



R 8.5

Release
Notes

Preface

Another CADISON Release is available with the existing CADISON Version. Extensive new- and further developments, special customer expansions and error corrections have been conducted since the Release 8.1.0.

Before the application the users and the CADISON system administrators must be familiar with the new CADISON functions in detail since important modifications can be made in the projects by an improper application.

This document is also available in PDF-Format on our internet page:

http://www.cadison.com/Customers_Care/Updates.aspx

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Installation

Prerequisites

Read the installation guidelines [before the installation](#).

Further information is under "Installation prerequisites" in the document existing on the installation-DVD: "CADISON_Installation.pdf".

Update existing installations

Category: Administration

Read the installation guidelines beforehand.

Further information is under "Notes on update installation" in the document existing on the installation-DVD: "CADISON_Installation.pdf".

The installation itself

Category: Administration

Read the installation guidelines beforehand.

Further information is under "Installation-process" in the document existing on the installation-DVD: "CADISON_Installation.pdf".

Reinstallation of CADISON R8.5

Read the installation guidelines beforehand.

Further information is on the document existing on the installation-DVD: "CADISON_Installation.pdf".

Post-installation / Uninstalling individual modules

The setup supports the post-installation and the subsequent uninstalling of individual modules.

The setup "CADISON" can be started via "Start > Settings > System control > Software" and "Change program" can be selected.

Read the installation guidelines beforehand.

Further information is in the document existing on the installation-DVD: "CADISON_Installation.pdf".

Installing the network license manager (NLM)

Start the setup of CADISON R8.5 DVD under NLM\Setup.exe.

Further information is in the document existing on the installation-DVD: "CADISON_Licensemanager.pdf".

Licensing

Category: Administration

Further information is in the document existing on the installations-DVD: "CADISON_Licensemanager.pdf".

Scope of delivery

With the delivery of CADISON R8.5 you obtain:

- A program-DVD CADISON Release R8.5

- Possibly a DVD with the adapted customer object model
- Release notes CADISON R8.5 (as PDF and CHM on the DVD)

List of function modifications

Allocating a measuring point to a multipoint-armature	Object model
Number of parallel conversions in UpdateDBs	CADISON Admin
No connection to template database	CADISON General
Updating the system tree in Engineer	CADISON Engineer
Text width for labeling function	Designer General
Drawing new pipelines	Designer General
List of errors in consistency check	Designer General
Project-comprehensive copying and non-imported files	Designer General
Screw-length calculation for blind hole connections	3D-Designer
Simultaneous deletion of several primitives	Matpipe
Changes in object model	Object model Plant design

Please read the following! [Hints regarding the objectmodel](#)

List of new functions

In CADISON Release 8.5 the following new functions were added:

CADISON 3D-Designer

- Bended pipeline
- Extrusion to arch
- Extrusion to reduction
- Rotate components
- Connect to cone
- HVAC, Ventilation/Air duct

MATPIPE

- Diverse

A detailed description can be found in the program help, which is updated regularly and available for download under www.cadison.com.

General CADISON

General

Performance optimization

Optimizations were conducted for the following function:

- Create and insert large assembly groups
- Optimized application of ow_TypeMaster objects
- Implementation of new variables in CADISON.INI for optimized MultiUser-access
- Optimization in case of MultiUser-access
- Increment the properties "DEFAULTOBJECTCOUNT"
- Project blocks while deleting objects
- Optimization in case of "Work copy -> Copy objects" / "Outsource"
- Create new database and copy object model
- The internal administration of the currently connected databases was slightly optimized
- Performance-Optimization while extracting property values
- Performance-Optimization while logging changes

Project-comprehensive copying and non-imported files

If objects are copied with the function "Project-comprehensive copying", CADISON also automatically copies the components of the selected objects. However if these components are documents / drawings, which are not imported, then CADISON aborts the copy process without notification.

From this version the documents which are secondary as components to other objects, are ignored in case of the function "Project-comprehensive copying", if they have not been imported to the database. If the components deal with a drawing which is not imported to the database, then the copy process is still aborted.

No connection to template database

If CADISON cannot connect to the template database while starting, then a corresponding message is displayed. If there is an internal database problem, then so far a database error was not displayed. From this version in case of an internal database problem the internal Versant-error message is logged in the cadison.err in CADISON-Project directory.

Copying objects with circuit references

If all the subordinate objects are selected in the copy-dialog, and these subordinate objects contain a circuit reference, then so far CADISON is aborted if the copy process was started with "OK"-button. From this version CADISON intercepts circuit references in case of the subordinate objects. This error could occur in case of different types of copying processes (e.g. copy work copy-objects, create assemblies, etc.).

Processing memo fields

The window for processing memo fields was not displayed correctly under Windows Vista. The title bar and the close-button were marked incorrectly, and the click field for the close-button was assessed incorrectly. From this version the dialog is displayed correctly under Windows Vista.

Rename file with unicode-indicator

So far it was not possible to enter a file name with the command "Rename file", which contains a unicode-indicator. This error has been eliminated.

