an *Operation*, adding and deleting *Operation Parameters* works now via the **[+]** and **[-]** buttons.	System software architecture
1792473098454	Indirectly connected ports of an assembly structure are shown on the **Connected SW Components** property page again.	System software architecture

7.3.6 AUTOSAR

ID	Issue	Category
1792064232689	During AUTOSAR import and export the *Timing Event* with period 0 is considered as `InitEvent`.	AUTOSAR
1792454462791	The AUTOSAR export metric supports expand rules now.	AUTOSAR
1792465120455	In AUTOSAR `shortLabel` of `CompuScales` are imported to and exported from an **EEAttribute**.	AUTOSAR
1792469070455	For the AUTOSAR export the handling of Signal Ports on Gateways has been corrected.	AUTOSAR
1792474500455	In the AUTOSAR export the value of the attribute **Nm Passive Mode Enabled** will be exported from *Nm Node* and no longer from *Nm ECU*.	AUTOSAR
1792474842791	During AUTOSAR import *the Implementation Data Pointer* is set in the correct *Data Type Package*.	AUTOSAR
1792474852791	The AUTOSAR export considers the *Mode Request Implementation Type Mapping*.	AUTOSAR
1792482290455	A commit error has been fixed which occurred after an AUTOSAR import with merge.	AUTOSAR
1792482300455	A commit error has been fixed which occurred after the AUTOSAR import of a `Bitfield_Texttable` computation method.	AUTOSAR
1792482310455	A commit error has been fixed which occurred after the AUTOSAR import of *Internal Behavior*.	AUTOSAR
1792484190455	The AUTOSAR import and export of *Calibration Parameter* has been removed.	AUTOSAR
1792469610455	Fixed problems on AUTOSAR import with merge using UUIDs.	AUTOSAR
1792524652791	The merge criterion can now be set for the AUTOSAR import metric.	AUTOSAR

7.3.7 Communication

ID	Issue	Category
1792455222689	In the FIBEX import the merging page is only shown if the merging import option is selected.	Communication
1792465780455	In FIBEX the references of *Signals* to *Signal Groups* are correctly exported.	Communication
1792466232791	The Signal Router correctly creates the references from *Signal Transmission* to all receiving *ECU Interfaces*.	Communication

ID	Issue	Category
1792466282689	In case of nested data types (e.g. array in record) the Signal Router generates the correct number of *Signals* and mappings	Communication
1792467692689	On the property page **Data Type Signal Mappings** of a *System Signal Mapping* it is now possible to define the signal and the data type.	Communication
1792468042689	In the FIBEX export the attribute **Cycle** of a *FlexRay Cluster* is exported correctly.	Communication
1792471622791	During FIBEX export the name of an *Nm ECU* is exported into the `SHORT-NAME` in FIBEX.	Communication
1792471632791	In the FIBEX export the reference from *Gateway* to *ECU* is now considered.	Communication
1792471642791	In the FIBEX export `MICRO-PER-MACRO-NOM` is only exported if `MICROTICK` is not set.	Communication
1792484280455	For *IPDUs* and *NPDUs* a new property page **Transport Protocol** is available.	Communication

7.3.8 Hardware architecture

ID	Issue	Category
1792481519005	The KBL export has been enhanced: > the seal type of a pin is now always exported as cavity seal > the seal type of a pin with a pin type with the name „empty_cavity“ will now be exported as cavity plug	Hardware architecture
1792481319005	The KBL import has been enhanced: > empty cavities are now imported as a pin with pin type with name „empty_cavity“ > cavity plugs are now imported as seal type and are associated to the pin	Hardware architecture

7.3.9 Geometry

ID	Issue	Category
1792455589005	The handling of segment points and intervals was enhanced to respect the set start point of the segment correctly.	Geometry

7.3.10 Functional safety

ID	Issue	Category
1791682409051	The safety case report considers the model context now.	Functional safety

7.3.11 Metrics

ID	Issue	Category
1792459202689	Client response has been improved when working with looped metrics in combination with queries.	Metrics

7.3.12 Collaboration

ID	Issue	Category
1792048359822	Filtering and sorting on tables requires a lock.	Collaboration

7.3.13 Administration

ID	Issue	Category
1792469822687	Files are now correctly exported during model export of a 3-tier project to an `*.eea` file.	Administration

7.4 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector support for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

8 PREEvision 7.0 SP12

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8.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.12
PREEvision license server	2.0.3
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.12.02
PREEvision application server (3-tier)	7.0.12

Documentation

Manual	Version number
PREEvision manual	7.0.12
PREEvision operating manual	7.0.12
PREEvision system requirements	7.0.12

8.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

New Oracle JDBC driver version (3-tier only)

With PREEvision 7.0 SP11, the Oracle JDBC driver (`ojdbc7.jar`) has been updated to version 12.1.0.2.

The new version of the `objdbc7.jar` is included in the delivery of the PREEvision 3-tier server application (`as_middleware_<version>.zip`) under `/dbdrivers`.

If an Oracle 12 database is used, the new driver version must be used in the application server.

If an Oracle 11 database is used, it is recommended to use the new driver version.

Update licenses on middleware license server (3-tier only)

With PREEvision 7.0 SP10, a new version of the middleware license server is included in the PREEvision server application.

When using the middleware license server, licenses have to be uploaded again with the following procedure:

1. Stop the application server (e.g. during the update of the PREEvision server application).
2. Switch to the `license-db` folder (e.g. under Tomcat in `Tomcat/work/Catalina/localhost\vCollab...` or in the specified license path in the Java settings).
3. Delete the `*.lic` files.
4. Start the application server.
5. Upload the licenses via the client again to the server.

   The license to user assigments (`namedUsersForLicenses` configuration file) should still be valid.

LDAP configuration changed (3-tier only)

With PREEvision 7.0 SP10, the LDAP configuration in 3-tier environments has been changed and needs to be modified.

For detailed information, refer to the **Operating Manual**.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24
7.0.3	7.0.3	7.0.3.0

Client version	Server application version	Database server script version
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2
7.0.10	7.0.10	7.0.10.04
7.0.11	7.0.11	7.0.10.04
7.0.12	7.0.12	7.0.12.02

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 **Operating Manual**.

8.3 Fixed issues

Fixed issues in PREEvision 7.0 SP12

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 and tables
- Product goals
- AUTOSAR
- System software architecture
- Communication
- Hardware architecture
- Geometry
- Product line management
- Change and release management
- Rules, metrics and reports
- Collaboration
- License

8.3.1 Common

ID	Issue	Category
1791317432727	Sporadically, the **Delete** action was no longer available in the shortcut menu and could not be executed via shortcut. The issue has been solved.	Common
1792356032647	*SW-Impl:Mappings* can be created via drag and drop in the **Model View**.	Common
1792382898454	The port type mappings and component type mappings are now shown in the **Property View**.	Common
1792399542647	To dereference an *Application Data Type*, the entry "-not set-" is now available in the drop-down list for setting the data type of a *Requirement Attribute Definition* and a *Measurement Definition*.	Common
1792433549822	The pinning state of **Portlet Views** is persisted when the perspective is saved or the application is closed.	Common
1792438012791	The length of an *Application Array Type* can now be set in the **Property View**.	Common

ID	Issue	Category
1792438022791	Data elements are displayed in the **Accessed Data** drop-down list independent of the flag `isQueued`.	Common
1792450849822	Performance of active online checks has been improved. Online checks are only executed if they reject a commit or check-in or if they are assigned to an activate rule group.	Common

8.3.2 Diagrams and tables

ID	Issue	Category
1792270400452	*Title Block* texts are presented in a diagram directly after creation.	Diagrams
1792449740452	Rendering of tables in diagrams is not blocked when a diagram is printed using LibreOffice.	Diagrams
1792451147721	Rendering the **Outline** view no longer blocks opening a diagram.	Diagrams
1792452102709	Inserting new pictures in a diagram is now possible even if the diagram uses a *Legend*. The object configuration from the *Legend* is now ignored for all document artifacts.	Diagrams
1792428748454	Table cell inputs are associated to the correct column even if columns are hidden.	Tables
1792453828454	Opening a cell editor which contains enumeration values selects the first empty item.	Tables
1792455248454	On copy and paste in table editors, lines are processed before pasting to avoid wrong parent and child relations of rows.	Tables

8.3.3 Product goals

ID	Issue	Category
1792431508454	Paste as new artifact works as expected for requirement attributes.	Product goals
1792437379822	During RIF import, RIF files containing links and OLE objects are imported correctly.	Product goals

8.3.4 AUTOSAR

ID	Issue	Category
1792432699118	In the AUTOSAR export dialog, the option **Export active variant only** works for the AUTOSAR ECU and System extract.	AUTOSAR
1792436499118	Delegation Ports are correctly generated in the AUTOSAR System Extract.	AUTOSAR
1792444030455	During the AUTOSAR export, empty `DISABLED-MODE` elements are no longer created. `SwDataDefProps.implementationDataType` is realized as `TYPE_REFERENCE`.	AUTOSAR
1792446770455	During the AUTOSAR import, the signal description is merged.	AUTOSAR
1792454720455	An AUTOSAR export with the option **Custom Export** exports all selected artifacts irrespective of whether the artifact is referenced or not.	AUTOSAR
1792455158454	The AUTOSAR 3.2.2 export works correctly an *Implementation Type* is set to "Real".	AUTOSAR
1792466160455	The AUTOSAR export only creates a `TRANSMISSION-MODE-CONDITION` element if a data filter type is set.	AUTOSAR

8.3.5 System software architecture

ID	Issue	Category
1792467242791	For the *Internal Behavior* of *Application SW Component Types*, *Nv Bock Needs* can be created via **New** menu now.	System software architecture

8.3.6 Communication

ID	Issue	Category
1792444468454	Communication attributes are displayed (in case that values are existent) also when the type definition set for the routing artifact is not set.	Communication
1792452548454	During FIBEX export, the bit position is exported for *NMPDU* and *Multiplexer PDU*.	Communication
1792452558454	In the FIBEX export the `DESC` element is not exported when the artifact description is empty.	Communication

ID	Issue	Category
1792452568454	In the FIBEX import/export, `COMPU-CONST` elements with value="null" will be imported and exported.	Communication
1792454048454	The FIBEX export creates schema-conform IDs.	Communication

8.3.7 Hardware architecture

ID	Issue	Category
1792442592676	Adding a hardware device to a *Component Circuit Diagram* no longer causes an error.	Hardware architecture
1792451559005	The wiring harness router now recognizes all router configuration files, including local ones and also in the case of file-based working.	Hardware architecture

8.3.8 Geometry

ID	Issue	Category
1792442630452	The KBL export now exports the length of a segment as virtual and as physical length (both have the same value).	Geometry
1792442640452	The KBL export now exports also the `alias_id` of a connector (same value as `connector_occurrence_id`).	Geometry
1792450980452	The x/y coordinates for the representing *Connector Location* in the *Geometry Diagram* is now displayed in the **Property View**.	Geometry

8.3.9 Product line management

ID	Issue	Category
1792450329822	All cells of a table correctly show the variant highlighting now.	Product line management
1792452092647	The **VM Templates View** is refreshed when the scope is changed.	Product line management
1792456167721	Parent artifacts and their associated *Reuse Units* are considered to check whether a relation is protected by a *Reuse Unit*.	Product line management

8.3.10 Change and release management

ID	Issue	Category
1792357162647	The Gantt table within the *Project Plan* is scrollable.	Change and release management

8.3.11 Rules, metrics and reports

ID	Issue	Category
1792465157721	The **Consistency View** now correctly displays if there were „no matches“ found for any configured consistency rule.	Rules
1792434768454	Naming conventions can be disabled during metric execution now. Naming convention performance has been increased as well.	Metrics
1791671878454	Automatic placeholder selection has been disabled in reports to allow fluent scrolling in generated reports.	Reports
1792460949005	Stability of generating reports with many diagrams has been improved.	Reports

8.3.12 Collaboration

ID	Issue	Category
1792353288157	After a failed lock operation, changes are not accepted by the system.	Collaboration
1792401992672	The **Show/Hide Mappings** operation no longer causes lock conflicts.	Collaboration
1792403638454	Replacing a *Reuse Unit* with the latest version or reusing a *Reuse Unit* in another *Product Line* could lead to errors due to missing automatic locks. Handling of the automatic lock error has been implemented. However, the initial error could not be reproduced.	Collaboration

ID	Issue	Category
1792445222709	Using the search function could cause newly created *Graph Node Template Instance* artifacts being displayed in the **Model View**. When trying to load an update from the server, an error was reported. The issue could not be reproduced. However, with PREEvision 7.0 SP12, there are several issues fixed in context of this problem.	Collaboration
1792452758454	Copy and paste of formatted text within tables is now correctly handled during commit. Formatted texts are only synchronized in case of reuses. Copy and paste no longer synchronizes formatted texts.	Collaboration

8.3.13 License

ID	Issue	Category
1792449914825	When using a restricted license, type changes by unrestricted licenses are no longer causing multiple roots for users of restricted licenses.	License

8.4 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector support for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

9 PREEvision 7.0 SP11

This chapter contains the following information:

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9.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.11
PREEvision license server	2.0.3
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.10.04
PREEvision application server (3-tier)	7.0.11

Documentation

Manual	Version number
PREEvision manual	7.0.10
PREEvision operating manual	7.0.11
PREEvision system requirements	7.0.11

9.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

New Oracle JDBC driver version (3-tier only)

With PREEvision 7.0 SP11, the Oracle JDBC driver (`ojdbc7.jar`) has been updated to version 12.1.0.2.

The new version of the `objdbc7.jar` is included in the delivery of the PREEvision 3-tier server application (`as_middleware_<version>.zip`) under `/dbdrivers`.

If an Oracle 12 database is used, the new driver version must be used in the application server.

If an Oracle 11 database is used, it is recommended to use the new driver version.

Update licenses on middleware license server (3-tier only)

With PREEvision 7.0 SP10, a new version of the middleware license server is included in the PREEvision server application.

When using the middleware license server, licenses have to be uploaded again with the following procedure:

1. Stop the application server (e.g. during the update of the PREEvision server application).
2. Switch to the `license-db` folder (e.g. under Tomcat in `Tomcat/work/Catalina/localhost\vCollab...` or in the specified license path in the Java settings).
3. Delete the `*.lic` files.
4. Start the application server.
5. Upload the licenses via the client again to the server.

   The license to user assigments (`namedUsersForLicenses` configuration file) should still be valid.

LDAP configuration changed (3-tier only)

With PREEvision 7.0 SP10, the LDAP configuration in 3-tier environments has been changed and needs to be modified.

For detailed information, refer to the **Operating Manual**.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24
7.0.3	7.0.3	7.0.3.0

Client version	Server application version	Database server script version
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2
7.0.10	7.0.10	7.0.10.04
7.0.11	7.0.11	7.0.10.04

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 **Operating Manual**.

9.3 Changes

EPDM-ID changed to context attribute

The attribute **EPDM-ID** was changed from a version attribute in PREEvision 6.5 to a context attribute in PREEvision 7.0.

If the **EPDM-ID** is not used or the reuse operation in PREEvision is not used, this change does not affect your PREEvision installation or customizing. If you work with AUTOSAR or FIBEX import and export only, this change fixes important issues. If the **EPDM-ID** is used for integration with third party IT systems, this integration may be affected. In this case, please contact the Vector support for details.

9.4 Fixed issues

Fixed issues in PREEvision 7.0 SP11

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	Issue	Category
1792444812676	Editing a diagram having assigned a *Diagram Configuration* with a *Title Block Diagram*, no longer requires a lock on the *Title Block Diagram*.	Diagrams
1792431640455	The **CAN Identifiers** property page has been corrected. The **Frame ID** can now be correctly edited if the **CAN Identifiers** table is sorted.	Communication
1792449490455	If a *Computation Method* has a *Data Type Unit* assigned, the `displayName` of the *Unit* is taken as name for the `Signal_encoding_types` (in LIN).	Communication
1792437072791	AUTOSAR import and export of different **Frame IDs** for one *Frame* (`CAN-FRAME`) on one *Bus System* (`PHYSICAL-CHANNEL`) is now possible. Therefore, a specific *Model Context* has to be configured.	AUTOSAR
1792444020455	During AUTOSAR import, routings for *Signal Transmissions* with *Signal Group* type are imported now.	AUTOSAR
1792444690455	During AUTOSAR export of a System Description, `FrameTriggerings` are correctly exported considering all **CAN Identifiers** of a *Frame*.	AUTOSAR
1792446080455	The start position of a *Signal-IPDU-Assignment* is not exported to AUTOSAR, when the *Signal Group* is assigned to a *Signal IPDU*.	AUTOSAR
1792451020455	The byte order of a *Signal-IPDU-Assignment* is not exported to AUTOSAR, when the *Signal Group* is assigned to a *Signal IPDU*.	AUTOSAR
1792447250455	During AUTOSAR export, only `CANTriggerings` related to ECUs are considered.	AUTOSAR
1792449610455	During an AUTOSAR import with merge the following artifacts will be merged properly: > *Mode Declaration Groups* > *Application Type Implementation Type Mapping* > *Constant Specification*	AUTOSAR
1792450240455	A *Per-Instance Memory* as part of *Internal Behavior* of an *SW Component Type* is now supported by AUTOSAR import and export.	AUTOSAR

9.5 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector **support** for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Delete action not available (1791317432727)

Sporadically, the **Delete** action is no longer available in the shortcut menu and cannot be executed via shortcut.

Workaround: Restart the client.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

Lock fails after Show/Hide Mappings (1792401992672)

Different components of different model layers are linked via mappings (e.g. *Logical Functions* in the *Logical Function Architecture*, *ECUs* in the *Hardware Architecture* and *Application Software Components* in the *System Software Architecture*). When trying to hide the mappings in the corresponding diagrams (*Software Instance Diagram*, *Component Diagram*) lock conflicts occur in the course of the **Show/Hide Mappings** operation. The necessary locks cannot be executed anymore.

Workaround: Prior to hiding the mappings in the *Software Instance Diagram*, first lock the corresponding *Composition Type Diagram*. No lock conflicts will occur anymore.

Error when adding a hardware device to a Component Circuit Diagram (1792442592676)

When adding a hardware device to a *Component Circuit Diagram*, an error occurs (object has been removed).

Workaround: First close the diagram and reopen it again. Adding the hardware device is possible then.

10 PREEvision 7.0 SP10

This chapter contains the following information:

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10.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.10
PREEvision license server	2.0.3
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.10.04
PREEvision application server (3-tier)	7.0.10

Documentation

Manual	Version number
PREEvision manual	7.0.10
PREEvision operating manual	7.0.10
PREEvision system requirements	7.0.10

10.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

Update licenses on middleware license server (3-tier only)

With PREEvision 7.0 SP10, a new version of the middleware license server is included in the PREEvision server application.

When using the middleware license server, licenses have to be uploaded again with the following procedure:

1. Stop the application server (e.g. during the update of the PREEvision server application).
2. Switch to the `license-db` folder (e.g. under Tomcat in `Tomcat/work/Catalina/localhost\vCollab...` or in the specified license path in the Java settings).
3. Delete the `*.lic` files.
4. Start the application server.
5. Upload the licenses via the client again to the server.

   The license to user assigments (`namedUsersForLicenses` configuration file) should still be valid.

LDAP configuration changed (3-tier only)

With PREEvision 7.0 SP10, the LDAP configuration in 3-tier environments has been changed and needs to be modified.

For detailed information, refer to the **Operating Manual**.

New Oracle JDBC driver version (3-tier only)

With PREEvision 7.0 SP10, the Oracle JDBC driver (`ojdbc6.jar`) has been updated to version 12.1.0.1.0.

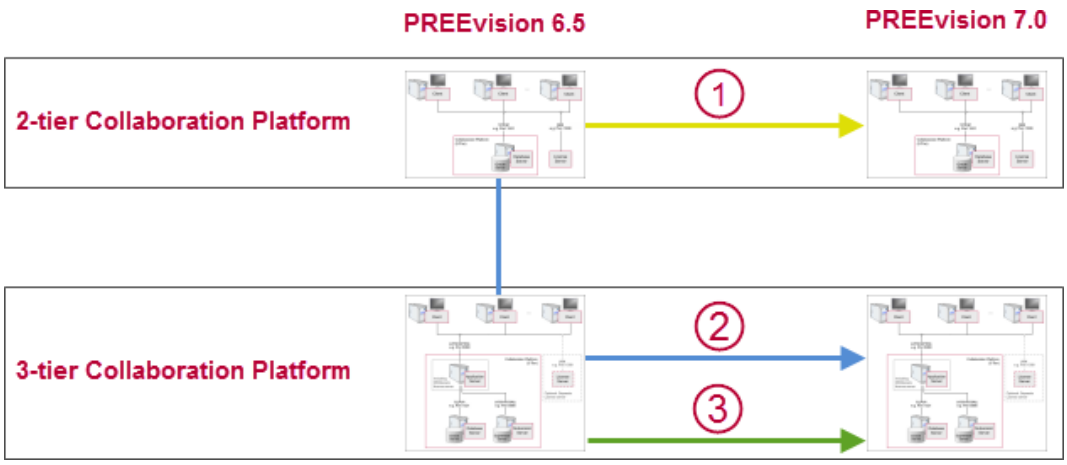
The new version of the `objdbc6.jar` is included in the delivery of the PREEvision 3-tier server application (`as_middleware_<version>.zip`) under `/dbdrivers`.