Invalid character while renaming a file

If the context menu command "Rename file" was applied in CADISON, invalid characters could be entered so far so that subsequently the file could not be read out correctly anymore. A message is displayed from this version that the file name contains invalid character. If an invalid character is entered for a file name in case of the command "Complete and number", then the file is not renamed. However a message does not appear.

Relocating counters from tab "PGR_COUNTER" to "PGR_GENERAL"

While processing or displaying definitions of property in case of some counters it may happen that they are relocated by CADISON from the tab PGR_COUNTER to the tab PGR_GENERAL. Status: eliminated

Crash after importing files

A crash can occur in rare cases if all the files were imported in case of a project and thereby many large files were included. Thereby all the files were imported internally, however CADISON crashes during an internal correction.
Status: eliminated

Copying projects with contained revised isometric drawings

If a project was copied with "Work copy -> Copy objects", which contains revised isometric drawings, it may happen that the associated revised pipelines were not copied if one of the copy options

"Reset object revision"

"Reset document revision"

"Consolidate automatic" was activated.

The isometric-revision objects were not copied in case of the other copy functions, if the option "Reset document revision" was selected.

Invalid graphical representations in original database after copying

If a revised isometry-drawing is copied in another database via "Work copy -> Copy objects" and in addition the option "Reset document revisions" was selected, invalid graphical representations were inserted in the revision drawing in the original database. This error has been eliminated.

Typing error in message while aborting an outsourcing / copy process

If the command "Outsource", "Integrate" or "Work copy -> Copy objects" was aborted, then the cancellation message contains a typing error in the German version.

Dictionary cannot be changed in the translation-dialog

In CADISON 8 the current dictionary could not be changed also in case of corresponding user authorization in the translation-dialog. The appropriate buttons were deactivated. This error has been eliminated.

Crash in case of displaying internal messages / logging errors

An error was contained in the CPP-Views while displaying or logging messages for the status lines in the dialogs, which could take care for a crash at some locations.

The CPP-Views-library was corrected.

Error while displaying WAIT_UNLOCK-Messages in CADISON.ERR

There was an error while displaying WAIT_UNLOCK-Messages in the CADISON.ERR in case of database blocks. The object to be displayed was incorrectly evaluated.

No Maptipe-Selector-License inspection

From this version a Matpipe-Selector-License is not charged anymore while allocating a catalog entry via the Matpipe-Selector.

New Versant-Patch 2

CADISON 8.5 applies the Versant-Version 7.0.1.4, Patch 2.

Exchange of drawings with block drawing during catalog allocation

If another catalog entry is given to the object which refers to another DWG-Block, then this does not affect the drawing. It is now functional in R8.5

Shut down while deleting object in tabular view of structure window

Select the command "Open structure window" in Designer in context menu of an object (e.g. valve in 2D), switch to the window in the tabular view and delete the valve there. The Designer shuts down or hangs. This error has now been eliminated in R8.5. If the previous object was deleted in tabular view, the dialog closes automatically.

New default value for CCC-Attribute "Status of catalog data"

While assigning a catalog entry to an object the CCC-attribute "Status of catalog data" (OBJECT_STATUS) is set to the value "Catalog entry assigned" (internal value "ASSIGNED") from this version. Thus in case of CCC-test it can be identified in a better way which objects have already been checked, and in case of which of them new catalog entries were assigned since the last test.

Completing and numbering in table selection

If the function "Select and Number" is called from the context menu of an object from the table, only the elements currently selected in the table are processed. However if the data type LISTFROMFILE is used by the attribute to be filled, then till now all the objects were completed in the table. This error has been eliminated.

Shut down while saving a view configuration

A file name must be entered for the .CAC-File to be generated if the command to save a view configuration is called (from the context menu by right clicking in a free table- or tree field). Previously CADISON crashed if an invalid file name was entered, or generally if the file could not be written. From this version an error message appears.

Updating ObjectInspector

If favourite attributes have not been defined for an object type, then till now the ObjectInspector was not updated if a corresponding object was selected. Since the ObjectInspector can display all the object attributes, from this version the ObjectInspector will be updated only if favourites were not defined for the selected object type.

Sorting in ObjectInspector

If a sorting of attributes was set in the edit-dialog, then previously the sorting was conducted automatically in the ObjectInspector. However the sequence of attributes in favourite-flag in the ObjectInspector is specified by the table configuration of the ObjectInspector. Therefore from this version in the ObjectInspector, a sorting of attributes will not be conducted in Favourite-flag.

Command "Process object" in "Structure view"-Menu and Toolbar of PDM

Till now the command "Process object" was only available in the ProjectEngineer in the context menu in tree. From this version the command can also be called from the menu and by the toolbar.

Context menu in CADISON System-Tree

Till now in CADISON-System tree, the context menu was also available for contents from

the project databases, to which the current user does not have any authorization. From this version the context menu is not displayed anymore in the system tree if the current user does not have access authorization to the project.

Report generator

Error in the reports if the key word "hasTableOnly" is entered document-attribute.

Errors will be caused in reports if report template is defined with the attribute "hasTableOnly".
E.g. sometimes the number of items is hidden unintentionally in the read view, or an object with number 1 was not displayed correctly.

Double initialization of report-start object and database blocks

If the setting CALCALWAYS=OFF was activated in CADISON.INI, the user was asked whether he would like to recalculate the calculated properties in case of the report-start object. If the user enters "yes", then these calculated properties were recalculated twice.

Furthermore the calculation of these properties blocks the report-start object till the report has been completed. Now the start object will be released immediately after the recalculation of properties.

Also refer to Administration

Object blocks while creating report

While creating the report all the objects which are released in the report were blocked in the database. So far these object blocks were removed only after creating the report, so that while creating a report any other user cannot change these objects.

From this version the objects are automatically released while creating the report.

New report generator does not evaluate the key word "<FILEREFFERENCE:PROPERTY_NAME>" properly

The new report generator does not always evaluate the key word <FILEREFFERENCE:PROPERTY_NAME> in report template in a proper manner. Keywords with limits which are in the header of the current page are sometimes not exchanged with the content.

Different version status of report templates

From this version CADISON is in the position to administer different versions of the report templates. Unique IDs can be assigned to the report templates by the new entry "APP_GUID=<xxx>" in the start.tpl-file of reports. Hence CADISON is in the position to update the previously created reports which were created with older report templates with the originally used report template.

Report-Mapping file report.tpm

From this version it is possible to rename report templates or to relocate to report directory. So far subsequently CADISON could not update previously created reports anymore.

If CADISON does not locate a required report template while updating, then a search is carried out for the mapping-file report.tpm in the report-directory. If a report is renamed or relocated, the mapping-file must be compiled and a corresponding entry must be created.

Div. errors in connection with reports

CADISON shuts down while creating report in the background if an appropriate authorization is not present. (The authorization "Create object "in standard authorization must be set to "Create").

In the user administration, reports can be created only from the menu "Project/Report" without the options "Insert in the database" and "Create in the background".

Summing up more than one property in Excel reports

Until now in Excel reports it was only possible to sum up one property. In file start.tpl in line "ADD=" only one property name could be written. From this version on more than one property can be summed up. Each property can be written into the ADD-line, separated by a comma. Example:

```
SUM=1  
ADD=QUANTITY,MASS,PAINT
```

This command activates the summing function and the properties QUANTITY, MASS und PAINT are summed up.

Enhancement of PROPERTYFILTER in Excel reports

In START.TPL of an Excel report a line for PROPERTYFILTER can affect in the filtering of certain properties. From this version on the operators LIKE and NOTLIKE may be used. A wildcard comparison can be done.

Object model

Overview

[Transfer of insulation thickness to objects](#)

[Change in object class Shoe connections](#)

[Change in object class Piping anchorage](#)

[Change in object class Reduction](#)

[Change in object class End cap](#)

[Change in object class Cross piece](#)

[Change in object class Tee](#)

[Change in object class Pipe](#)

[Change in object class Wiring section](#)

[Change in object class Arch](#)

[Change in object class Pipeline](#)

[Change in object class Medium](#)

[Change of properties of column Catalog_use](#)

Notes - Object model

The colors of the pipelines are accepted from the medium. In the previous CADISON Versions the color of a pipeline had to be changed at the pipeline itself.

Many customers have lists of medium in which the color is assigned to the medium. While changing the medium color the color of the pipeline should also change. In CADISON 8.5 the medium color and the type of line is passed on to the pipeline and the wiring section, so that these settings must only be changed via the medium.

Warning: Change the medium color before you open a drawing (adjustment with the pipeline colors)

Object model changes

Allocating a measuring point to a Multiport-valve

So far it has not been defined in the MSR-Object model that a measuring point can be allocated to a multiport-valve.

This restriction has been removed from this version.

The following changes were made in the object class weld seam

The following properties are completed via the pipeline and subsequently can be changed.

Welder	\$FORMULA=LINKABLE=PHI-PLIN.WELDER\$
Welder number	\$FORMULA=LINKABLE=PHI-PLIN.WELDER_NO\$
Welder certificate	\$FORMULA=LINKABLE=PHI-PLIN.WELDER_CERT\$
Test method	\$FORMULA=LINKABLE=PHI-PLIN.APPR_METHOD\$
Additional material	\$FORMULA=LINKABLE=PHI-PLIN.ADD_MAT\$

Changing the identification letters according to ISO 10628

The defaults for new objects are:

PHI-AGIT	Agitator	R
PHI-CMPR	Compressor	V
PHI-CNTR	Centrifuge	A
PHI-DRYR	Dryer	T
PHI-PRSS	Forming machine	A
PHI-HEXC	Heat exchanger	W
PHI-COMM	Comminution machine	Z
PHI-PUMP	Pump	P
PHI-STRN	Straining device	F
PHI-TANK	Tank	B
PHI-CONV	Conveyor	A
PHI-WEIG	Weighing machine	A
PHI-PHOS	Hose	S
PHI-PEQI	Div.RLT-Elements	X
PHI-PCMP	Compressor	X
PHI-PFLT	Filter	F
PHI-PVLE	Valve (corner)	V
PHI-PVL3	Valve (three-way)	V
PHI-PVL4	Valve (four-way)	V
PHI-PVLS	Valve (direct)	V
PHI-PSIL	Silencer	A
PHI-STOR	Storage	A
PHI-CHIM	Chimney	A
PHI-TORC	Torch	A
PHI-CTWR	Cooling tower	A
PHI-STEA	Vaporizer/Boiler	D