If an Oracle 12 database is used, the new driver version (or higher) must be used in the application server.

If an Oracle 11 database is used, it is recommended to use the new driver version.

Backup/restore and migration

The following migration paths from PREEvision 6.5 to PREEvision 7.0 are supported with the mentioned restrictions:



① **2-tier to 2-tier migration** from PREEvision 6.5 to 7.0
> without history (migration of latest model version only)
> with standard performance

② **2-tier to 3-tier migration** from PREEvision 6.5 to 7.0:
> without history (migration of latest model version only)
> with standard performance
> must be carried out in two steps:

1. Technology change from 2-tier to 3-tier must be performed first (on PREEvision 6.5)
2. Afterwards, data migration from PREEvision 6.5 to 7.0 can be performed.

③ **3-tier to 3-tier migration** from PREEvision 6.5 to 7.0:
> with or without history possible
> improved performance of history migration

Backup of 2-tier models from PREEvision 7.0 and restore to PREEvision 7.0 is only supported without history (last model version only). For backup/restore including history use a database dump instead.

Caution: Please contact the Vector **support** for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2
7.0.10	7.0.10	7.0.10.04

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 **Operating Manual**.

10.3 New features

Handling of type-prototype-instance inconsistencies

In PREEvision 7.0.10 enhancements in the synchronization of type-prototype-instance structures have been implemented.

10.4 Fixed issues

Fixed issues in PREEvision 7.0 SP10

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 and tables
- Product goals
- Logical function architecture
- AUTOSAR
- Communication
- Hardware architecture
- Geometry
- Product line management
- Functional safety
- Change and release management
- Test data management
- Rules, metrics and reports
- Collaboration
- Administration and installation

10.4.1 Common

ID	Issue	Category
1792217190455	The combo box for *Signal Transmissions* shows *Signals* and *Signal Groups* now.	Common
1792254562647	Model import has been corrected for properly displaying description content in description fields of the **Property View**.	Common
1792261672647	All perspectives are shown correctly after switching a project. Therefore trailing spaces in project files do not impact the perspective management anymore.	Common
1792279092985	It is now possible to set the default orientation (vertical/horizontal) of *Inline Connectors* after a drag and drop insertion from the **Model View** or from the palette in diagrams by means of a special preference.	Common
1792353418454	The table columns on the property page for *Requirement* attributes in the **Property View** can be resized again.	Common
1792358248454	The label defined by the object configuration is now also represented in the **Property View**.	Common

ID	Issue	Category
1792392198454	The object configuration is now refreshed correctly.	Common
1792398439822	Parametrized search rules now deliver correct results.	Common

10.4.2 Diagrams and tables

ID	Issue	Category
1792275939051	All available docking positions for labels in diagrams now work correctly.	Diagrams
1792358879822	Table editors in portlets now show the correct content even if the **Portlet View** is selection sensitive.	Tables
1792399099822	Selection propagation now works correctly for tables in *Activity Chains*.	Tables
1792429760452	The performance of tables in diagrams has been optimized, the validation of „Show In Diagram“ menu entries will first be executed when the menu is opened and no longer on selection.	Tables
1792433449822	Errors while quickly navigating within table editors via scrollbar do no longer occur (content which has only line break „\n“ is handled correctly).	Tables

10.4.3 Product goals

ID	Issue	Category
1792364798454	Requirements: The string 00010 is now correctly set in requirement attribute values.	Product goals
1792399612647	Requirements: The preview for placeholders in custom attributes of type “Text” works correctly now.	Product goals
1792401812647	Requirements: Placeholders in custom attributes of type “Text” can now be inserted via drag&drop or via dialog.	Product goals

10.4.4 Logical function architecture

ID	Issue	Category
1792056932646	Copy/Paste of diagram information from one *Logical Architecture System Diagram* to another works correctly.	Logical function architecture
1792068892689	*Timing Path Slot* can be assigned to the objects of an *Activity Chain*, if the ALT-selection of the *Activity Chain* is activated and ALT key is pressed or ALT selection is deactivated.	Logical function architecture

10.4.5 AUTOSAR

ID	Issue	Category
1792278440455	AUTOSAR export: LinSlaveConfig is correctly exported now.	AUTOSAR
1792345490455	AUTOSAR import: Upper and lower limit type of a LINEAR computation method are now correctly imported.	AUTOSAR
1792346332791	AUTOSAR import: Added merge option. Using a UUID merge, Composition Types with different UUIDs and same name will not be merged.	AUTOSAR
1792346362791	AUTOSAR import: A new option for merging with UUIDs avoids Software structure inconsistencies.	AUTOSAR
1792355902647	AUTOSAR import: Correct import result of EPDM-ID for „Implementation Value“, „Application Value Type“, „Base Type“.	AUTOSAR
1792362366486	AUTOSAR export: PDU routing entries are exported correctly now.	AUTOSAR
1792363092791	AUTOSAR import: InternalBehavior to DataTypeMapping reference is now imported correctly.	AUTOSAR
1792372942791	AUTOSAR import/export: Support for CanControllerFdConfiguration for AUTOSAR import and export.	AUTOSAR
1792381560455	AUTOSAR export: FIBEX references to NMConfig and TPConfig artifacts are exported now during AUTOSAR export.	AUTOSAR
1792399370455	AUTOSAR export: SenderReceiver to Signal Mapping is now correctly exported in system extract.	AUTOSAR
1792433612791	AUTOSAR export: The AUTOSAR export metric is now able to determine whether the AUTOSAR export shall use 128 character short names or not.	AUTOSAR

ID	Issue	Category
1792437250455	AUTOSAR export: PN-Clusters will now be exported to ECU Extracts.	AUTOSAR
1792438450455	AUTOSAR import: AUTOSAR import initializes value of ModeDeclarations and OnTransitionValue with -1 when they are not set.	AUTOSAR
1792438460455	AUTOSAR import: The Import of array length now works properly.	
1792438470455	AUTOSAR import: NV Block Needs are completely imported and exported.	AUTOSAR
1792438480455	AUTOSAR export: GenericPhysicalDataConstraint is now correctly imported and exported.	AUTOSAR
1792441130455	AUTOSAR export: The AUTOSAR export exports several *Clusters* correctly now.	AUTOSAR

10.4.6 Communication

ID	Issue	Category
1792068762727	The **Synchronize Number of Slots** action for *FlexRay Schedules* has been adapted. A new action was added which allows to fill up missing slots in a *FlexRay Schedule* (i.e. directly after an import).	Communication
1792068766486	The merge of multiplexed *Signal Transmissions* during DBC import has been corrected.	Communication
1792212008454	For *FlexRayCycleOrientedStatic Tables* and *FlexRaySlotOrientedStatic Tables* borders will be shown around the table cell if highlight is active and the cell has content.	Communication
1792252730455	During Frame Synthesis all types of *PDUs* are supported now, not only the *SignalIPDU*. When the model contains two *Frames* which are assigned to the same *PDU*, then the following message will be logged now if the verbose mode is active: „There is more than one frame that can handle exactly the same transmissions! FameX and FameY“.	Communication
1792269688157	If a *Frame* in DBC is a Network Management Frame (Attribute NmMessage = yes/ja) a corresponding *Nm PDU* is created during DBC import.	Communication
1792270928157	For LIN *Signals* of type Byte Array an Implementation Value is created instead of an Implementation Array during LIN import.	Communication

ID	Issue	Category
1792272898352	During DBC import the timing for multiplexed frames is stored on the *Signal IPDU* of the static part. If no static part exists for the multiplexed frames an empty static part will be created.	Communication
1792434762689	Drag and drop operations on FlexRay scheduling tables work properly now.	Communication

10.4.7 Hardware architecture

ID	Issue	Category
1792077350452	*Wire* and *Cable* colors are now displayed in capital letters in diagram labels (like in all other places).	Hardware architecture
1792351569051	The KBL export was corrected so that the PREEvision name is now correctly exported to the Alias_id instead of only the ID of the artifact.	Hardware architecture
1792353412647	It is now possible to make condition assignments within a *Network Diagram*.	Hardware architecture
1792358289051	*Pins* are correctly placed on the grid again during a populate action on a component within the *Wiring Harness Diagram*.	Hardware architecture
1792358489051	During a populate action existing connections will now be ignored by the Wiring Harness router; they will not be changed. Only newly created connections are layouted with the router.	Hardware architecture
1792381429005	The routing regards the activated style (e.g. oblique style) within the *Wiring Harness Diagram*.	Hardware architecture
1792397657721	During the current calculation missing additional currents are no longer regarded as „undefined“ but as „0“ instead. Hence the currents are propagated to the root *Pins* properly and a correct calculation of the currents is possible even if not all currents are defined.	Hardware architecture

10.4.8 Geometry

ID	Issue	Category
1792400159051	If the option to create *Connector Locations* is selected within the Geometry Diagram wizard, only the *Connector Locations* of *Inline Connectors* are displayed, not the *Inline Connector* as a whole.	Geometry

10.4.9 Product line management

ID	Issue	Category
1792345652647	Scope is considered by the **VM Architecture View**.	Product line management
1792346379005	The **Set Content View** of the **Variant Management** perspective has been corrected and shows all contained elements now even if sorted in different ways.	Product line management
1792428032647	The **VM Architecture View** has been adapted to be able to handle scopes. The view now will show only those concept space artifacts which are part of the scope.	Product line management

10.4.10 Functional safety

ID	Issue	Category
1792429559104	Safety diagram configurations for *Logical Function Architecture* work properly now.	Functional safety

10.4.11 Change and release management

ID	Issue	Category
1792357262689	Predecessor (action **Set as predecessor**) of planning artifacts can be set in **Project Plan** editor.	Change and release management

10.4.12 Test data management

ID	Issue	Category
1792356534779	**Test Increment Planning Analyzer**: Actions (buttons) are now re-enabled again.	Test data management
1792356554779	Sometimes duplicate *Test Execution Increments* have been visualized in **Test Increment Execution Analyzer**. Now, each *Test Execution Increment* is visualized only once.	Test data management
1792357204915	Verdict specific filters can now be operated again in **Test Project Execution Analyzer**.	Test data management
1792357769078	Move, create, copy of *Test Steps* work correctly now.	Test data management
1792399744828	Trend charts are now accessible from within the TDM menu.	Test data management

10.4.13 Rules, metrics and reports

ID	Issue	Category
1792073229005	Reports: Dashed lines in *Wiring Harness Diagrams* are now correctly represented in PDF reports.	Rules, metrics, reports
1792374549822	Metrics: The columnObject and the columnName are available within metric runtime for object configuration of table based editors.	Rules, metrics, reports

10.4.14 Collaboration

ID	Issue	Category
1792270390452	Editing within a diagram title block now supports automatic locking.	Collaboration
1792355912689	It is now possible to commit an SVN 1.8 workspace with PREEvision (internal 1.7 Subversion).	Collaboration
1792358499051	The call of the lock dialog inside a metric is forbidden now, because of the auto lock.	Collaboration
1792440390451	Commit with changed relation names and delete works correctly now.	Collaboration
1792441178454	After model import the commit works properly for all attribute values now.	Collaboration

10.4.15 Administration and installation

ID	Issue	Category
1792072072709	The issue regarding diagrams which show a red background when opened with an Electric Designer license has been fixed.	Administration and installation
1792381182687	LDAP authentication is now possible with the `TECH` account.	Administration and installation
1792388692680	The Oracle database driver is updated to support Oracle 12 and is delivered with the PREEvision server installer.	Administration and installation

10.5 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector **support** for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Delete action not available (1791317432727)

Sporadically, the **Delete** action is no longer available in the shortcut menu and cannot be executed via shortcut.

Workaround: Restart the client.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

Lock fails after Show/Hide Mappings (1792401992672)

Different components of different model layers are linked via mappings (e.g. *Logical Functions* in the *Logical Function Architecture*, *ECUs* in the *Hardware Architecture* and *Application Software Components* in the *System Software Architecture*). When trying to hide the mappings in the corresponding diagrams (*Software Instance Diagram*, *Component Diagram*) lock conflicts occur in the course of the **Show/Hide Mappings** operation. The necessary locks cannot be executed anymore.

Workaround: Prior to hiding the mappings in the *Software Instance Diagram*, first lock the corresponding *Composition Type Diagram*. No lock conflicts will occur anymore.

Error when adding a hardware device to a Component Circuit Diagram (1792442592676)

When adding a hardware device to a *Component Circuit Diagram*, an error occurs (object has been removed).

Workaround: First close the diagram and reopen it again. Adding the hardware device is possible then.

11 PREEvision 7.0 SP9

This chapter contains the following information:

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11.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.9
PREEvision license server	2.0.3
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.9.2
PREEvision application server (3-tier)	7.0.9

Documentation

Manual	Version number
PREEvision manual	7.0.6
PREEvision operating manual	7.0.8
PREEvision system requirements	7.0.9

11.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5
7.0.9	7.0.9	7.0.9.2

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 **Operating Manual**.

11.3 Fixed issues

Fixed issues in PREEvision 7.0 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
- Product goals
- AUTOSAR
- System software architecture
- Communication
- Hardware architecture
- Reports
- Migration

11.3.1 Common

ID	Issue	Category
1792208018454	Saving a generated report will not lead to a LibreOffice crash anymore and the report generation is now faster.	Common
1792262978454	During a specific model import the import wizard now informs the user about restrictive licenses for the import.	Common

11.3.2 Diagrams

ID	Issue	Category
1792268179822	The export as image to PDF works again.	Diagrams
1792271210452	Title blocks and legends are now placed correctly at the border of sections with coordinate systems.	Diagrams
1792352019051	Labels of title block are correctly represented in the export file.	Diagrams

11.3.3 Product goals

ID	Issue	Category
1792066388454	Requirement attribute values will now also be exported, even if the *Requirement Package* has no valid packages for attribute definitions.	Product goals
1792066448454	Enumeration attributes will now be updated correctly during *Requirement* import.	Product goals
1792066468454	With the Excel import of *Requirements*, attribute columns are now imported with types.	Product goals

11.3.4 AUTOSAR

ID	Issue	Category
1792278430455	AUTOSAR export: The FlexRay communication controller setting “Startup Sync” is correctly exported now.	AUTOSAR
1792279732791	AUTOSAR import: `DiagnosticEventManagerNeeds` are now imported correctly.	AUTOSAR
1792279980455	AUTOSAR import: Import of InitValue for Arrays fixed.	AUTOSAR
1792345490455	AUTOSAR import: Upper and lower limit type of a LINEAR computation method are now correctly imported.	AUTOSAR

11.3.5 System software architecture

ID	Issue	Category
1792235889822	The performance of table editors for expand and collapse operations has been improved.	System software architecture

11.3.6 Communication

ID	Issue	Category
1792043469823	During FIBEX import the timings of *PDUs* and *PDU Transmissions* in EEA 7.0.x are imported in the same way like in EEA 6.5.x (concerning `TRUE` / `FALSE`).	Communication
1792079499047	Import problems regarding enumeration attributes during DBC import have been fixed.	Communication
1792217640455	The FIBEX export no longer creates empty Controllers.	Communication
1792254228157	Different expand rules errors during DBC import have been solved.	Communication

ID	Issue	Category
1792269480455	The attribute `isHighLowBitOrder` is exported in FIBEX to the *Cluster* type.	Communication
1792269490455	During FIBEX export the bit order is considered to correctly calculate the bit start position for the *Signals* as well as for the *PDUs*.	Communication
1792269500455	The attributes `CHANNEL_ID`, `READY_SLEEP_COUNT`, `NODE_ID`, `INSTANCE_ID` and `NUMBER_OF_CYCLES` are not written to FIBEX, if the value is „-1“.	Communication
1792272858352	The **Information** view of the DBC import has been improved.	Communication
1792272868352	The *Frame* type is handled correctly during DBC import.	Communication
1792272878352	In the table of the communication attributes enumeration values can be changed.	Communication
1792274682791	A FIBEX export from an import package is possible now.	Communication
1792276542791	During FIBEX export the element `COMPLETE-FRAME` is added for `INPUT-PORTs` if there are no explicit `INCLUDED-PDUs`.	Communication
1792276622791	The value of the attribute `CodedTypeElement.termination` is now correctly exported to FIBEX.	Communication
1792276742791	The value of the attribute `CodedTypeElement.baseDataType` is now correctly exported to FIBEX.	Communication
1792276882791	If the `Min` and `Max` attribute value of the *Linear Conversion* is not set, no `COMPU-SCALE` is exported to FIBEX.	Communication
1792277072791	If in FIBEX the element `MICRO-PER-MACRO-NOM` does not exist, the value for attribute `FlexRayConnectorType.microPerMacroNom` is set to -1 during the FIBEX import.	Communication

11.3.7 Hardware architecture

ID	Issue	Category
1791679630452	The KBL export has been extended and it is now possible to define how the `Signal_name` and the `Wire_number` shall be exported. The options can be set in the export configuration file.	Hardware architecture
1791679770452	The KBL export has a new option which allows exporting the coordinates of the *Connector Locations* instead of the *Installation Locations*. This option can be selected in the KBL export wizard.	Hardware architecture
1792235409051	The encoding in KBL exports was not correct. The encoding of special characters corresponds to UTF-8 now.	Hardware architecture
1792278052647	The creation of *Condition Assignments* from/to a connected *Bus Connector* in a *Network Diagram* was corrected.	Hardware architecture

11.3.8 Reports

ID	Issue	Category
1792251612689	Diagrams with high resolution now fit page size in reports.	Reports
1792268322689	The Undo operation is not triggered anymore if report generation fails.	Reports
1792268412689	Diagrams in reports will now have the correct size.	Reports

11.3.9 Migration

ID	Issue	Category
1792217042709	The migration dialog has been enhanced to provide additional information to the user.	Migration

11.4 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector **support** for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Delete action not available (1791317432727)

Sporadically, the **Delete** action is no longer available in the shortcut menu and cannot be executed via shortcut.

Workaround: Restart the client.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

12 PREEvision 7.0 SP8

This chapter contains the following information:

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	Metrics and reports	113
	Collaboration	113
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12.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.8
PREEvision license server	2.0.3
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.8.5
PREEvision application server (3-tier)	7.0.8

Documentation

Manual	Version number
PREEvision manual	7.0.6
PREEvision operating manual	7.0.8
PREEvision system requirements	7.0.7

12.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.7.1
7.0.8	7.0.8	7.0.8.5

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 **Operating Manual**.

12.3 New features

Anonymization of 3-tier data base models

For 3-tier environments PREEvision provides the possibility to anonymize database projects. By means of this feature sensitive productive data can be anonymized and provided to Vector for a better analysis and reproducibility of model dependent defects.