Source: ISO 10628

D.2 Code letters for apparatus and machinery

Code letter	Subject
A	Equipment or machine, if it cannot be classified under one of the following groups
B	Vessels, tanks, bins, silos
C	Chemical reactors
D	Steam generators, gas generators, furnaces
F	Filters, liquid filters, gas filters, screening machines, separators
G	Gears
H	Lifting, conveying and transport
K	Columns
M	Electric motors
P	Pumps
R	Agitators, vessels with agitator, mixers, kneaders, stirres
S	Centrifuges
T	Driers
V	Compressors, vacuum pumps, blowers, fans
W	Heat exchangers
X	Feeding and distribution facilities, special equipment
Y	Drives (drive units), not electric motors
Z	Crushing machines, grinding machines

D.3 Code letters for valves and fittings

Code letter	Subject
B	Shut-off valve
F	Filter, strainer, dirt trap, sieve (in piping)
G	Sight glass
H	Control valve
K	Steam trap
R	Check valve
S	Valve/fitting with safety function (e.g. rupture disk)
V	Valve, general
X	Other valves/fittings by definition
Y	Other valves/fittings with safety function by definition
Z	Orifice plate, blind disk

D.4 Code letters for piping

Code letter	Subject
P, Q	Pipe, pipeline, duct
R	Item of piping
S	Hose
T	Conduit (open), trench
U	Canal (underground)

Select lists for LINKABLE-Properties

If a property about a LINKABLE-formula refers to a property of a generic object, and this property has deposited a select list, then CADISON displays only the internal database content of the select list for the target property (which contains the LINKABLE-Formula), and not the text which was defined for the display on the screen.

An error occurred while determining the "Readable" text for the target property, due to which so far only the internal database content was displayed, and not the readable text. This error has been eliminated.

Objects cannot be selected for air-duct

If the ventilation module has been installed and the filter has been activated, then the model object display is blank in the ObjectManager. All the ventilating elements are maintained in the discipline Plant Design. This has not been corrected in R8.5.

Change in object class Shoe fitting

The values 5 and 10 were added in Property Radius ratio

Modification

RAD_FACTOR Radius ratio old 0.5: 1: 1.5: 2.5 new 0.5: 1: 1.5: 2.5: 5: 10

New properties

POSITION2 Position in model with drawing number

In the following properties the values are accepted from the pipeline and if required can be overwritten:

\$FORMULA=LINKABLE=PHI-PLIN.INSU_THICK\$

Transfer of insulation thickness to objects

Div RLT Element
Expansion joint
Armature corner
Three-way armature

Dirt trap
PHI-PVLS Direct valve

PHI-PSIL
PHI-PFIT
PHI-MWAY Manhole
PHI-CHIM
PHI-TORC

PHI-PVLM Valve (Multiport)
PHI-POLT Extrusion/Outlet
PHI-PYTE Y-Piece
PHI-PSAD Branch saddle
PHI-PELT Shoe connections

In the following properties the values are accepted from the pipeline and if required can be overwritten:

`$FORMULA=LINKABLE=PHI-PLIN.INSU_THICK$`

Change in object class Piping anchorage

The object description was adapted to the descriptions for pipe 2

Old

FH%Spring hanger: HA%Fixed Hanger: KH%Constant hanger: FP%Anchor point: FL%Pipe guide: GL%Slide bearing: AX%Axial stop: QS%Cross stop: FLAX%Guide with axial stop: GLAX%Slide bearing with axial stop: ST%Fixed bracket: FS%Spring brackets: QSAX%Cross and axial stop

New

FH%Spring hanger: SH%Fixed hanger: KH%Constant hanger: FP%Anchor point: FL%Pipe guide: GL%Slide bearing: AX%Axial stop: QS%Cross stop: FLAX%Pipe guide+Axial stop: GLAX%Slide bearing+axial stop: ST%Fixed support: FS%General spring brackets: QSAX%Cross stop+axial stop

Change in object class Reduction

New properties:

POSITION	Position in diagram with sheet number
POSITION1	Position in diagram with drawing number
X_COORDPID	X-Coordinate in diagram
Y_COORDPID	Y-Coordinate in diagram
POSITION2	Position in model with drawing number

In the following properties the values are accepted from the pipeline and if required can be overwritten:

`$FORMULA=LINKABLE=PHI-PLIN.INSU_THICK$`

Change in object class End cap

New properties:

POSITION	Position in formula with sheet number
POSITION1	Position in formula with drawing number
X_COORDPID	X-Coordinate in formula
Y_COORDPID	Y-Coordinate in formula
POSITION2	Position in model with drawing number

In the following properties the values are accepted from the pipeline and if required can be overwritten:

`$FORMULA=LINKABLE=PHI-PLIN.INSU_THICK$`

Change in object class Cross piece

New properties:

POSITION2 Position in model with drawing number

In the following properties the values are accepted from the pipeline and if required can be overwritten:

\$FORMULA=LINKABLE=PHI-PLIN.INSU_THICK\$

Change in object class Tee

Hint: This function is only available for customers with a special objectmodel extension.

New properties

POSITION	Position in diagram with sheet number
POSITION1	Position in diagram with drawing number
X_COORDPID	X-Coordinate in diagram
Y_COORDPID	Y-Coordinate in diagram
POSITION2	Position in model with drawing number

In the following properties the values are accepted from the pipeline and if required can be overwritten:

\$FORMULA=LINKABLE=PHI-PLIN.INSU_THICK\$

Change in object class Pipe

New properties:

POSITION2 Position in model with drawing number

In the following properties the values are accepted from the pipeline and if required can be overwritten:

\$FORMULA=LINKABLE=PHI-PLIN.INSU_THICK\$

Change in object class Wiring section

Function modification

		old	new
FLOWRATE	Flow rate	@.@	@.@@@

In the following properties the values are accepted from the pipeline and if required can be overwritten:

INSU_THICK	Insulation thickness	\$FORMULA=LINKABLE=PHI-PLIN.INSU_THICK\$
------------	----------------------	--

Change in object class Arch

The values 5 and 10 were added in Property Radius ratio

Change

RAD_FACTOR Radius ratio old 0.5: 1: 1.5: 2.5 new 0.5: 1: 1.5: 2.5: 5: 10

New properties

POSITION2 Position in model with drawing number

In the following properties the values are accepted from the pipeline and if required can be overwritten:

\$FORMULA=LINKABLE=PHI-PLIN.INSU_THICK\$

Change in object class Pipeline

In the following properties the values are accepted from the medium and if required can be overwritten:

MASSFLOW	Mass flow	\$FORMULA=LINKABLE=PHI-MEDI.MASSFLOW\$
PRESSURE	Operating pressure	\$FORMULA=LINKABLE=PHI-MEDI.PRESSURE\$
TEMPERATURE	Operating temperature	\$FORMULA=LINKABLE=PHI-MEDI.TEMPERATURE\$

In the following properties the values are accepted from the medium

GEOM_COL	CAD Color number	PHI-MEDI:PHI-MEDC.GEOM_COL
GEOM_LT	CAD Line type	PHI-MEDI:PHI-MEDC.GEOM_LT
GEOM_WID	CAD Line width	PHI-MEDI:PHI-MEDC.GEOM_WID

Modification

RAD_FACTOR	Radius ratio old	0.5: 1: 1.5: 2.5	new	0.5: 1: 1.5: 2.5: 5: 10
------------	------------------	------------------	-----	-------------------------

New properties were inserted in tab 300-Characteristics

WELDER	Welder	PGR_SPEC
WELDER_NO	Welder number	PGR_SPEC
WELDER_CERT	Welder certificate	PGR_SPEC
APPR_METHOD	Testing method	PGR_SPEC
ADD_MAT	Additional material	PGR_SPEC
INSU_THICK	Insulation thickness	PGR_INSULATION

The user can now pre-allocate via the pipeline.

Change in object class Medium

Format Medium

		old	new
FLOWRATE	Flow rate	@.@@	@.@@@
PH_VALUE	PH-value	@	@.@
MASSFLOW	Mass flow	@.@@	@.@@@
MASSFLOW_MIN	Mass flow min.	@.@	@.@@@
MASSFLOW_MAX	Mass flow max.	@.@	@.@@@

The following properties are relocated to the tab:

210-Temperature

TEMP_MIN	Min. operation temperature
TEMPERATURE	Operation temperature
TEMP_MAX	Max. operation temperature

211-Pressure

PRESS_MIN	Min. operating pressure
PRESSURE	Operating pressure
PRESS_MAX	Max. operating pressure

Change of properties from column Catalog_use

(These are not displayed anymore in Matpipe)

All properties were changed

_INT

ASSEMBLY_ID

All Proptypes have the following content

CALCALWAYS -

CALCULATE -

QUICKLINK -

LINKABLE -

readonly -

NOOVERWRITE -

COUNTABLE -

DIRECTMAJOR -

NOOVERWRITE,GRAPHICAL -

MAJORQUICKLINK -

These properties could not be changed in Matpipe, but were nevertheless displayed.

With this change in Matpipe in the selection of properties only those properties are displayed, which can also be changed, here the displayed properties are reduced.

Designer

General Designer

Show/Hide function Attribute

For attributes which include lower case letters, they can be hidden but cannot be displayed anymore.
Status: eliminated

No grid coordinates

If several 2D- and Electrical-drawings are loaded in Designer, and thereby a drawing is loaded which still does not contain any title blocks, then it may happen that the objects placed in this drawing do not contain any grid coordinates even after inserting a title block.
Status: eliminated

Text width for label function

The general label function "Label object..." now uses the width factor of the current text style.