12.4 Fixed issues

Fixed issues in PREEvision 7.0 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
- Tables
- AUTOSAR
- Communication
- Hardware architecture
- Metrics and reports
- Collaboration
- Migration, backup and restore

12.4.1 Common

ID	Issue	Category
1792044108454	The keyboard shortcut <SHIFT> +<BACKSPACE> for deleting characters is now enabled in the LibreOffice editor.	Common
1792217350452	For configuring custom search queries, the **Special Parameters** fields are now using the available horizontal space.	Common
1792218692687	The formerly missing context menu command **Open With** is available again.	Common
1792270377721	Signal transmissions and frame transmissions are now listed in the **Property View** of bus systems.	Common

12.4.2 Tables

ID	Issue	Category
1792217250452	Show table in diagram with multiple selection now works properly, also for not yet contained tables.	Tables
1792217260452	Hide tables in diagram now works with multiple selection.	Tables
1792217270452	Tables are now properly added to the sections of diagrams.	Tables

12.4.3 AUTOSAR

ID	Issue	Category
1792071019822	AUTOSAR import: During the update of a *Software Component Type* no reference model will be created any more if the corresponding option **Create reference model** is deselected.	AUTOSAR
1792207840451	AUTOSAR export: The export problems during AUTOSAR System Description and ECU Extract export have been solved.	AUTOSAR
1792235280455	AUTOSAR export: If the attribute `Minimum Delay` for a *PDU* has been set to -1 it will not be exported.	AUTOSAR
1792268189822	AUTOSAR import: The AUTOSAR import of several files contained in a folder (option **From folder**) works correctly again.	AUTOSAR
1792272290455	AUTOSAR export: The AUTOSAR export of a *Composition Type* exports all contained prototypes and dependencies.	AUTOSAR

12.4.4 Communication

ID	Issue	Category
1792068796486	Errors during DBC export concerning the metric „FrameTiming“ and Integer converting have been solved.	Communication
1792217200455	During FIBEX import and export the correct unit of the attribute `SampleClockPeriod` is considered, now.	Communication
1792217220455	During FIBEX import and export the attribute `Bit` of the FlexRayCluster/ClusterType will be imported and exported correctly now.	Communication
1792252488157	The commit error after a DBC import with merge has been solved.	Communication
1792261698157	Multiple errors and exceptions during DBC import with merge, caused by the metric “FrameTiming” have been solved.	Communication
1792262158157	During DBC import with merge the option **Merge frames by name** works correctly again.	Communication

12.4.5 Hardware architecture

ID	Issue	Category
1792074120452	The content of the generic attribute `AccessoryOccurrence` under *Wiring Connector* and *Splice* will now be exported to `AccessoryOccurrence` during a KBL export.	Hardware architecture
1792127179005	After KBL export the selected and propagated elements will now be assigned to the selected set.	Hardware architecture
1792234779051	Within a KBL export the reference `<Controlled_components>` is now a list with space character as separator as defined in the KBL specification.	Hardware architecture
1792235259051	Within a KBL export the reference `<Referenced_components>` is now a list with space character as separator as defined in the KBL specification (if the option white space is selected for the export).	Hardware architecture
1792235269051	Within a KBL export the reference `<Segments>` is now a list with space character as separator as defined in the KBL specification (if the option white space is selected for the export).	Hardware architecture
1792254889051	During a KBL import the *Pins* that belong to an *Inline Connector* will now get the correct *Pin Type* of the related *Terminal* if possible.	Hardware architecture
1792254919051	The *Pins* of an *Inline Connector* will now be correctly placed on the grid of the *Wiring Harness Diagram* if a populate is executed.	Hardware architecture

12.4.6 Metrics and reports

ID	Issue	Category
1792234787721	The result of report generation with direct target format `.doc` (MS Word) (pictures, tables) works correctly now. The report will be saved as `.doc` or `.docx`.	Reports
1792251802689	Generating reports works properly now.	Reports

12.4.7 Collaboration

ID	Issue	Category
1792038238454	Offline richtexts are no longer lost if PREEvision was not closed correctly.	Collaboration
1792220598454	Diagram is presented without red background, now, after commit action.	Collaboration

12.4.8 Migration, backup and restore

ID	Issue	Category
1792064098157	Starting a backup now cleans up any remainings from a previous backup run.	Backup

12.5 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector **support** for getting information about:
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> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
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Copy and paste in tables not possible on multi selection (1782614729051)

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Workaround: Copy and paste single table cells.

Delete action not available (1791317432727)

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Workaround: Restart the client.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

13 PREEvision 7.0 SP7

This chapter contains the following information:

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	Collaboration	122
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13.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.7
PREEvision license server	2.0.3
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.7.1
PREEvision application server (3-tier)	7.0.7

Documentation

Manual	Version number
PREEvision manual	7.0.6
PREEvision operating manual	7.0.7
PREEvision system requirements	7.0.7

13.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.7	7.0.7	7.0.3.0 7.0.7.1 (required for initial installation with Oracle 12.1.0.2)

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 **Operating Manual**.

13.3 Fixed issues

Fixed issues in PREEvision 7.0 SP7

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 and tables
- Product goals
- Logical function architecture
- AUTOSAR
- Communication
- Hardware architecture
- Geometry
- Rules, metrics and reports
- Collaboration
- Administration
- Functional safety

13.3.1 Common

ID	Issue	Category
1792212758454	PREEvision is closed correctly if Authority Model is available.	Common
1792217240452	Rotated Labels in diagrams are not shrinked anymore in PDF reports.	Common
1792217230452	Template labels are now drawn correctly in PDF diagram export.	Common
1792065868454	It is possible to start the connect port refactoring (identical interface) on a composition and the newly created ports are correctly set up.	Common
1792077629005	Switching between 2 perspectives or resetting a perspective keeps the correct navigation view.	Common
1792057028157	The reuse checker handles nested reuses correctly and checks for the nearest common parent.	Common
1792078979823	Via the shortcut SHIFT+F4, the action „Show/ Hide Connectors“ or „Show/Hide ports“ can be called.	Common
1792206558454	The "Delete” action in the shortcut menu of a property table is only available if the represented element has a composite relation. The "Dereference” action in the shortcut menu is only available if the represented element has an association.	Common

13.3.2 Diagrams and tables

ID	Issue	Category
1792040869823	The category Diagram in the Property Editor of diagram configurations now also shows the diagrams used by the diagram configuration.	Diagrams
1792207178200	The word wrap in text labels of graphical diagrams works again.	Diagrams
1792206768454	Copy and paste in table editors regards now hidden columns correctly.	Tables
1792042918454	Copy and paste works now stable. On the preference page for table editors a setting is available by which cells can be overwritten with copied empty values.	Tables
1792078398454	Double click on an action button in table editors doesn't perform the action twice.	Tables

13.3.3 Product goals

ID	Issue	Category
1791682638454	Tables and the Property Editor are refreshed after switching the placeholder preview to ensure that the rich text-placeholder preview is up to date.	Product goals
1792078398454	Double click on an action button in table editors doesn't perform the action twice.	Product goals
1792162229822	RIF-Import with merging works again, the attribute merging conflict and the exception during import have been fixed.	Product goals
1792206358454	Changes of a boolean value for many requirement works now stable and will not lead any longer into changing each requirement separately, but will be done in one operation.	Product goals
1792206548454	The selection is kept when changing filtering in the dialog “Add/Remove/Reorder Columns”.	Product goals
1792080692689	After a RIF import the OLE images are now correctly rendered.	Product goals
1792048710451	Stability of PREEvision and the LibreOffice editor has been improved.	Product goals
1792079388454	For stability reasons the PREEvision Styles And Formatting view for LibreOffice has been removed, only the native LibreOffice functionality can be now used. After opening the „Style and Formatting“ Dialog or LibreOffice, a notification dialog is shown.	Product goals

13.3.4 Logical function architecture

ID	Issue	Category
1792048358454	Assembly Connector will be created correctly for the different ports.	Logical function architecture
1792078842647	In the Model View it is now possible to create a logical function within a logical function package that is placed under a logical structure package.	Logical function architecture

13.3.5 AUTOSAR

ID	Issue	Category
1791669550455	PDU Transmissions for NmPDUs are now exported.	AUTOSAR
1792072990455	Signal start position for LIN PDUs is now correctly exported.	AUTOSAR
1792077240455	The sending and receiving NM-PDU of a NM-Node are exported correctly.	AUTOSAR
1792079050455	During AUTOSAR-Export no empty <FIBEX-ELEMENT-REF-CONDITIONAL> tags are created. So import with ANE and CANoe is successful.	AUTOSAR

13.3.6 Communication

ID	Issue	Category
1792074170455	Bit length of Signal overwrites bit length of Base Type	Communication
1792080000455	Computation Methods without CATEGORY will be imported into a Generic Conversion	Communication
1792208030455	Errors in Log-File on merging Computation Methods are no longer existent	Communication
1792066162791	Unit.shorName and Unit.displayName are exported.	Communication
1792220548454	Not supported relations are ignored so that the FIBEX import won't be aborted	Communication
1792217180455	Attribute Allow-Halt-Due-To-Clock of the FlexRayCommunicationController is imported from AUTOSAR.	Communication
1792077220455	AllowPassiveToActive, OffsetCorrectionOut and OffsetCorrectionOut of the FlexRayCommunicationController are now imported and exported in AUTOSAR.	Communication

13.3.7 Hardware architecture

ID	Issue	Category
1790789160452	OffSheetConnectors can be moved again.	Hardware architecture
1792077350452	Wire and cable colors are now displayed in capital letters in diagram labels (as in all other places).	Wiring harness
1791682550452	It is now possible to configure the label of wire pins (also for wire pins on inline connectors) in the label configuration.	Wiring harness

13.3.8 Geometry

ID	Issue	Category
1791676637721	A new Property Editor table was added which represents the topology segments and the topology nodes on the inline connector and the installation connection.	Geometry

13.3.9 Rules, metrics and reports

ID	Issue	Category
1791679928454	Model Queries are available now directly after import and synchronization via „Synchronize Model Queries“	Model queries
1779142598454	The report executor block was extended by two ports (manually set filename and overwrite existing files flag).	Metrics and reports
1792042168454	Dynamic Columns of Table Editors are now expanded to same width in generated Reports.	Reports
1792079078454	Sporadic problem with generated reports to PDF has been solved which lead to slow reaction of the client while performing a selection of referenced artifacts in the model.	Reports

13.3.10 Collaboration

ID	Issue	Category
1792048359822	Commit is working, now: There is no lock needed if the composite child is created in this usecase; this relation is marked as illegal so the child artifact is removed on the next db-action (lock, commit).	Collaboration
1791679938454	String literals are supported by lock concept.	Collaboration

ID	Issue	Category
1792216527721	Handling of created relations when the uuid of one of the relations ends gets changed works correctly.	Collaboration
1792078849823	Commit is possible in this scenario. Undo/redo when working with diagrams is supported in a correct way. Settings of wrong diagram version (viewport and zoom) are saved during „reuse and checkout“. Also a server check is performed on client data.	Collaboration

13.3.11 Administration

ID	Issue	Category
1791655228454	The standalone license server and the middle tier license server will do retries to avoid a license problem due to very short network problems.	Administration
1792042908454	Licence warnings don't appear when the computer is connected to the network and the licence server is available.	Administration

13.3.12 Functional safety

ID	Issue	Category
1792065282727	It is possible to generate a management summary report for the functional safety concept.	Functional safety
1792070022689	Cut set analysis metric now detects and reports modelling errors in fault trees in the information view.	Functional safety
1792127252727	The property editor of a malfunction now shows the cut sets in which the malfunction is included.	Functional safety
1791670062727	It is now possible to use Functional and Technical Safety Requirements as starting point for HW Architectural Metrics Calculations.	Functional safety

13.4 Known issues

Caution: Commit errors for newly imported artifacts
Editing of newly imported artifacts may lead to commit errors.
Workaround: Execute an immediate commit on newly imported artifacts.

Caution: Please contact the Vector **support** for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Delete action not available (1791317432727)

Sporadically, the **Delete** action is no longer available in the shortcut menu and cannot be executed via shortcut.

Workaround: Restart the client.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

14 PREEvision 7.0 SP6

This chapter contains the following information:

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14.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.6
PREEvision license server	2.0.0
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.5.0
PREEvision application server (3-tier)	7.0.6

Documentation

Manual	Version number
PREEvision manual	7.0.6
PREEvision operating manual	7.0.6
PREEvision system requirements	7.0.5

14.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)
7.0.6	7.0.6	7.0.3.0 7.0.5.0 (required for initial installation with Oracle 12.1.0.2)

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 **Operating Manual**.

14.3 Fixed issues

Fixed issues in PREEvision 7.0 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 and tables
- Product goals
- Logical function architecture
- AUTOSAR
- System software architecture
- Communication
- Hardware architecture
- Geometry
- Metrics and reports
- Collaboration
- Administration and migration

14.3.1 Common

ID	Issue	Category
1792033637721	A partial import is possible even if the head model contains structural inconsistencies.	Common
1792046999823	Docked or rotated labels are now placed correctly on report generation or when printed with LibreOffice from diagrams.	Common
1792047439823	Multiline labels are now correctly displayed in printed diagrams.	Common
1792070937721	Diagrams can be opened if an artifact has a character „+“ in its name.	Common

14.3.2 Diagrams and tables

ID	Issue	Category
1792047459823	Static texts are correctly rendered in diagrams.	Diagrams
1792062289051	Tables in diagrams are now correctly rendered during export.	Diagrams
1792071472709	Borders of tables in diagrams are now correctly displayed on export.	Diagrams
1792041578454	Paste in tables with hidden columns is now handled correctly.	Tables
1792042938454	PREEvision client does not freeze any longer after model export.	Tables

14.3.3 Product goals

ID	Issue	Category
1792060614915	The **Link** column in the **Requirement Text Editor** table is now updated when a link is created.	Product goals
1792065489822	During RIF import file links can now be imported into the description, including the file attachment and context.	Product goals
1792071858454	*Requirements* and *Requirement Packages* are now correctly sorted by their ID in the **Model View**.	Product goals
1792071878454	After copy and paste operations of *Requirements* into a new *Package*, the *Requirements* are inserted in the correct order, now.	Product goals
1792071928454	Checked-in *Requirements* will receive a new ID if a *Requirement* has been deleted before.	Product goals

14.3.4 Logical function architecture

ID	Issue	Category
1792072087721	The context of *Logical Architecture System Diagrams* has been removed.	Logical function architecture

14.3.5 AUTOSAR

ID	Issue	Category
1792048362791	AUTOSAR export: *Tp Nodes* referenced by *Tp Connections* will be exported into system descriptions or ECU extracts as well.	AUTOSAR
1792057102791	AUTOSAR export: Correct unit conversion for *LIN Connector Type* Jitter on AUTOSAR import and export.	AUTOSAR
1792057212791	AUTOSAR import: The AUTOSAR import/ export metric has been extended to support the AUTOSAR import with merging functionality.	AUTOSAR
1792065149822	AUTOSAR import: AUTOSAR import does not abort any more because of not supported category of `ApplicationValueSpecification`. Not supported categories are ignored.	AUTOSAR
1792070989822	AUTOSAR import: Import with merge handles unexpected changes in the *System Software Architecture* layer when the option „Prevent Move“ is active.	AUTOSAR

ID	Issue	Category
1792071770455	AUTOSAR export: During AUTOSAR ECU Extract export unnecessary *Signal Groups* will not be exported.	AUTOSAR
1792072460455	AUTOSAR export: References from *CAN Tp Connections* to *Signal IPDUs* (as SDU) are exported as well.	AUTOSAR
1792073000455	AUTOSAR import/export: Fixed wrong rounding of *FlexRay Cluster* attribute `MACROTICK`.	AUTOSAR
1792073010455	AUTOSAR export: Unit conversion for `SampleClockPeriod` (in PREEvision `ms` and in AUTOSAR `s`) is realized on import and export.	AUTOSAR
1792073020455	AUTOSAR import: Attributes `MICRO-INITIAL-OFFSET-A` and `MACRO-INITIAL-OFFSET-A` of a FlexRay *Connector Type* are imported, now.	AUTOSAR

14.3.6 System software architecture

ID	Issue	Category
1792066359822	Performance problem on setting object configuration in composition diagram has been fixed.	System software architecture
1792069448214	When moving ports in system diagrams, the *Interface Assignment* will not be moved to the newly created port, but will be copied.	System software architecture

14.3.7 Communication

ID	Issue	Category
1791519472727	The **Cycle** columns in slot-oriented scheduling tables now have a background color according to the cycle number.	Communication
1791679622791	A *Busload Table* does not display duplicate *Multiplexed IPDUs* any more.	Communication

14.3.8 Hardware architecture

ID	Issue	Category
1792029297721	Populate on a *Pin* connects any connected *Inline Connector* in a *Wiring Harness Diagram*.	Hardware architecture

14.3.9 Geometry

ID	Issue	Category
1792069090452	While executing the populate of *Connector Locations* on other artifacts (e.g. *Branch-off*) within the *Geometry Diagram* the *Connector Locations* of *Inline Connectors* will now also be shown correctly.	Geometry

14.3.10 Metrics and reports

ID	Issue	Category
1792040322693	The calculation of the parameter block now represents the correct value, if the *Application Data Type* is an *Enumeration*.	Metrics and reports
1792042148454	Client stability has been improved when dealing with table placeholders with dynamic inputs in reports.	Metrics and reports
1792046969823	Diagrams in reports are fully layouted now, including background images before printing.	Metrics and reports
1792066318454	Reports saved on network share drive can now be opened by the LibreOffice editor.	Metrics and reports
1792066969822	Reports using the Diagram Render Metric Block can be generated again.	Metrics and reports
1792070139822	*Query Rules* in reports are now also correctly executed when an anchor is set on an object that is not „source“.	Metrics and reports

14.3.11 Collaboration

ID	Issue	Category
1791676248454	Rendering of rich texts in offline mode works correctly now.	Collaboration
1792065069822	No conflict error occurs any more, if a diagram configuration which has a title block with content assigned is changed to a new configuration or to null. Improved handling of illegal model changes: If a relation was illegally created, the child is illegal and now also recursive children of that child are marked as illegal if they are new.	Collaboration
1792065139822	A refresh of diagrams works again, even if the zoom was set to very small or very high values.	Collaboration

ID	Issue	Category
1792066910452	The deadlock in this use case (caused by the `PinWithMasterFlag`) is solved.	Collaboration
1792071938454	Switching to a historic model version is possible now, even when the model has been initialized in the same client session.	Collaboration

14.3.12 Administration and migration

ID	Issue	Category
1792062499051	Diagrams opened with a Viewer license do not show a red background any more.	Administration
1792072480451	Changing an LDAP authentication configuration in the server is now properly reflected.	Administration
1792060569823	During migration of FlexRay *Bus Systems* from PREEvision 6.5.x to 7.0.x generic *Clusters* are changed into *FlexRay Clusters*. Attributes contained in the FlexRay *Bus Type* are then moved to the *FlexRay Cluster* during migration to prevent the loss of attribute values.	Migration
1792061448157	If backup directory only contains files and no sub directories, „macro delta restore operation“ is used.	Migration

14.4 Known issues

Changing diagram configurations resets title block position (1790914188454)

In the following scenario, the position of a diagram *Title Block* is incorrectly reset:

1. For a locked diagram, activate a *Diagram Configuration*.
2. Move the *Title Block* and *Legend* within the diagram.
3. Switch to another *Diagram Configuration*.
4. Switch back to the initially selected *Diagram Configuration*.

   The position of the *Title Block* is reset to the default position.

Workaround: Lock the *Title Block Diagram* before moving the *Title Block* in the diagram.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Delete action not available (1791317432727)

Sporadically, the **Delete** action is no longer available in the shortcut menu and cannot be executed via shortcut.

Workaround: Restart the client.

Problems on moving sheet connectors (1790789160452)

Moving a *Sheet Connector* in the *Wiring Diagram* is only possible when clicking on the exact center of its graphical representation in the diagram. Associated connector link labels are not moved when moving the *Sheet Connector*.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

15 PREEvision 7.0 SP5

This chapter contains the following information:

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15.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.5
PREEvision license server	2.0.0
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.5.0
PREEvision application server (3-tier)	7.0.5

Documentation

Manual	Version number
PREEvision manual	7.0.5
PREEvision operating manual	7.0.5
PREEvision system requirements	7.0.5

15.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

Migration to PREEvision 7.0.5

Caution: When using PREEvision 7.0.4 or older releases of PREEvision 7.0, Vector identified the risk of unintended delete actions and successive loss of modeling data under certain prerequisites.
This risk only exists when working with the PREEvision 2-tier Collaboration Platform and PREEvision clients with different licenses (e.g. PREEvision Architect and PREEvision Electric Designer) are accessing the same project. The risk also exists when a roles and rights concept is defined in the PREEvision authority model and used.
The issue has been corrected in PREEvision 7.0 5 (see issue 1792049819824). Vector strongly recommends to all customers to migrate to PREEvision 7.0.5 when the above mentioned circumstances are given and to contact the Vector support at support@vector.com, if necessary.

Oracle 12.1.0.2 supported

With PREEvision 7.0.5 the Oracle version 12.1.0.2 is supported.

New IAR file 7.0.5.0

For an initial installation of PREEvision 7.0.5 with Oracle 12.1.0.2 the new IAR file 7.0.5.0 is required.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24
7.0.3	7.0.3	7.0.3.0
7.0.5	7.0.5	7.0.3.0 7.0.5.0 (required for initial installation)

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 **Operating Manual**.

15.3 New features

Support of Transport Protocol via FIBEX import and export	PREEvision provides the possibility to import and export transport protocol configurations in FIBEX format for FlexRay, in addition to the AUTOSAR format.
Support of connector mappings by the wiring harness router	The wiring harness router now supports the mappings of connectors into the *Geometry* layer.
Anonymization of 2-tier data base models	In the **Administration** perspective a 2-tier data base model can be anonymized via the **Anonymize Model** shortcut menu command.
Support of Oracle 12.1.0.2	With PREEvision 7.0.5 the Oracle version 12.1.0.2 is supported.

15.4 Fixed issues

Fixed issues in PREEvision 7.0 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.