Drive is on an incorrect layer

It can be defined via settings on which layer an object should be inserted if it is positioned in a drawing. However for drives (Object type PHI-DRIV) a setting was not available so that the current layer was always used.

Drawing new pipelines and air ducts

Before pipelines are able to be drawn in Designer, the required database objects "Medium" and "Pipe class" must previously be created manually, and before a pipeline could be drawn in a 3D-drawing, the pipe class must also be assigned manually to a pipe class. These processes are automatically executed from this version.

If a medium is not available, then a default-medium is created automatically. If a pipe class still does not exist, then similarly a default pipe class is created. If a pipeline is drawn in a layout plan (either new or by drawing adjustment), the pipe class is automatically assigned to a catalog entry.

For pipelines the pipe catalog "RKL16STC" is used for the automatic catalog allocation via basic setting. For air duct the catalog ITF_RECTANGULAR_DUCT is preselected.

In order to use another pipe class via basic setting, the variable AUTO_PIPESPEC or AUTO_DUCTSPEC must be entered in CADISON.INI under the section [PHI-CADISON]:

```
[PHI-CADISON]  
AUTO_PIPESPEC=Catalog_ID  
AUTO_DUCTSPEC=Catalog_ID
```

If a catalog entry should not be allocated automatically, then the variable

AUTO_PIPESPEC and AUTO_DUCTPEC must be set to OFF:

```
[PHI-CADISON]
AUTO_PIPESPEC=OFF
AUTO_DUCTPEC=OFF
```

List of errors in consistency check

So far a line could be selected in the list of errors of the consistency check in which the number was clicked in the first column. Now the entire line could be used for selection. In addition, the currently selected line is displayed only if the consistency check dialog is inactive.

XREFs: Discharging nested XREF's

If XREF which contains other XREF's is discharged, then a message is displayed while calling the next CADISON-command that the object reactors were deactivated.
Status: eliminated

XREFs: Unicode-file name in XREF-Dialog

File names which contain unicode characters were displayed incorrectly in XREF-Dialog. Question marks were used instead of the unicode characters. Similarly the element which displays the preview of DWG-drawings is not unicode-capable. A preview was not displayed by files which contain unicodes.
Status: eliminated

XREFs: Invalid paths in XREF-Dialog

If a project is transferred from a CADISON Domain to another domain and a drawing which contains XRef's is opened, then partially the path of the old environment was displayed in CADISON XREF-Dialog. If the corresponding drawing was then selected in XREF-Dialog, then the Designer shuts down. Status: eliminated

New and old object inspector

If the shortcut CTRL+A is pressed in a drawing, then the object inspector is displayed for the object which is under the current cross line position. Similarly the object inspector can be opened from the drawing, in which the context menu is used in the drawing (which is displayed if the cross line is positioned on an object, keeps the CTRL-key pressed and simultaneously right clicks). In the context menu there is a command to open the object inspector.

So far the new dockable object inspector was opened by the shortcut CTRL+A, whereas by the context menu the old, non-dockable object inspector was opened. From this version only the dockable object inspector is used by both the commands.

Manual counter for Copy&Paste in AutoCAD

If CADISON-Elements are copied by Copy&Paste in AutoCAD, and these elements use manual counters (attribute "Increment counter" is on "never increment"), the counter was deleted in case of the copied elements (attribute "counting number"). From this version the manual counters are retained for the copied elements.

Drawing adjustment after "Draw pipeline further"

If a drawing adjustment was conducted on a 2D-wiring section or a 3D-center line after using the command "Draw pipeline further", the 2D-wiring section and the 3D-center line could not be drawn respectively. Instead the command "Draw pipeline further" was recalled.

Process fields in dockable dialogs

If a data field was processed and the cursor was moved outside the dialog in a dockable CADISON Dialog (Tree-Dialog, Table-Dialog and Object Inspector), then processing was aborted. Thus among other things entries could not be selected from select lists, if the select list was displayed on the basis of its length via the dialog.

From this version the processing is not aborted anymore if the mouse is moved from the field of the dockable dialog.

No reaction in case of open dockable table

If the dockable table was open in Designer and an element that is not displayed in the table was selected in the drawing, then the Designer could be paused for a few minutes and not react anymore.

Status: eliminated

Function expansion consistency checker

The consistency check is used to check the consistency of attributes like nominal width or the nominal pressure on the wiring section which is specified by the user via start- and end point. The detailed test criteria are specified in the configuration file.../CADISON/config/german/common/cmn_chk.cck.

All the elements of the wiring section are checked. Thereby the attributes of an element are checked for consistency with the previous element. Similarly so far the consistency was always checked contrary to the 1st element.

Particularly in case of the consistency check of nominal width the test towards the first elements always leads to superfluous error messages if there are reductions in the wiring section. In such cases for e.g. all the subsequent elements complain about the reduction even though a constructive error is present.

Hence the dialog was expanded to the option "Check for start element" for the consistency check in the field of test criteria. If the option is activated then the test is carried out always towards the start element. Otherwise this test does not take place. The availability of this option is controlled via the above mentioned configuration file. In particular in case of nominal width tests this results in the display of only the actual inconsistencies.

The configuration file was expanded to "Check_NOT_First_Element". The option is deactivated with OFF. The option is available with ON and is not checked towards the first element by default.

```
#Display name; #Parameter1: Comparison operator, Parameter2: Comparison operator, Parameter n: Comparison operator, ...; Check_NOT_First_Element
```

In case of specifying the start- and end element inadvertently snapped center lines are not allowed in case of searching a path and basically leads to the message "Path not

located". Hence the snap-function used here is modified in such a way that 3D-center lines cannot be snapped anymore.

Problems with context menu in Designer under Windows Vista

If the CADISON context menu is called in Designer under Windows Vista in a drawing, then so far the context menu contains many separators between the menu items.

If the escape-key is pressed subsequently after displaying the context menu or is clicked outside the context menu, then the context menu is closed. However so far after closing the context menu AutoCAD was blocked by CADISON under Windows Vista, so that AutoCAD does not react to any other inputs. The operation could be carried out only after the escape key is pressed again.

From this version the context menu is displayed correctly under Windows Vista, and it can also be closed without problems.

Attribute names written in lower case letters in symbol editor

If an attribute was inserted in CADISON symbol editor, then previously the attribute name was always converted to capital letters. Thus CADISON-Properties which contained lower case letters could never be marked. This restriction has been removed from this version. Only the internal CADISON-Properties which begin with "P_" are still used as attribute names in capital letters, all the other property names are used as attribute names without any change.

Several function calls from label dialog

If a button is pressed in the label dialog, upon which an input must be made in AutoCAD (e.g. an object selection, input of a text height, placing a label), then so far all the other buttons were available further in the label dialog. If one of these buttons was pressed without having completed the current running process, then the Designer could crash. Therefore from this version all the buttons which require an interaction with AutoCAD are deactivated as long as till the current process was completed.

Selection of the object to be labeled

If the button "Apply" is called in the label dialog, then the object to be labeled must be selected. If the selection process is ended instead of an object selection by pressing the RETURN-key, then so far the function was not aborted because possibly incorrect objects were labeled. This error has been eliminated.

Copy&Paste-Operation in AutoCAD with option "Grafic"

If the AutoCAD-Function "Copy&Paste" is used along with the CADISON-Option "Grafic" and the AutoCAD-Diagram is subsequently insert in the target drawing, then the internally required database information was deleted from the original drawing and transferred to the target drawing. Thus some Designer-commands could not be used anymore with the geometry in the original drawing, for e.g. "Move object to pipeline", "Search for path" or "Create isometry".

From this version the information is not lost from the original drawing anymore but are copied in the target drawing.

Note: The option "Grafic" should be used if CADISON-Elements must move a drawing to another drawing. This means that while using the option "Diagram" and after inserting the diagram in another drawing the diagram should be deleted from the original drawing. As long as the geometry is not deleted from the original drawing, all the internally required data is not available in the target drawing, because possibly individual CADISON-commands do not function correctly.

Shut down during checking drawing

The drawing test could shut down in rare cases. This particularly takes place if a reference to database elements was present in the drawing, but these database objects were not available anymore. The designer could shut down if an attempt is made via the drawing test to restore this connection automatically.

PDF-Creation

The PDF-Creation of AutoCAD-drawings is now carried out without using the line thicknesses. Thus small texts can be read better in the PDF-files.

Automatic PDF-Creation while saving AutoCAD-Drawings

From this version the attribute "PDF_EXPORT" permits the setting "automatic while saving" for CAD-Drawings. If this setting is selected and a drawing is saved in AutoCAD by the save command in AutoCAD, then a PDF-file is generated automatically by the saved drawing. Thereby the general PDF-settings of the CADISON PDF-Exporter are applicable.

PID-Designer

Mirrored attributes in labels

If a symbol is placed and in doing so is directly applied to another object, then sometimes the symbol must be mirrored so that it can be attached. So far in this process it may happen that the labels in symbol were also mirrored by CADISON while the automatic arrangement of the label was not corrected. This error was eliminated.

Incorrect placement of labels in case of mirrored symbols

If a symbol is placed and in doing so is directly applied to another object, then sometimes the symbol must be rotated and mirrored so that it can be attached. In case of specific reflections it may occur that though the symbol was rotated and mirrored, the texts that were included in the symbol were not. This error was eliminated.

3D-Designer

Drawing adjustment to connection

If drawing adjustment is called for a connection, then so far the old connection assistant from CADISON R6 was displayed. The correct connection assistant is displayed from this version.

Problems with the DCL files in the Russian version.

The DCL files were installed in the Unicode Format in CADISON 8.1, which caused various problems in CADISON Designer, like error message while opening the Isogen dialog box. This problem was corrected in CADISON 8.5, in which the DCL files are installed in ANSI Format with the Russian code page.

Imported files in case of a XREF-Processing

If a drawing is open in Designer, which contains XREF's, then another user can import these XREF-drawings to the database, so that the XREF-drawings do not exist anymore in the project directory. If the CADISON XREF-Dialog is called in Designer in case of the opened main drawing, then the Designer shuts down. This error has been eliminated.