Further information

- Common
- Tables
- Logical function architecture
- AUTOSAR
- Communication
- Hardware architecture
- Geometry
- Product line management
- Functional safety
- Rules, metrics and reports
- Collaboration
- Administration

15.4.1 Common

ID	Issue	Category
34785	For *Hardware Components* the attribute **Stakeholder** is now available on property page **Contacts** of the **Property view**.	Common
1789452559824	On property page **Contacts** the attribute **Stakeholders** was added for all relevant artifact classes.	Common
1792034067721	*Installation Locations* are listed in the **Property view** of *Installation Space* again.	Common
1792042948454	It is not possible to open more than one LibreOffice window in the table editor via double click. If the selection of a cell editor will be changed to another cell editor the first cell editor will be closed correctly. After this, a second cell editor can be opened.	Common
1792047292791	The missing attributes on property page **Parameters** of a *FlexRay Cluster* have been added now.	Common
1792048630455	On property page **PDU Attributes** of an *Nm PDU* the missing attributes **Vote information** and **Date information** have been added now.	Common
1792049968454	Model export is possible again.	Common

ID	Issue	Category
1792055558454	Entering space characters into commit comments now works again.	Common
1792059019822	When using the refactoring **Convert Block** the *Assembly Connectors* are kept and the *Logical Function Block* remains connected.	Common

15.4.2 Tables

ID	Issue	Category
1791679418454	Tables will always be opened correctly in the editor area now, even if the editor area was hidden.	Tables
1792027530452	The **Show Table** menu is now available also for sections. The section graph node will be used to search for valid tables.	Tables

15.4.3 Logical function architecture

ID	Issue	Category
1792033312716	The **Show global paths (over section borders)** function for *Ports* now works correctly in *Logical Architecture System Diagrams*.	Logical function architecture
1792057199822	The *Ports* in *Logical Architecture System Diagrams* will be displayed in a color according to the connected connectors.	Logical function architecture

15.4.4 AUTOSAR

ID	Issue	Category
1792029190455	AUTOSAR export: A new ECU Composition is created as System Composition in the ECU Extract.	AUTOSAR
1792043280455	AUTOSAR export: The *Communication Specification* will be propagated to the delegation ports of the created root composition in the exported ECU Extract.	AUTOSAR
1792043300455	AUTOSAR export: During AUTOSAR export unnecessary AR-Packages are no longer created.	AUTOSAR
1792046440455	AUTOSAR export: A *Signal* description is now exported into the corresponding *I-Signal* description.	AUTOSAR
1792047030455	AUTOSAR export: The attribute `FlexRayCluster.numberOfCycles` is exported correctly.	AUTOSAR

ID	Issue	Category
1792047040455	AUTOSAR import/export: The unit of attribute `Cycle` of a *FlexRay Cluster* is considered during AUTOSAR import/export (conversion from `s` to `ms` and vice versa).	AUTOSAR
1792047050455	AUTOSAR import/export: The unit of attribute `Bit` of a *FlexRay Cluster* is considered during AUTOSAR import/export (conversion from `s` to `ms` and vice versa).	AUTOSAR
1792047070455	AUTOSAR export: The FlexRay `bus type.channels` will be properly exported (CHANNEL-A or CHANNEL-B).	AUTOSAR
1792048240455	AUTOSAR import/export: The attribute `MICROTICK-DURATION` will be correctly imported and exported during AUTOSAR import/export.	AUTOSAR
1792053350455	AUTOSAR export: The length of *I-Signals* is exported correctly.	AUTOSAR

15.4.5 Communication

ID	Issue	Category
1791519472727	The **Cycle** columns in slot-oriented scheduling tables now have a background color according to the cycle number.	Communication
1791678452647	For a *Data Type Package* the refactoring **Merge Data Types and Units by name** has been removed and the following refactorings are offered in addition: > **Merge Application Data Types by name** > **Merge Implementation Data Types by name, Base Type and implementation type** > **Merge Data Type Units by name** > **Merge Computation Method by name** > **Merge Constant Specification by name, value type**	Communication
1791679622727	Multiplexed *IPDUs* are now displayed in the scheduling tables.	Communication
1792029962689	*Signal Gateway Routing Entries* are now properly merged during AUTOSAR import.	Communication
1792038232791	The error concerning an aborted AUTOSAR import due to a *Port* without *Port Interface* has been fixed.	Communication
1792040310455	All *I-Signal* descriptions will now be imported into a *Signal* description during AUTOSAR import.	Communication

ID	Issue	Category
1792042298454	During a DBC import with merge a new *Type Definition Set* will be created now if the checkbox is activated.	Communication
1792042830455	The artifacts *Dynamic Part Alternative* and *Segment Position* will now be properly merged during DBC import with merge.	Communication
1792045952791	Project information is now correctly handled during FIBEX import with merge.	Communication
1792047000455	AUTOSAR attributes `MICRO-PER-CYCLE` and `MICROTICK-DURATION` are imported correctly now.	Communication
1792048250455	For the attribute `FlexRayCluster.symbolWindowActionPointOffset` a „not set“ value -1 has been introduced and is considered during AUTOSAR import/export.	Communication
1792049920455	Two FlexRay types are created for a dual channel FlexRay bus during AUTOSAR import, one for each bus channel.	Communication

15.4.6 Hardware architecture

ID	Issue	Category
1791675917721	During KBL import the mapping between *Wiring Connector* and *Connector Location* will be created properly.	Hardware architecture
1791679320452	Both *Wiring Harness Inline Connector* sides (*Wiring Connector*) get their own connector occurrence during KBL export.	Hardware architecture
1791679640452	All known cases of connected segment nodes will now be exported during KBL export.	Hardware architecture
1791679650452	Code number of *Connector Type* will now be exported to KBL.	Hardware architecture
1791679660452	During KBL export the exported *Connector Housing* will have just one slot now.	Hardware architecture
1791679670452	Code number of *Wire Type* will now be exported to KBL.	Hardware architecture
1791679680452	Code number of *Cable Type* will now be exported to KBL.	Hardware architecture
1791679690452	Colors of *Wire Types* will be exported during KBL export without consideration of colors of wire instances.	Hardware architecture
1792032640452	*Wire Pins* get *Seal Type* during KBL import.	Hardware architecture

ID	Issue	Category
1792032650452	Accessory information “Cover” will now be imported to *Wiring Connector* and *Splice* via child EEAttribute with part number as value.	Hardware architecture
1792032660452	Accessory information “Connector Seal” will now be imported to *Wiring Connector* via child EEAttribute with part number as value.	Hardware architecture
1792033829823	Newly created *Internal Schematic Connections* are now placed correctly when modeling hierarchical structures.	Hardware architecture
1792043869000	The length of *Topology Segments* will now be imported correctly, even if no length unit is defined.	Hardware architecture
1792057352674	The KBL export configuration file was updated at *Wiring Harness Inline Connector*. Own configurations in customer models have to be replaced/adapted.	Hardware architecture

15.4.7 Geometry

ID	Issue	Category
1791675907721	An option has been added to the wizard to allow displaying *Connector Locations* instead of *Installation Locations* and *Inline Connectors*.	Geometry
1791676770452	External labels of filtered artifacts in diagrams are now filtered properly and will not be displayed any more.	Geometry
1792052517721	A **Populate** function does not change metric based object configuration any more.	Geometry

15.4.8 Product line management

ID	Issue	Category
1791672068454	If the variant propagation cannot be executed due to missing write right of the current user on some artifacts, the propagation will be cancelled and details will be displayed in the **Information view** now.	Product line management

15.4.9 Functional safety

ID	Issue	Category
1792043032727	All shown artifacts in *Malfunction Diagrams* can be filtered now.	Functional safety

15.4.10 Rules, metrics and reports

ID	Issue	Category
1792046139823	The diagram render block now allows scaling of graphics via a scaling factor.	Rules and metrics
1792038658454	Client stability has been improved when dealing with placeholders in reports.	Reports
1792047369822	Framework has been improved for specific inputs for model queries to enhance the report engine performance.	Reports
1792056339016	Dynamic table column checkbox of placeholder manager dialog has been removed.	Reports

15.4.11 Collaboration

ID	Issue	Category
1792040399822	Commit actions for *Activity Chains*, *Building Blocks*, … now work properly.	Collaboration
1792040599822	After attributes with default values have been manually deleted from the data base the commit works properly.	Collaboration
1792040859822	When updating a composition type to a new revision, only the context reuses of the prototypes are used.	Collaboration
1792056379822	The Subversion mechanism, which detects changed artifact names, can handle XMI ID changes after the rename now.	Collaboration
1792056609822	A commit of diagrams is possible now.	Collaboration
1792056929822	When using the refactoring **Convert Block** the corresponding converted block and the current connections will be kept now after commit.	Collaboration
1792059859822	Commit after setting a diagram configuration is now working without exception.	Collaboration
1792062859822	After opening the model version table via clicking on the arrow icon next to the **Update or change version** command button in the **Model View** action bar, the **Open With** shortcut menu command for an artifact selected in the **Model View** is available again.	Collaboration

15.4.12 Administration

ID	Issue	Category
1792049978454	After exchange of the administration the performance has improved.	Administration

15.5 Known issues

Changing diagram configurations resets title block position (1790914188454)

In the following scenario, the position of a diagram *Title Block* is incorrectly reset:

1. For a locked diagram, activate a *Diagram Configuration*.
2. Move the *Title Block* and *Legend* within the diagram.
3. Switch to another *Diagram Configuration*.
4. Switch back to the initially selected *Diagram Configuration*.

   The position of the *Title Block* is reset to the default position.

Workaround: Lock the *Title Block Diagram* before moving the *Title Block* in the diagram.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Delete action not available (1791317432727)

Sporadically, the **Delete** action is no longer available in the shortcut menu and cannot be executed via shortcut.

Workaround: Restart the client.

Problems on moving sheet connectors (1790789160452)

Moving a *Sheet Connector* in the *Wiring Diagram* is only possible when clicking on the exact center of its graphical representation in the diagram. Associated connector link labels are not moved when moving the *Sheet Connector*.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

16 PREEvision 7.0 SP3

This chapter contains the following information:

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16.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.3
PREEvision license server	2.0.0
PREEvision database server (2-tier)	2.0.14
PREEvision database server (3-tier)	7.0.3.0
PREEvision application server (3-tier)	7.0.3

Documentation

Manual	Version number
PREEvision manual	7.0.3
PREEvision operating manual	7.0.3
PREEvision system requirements	7.0.3

16.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

Subversion 1.8 supported

For the Subversion server, Subversion 1.8 is supported now (recommended version CollabNet Subversion 1.8.10).

New 2-tier database server version 2.0.14

With PREEvision 7.0 SP3 a new version of the 2-tier database server script is available (version 2.0.14). Existing 2-tier database servers must be updated to version 2.0.14.

The following table shows the compatibility between the different PREEvision client and database server versions:

Client version	Database server version 5.5 (2.0.10)	Database server version 6.0/6.5/7.0 (2.0.13)	Database server version 6.5/7.0 (2.0.14)
5.0.x	read-only	read-only	read-only
5.5.x	compatible	compatible	compatible
6.0.x	not compatible	compatible	compatible
6.5.0 - 6.5.8	not compatible	compatible	compatible
from 6.5.9	not compatible	not compatible	compatible
7.0.0 - 7.0.2	not compatible	compatible	compatible
from 7.0.3	not compatible	not compatible	compatible

Compatibility check for 3-tier environments

On login of the client to the application server, it is checked whether the used client version is compatible to the version of the server application. Login is only possible if client and server version are compatible. Otherwise, an error is reported and written to the client and server logfile.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24
7.0.3	7.0.3	7.0.3.0

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 **Operating Manual**.

16.3 Fixed issues

Fixed issues in PREEvision 7.0 SP3

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 and tables
- Product goals
- Logical function architecture
- AUTOSAR
- System software architecture
- Hardware architecture
- Communication
- Product line management
- Functional safety
- Rules and reports
- Collaboration
- Administration and migration

16.3.1 Common

ID	Issue	Category
1790799612716	When using Microsoft IME, LibreOffice no longer freezes after closing a document.	Common
1791307938454	Styles are immediately loaded and displayed in the drop-down list after opening the LibreOffice editor via <CTRL>+<O> in a table.	Common
1791671828454	ODT files are no longer opened in Word if there is an error while opening them in the internal editor.	Common
1791679652791	For *Literals*, the property page **Usage** has been corrected and enhanced.	Common

16.3.2 Diagrams and tables

ID	Issue	Category
1791669152716	Text labels in diagrams now display the complete text.	Diagrams
1791150252644	Attribute values are only shown for the row which contains the related artifact.	Tables
1791651138454	The performance of calculating the initial row height of formatted text cells has been optimized to allow faster navigation within tables.	Tables

ID	Issue	Category
1791655182689	The shortcut menu action **Table | Show Whole Text** has been improved and calculates the correct cell and row height now.	Tables
1791671858454	Formatted texts are now loaded in a separate thread to improve performance of scrolling tables.	Tables
1791676168454	Copy and paste within tables works as expected if automatic locking is required for the artifacts to be changed.	Tables

16.3.3 Product goals

ID	Issue	Category
1791673170452	Within the drop-down list for setting the **Default Requirements Location** on a package, the complete path of the location is displayed now.	Product goals

16.3.4 Logical function architecture

ID	Issue	Category
1790785728454	Assembly nets are no longer deleted from the diagram, if there are still at least two blocks connected to the assembly net and these blocks are presented in the diagram.	Logical function architecture
1790785738454	Ports are now correctly placed in the diagram when creating an assembly net including a port.	Logical function architecture
1791526872647	In the *Logical Architecture System Diagram*, **Reset Label** works for assembly net connections.	Logical function architecture

16.3.5 AUTOSAR

ID	Issue	Category
1790754440455	After the AUTOSAR 3.2.1 export, sending and receiving relations are visible in the CANoe AUTOSAR-Explorer.	AUTOSAR
1791066448454	AUTOSAR 4.0 export: Empty data type constraints are no longer exported.	AUTOSAR
1791525660455	AUTOSAR export: `COMMUNICATION-CONTROLLER` is mapped to the *Bus Connector Type*.	AUTOSAR
1791656480455	AUTOSAR import: Limits of *Computation Methods* are considered.	AUTOSAR

ID	Issue	Category
1791660509824	The AUTOSAR import of a complete folder works again.	AUTOSAR
1791661142791	*Application Records* are considered in the export of an AUTOSAR ECU Extract.	AUTOSAR
1791664542791	AUTOSAR 4 export: The reference between *Receiver/Sender Communication Specification* and *Computation Method* is created (and visible in the CANoe AUTOSAR-Explorer).	AUTOSAR
1791665102644	The AUTOSAR 3.2.2 import works again.	AUTOSAR
1791671160455	AUTOSAR export: The `CAN-COMMUNICATION-CONTROLLER` name is taken from the *Bus Connector Type*.	AUTOSAR
1791675468352	AUTOSAR 3.2.1 export: ECU-IDs in hexadecimal format are supported now.	AUTOSAR
1791676338352	AUTOSAR 3.2.1 export: ECUs are correctly merged.	AUTOSAR
1791676560455	AUTOSAR export: Absolute frame timings of FlexRay slots are exported in the ECU Extract.	AUTOSAR
1791677820455	AUTOSAR export: The attribute **Symbol** of a software component is only exported if it is set.	AUTOSAR
1791679910455	AUTOSAR export: If the option **Prefer ADT** is enabled, links between *Implementation Data Type* and *Data Element* are exported.	AUTOSAR
1792029012791	AUTOSAR export: The `CATEGORY` of the `SW-BASE-TYPE` is correctly exported.	AUTOSAR
1792029180455	AUTOSAR import: `REQUIRED-COM-SPECS` are imported with `INIT-VALUE`.	AUTOSAR

16.3.6 System software architecture

ID	Issue	Category
1791323829823	The **Split SW Component** refactoring copies existing mappings and sets required assignments now.	System software architecture
1791665217721	Updating an instance or a prototype with a new version of the type can now be done when the type is in a different *Product Line*. If there are reuses from this type a dialog will be shown to select the desired type.	System software architecture

16.3.7 Hardware architecture

ID	Issue	Category
1791300122663	In the **Property View**, tables for displaying diagnostic attributes are correctly displayed again.	Hardware architecture
1791315252693	The refactoring **Create pigtails with components** on a *Wiring Harness Inline Connector* has been adapted to associate the *Schematic Connection* with the newly created *Schematic Pin*. The name setting for the newly created pig tail *Schematic Pin* was adapted to use the name of the *Wiring Harness Inline Connector*'s *Schematic Pin*.	Hardware architecture

16.3.8 Communication

ID	Issue	Category
1791086049822	The handling of multiple mappings (software component mapped to different *ECUs*) in the signal router has been corrected.	Communication
1791086239824	DBC import with software synthesis: For each signal a *Sender Receiver Interface* is created (even if the names of the signals are the same).	Communication
1791295412791	FIBEX import: Signal transmissions are now created for signals within multiplexed PDUs.	Communication
1791324152791	The FIBEX export of `COMPLETE-PDU`, `COMPLETE-FRAME`, `INCLUDED-PDUS` and `INCLUDED-SIGNALS` has been corrected.	Communication
1791525762791	FIBEX import and export: The `FIBEX PROJECT` element is imported and exported.	Communication
1791525792791	The FIBEX import of `DIAGNOSTIC-ADDRESSES` has been removed.	Communication
1791660022791	FIBEX export: `CODING-REF`s of *Signals* are correctly exported.	Communication
1791660032791	FIBEX export: The ID of multiplexed PDUs is correctly exported.	Communication
1791660402791	FIBEX export: The `COMPU-SCALES` of a `TEXTTABLE` are correctly exported.	Communication
1791660422791	FIBEX export: `FINAL-REPETITION`s with a value of `-1` is no longer exported (no XML element is generated).	Communication
1791660502791	FIBEX import and export: `UPDATE-INDICATION-BIT-POSITION` is imported with the value `-1`, if not set. The element is not exported if the value is `-1`.	Communication

ID	Issue	Category
1791660512791	FIBEX export: The `CYCLE-REPETITION` is exported correctly. The `MANUFACTURER-EXTENSION` is not generated (not supported).	Communication
1791660522791	FIBEX export: If the *Frame Type* is not set in PREEvision, the `FRAME-TYPE` is not generated in the FIBEX export.	Communication
1791661152791	FIBEX import: For each `SEND-CONDITION` only one *Signal Trigger Condition* is created for one *Channel* for one *Signal*.	Communication
1791677562672	FIBEX export: The namespace is correctly written to the exported FIBEX file. Thus, a subsequent import of the exported file is possible.	Communication
1791679642791	FIBEX import and export: For *FlexRay Clusters*, the attribute **Cycle** is correctly converted.	Communication
1791679662791	FIBEX import: `SIGNAL`s for which the `SIGNAL PRIORITY` is not available in the FIBEX file, are imported with **Priority** = -1. FIBEX export: For *Signals* with **Priority** = -1, the `SIGNAL PRIORITY` will not be written to the FIBEX file.	Communication
1791675550455	During the DBC export it is assured that frames do not have the same identifier since this could cause problems while opening the DBC file with CANDB++: > A DBC export consistency check informs the user if an identifier is not unique. > During the export a warning is reported in the **Information View**. > Frames with duplicate identifiers are not written to the DBC file.	Communication

16.3.9 Product line management

ID	Issue	Category
1791525552647	Label settings can now be configured for *Conditions* in the **Label Configuration** of the *Variant Diagram*.	Product line management
1791526882647	If the same equipment template is selected, the **VM Template View** will not be refreshed.	Product line management

ID	Issue	Category
1791664542689	Fixed corrupt **Model View** caused by a *Reuse Unit* which has a predecessor that is not in the currently active scope.	Product line management
1791675888454	Errors in the *Variant Diagram* have been corrected. Red dots on the axis are no longer displayed and drag and drop into the diagram is possible.	Product line management

16.3.10 Functional safety

ID	Issue	Category
1791670309051	In the *FMEA Table*, IDs are now correctly sorted in numerical order.	Functional safety
1791673112689	When copying *FMEA* artifacts, relevant links are taken over (links to the *FMEA Ranking Schema,* the *Severity Ranking*, the *Severity Class*, the *Occurrence Ranking* and the *Detection Ranking*).	Functional safety

16.3.11 Rules and reports

ID	Issue	Category
1791203158157	When a LHS object is renamed, the sibling is now also renamed correctly.	Rules
1791519547721	To ensure that *Report Modules* originally created with OpenOffice work properly, they have to be saved with LibreOffice once.	Reports
1791524112647	Table of contents are generated correctly in reports.	Reports

16.3.12 Collaboration

ID	Issue	Category
1791216649822	Creating a branch with a name equal to the current branch name is prevented in the check-out dialog now.	Collaboration
1791469569822	Updating a *Reuse Unit* to the latest model version is possible if core or boundary artifacts are part of checked-out, reused containers.	Collaboration
1791652662987	It is now possible to commit the model after moving a *Logical Building Block Type* from the library to a *Logical Build Block*.	Collaboration
1791661174825	Creation of a working copy is now prevented if the name of an artifact in the working copy tree ends with ".".	Collaboration

ID	Issue	Category
1791682717721	Artifacts are correctly found by the search again. Namespaces used to identify the artifacts in the PREEvision models have been shortened.	Collaboration
1792029152643	Check-out of multiple reuses in one operation is no longer possible.	Collaboration

16.3.13 Administration and migration

ID	Issue	Category
1791063612687	It is no longer possible to delete the PREEvision schema user (e.g. `PREEVISION`) from the user administration.	Administration
1791679312687	Logging for LDAP and authentication in general has been improved.	Administration
1791663702791	Signals with `nwmWakeUpAllowed` set to "true" are correctly merged during migration.	Migration
1792030190451	Resuming backup and restore is possible again. Incorrect UUID changes are no longer transferred to the server.	Migration

16.4 Known issues

Changing diagram configurations resets title block position (1790914188454)

In the following scenario, the position of a diagram *Title Block* is incorrectly reset:

1. For a locked diagram, activate a *Diagram Configuration*.
2. Move the *Title Block* and *Legend* within the diagram.
3. Switch to another *Diagram Configuration*.
4. Switch back to the initially selected *Diagram Configuration*.

   The position of the *Title Block* is reset to the default position.

Workaround: Lock the *Title Block Diagram* before moving the *Title Block* in the diagram.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

Delete action not available (1791317432727)

Sporadically, the **Delete** action is no longer available in the shortcut menu and cannot be executed via shortcut.

Workaround: Restart the client.

Problems on moving sheet connectors (1790789160452)

Moving a *Sheet Connector* in the *Wiring Diagram* is only possible when clicking on the exact center of its graphical representation in the diagram. Associated connector link labels are not moved when moving the *Sheet Connector*.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

17 PREEvision 7.0 SP2

This chapter contains the following information:

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17.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.2
PREEvision license server	2.0.0
PREEvision database server (2-tier)	2.0.13
PREEvision database server (3-tier)	7.0.0.24
PREEvision application server (3-tier)	7.0.2

Documentation

Manual	Version number
PREEvision manual	7.0.2
PREEvision operating manual	7.0.2
PREEvision system requirements	7.0.0

17.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24
7.0.2	7.0.2	7.0.0.24

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 **Operating Manual**.

17.3 Fixed issues

Fixed issues in PREEvision 7.0 SP2

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
- Product goals
- Logical function architecture
- AUTOSAR
- Communication
- Hardware architecture
- Geometry
- Functional safety
- Rules, metrics and reports
- Collaboration
- Administration and migration

17.3.1 Common

ID	Issue	Category
1791078060452	Added support for **Show table** with multi-selection in a diagram. For every selected artifact the selected table will be displayed.	Common
1791086032689	Sporadically, all views were minimized which lead to an empty screen. The error has been fixed.	Common
1791205002693	Tables which contain a row number column at the beginning (option **Show row numbers** enabled) are now correctly rendered when displayed in a diagram.	Common
1791300548454	Changing the description of a hidden label no longer resets the object and label configuration.	Common
1791314348454	Formatted texts are saved when closing the model even if the placeholder preview is currently active.	Common
1791324138200	User-defined filters for columns are now also available for temporarily opened tables.	Common
1791525478226	It is no longer possible to delete artifacts which contain invisible child artifacts hidden via roles and rights configuration.	Common

17.3.2 Product goals

ID	Issue	Category
1791314308454	Moving *Requirements* or *Requirement Packages* before or after checked-in *Requirements* now works correctly.	Product goals

17.3.3 Logical function architecture

ID	Issue	Category
1791323978200	Fans are now available in the *Logical Architecture System Diagram*.	Logical function architecture

17.3.4 AUTOSAR

ID	Issue	Category
1791210079822	AUTOSAR models with `<NV-BLOCK-SW-COMPONENT-TYPE>` can be imported now.	AUTOSAR
1791300442791	Exporting an AUTOSAR ECU Extract works again.	AUTOSAR
1791310522791	During the export of an AUTOSAR ECU Extract, default `SIGNAL-PORT`s are exported and referenced for *Signal Transmissions* which have no link to an explicit *Signal Port*.	AUTOSAR
1791313590455	During the AUTOSAR import, *Signal Transmissions* are specifically imported (CAN, LIN, FlexRay) according to the physical channel.	AUTOSAR
1791317640455	During the AUTOSAR export, network management attributes are not exported if their value is "-1".	AUTOSAR
1791317660455	During export of an AUTOSAR ECU Extract, connections crossing hierarchy levels are no longer exported.	AUTOSAR
1791320232791	The byte order `OPAQUE` is supported for *Signal-PDU-Assignments* and *PDU-Frame-Assignments*.	AUTOSAR
1791525250455	During the AUTOSAR import, UUIDs are now correctly considered for merging *Computation Methods*.	AUTOSAR

17.3.5 Communication

ID	Issue	Category
1791081098454	A `NullPointerException` during DBC import has been fixed.	Communication
1791216572791	On the **PDU Definition** property page of a *FlexRay TP Connection*, a table has been added for displaying receiving and sending PDU pools.	Communication
1791307872727	For *XCP-PDUs*, the bit length is imported into the generic attribute "BIT-LENGTH". This generic attribute is now considered during FIBEX export and within the *FlexRay Schedule* table.	Communication
1791310510455	During the LIN export, J2602 attributes are considered even if they are coded with formatted text.	Communication
1791315060455	In the table on the **CAN Identifiers** property page, the **CAN-Addressing-Mode** and the **Frame** are now correctly displayed.	Communication

17.3.6 Hardware architecture

ID	Issue	Category
1790521918454	A not connected *Bus Connector* can be connected to another *Bus Connector* in the *Network Diagram*, if this connector is already connected to a *Bus System*.	Hardware architecture
1791012730452	Ground spot optimization has been corrected: Unneeded *Inline Connector Pins* without connections are no longer created. If a set has been selected in the wizard, artifacts are no longer added to the variant directly.	Hardware architecture
1791205062693	In the *Electric Circuit Diagram*, the function **Show path to energy source** works again and shows the current path from the selected hardware component to the current source.	Hardware architecture
1791315289824	The "Splice Optimizer" metric has been corrected and now returns results if the pin hit count ("MaxHitCount") is set to 1.	Hardware architecture
1791317092693	An error with regular expressions within the wirelist importer has been fixed.	Hardware architecture

17.3.7 Geometry

ID	Issue	Category
1791093917721	During a KBL import, descriptions of mapped artifacts are now imported, like the *Connector Type* of a *Wiring Connector* or a *WH Inline Connector*.	Geometry
1791093927721	During a KBL import, the **Name** and **Code Number** of *Connector Types* of *Wiring Connectors* in *WH Inline Connector* are now imported correctly.	Geometry
1791093957721	During a KBL import, the pin count of *Connector Types* is correctly imported now.	Geometry
1791093937721	During a KBL import, **Name**, **Code Number** and **Description** of a *Seal Type* are correctly imported now.	Geometry
1791093977721	During a KBL import, the color of *Wire Types* of *Conductors* is imported correctly now.	Geometry

17.3.8 Functional safety

ID	Issue	Category
1782620642708	The attribute **ASIL** is now available for internal hardware components (e.g. *HW Module*, *RAM*, *ROM*, *Microprocessor*).	Functional Safety

17.3.9 Rules, metrics and reports

ID	Issue	Category
1757553570451	Matching for cycles in rules has been corrected for multiple cycles.	Rules
1791315222693	Contents of *Matrix Conversion* tables are displayed in the **Property View**.	Metrics
1791213042647	**Conditional Format** placeholders are now correctly included in the main report.	Reports
1791213052647	Chapter styles are now correctly set in the table of contents of a generated report. To apply the correct heading style, the preference **Indent heading structure** should be disabled.	Reports
1791307918454	Generating reports on a historic model version works correctly now.	Reports

17.3.10 Collaboration

ID	Issue	Category
1791213989822	Historic versions of *Reuse Units* are now presented in the **Search** result view after searching in historic model versions.	Collaboration
1791293758454	Formatted texts are no longer rewritten when creating a reuse, since they already exist on the source artifact. Thus, a commit error has been fixed which occurred when creating reused *Requirements* via a metric.	Collaboration
1791297570452	Commit is now possible after a DBC import with merge function.	Collaboration
1791314887721	Commit is now possible when deleting old content of the *Administration* package and importing new one without a commit in between.	Collaboration
1791317538454	Commit of reused *Reuse Units* is possible now.	Collaboration
1791320879822	Performance of committing reused *Reuse Units* has been improved.	Collaboration
1791322582687	An error has been corrected so that it is now successfully possible to update a *Reuse Unit* to the latest revision if the source *Reuse Unit* was renamed before.	Collaboration
1791372828454	Check-in of migrated *Reuse Units* is possible now.	Collaboration

17.3.11 Administration and migration

ID	Issue	Category
1791315268454	Formatted texts with an invalid file ID are now correctly handled during 3-tier backup creation.	Administration
1791301229824	Dependently-versioned artifacts can now be correctly migrated.	Migration

17.4 Known issues

Changing diagram configurations resets title block position (1790914188454)

In the following scenario, the position of a diagram *Title Block* is incorrectly reset:

1. For a locked diagram, activate a *Diagram Configuration*.
2. Move the *Title Block* and *Legend* within the diagram.
3. Switch to another *Diagram Configuration*.
4. Switch back to the initially selected *Diagram Configuration*.

   The position of the *Title Block* is reset to the default position.

Workaround: Lock the *Title Block Diagram* before moving the *Title Block* in the diagram.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

LibreOffice freezes when inserting Korean text with Microsoft IME (1790799612716)

When using Microsoft IME and inserting Korean characters into LibreOffice (e.g. a formatted text field or table cell), LibreOffice cannot close the document and freezes.

Problems on moving sheet connectors (1790789160452)

Moving a *Sheet Connector* in the *Wiring Diagram* is only possible when clicking on the exact center of its graphical representation in the diagram. Associated connector link labels are not moved when moving the *Sheet Connector*.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

DBC import does not merge existing data elements (1791086239824)

During the DBC import with merge function, existing data elements with identical names are not correctly identified and merged. Instead, new data elements are created.

FIBEX import does not create transmissions for signals within multiplexed PDUs (1791295412791)

During the FIBEX import, for signals within a PDU which is referenced by a multiplexed PDU, no transmissions are created.

18 PREEvision 7.0 SP1

This chapter contains the following information:

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18.1 Version numbers

Version numbers

Application	Version number
PREEvision client	7.0.1
PREEvision license server	2.0.0
PREEvision database server (2-tier)	2.0.13
PREEvision database server (3-tier)	7.0.0.24
PREEvision application server (3-tier)	7.0.1

Documentation

Manual	Version number
PREEvision manual	7.0.0
PREEvision operating manual	7.0.0
PREEvision system requirements	7.0.0

18.2 Installation and compatibility information

Reference: For detailed information about the installation and compatibility of PREEvision 7.0 in general, refer to PREEvision 7.0 - Installation and compatibility information.

Update of 3-tier environments

In a 3-tier environment, 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 versions for specific PREEvision 7.0 versions:

Client version	Server application version	Database server script version
7.0.0	7.0.0	7.0.0.24
7.0.1	7.0.1	7.0.0.24

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 **Operating Manual**.

18.3 Fixed issues

Fixed issues in PREEvision 7.0 SP1

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	Issue	Category
1791210390455	During the AUTOSAR import, `PartialNetworkCluster` are merged on considering the `pncIdentifier`.	AUTOSAR
1791296412791	During the AUTOSAR export, export of `LINFrameTriggerings` and `PDUTriggerings` works again.	AUTOSAR
1791300112791	The merging AUTOSAR import works again.	AUTOSAR
1791300690455	During the AUTOSAR import, PPort and RPPort Mappings are correctly imported.	AUTOSAR
1791301012791	During the AUTOSAR export, a *Scale Linear Verbal Table Conversion* is exported as `SCALE_LINEAR_AND_TEXTTABLE`.	AUTOSAR
1791301140455	Open references in the AUTOSAR export of an ECU Extract have been fixed.	AUTOSAR
1791084730455	LDF import and export support verbal table conversion as well as linear conversions.	Communication
1791296212727	On the **Property View** of a LIN *Configurable Frame ID*, it is now possible to set the affected *LIN-ECU-Interface*.	Communication

18.4 Known issues

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Workaround: Copy and paste single table cells.

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Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

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19 PREEvision 7.0

This chapter contains the following information:

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	Requirement engineering and management	176
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	Wiring harness concept design	180
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19.1 Version numbers

Version numbers

Application	Version number
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PREEvision license server	2.0.0
PREEvision database server (2-tier)	2.0.13
PREEvision database server (3-tier)	7.0.0.24
PREEvision application server (3-tier)	7.0.0

Documentation

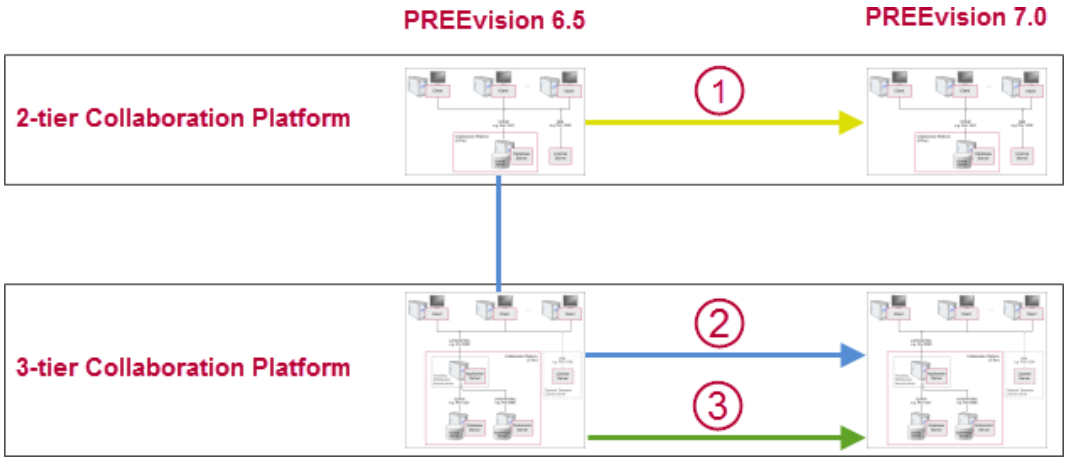
Manual	Version number
PREEvision manual	7.0.0
PREEvision operating manual	7.0.0
PREEvision system requirements	7.0.0

19.2 Installation and compatibility information

Reference: For detailed information about the installation, update and migration of PREEvision, refer to the **Operating Manual**.
For details about the new features and changes regarding installation and administration of PREEvision, refer to section Administration and installation.

Backup/restore and migration

The following migration paths from PREEvision 6.5 to PREEvision 7.0 are supported with the mentioned restrictions:



① **2-tier to 2-tier migration** from PREEvision 6.5 to 7.0
- > without history (migration of latest model version only)
- > with standard performance

② **2-tier to 3-tier migration** from PREEvision 6.5 to 7.0:
- > without history (migration of latest model version only)
- > with standard performance
- > must be carried out in two steps:

1. Technology change from 2-tier to 3-tier must be performed first (on PREEvision 6.5)
2. Afterwards, data migration from PREEvision 6.5 to 7.0 can be performed.

③ **3-tier to 3-tier migration** from PREEvision 6.5 to 7.0:
- > with or without history possible
- > improved performance of history migration

Backup of 2-tier models from PREEvision 7.0 and restore to PREEvision 7.0 is only supported without history (last model version only). For backup/restore including history use a database dump instead.

Caution: Please contact the Vector **support** for getting information about:
> the appropriate migration procedure if you are planning to **migrate to a new** PREEvision **version**.
> the appropriate migration procedure if you are planning to **switch the system architecture** from 2-tier to 3-tier
> which PREEvision version shall be used for **valid backup and restore**.

Compatibility

2-tier environments:
The following table shows compatible client and database server script versions for specific PREEvision 7.0 versions:

Client version	Database server version 5.5 (2.0.10)	Database server version 6.0/6.5/7.0 (2.0.13)	Database server version 6.5/7.0 (2.0.14)
5.0.x	read-only	read-only	read-only
5.5.x	compatible	compatible	compatible
6.0.x	not compatible	compatible	compatible
6.5.0 - 6.5.8	not compatible	compatible	compatible
from 6.5.9	not compatible	not compatible	compatible
7.0.0 - 7.0.2	not compatible	compatible	compatible
from 7.0.3	not compatible	not compatible	compatible

3-tier environments:
In a 3-tier environment, 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
7.0.0	7.0.0	7.0.0.24

Licenses and license server

For PREEvision 7.0, new licenses are required.

PREEvision workspace and PREEvision.ini

Existing workspaces from earlier PREEvision versions cannot be reused for PREEvision 7.0. Overwriting the `PREEvision.ini` is not allowed as well.

Operating system: character set

Please do 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

- Architecture design
- Requirement engineering and management
- AUTOSAR software and system design
- Communication design
- Wiring harness concept design
- Design of safety relevant systems
- Editors, views and perspectives
- Usability improvements
- Rules and metrics
- Collaboration
- Administration and installation

19.3.1 Architecture design

New mappings

The following new mappings are available in PREEvision to support the architecture design use case:

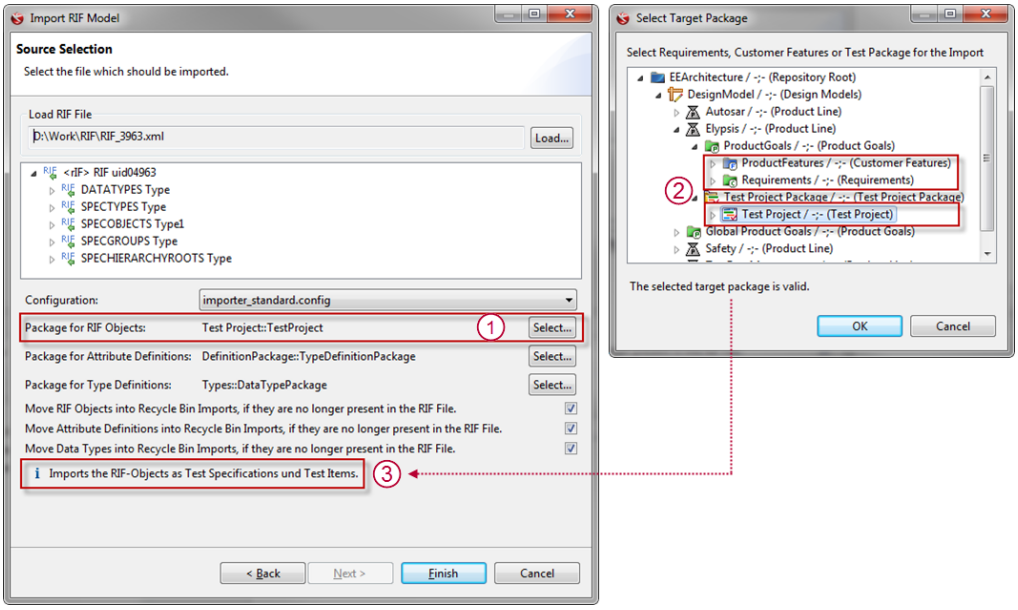
- *SW-HW: Interface Mappings* are available to map software ports to internal and external hardware interfaces.
- *LA-NET: Hardware Port Mappings* are available to map *Logical Function* ports to internal and external hardware interfaces.
- *LA-SW Port Prototype Mappings* are available to map *Logical Function* ports to software port prototypes.

19.3.2 Requirement engineering and management

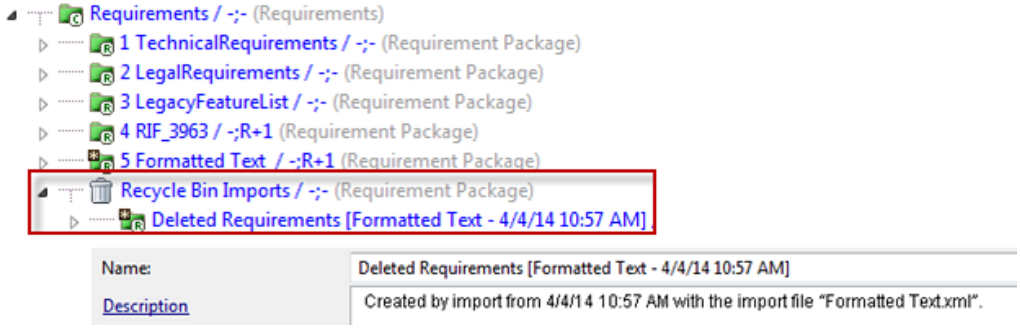
RIF import

The following features have been introduced related to the RIF import:

- RIF objects can be imported as feature or test artifacts by selecting a corresponding import package during the RIF import.



- If RIF files are imported which contain links in-between the RIF objects, the link information is now available after the import.
- On RIF import updates, artifacts which do no longer exist in the RIF file can be moved to a separate "Recycle Bin" Package. The recycle bin entry references the original package name and the relevant RIF file.



- Single *Requirement Attribute Definitions* can be checked-in independently from the containing *Requirement Attribute Definition Package*.

19.3.3 AUTOSAR software and system design

AUTSAR perspectives

Perspectives are available to support the AUTOSAR workflow. A new perspective has been introduced for FlexRay network design.

Update software component type refactoring

Software component prototypes and instances can now be updated to other revisions of the software component type. The refactoring can be executed on the **Version History** property page via the button **[Update with selected Type Version]**.

New tables

The following new tables are available to support the AUTOSAR software and system design:

- *Sender Port Connection Viewer*: shows the connected and unconnected sender ports for all software components.
- *Receiver Port Connection Viewer*: shows the connected and unconnected receiver ports for all software components.
- *S/R Interface Editor*: supports the definition of Sender Receiver Interfaces and the assignment of the corresponding data types and computation methods.
- *Software/Hardware Mapping Editor*: shows and allows to create and edit mappings between software and hardware components.

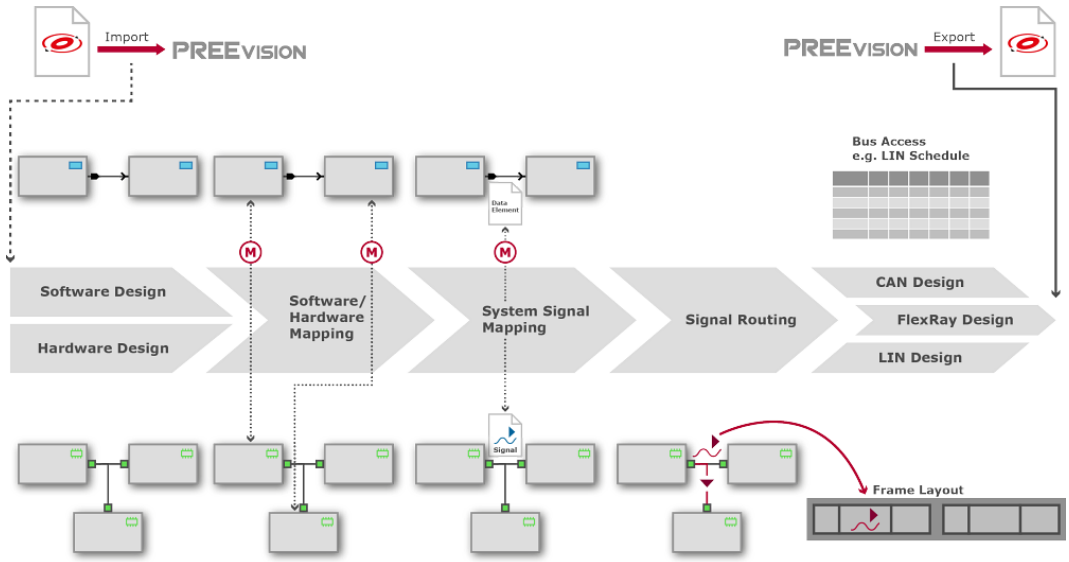
AUTOSAR consistency checks

AUTOSAR related consistency checks have been extended to check the consistency of AUTOSAR designs in PREEvision.

19.3.4 Communication design

Communication design workflow

The *Communication* layer was completely restructured to support an easier design of the different bus systems - CAN, CAN FD, LIN and FlexRay.

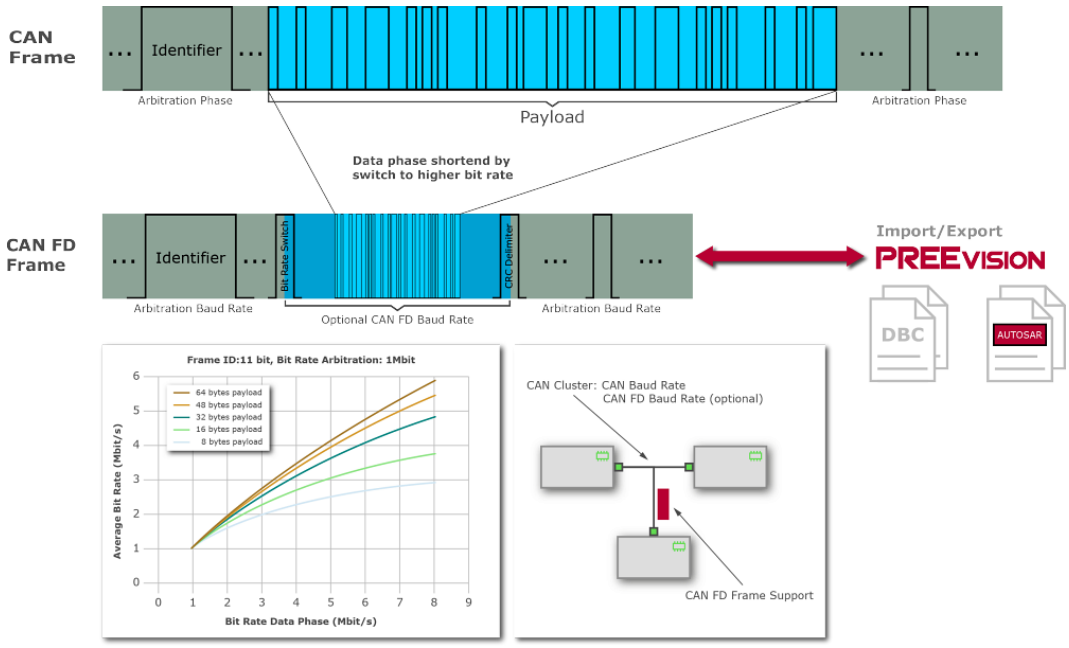


The following new editors are available to support the communication design workflow:

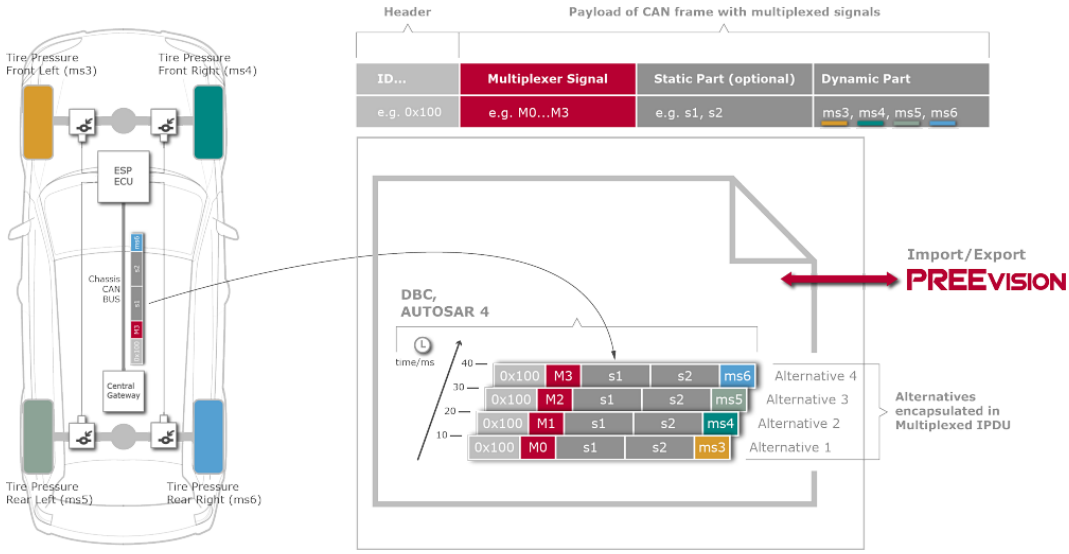
- *System Signal Mapping Editor (ECU Based)*: provides an overview of the system signal mappings on an ECU and additionally allows to create and modify mappings.
- *System Signal Mapping Editor (Product Line Based)*: provides an overview of all system signal mappings within a *Product Line*.
- *Gateway Editor*: provides an overview of signals routed via a gateway. It also allows to set up a new routing for received signals. For legacy data the editor allows to connect "gatewayed" signal transmissions of two network segments.
- *Signal Definition Editor*: allows to specify all common signal attributes in a list view.
- *Signal Overview (Packaging and Routing)*: allows to obtain packaging and routing information on a signal. It shows in which frames a signal is packaged and which transmissions are available and supports a re-packaging.
- *CAN Frame Editor*: provides an overview of CAN frames.
- *LIN Frame Editor*: provides an overview of LIN frames.
- *CAN Bus Editor*: allows to display and edit the communication matrix on one bus segment. It provides an overview of the CAN network routing and allows to specify transmissions as well as create and edit routings.
- *CAN TP Editor*: provides an overview of CAN transport configurations and also allows to edit CAN transport configurations.
- *FlexRay Schedule Table*: provides an overview of the FlexRay schedule and allows to extend and modify the schedule

CAN FD and CAN multiplexing

PREEvision supports CAN FD and CAN multiplexing.



Both, CAN FD and CAN multiplexing, are supported by comfortable GUI functions and by the DBC and AUTOSAR import and export.



The new *CAN Bus Editor* and the new frame compiler are additional tools for CAN design.

LIN

The *LIN Schedule Editor* has been improved and supports LIN schedule entries.

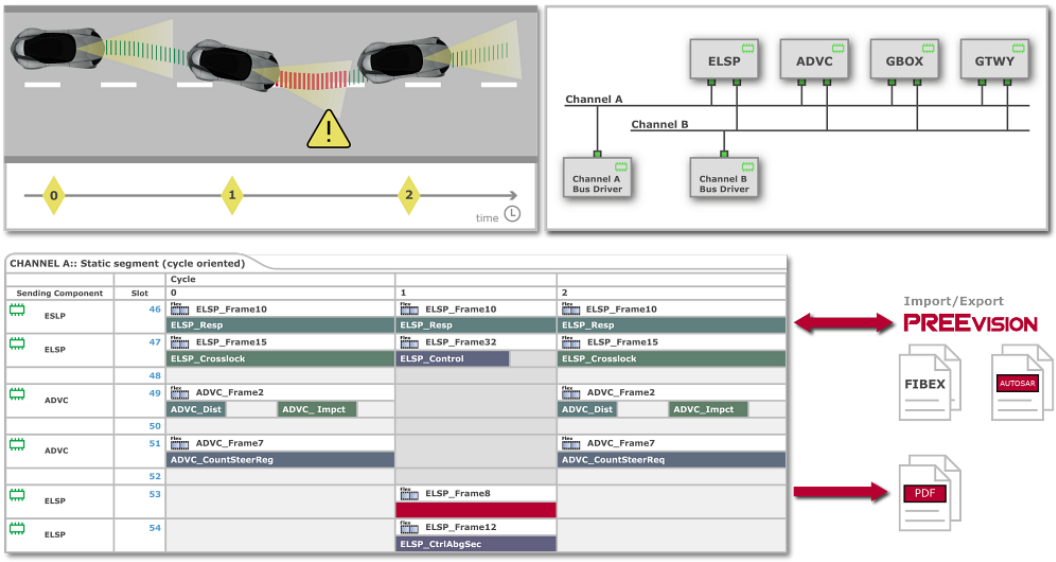
The LIN communication design supports J2602.

The LDF 2.0 and the AUTOSAR 4 import and export support LIN.

`*.ncf` can be exported via metric.

Flexray / FIBEX

PREEvision supports the complete design of FlexRay communication with:



> the *FlexRay Scheduling Editor* (cycle- and slot-oriented) and

> FlexRay specific compare configurations available to compare FlexRay schedules.

The FIBEX 3.1.0 and the AUTOSAR import and export support FlexRay.

Network management and transport protocol

PREEvision supports the Network Management as well as the Transport Protocol specification according to AUTOSAR.

Signal router extensions

The signal router now supports data elements of complex data types (records and arrays). For complex data types, *Signal Groups*, *Signals* and the corresponding mappings are created during signal routing.

Signal Groups can now be highlighted in the *Network Diagram*.

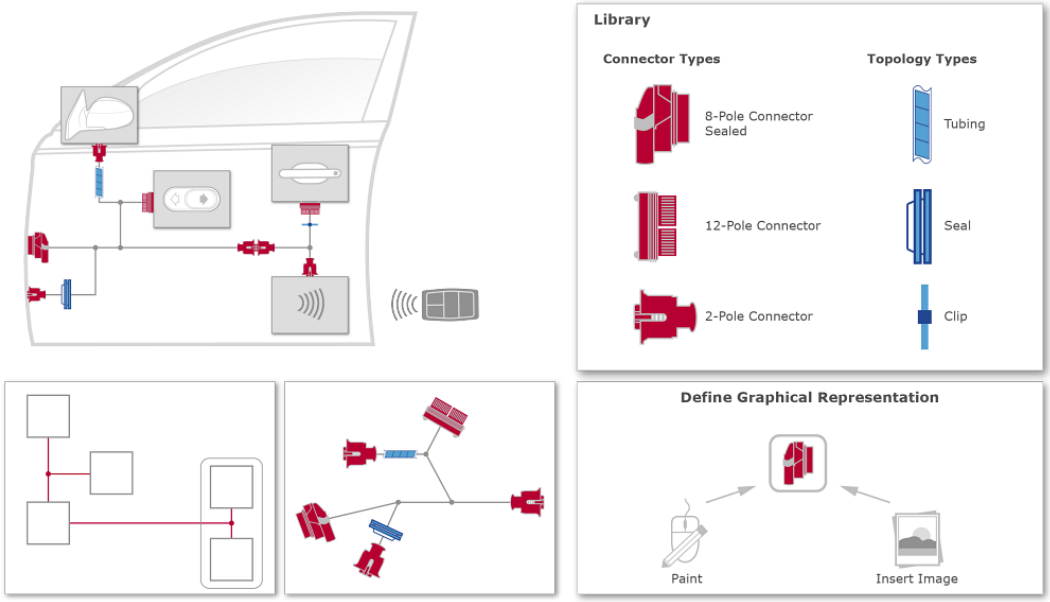
Frame-PDU synthesis extensions

The Frame-PDU synthesis has been extended to generate *PDU Gateway Routing Entries*, if required.

19.3.5 Wiring harness concept design

Connectors and segment intervals in Geometry

Displaying connectors within the *Geometry Diagram* is now supported. A user-defined graphic can be specified for the *Connector Type*. This user-defined graphic can be drawn in the *Connector Template Diagram* of the respective *Connector Type*.



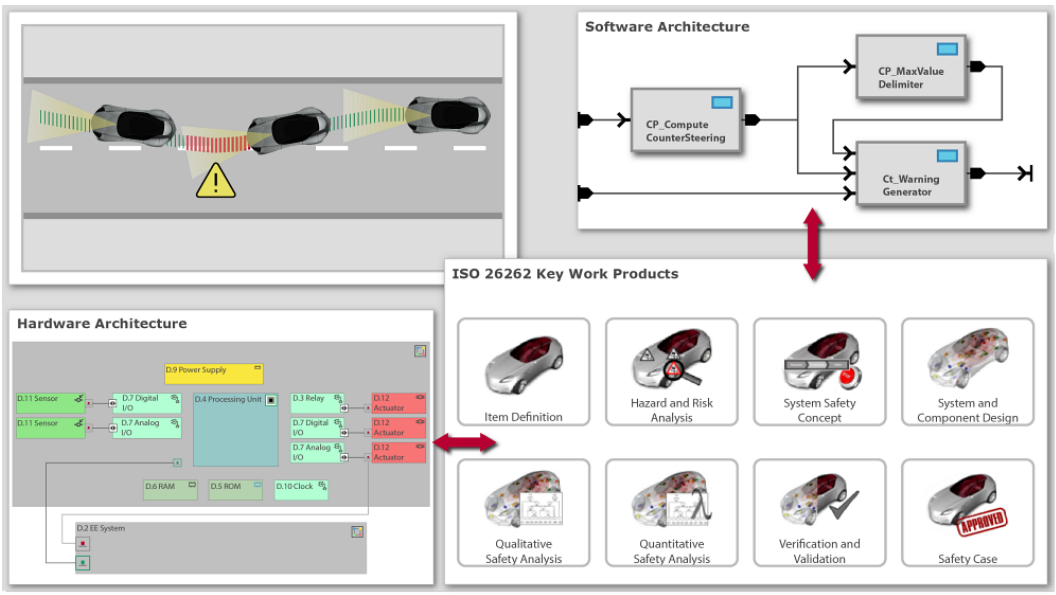
A new highlighting for segment intervals is available. When selecting the start point of a segment interval, the interval itself and the end point of the segment interval are highlighted in the *Geometry Diagram*.

To provide a better overview of different segment intervals on the same segment, each segment interval is now displayed with a different color in the *Geometry Diagram*. Overlapping segment intervals are drawn in dashed lines which allows to identify different segment intervals.

19.3.6 Design of safety relevant systems

Safety / ISO 26262

PREEvision now provides full support for ISO 26262-compliant specification and analysis of safety-related systems.



The following work products can easily be created with PREEvision 7.0

- Safety mechanisms
- Functional safety concept report
- Technical safety concept report (hardware and software)

- Hardware software interface (HSI) specification
- Quantitative fault tree analysis (FTA) with minimal cut set analysis
- Hardware evaluation according to hardware architectural metrics and failure rate class (FRC) method
- Safety case report

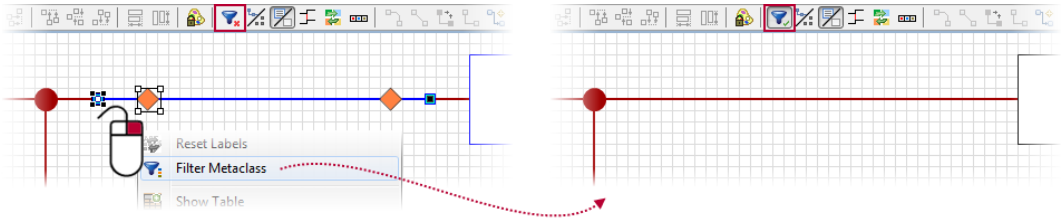
19.3.7 Editors, views and perspectives

Filters and tables in diagrams

Filtering diagrams:

A class-based filter mechanism has been introduced for diagrams to define which meta classes are displayed/hidden in a diagram. In this way, it is possible to focus on specific aspects of a diagram without having to create and maintain a diagram for each aspect.

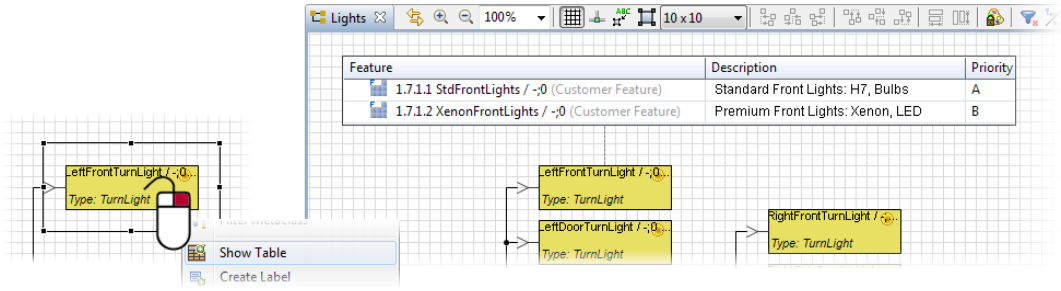
Filters can be defined on all diagram types. Like meta class filters in the **Model View**, diagram filters can be configured via the shortcut menu **Filter Metaclass** or in a filter configuration dialog. A selected filter can be switched on and off via the diagram toolbar button .



Multiple filters can be defined and saved for each diagram type. An initial filter can be set in the object configuration of the diagram or legend.

Displaying tables in diagrams:

Tables associated to an artifact contained in a diagram can now be displayed in the diagram via the shortcut menu **Show Table**. Within a dialog, the table(s) to be displayed for the artifact can be selected.

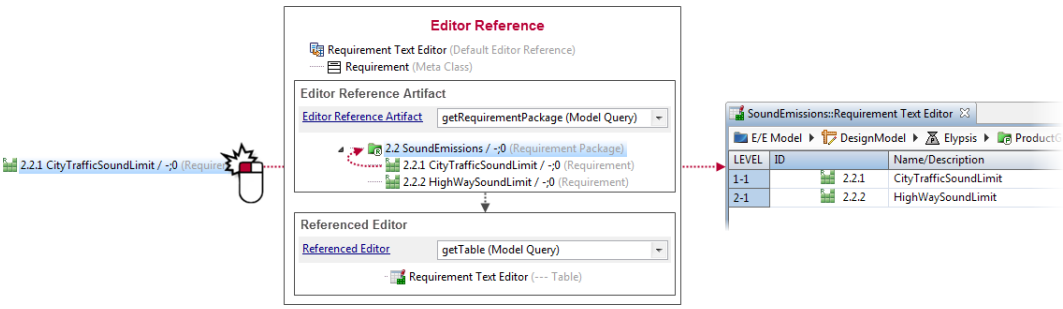


Tables displayed in a diagram are view-only. The associated table editor can be opened via double click on the table in the diagram.

Editor references

Editor references are now available which allow to open an editor of a related artifact exactly as an editor directly assigned to the selected artifact. For example, as default editor of a *Requirement*, the editor of the parent *Requirement Package* can be opened.

Editor references can be configured via *Model Queries* or metrics and define the related artifact for which to open the editor and the editor to be opened.



A referenced editor can be:

> set as default editor (*Default Editor Reference*),

> displayed in a diagram (*Diagram Table Reference*) or

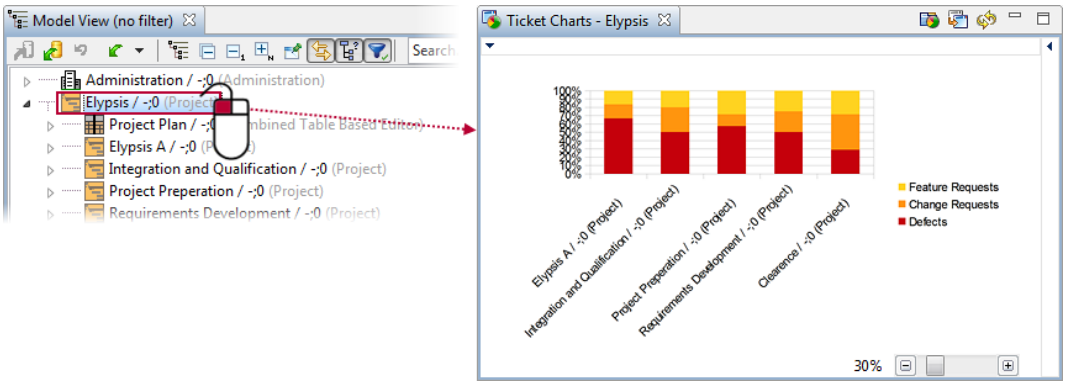
> opened via double click on a chart (*Chart Table Reference*).

Charts and cockpits

Charts can now be configured to visualize evaluation and analysis results.

A chart configuration defines the underlying data as well as the type and layout of the chart. The data input of the chart can be provided by a table editor or a metric. The type and layout of the chart is defined by a LibreOffice template. One or multiple charts can be displayed and arranged on the chart view.

The chart configuration defines on which meta classes a chart is available. When selecting an artifact of the assigned meta classes, the chart view will be automatically updated and the displayed chart will be recalculated for the currently selected artifact.



Charts can additionally be parameterized, for example, to provide daily, weekly or monthly trend charts.

For configuring cockpits, the following features have been introduced:

> Tables and charts can be added to a **Portlet View** via drag and drop.

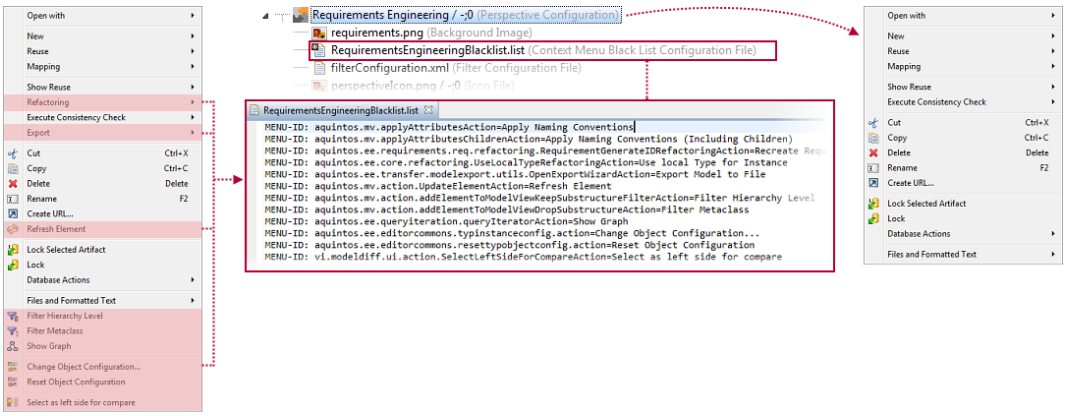
> All view tabs can be hidden for a perspective via the main menu **Window | Hide Tabs for Perspective**.

Customized perspectives

Two features have been introduced for customizing perspectives.

Filtering the shortcut menu:

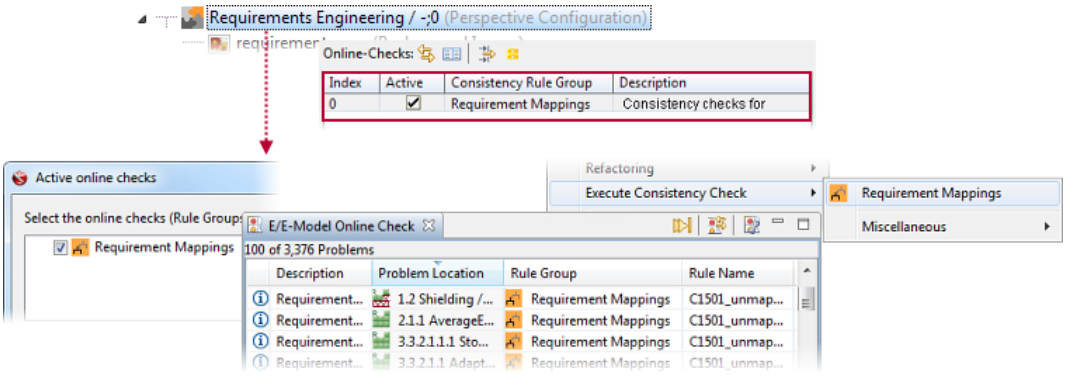
The shortcut menu available in the **Model View** and in table editors can be filtered for a customized perspective. Therefore, a *Context Menu Blacklist* can be attached to the *Perspective Configuration*. The blacklist contains the shortcut menu items to be hidden.



Filtering consistency checks:

The consistency checks available in a customized perspective can be filtered. Therefore, *Consistency Rule Groups* which contain the relevant checks are assigned to the *Perspective Configuration*.

Within the perspective, only the assigned checks will be considered in the **Online Check** view.



Tables

The following actions have been added to the table toolbar:

Activate/Deactivate Column Filter
activates/deactivates the automatic filter for all column headers.

Duplicate Editor
duplicates the table by opening it in a new editor.
In this way, several, identical tables can be pinned to different artifacts.

Add Editor To Model
saves a temporarily opened table in the model.

Show Help Entries
shows redundant artifact information for one-to-many relationships.

Via the shortcut <CTRL>+<SHIFT>+ drag and drop, artifacts can now be inserted in a table cell via drag and drop from a diagram.

Copy diagram layout

A selection of artifacts including their graphical layout can be copied from one diagram to another diagram of the same diagram type.

Special support is available for copying contents between different hardware diagrams (from the *Schematic Diagram* to the *Wiring Harness Diagram* and vice versa).

Selected artifacts are automatically copied including their graphical layout via the general copy function (shortcut <CTRL>+<C> and shortcut menu **Copy**). Pasting the artifacts including their graphical layout into another diagram can be done via the shortcut <ALT>+<V> or the shortcut menu **Paste Layout**.

Double click behavior

The double click behavior has been extended as follows:

- Double clicking on a file, diagram or table artifacts displayed in a table editor opens the corresponding editor. Double click behavior regarding the renaming functionality remains the same as usual for all other artifact types.
- <CTRL>+double click for opening the form editor now works in tables and on artifacts displayed in a dynamic diagram label.
- <CTRL>+<ENTER> can be used as alternative for <CTRL>+double click in the following views/editors: **Model View**, **Favorites**, **Search** result, table editors (not in edit mode) and **Set Content View**.

Property view

The following enhancements have been introduced for the **Property View**:

- Creation and modification users and dates are now displayed in the top right corner of the page. By clicking on the resource link, the associated *Resource* is selected (if available).
- The life cycle state icon (if available) is displayed in the **Property View**. The life cycle state can be changed by clicking on the icon.

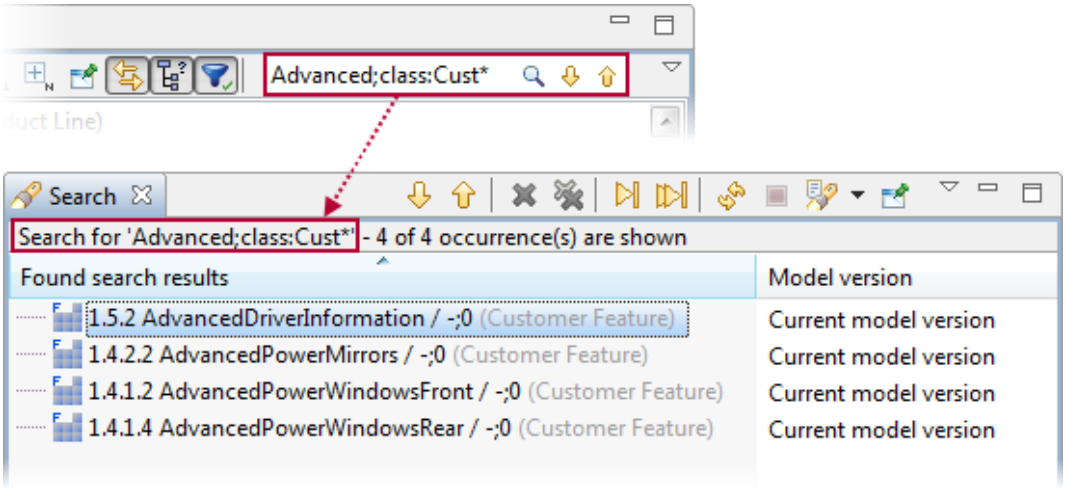
19.3.8 Usability improvements

Quick search

It is now possible to specify qualified search parameters for the quick search which includes:

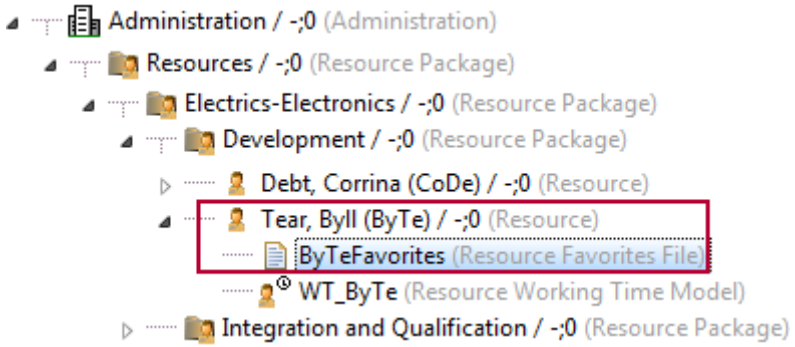
- searching for artifacts of a specific meta class
- searching for artifacts with specific attribute values

The search expression may consist of multiple search parameters which are separated by a semicolon.



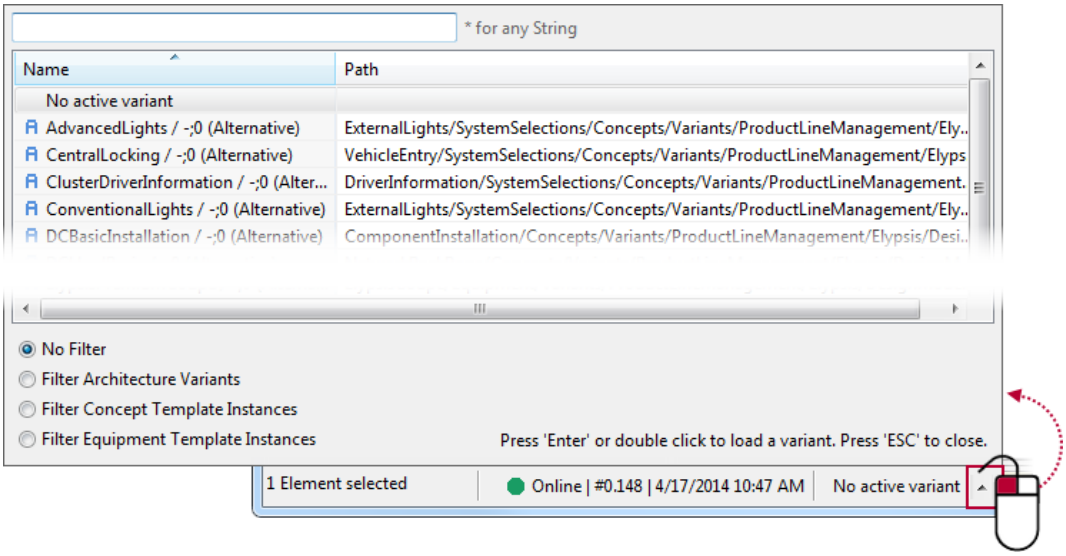
Favorites

Favorites can now be stored within the E/E model. Therefore, a *Resource Favorites File* is created below the *Resource* of the currently connected user. Changes are automatically stored on a commit or when closing the application. Changes can also be manually stored via a new button in the **Favorites** view.



Status bar

The currently active variant is now displayed in the status bar. By clicking on the variant in the status bar a dialog is opened to switch the currently active variant. Alternatively, the variant selection can be opened via the shortcut <CTRL>+<ALT>+<V>. The variant selection dialog provides enhanced functionality such as sorting, filtering and type-ahead.

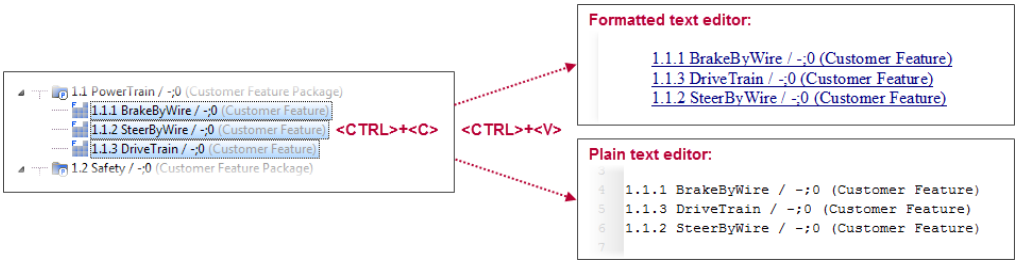


Additionally, the status bar now displays the number of currently selected artifacts.

Copy and paste from the model view into an external editor

PREEvision artifacts can be copied in the **Model View** and pasted into an external editor, e.g. Microsoft Office. Depending on the text format of the external editor, artifacts are differently pasted:

- If the external editor supports formatted text, links to the copied artifacts will be pasted into the external editor.
- If the external editor supports plain text only, the artifact names according to the object configuration will be pasted into the external editor.



Handling relations for reuse and copy

The decision of whether external relations are copied or not depends now on the fact if the artifact is a functional or a non-functional artifact.

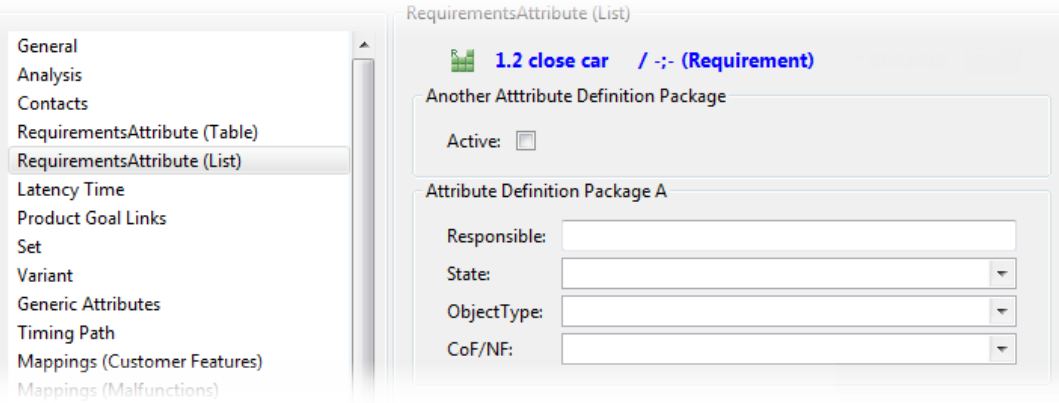
Functional artifacts bear a meaning in E/E like e.g. an *ECU* or a *Signal*.

Non-functional artifacts are only necessary for internal usage in PREEvision e.g. a table editor or a diagram.

Furthermore it is distinguished if the external relation points to a functional or a non-functional artifact and if a lock is necessary.

Configured attributes

Configured attributes (*Requirement Attribute Definitions* and *Attribute Definitions* for the change and release management) are no longer displayed in a table on the **Property View**. Instead, suitable form fields are presented for each attribute definition according to the attribute type.



Attribute definitions are grouped by the name of the parent definition package.

Change and release management

The *Ticket* **Description** has been divided into two fields: **Behavior** and **Expected Behavior**.

Resources currently not available are indicated by the following icon: . The availability is defined by the *Resource Working Time Model*.

Object and label configuration

Object and label configuration are now stored within the same configuration file. The label configuration has been adjusted so that identical settings are available independent of whether the label configuration is defined on the label configuration view or via the shortcut menu.

19.3.9 Rules and metrics

Consistency checks

New severities are available for consistency checks:

- **Reject Commit**: If an inconsistency of this severity has been detected within the artifacts to be committed, the commit cannot be executed.
- **Reject Check-in**: If an inconsistency of this severity has been detected within the artifacts to be checked-in, the check-in cannot be executed.

If a consistency check with one of these two classifications is configured, a commit or check-in can only be performed if the online check is enabled. If an artifact cannot be committed or checked-in due to a failed consistency check, the error text will be posted to the **Information View** and the **Online Check** view.

Metrics

The source code of a Calculation Block can now also be opened:

- via double click on the *Calculation Block* or the *Source Code* artifact in the **Model View** or
- via the shortcut menu **Open with... | Open Source Code in Java Editor**.

It is now possible to call a metric from within another metric.

The type and value of Parameter Blocks can now be defined via application data types, e.g. an *Application Enumeration*. Additionally, via a *Model Context*, *Parameter Blocks* can be dynamically overwritten with the artifact currently selected for metric execution or report generation.

Extension of the "New" menu

The **New** menu can now be extended by metric executors.

19.3.10 Collaboration

Life cycles

Complex life cycles can now be modelled within several life cycle diagrams. The complete life cycle no longer has to be represented within exactly one diagram.

For handling life cycle state changes, the following improvements have been introduced:

> Auto-commit and re-lock are performed when changing the life cycle state several times.
This feature can be enabled/disabled via the **Collaboration** preferences (**Life Cycle Settings**).

> The life cycle state can be changed by clicking on the life cycle state icon (if available). This functionality is available in the **Model View**, in the **Property View** and in tables.

Creating branches based on predecessor

Create branch is now possible via the drag and drop menu of checked-out artifacts. The branch is always created from the predecessor revision. The content of a branch may be taken from the predecessor or the latest revision.

Automatic check-out

Similar to the automatic locking mechanism, check-out actions are also automated, now.

As a consequence, all editors and diagrams are available for editing even for checked-in artifacts. If the user changes checked-in artifacts, the system automatically detects the minimum set of artifacts which need to be checked out and presents them in the check-out dialog. After confirmation by the user these artifact are checked out.

19.3.11 Administration and installation

Reference: For detailed information about the installation and administration of PREEvision, refer to the **Operating Manual**.

Database installation with reduced permissions (3-tier only)

For installing the 3-tier database server, a PREEvision database schema/user is required. For automatically creating this schema/user during database server installation, `SYS` permissions are required.

To support installations for which no `SYS` user is available, the schema user can now also be created in advance by a database `SYS` admin. The PREEvision database server is then installed into the already existing schema.

Oracle-based repository removed (3-tier only)

On the 3-tier database server, formatted texts are no longer stored within a separate database schema. Instead, they are stored in the PREEvision schema.

Thus, during 3-tier installation it is no longer required to create a separate tablespace (e.g. `PREEVISIONOBR`) and schema user (e.g. `OBR_REP`) for storing formatted texts.

An already existing tablespace and schema user are not automatically deleted during migration from PREEvision 6.5 to 7.0. After successful migration, the tablespace and the schema user have to be manually removed, if required.

SVN repository location configurable (3-tier only)	The SVN repository location is no longer fixed (`/<application>/svn`) but can be freely configured. The SVN repository server location has to be specified via an additional parameter during the generation of the server application (WAR file).
Administration perspective (3-tier only)	The following new actions have been added to the **Model Management** view of the **Administration** perspective: > **Calculate database statistics**: Calculates the database statistics for the currently connected database instance. > **Download server log file**: Downloads the log file from the application server.
Public key infrastructure (3-tier only)	Within a 3-tier Collaboration Platform environment, authentication via certificates can now be used. In this case, authentication takes place by exchanging certificates between client and application server.
WebSphere 8.5 supported (3-tier only)	WebSphere 8.5 is now supported to be used as application server for PREEvision.
Oracle 10 no longer supported	Oracle 10 is no longer supported.

19.4 Migration information

Migrating RIF import configuration files

Custom RIF import configuration files must be migrated.

RIF import configuration files are located in the "RIF Import Configuration Package" *Model Im-/Export Configuration Container* under *Administration | Configuration File Container*.

The following attribute names of RIF import configuration files have been changed:

Attribute name (PREEvision 6.x)	Attribute name (PREEvision 7.0)
RequirementName	ArtifactName
RequirementDescription	ArtifactDescription
RequirementID	ArtifactID
isEmbeddedFile2ReqAttributeValue	isEmbeddedFile2AttributeValue
isFileRef2ReqAttributeValue	isFileRef2AttributeValue
isObjDesc2ReqAttribute	isObjDesc2Attribute
isObjIdentifier2ReqAttribute	isObjIdentifier2Attribute
isObjLastChange2ReqAttribute	isObjLastChange2Attribute
isObjLongName2ReqAttribute	isObjLongName2Attribute
isReqAttrValue2RichText	isAttrValue2RichText

19.5 Fixed issues

Fixed issues in PREEvision 7.0

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 and tables
- Product goals
- Logical function architecture
- AUTOSAR
- System software architecture
- Hardware architecture
- Geometry
- Communication
- Product line management
- Metrics and reports
- Collaboration
- Administration, authority, installation and migration

19.5.1 Common

ID	Issue	Category
	Formatted text fields are correctly enabled for editing on first click.	Common
34710	All data type artifacts can now be assigned to a set.	Common
1716114095787	When creating mappings for multiple artifacts via drag and drop, the mapping type now needs to be selected only once for all artifacts of the same meta class.	Common
1779142759823	Renaming of newly created artifacts in the mapping dialog is now immediately visible.	Common
1782606202791	The sorting algorithm used in the **Information View** works correctly again.	Common
1787093337721	For the label configuration, the computed name will be retrieved for artifacts having set no **Name** attribute.	Common
1788281649824	OLE objects are now correctly embedded in formatted texts (e.g. description fields).	Common
1790760732709	The menu items **Save Perspective Into Model** and **User Defined Cheat Sheets** can now be filtered.	Common
1790853449824, 1790903009824, 1791062892716	Under some circumstances it was no longer possible to enter space characters in the commit comment and all other entry fields. The problem was fixed.	Common

ID	Issue	Category
1790914558218	Selection propagation is now possible in the **Assistance View** via a respective button in the action bar.	Common
1791082769823	When copying an artifact in a file-based model, existing branch and revision information are no longer copied (relevant, e.g. if a 3-tier model has been exported into a file).	Common
1791147098454	Use case form pages keep their size after setting attribute values.	Common
1791147098454	Use case form pages keep the current selection within drop-down boxes after the page is refreshed (e.g. after executing an action).	Common

19.5.2 Diagrams and tables

ID	Issue	Category
1776955222693	For external labels (e.g. *Documentation*) in a diagram, all lines of text are now displayed. The preferences for internal labels which define the number of rows to be displayed is no longer considered.	Diagrams
1787102658454	An artifact displayed in a dynamic label within a diagram can be renamed using <F2>. This is only possible if the dynamic label shows only one artifact.	Diagrams
1790865070452	*Title Blocks* are no longer placed over the coordinate system of a *Section*.	Diagrams
1791074888454	Moving sections within diagrams works correctly now without affecting the layout of connections.	Diagrams
1791085599823	Diagrams are correctly printed with landscape format defined via the print preferences.	Diagrams
1791086048454	Diagrams which contain an image that is no longer available in the model can be opened without error.	Diagrams
1791090822644	Labels on conditions are now displayed in all diagrams.	Diagrams
1791147739822	Performance of working in diagrams with activated highlighting has been improved.	Diagrams
1791200052693	Connections of mapping boxes and tables are filtered out correctly from diagrams if a respective filter is set.	Diagrams
1791203977721	Copy and paste of the diagram layout works in *Interface Assignment Diagrams* now.	Diagrams
1791204247721	Copy and paste the diagram layout works again.	Diagrams

ID	Issue	Category
1757558317721	For configured table columns, the delete option is disabled by default.	Tables
1774833868454	Configured attributes of type "Text" can now be edited in tables.	Tables
1783784458454	The name of row metric table columns is no longer set to the name of the associated *Metric Executor* but shows the given name of the *Column* artifact.	Tables
1790799512647	Help entries of tables displayed on the **Property View** can be switched on and off again.	Tables
1790905202709	Within tables, the icon of the artifact displayed in the ID column will only be displayed once. If the same artifact is displayed in other columns of the same row, the icon will not be displayed again. Icons of all other artifacts are still displayed.	Tables
1791146022689	Boolean values are always displayed as check box in table editors.	Tables
1791148742644	The **[+]** action for creating artifacts using an *Embedded Metric Executor* now also works for temporary opened tables.	Tables

19.5.3 Product goals

ID	Issue	Category
1778004152716	A changed order of requirements in a RIF file is now correctly regarded while updating existing requirements.	Product goals
1779769297721	*Requirement Attribute Definitions* are now correctly displayed on the **Requirement Attributes** property page.	Product goals
1782599298454	The refactoring on requirements to renumber the ID uses the automatic locking mechanism now.	Product goals
1790221842716	RIF files with links containing an "&" can now be imported.	Product goals
1790547399822	In the RIF import dialog, it is now possible to select an existing data type package.	Product goals
1791081642647	Moving *Requirements* within a table editor no longer changes their description.	Product goals
1791150979822	Page breaks in description fields are removed after the RIF import.	Product goals
1791213528454	*Requirements* are now sorted correctly if a file package has been created in the same sub folder.	Product goals

19.5.4 Logical function architecture

ID	Issue	Category
17486	After connecting ports via the refactoring in the *Logical Architecture System Diagram* the newly connected assembly nets are shown in the opened diagram.	Logical function architecture
1751090019822	All logical types are now shown consistently on the **General** property page of *Logical Functions*, *Building Blocks* and *Logical Domains*.	Logical function architecture
1774822619822	The **Move Block** refactoring no longer creates unnecessary delegation ports.	Logical function architecture
1774840009822	The **Assign Interface To This Port** refactoring is now always available in the shortcut menu independent of whether the respective artifacts are locked.	Logical function architecture
1778004432820	*Logical Domains* can now be created via drag and drop of a *Logical Domain Type* from the *Library* to a *Logical Architecture Diagram*.	Logical function architecture
1784123009823	Creating a sender-receiver bus in a *Logical Architecture System Diagram* is now possible using the automatic locking mechanism.	Logical function architecture
1789453458454	The refactoring for splitting logical blocks now supports all kind of ports.	Logical function architecture
1790487868454	Performance on opening and closing diagrams has been improved. Automatic assembly creation on drag and drop into the diagram is 25% faster.	Logical function architecture
1790549898454	In the *Logical Architecture System Diagram*, the graphical representation of a bus is deleted if the last assembly of the bus is deleted.	Logical function architecture
1790764298454	Performance of *Logical Architecture System Diagrams* containing more than 100 ports has been improved.	Logical function architecture
1790766138226	Moving ports in a diagram no longer changes the type of the moved ports. This applies for diagrams of the Logical Function Architecture and the System Software Architecture.	Logical function architecture
1790857888454	Selection of several artifacts in the *Interface Assignment Diagram* has been corrected. In case empty artifacts are accessed, an error will be posted to the log file.	Logical function architecture
1791148942647	Mappings can be created on components and ports inside an *Activity Chain*.	Logical function architecture

19.5.5 AUTOSAR

ID	Issue	Category
1790752950455	During the AUTOSAR export, the attribute **NMGlobal Coordinator Time** is correctly exported.	AUTOSAR
1790799619822	During the AUTOSAR import, the `PDU-TO-FRAME-MAPPING` names are now properly copied.	AUTOSAR
1790853632689	During the AUTOSAR export of a System Description, the signal to data element mapping is correctly exported.	AUTOSAR
1790857022791	During the AUTOSAR export (4.1.1), the baudrate is set for clusters.	AUTOSAR
1791062252791	During the AUTOSAR export, references to data types are exported for operation parameters of client-server-interfaces.	AUTOSAR
1791066448454	During the AUTOSAR 4.0 export, empty data type constraints are no longer exported.	AUTOSAR
1791143720455	A ClassCastException which occurred during the AUTOSAR export has been fixed.	AUTOSAR
1791206209822	During the AUTOSAR import, the initial value of signals is correctly imported.	AUTOSAR

19.5.6 System software architecture

ID	Issue	Category
1787102672791, 1788281279824	The attribute `swTypeID` was added again to the `AbstractSWType` meta class.	System software architecture
1771712049823	*Composition Type Diagram* and *Software Architecture Diagram* share the same routing mode for *Assembly Connectors* now.	System software architecture
1779721580451	A description text has been corrected in the dialog for populating a *Port Type* on an *Interface Assignment Diagram*.	System software architecture
1789453980000	When performing drag and drop for a software component onto a *Software System Diagram*, the ports may be shown or not depending on the **Automatic Figure Completion** toggle state.	System software architecture
1791070239824	*Data Elements* are shown on assembly nets in the *SWC System Editor*.	System software architecture
1791145988226	The refactoring for splitting blocks now supports all kind of ports.	System software architecture

19.5.7 Hardware architecture

ID	Issue	Category
1774807240452	The KBL export property file is loaded and respected each time when the properties are needed. This ensures that changes in the property file are respected directly for the next export.	Hardware architecture
1778052892693	Wrong warnings during the creation of splices have been removed.	Hardware architecture
1778053192693	The keyboard shortcuts for rotating artifacts in diagrams have been changed to <ALT> +<ARROW-LEFT> and <ALT+ARROW-RIGHT>. <SPACE> is now used to scroll within the diagram.	Hardware architecture
1779722358454	The type of the *CPU Type* attribute **Count LIN** has been modified from String to Integer.	Hardware architecture
1790799309000	The line wrapping has been improved in internal labels: '/' and '-' can be used as wrapping characters in internal labels. This option can be enabled via the preferences (**Editors**) and is set to false as default.	Hardware architecture
1790851430452	A pin-type can be dragged into a diagram (electric diagram or wiring harness) to create a pin of that type.	Hardware architecture
1790905210452	When creating a *Core* in a *Wiring Harness Diagram*, the existing schematic connection (or a new one if none is found) will be assigned to the new *Core*. The popup bar on a *Pin* now contains the tool to connect an existing shielding.	Hardware architecture
1790905230452	The diagram synthesis refactoring actions are now available independently from the lock status of the source diagrams. The package selection dialog filters its content no longer for locked elements only.	Hardware architecture
1790905250452	When assigning a *Pin Type* to a *Pin* in the *Wiring Harness Diagram*, the opposite *Pin* is now set on *Inline Connector Pins*, too. If their multiple opposite *Pins* for the assigned *Pin Type*, the first *Pin Type* is used.	Hardware architecture
1791070699823	Point nodes move exactly as the section moves.	Hardware architecture

19.5.8 Geometry

ID	Issue	Category
1791199962693, 1791204942790	In the **Property View**, the offset value of a *Topology Point* can also be displayed and edited in mm now.	Geometry
1791200012693	*Connector Template Diagrams* can be opened via double click.	Geometry
1791200022693	*Topology Edge Point Template Diagrams* can be opened via double click.	Geometry
1791200102693	In the *Geometry Diagram*, it is possible to merge *Topology Segments* even if they are connected to rotated *Connector Locations*.	Geometry

19.5.9 Communication

ID	Issue	Category
14139	An auto-completion combo box has been implemented for filtering signals.	Communication
32709	The DBC import correctly creates Port Communication Requirement and PDU timing information when the corresponding flag on import wizard is set.	Communication
34299	The consistency checks "CD012" and "CD013" contained in the default model check the length of *Topology Segment* and *Installation Location* to avoid routing errors.	Communication
1759467490000, 1773751362791	The attribute `wakeupCapability` is available for the meta classes: *FlexRay ECU Interface*, *CAN ECU Interface* and *LIN ECU Interface*, but is not available for *LIN Connector Type*.	Communication
1771709368218	The name of the *Frame Layout View* is now visible.	Communication
1774839998454	Drag and drop of a bus system into the **Property View** of a FlexRay cluster works now correctly without error.	Communication
1778006302727	The signal connection of the *LIN-Communication* is set for the child *LIN-Schedule* on creation.	Communication
1782604282791	Performance of the DBC import has been improved.	Communication
1787092712689	For the DBC import, the merging options page is now correctly displayed if the software synthesis is activated.	Communication
1788282222791	For the DBC export, a deterministic sort order is now used for the exported components.	Communication

ID	Issue	Category
1790639349823	During the FIBEX import, the software layer is only created if the flag for software synthesis is checked or when the FIBEX file contains functions.	Communication
1790853970455	On the **Signal Transmission** property page of a *PDU Transmission*, assigned *Signal Transmissions* can be dereferenced.	Communication
1790905829051	During signal routing, the owner of each bus routing artifact will be added to the specified variant set.	Communication
1790910669822	During signal routing, the initial value of the Communication Specification contained by the port type is copied to the sent signals of the SW Port.	Communication
1790914949822	The byte Order is always set, when assigning *Signals* to *PDUs* or *PDUs* to *Frames*.	Communication
1791086049822	The handling of multiple mappings in the signal router has been corrected.	Communication
1791147119822	The numerical format for exporting custom communication attributes to DBC has been corrected.	Communication
1791201209822	During the DBC export, the value of the communication attribute definition field is exported as defined (without exponential representation).	Communication
1791201239822	The signal router corrects wrong sending/ receiving relations on the *ECU Interface*, if they are wrong or no longer existing.	Communication
1791201249822	In the frame synthesis dialog, *Communication* packages located in *Product Line Package* hierarchies can be selected.	Communication
1791214962727	In the *FlexRay Scheduling Table*, for the dynamic segment, both the frame transmission and ECU bar are filtered if the frame transmissions should not be displayed.	Communication

19.5.10 Product line management

ID	Issue	Category
32614, 1790547388454	Bus and assembly nets are greyed out if variant highlighting identifies one artifact in the bus system or the assembly net which is not contained in the active variant.	Product line management
1790766318454	Radio buttons in the equipment template table are also displayed when the respective *Architecture Variant* is not locked.	Product line management

ID	Issue	Category
1790963798454	The shortcut menu actions **Include in Active Set**, **Exclude from Active Set** and **Remove from Active Set** work correctly now when executed on ports in a diagram.	Product line management
1791074558454	Variant propagation via metrics has been corrected and optimized.	Product line management
1791151639824	Variant highlighting now works on bus systems also for delegation ports.	Product line management
1791210332716	In the **VM Template View**, the current selection and expand state are maintained after performing database actions and when toggling between the list/tree display mode.	Product line management

19.5.11 Metrics and reports

ID	Issue	Category
17049	In *Metric Diagrams*, data flows of internal loops are now shown in the same color as the *Loop Block*.	Metrics
17454	The source code of a *Calculation Block* can now be edited: > via double click on the *Calculation Block* or the *Source Code* artifact in the **Model View** or > via the shortcut menu **Open with... | Open Source Code in Java Editor**.	Metrics
34773	External jar files can be changed and class paths are updated.	Metrics
1771708368226	*Chart Blocks* are now automatically available in the palette of the *Metric Diagram*. The flag -`DenableChartInReport=true` no longer has to be set.	Metrics
1779772658454	To avoid inconsistencies, the metric source code cache is cleared after performing a model import.	Metrics
1779772952693	The *Metric Diagram* now supports auto-lock functionality for *Context Blocks*.	Metrics
1787097938218	The stack traces of exceptions which occurred during metric executions are now shown in the **Status** view.	Metrics
1787104469824, 1790783268454	Changes in metric source codes can now be discarded when closing the source code editor without saving.	Metrics
1790857098454	Multiple instances of row metrics are now supported in tables.	Metrics

ID	Issue	Category
1789452558218	The method `WorkspaceAdminAdministrator.getActiveWorkspace()` can now be used to access the active workspace from metrics.	Metrics
1790448948218	The source code in the Java editor can now be edited if the *Source Code* artifact is lockable.	Metrics
1790795299824	Creating *Embedded Metric Executors* and *Meta Classes* below *Embedded Metric Executors* is now possible via the shortcut menu.	Metrics
1790857768454	Row metrics work properly now when converting tables into `ITempTables`.	Metrics
1790902859824	Naming conventions have been adapted to work with *Embedded Metric Executors*.	Metrics
1791013238454	Clicking into the result table of a *Calculation Block* no longer causes an error.	Metrics
1782614148454, 1774843839822	It is now possible to re-generate an already opened report.	Reports
1790756249824	The placeholder insert icons are now updated correctly during report definition.	Reports
1790759329824	Report placeholder icons are now refreshed correctly. New generated placeholders work as expected.	Reports
1790905322716	A PDF report is now correctly generated if the zoom factor of the report is set to 100%.	Reports
1790906029822	Metrics triggered via a diagram placeholder will only be executed once.	Reports
1791079259824	The page style of inserted formatted texts will be integrated in the report.	Reports
1791084218454	Not expandable columns will not be resized when generating reports with dynamic tables.	Reports
1791085468454	Tables are correctly inserted in reports with numbering format.	Reports
1791092189822	Page breaks are now handled correctly during report generation.	Reports
1791148759822	Styles of included *Report Modules* are now considered during report generation.	Reports
1791205229823	Multiple report windows can be shown in parallel in the editor area.	Reports

19.5.12 Collaboration

ID	Issue	Category
1791080899823	Creating and accessing URLs now also works correctly if no roles and rights model (authority model) is available.	Collaboration
1791202120452	Life cycle state icons are correctly represented within tables of the **Property View** now.	Collaboration

19.5.13 Administration, authority, installation and migration

ID	Issue	Category
1790489209824	Partial backups can be created by defining a time interval via a start and end commit version of the backup.	Administration
1790491522658	Creating a project backup of a multi-user project no longer requires unreasonably increased hard disk space for storing formatted texts.	Administration
1790549922687	On the middleware license server, the location of the license-db folder can be configured now. Therefore, the variable `-PREEvisionLS.dir` has to be set, e.g. `-DPREEvisionLS.dir=D:/AppServer/tomcat/licenseDB`.	Administration
1790851189822	In the main menu, the **Administration | Change user details** action for changing the user password is available again in multi-user projects.	Administration
1791208762820	The menu item **Initialize current model with default setup** is available for all licenses except the viewer license.	Administration
1790482728454	*Loop Ports* can now be also created within metrics of the authority model.	Authority
1790482738454	For *Metric Contexts* located in the authority model, a **General** property page is now available. The name and description as well as the drop-down lists to choose a *Metric Executor* are available.	Authority
1790488059824	The commit label action is now available in the authority model and can thus be configured with roles and permissions.	Authority
1790690587721	To support installations for which no `SYS` user is available, the schema user can now be created in advance. The database server is then installed into the already existing user schema.	Installation
1790851492649	During 3-tier installation it is no longer required to create a separate tablespace and schema user for storing formatted texts. The OBR table has been moved to the default schema.	Installation

ID	Issue	Category
1771712269823	Labels of busses are now migrated correctly in the Logical Architecture and Software Architecture system diagrams.	Migration
1791081699051	Compile errors that occurred when using the search after migration from 2-tier to 3-tier have been removed.	Migration
1791086250455	Network management artifacts are now referenced properly after migration.	Migration

19.6 Known issues

Changing diagram configurations resets title block position (1790914188454)

In the following scenario, the position of a diagram *Title Block* is incorrectly reset:

1. For a locked diagram, activate a *Diagram Configuration*.
2. Move the *Title Block* and *Legend* within the diagram.
3. Switch to another *Diagram Configuration*.
4. Switch back to the initially selected *Diagram Configuration*.

   The position of the *Title Block* is reset to the default position.

Workaround: Lock the *Title Block Diagram* before moving the *Title Block* in the diagram.

Copy and paste in tables not possible on multi selection (1782614729051)

There are several known issues regarding copy and paste of multiple selected cells in table editors. For example, pasting a multi selection is not possible if the target cells display artifacts which contain child artifacts.

Workaround: Copy and paste single table cells.

LibreOffice freezes when inserting Korean text with Microsoft IME (1790799612716)

When using Microsoft IME and inserting Korean characters into LibreOffice (e.g. a formatted text field or table cell), LibreOffice cannot close the document and freezes.

Problems on moving sheet connectors (1790789160452)

Moving a *Sheet Connector* in the *Wiring Diagram* is only possible when clicking on the exact center of its graphical representation in the diagram. Associated connector link labels are not moved when moving the *Sheet Connector*.

Attribute GenSigStartValue cannot be imported on DBC import (1791205242709)

During the DBC import, the attribute `GenSigStartValue` cannot be imported for signals having set `GenSigStartValue` to "0x80000000" (shown in CANdb++).

Workaround: In the DBC file, replace the value `4294967295` with `2147483647`. `4294967295` is used as placeholder for "undefined".

PNC-Mappings not correctly merged during AUTOSAR import (1791210390455)

During the AUTOSAR import, `PNC-Mappings` are merged based on identical names. In AUTOSAR, no names are defined for `PNC-Mappings`. Thus, `PNC-Mappings` might not be correctly merged during the AUTOSAR import.

DBC import does not merge existing data elements (1791086239824)

During the DBC import with merge function, existing data elements with identical names are not correctly identified and merged. Instead, new data elements are created.

FIBEX import does not create transmissions for signals within multiplexed PDUs (1791295412791)

During the FIBEX import, for signals within a PDU which is referenced by a multiplexed PDU, no transmissions are created.

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