Command "continuous pipeline"

If the command "Draw pipeline further" is called, and a pipe is selected as a reference object instead of an existing 3D-center line, then though the pipeline dialog appears, a medium and a pipe class is not selected. In addition it is also not possible to select these objects manually. From this version while selecting any pipeline element generally in the pipeline dialog the applied medium and the applied pipe class of the associated pipeline will be displayed.

Screw length calculation in case of blind hole connections

The properties SCREW_NUM and HOLE_DEPTH (hole depth) are applied for Standard-Screw length calculations. There are additional properties BHOLE_DEPTH (blind hole depth) for additional blind hole connections, which must be generated in addition to the standard-screw connections. However this property is not observed in case of the standard-screw connections.

In case of a "Flange - Flange with blind hole"-connection, it can be confusing if HOLE_DEPTH is specified instead of BHOLE_DEPTH. For this purpose, this version will automatically use the value of BHOLE_DEPTH in case of the connection "Flange - Flange with blind hole", if HOLE_DEPTH is same as "0".

Incorrect display of rectangular ventilation elements

Most of the rectangular ventilation elements are displayed incorrectly in a shaded display mode by AutoCAD. The even element surfaces are filled with color gradient by AutoCAD like curved surfaces. Depending upon the view it cannot be identified that the rectangular elements are angular and not round.

In this version the direct rectangular channel segments and the rectangular arches are displayed correctly in shaded mode by AutoCAD.

AutoCAD error message while opening the drawing

An AutoCAD error message appears while opening a drawing and all CADISON drawing objects have lost the connection to database. However open the drawing, repair with AutoCAD test and then save and close it. While reopening the error message reappears. This error is now trapped in R8.5.

Faulty creation of drawing for CADISON 3D-Elements

Depending on the settings of the visual style which is active in AutoCAD, it may happen that a faulty drawing was created for CADISON 3D-Elements (pipeline elements, ventilation elements and cable channel elements). Especially while printing with the option "Cryptic" the geometry contains additional lines on the print-out. This error has been eliminated.

N-angle displayed incorrectly in 3D graphic module (3d-Edge, Render..)

The inner pipe of the N-angle is displayed incorrectly in 3D-Graphic module. This is corrected in R8.5.

For the function arch between 2 pipes the cutting angle is not included

While calculating, an angle is included in Property W of the arch. This should be included in the radian measure. This was transferred in levels to the Property. Hence the angle was wrong for the arch and further calculations were therefore made incorrectly in CADISON.

Generating T-pieces by center line allocation

All components which are created by the center line allocation are automatically subordinated to the pipeline to which the selected center line belongs. However from this version tees are not allocated automatically to the pipeline anymore since the T-pieces should belong to that pipeline with which they are connected via the connection points 1 and 2, not via outlet (connection point 3). From this version the generated T-pieces are always allocated to the pipeline with which they are connected via the connection points 1 and 2.

Allocation of T-pieces to a pipeline

As soon as objects are connected via their connection points in Designer, a search is made for suitable higher-level objects, and the connected objects are automatically subordinated to these. Thus one can automatically be associated with pipelines and logical equipments. So far T-pieces were also allocated if something was connected to them via the branch (connection point 3). Thereby it may happen that the T-piece was subordinated to the outgoing pipeline.

From this version allocations are not executed anymore for T-pieces if something is connected to the connection point 3. Thus it is ensured that T-pieces always belong to the pipeline with which they are connected via the connection points 1 and 2.

The same is also applicable for T-pieces from ventilating structure.

Invalid definitions for ventilation elements

Some objects from the ventilation area contained incorrect values, and hence they could not be inserted correctly in a 3D-drawing. The object types "Ventilation components", "T-saddle", "X-saddle", "T-branch saddle" and "X-branch saddle" (VCS-VCMP, VCS-VTSP, VCS-VXSP, VCS-VTSD and VCS-VXSD) contained invalid values in the object model for some drawing attributes, because of which error messages were released while inserting these objects in a drawing, and the graphical parameters could not be taken over completely.

In addition the object type VCS-VCMP has an incorrect drawing attribute for the object length, hence a graphical length change was not entered in the database, and a change of the length specification did not cause a graphical change in the database.

These object types have been corrected in this version.

Crash of Designer while changing some ventilation modules

AutoCAD could crash in case of ventilation modules "T-saddle" and "X-saddle" (VCS-VTSP and VCS-VTXP), if the drawing parameters have accepted specific values. First, an error message appeared, and subsequently AutoCAD was aborted. This error has been eliminated.

Grouping for "Integrate objects"

So far the function "Integrate objects" has always asked whether the selected objects should be grouped, also if only one object was selected. From this version the question arises if more than one object was selected.

Abort adapter-/ manhole-assistants

If the adapter- or manhole-assistant is started, new database objects are automatically created (for e.g. extrusion and flange). So far these database objects were not deleted, if the assistant was aborted. This error has been eliminated.

Adapter assistant / Manhole assistant places a new flange incorrectly

If a new adapter and a flange as well as a blind flange should be created with the adapter assistant / manhole assistant, then so far the flange and blind flange was placed incorrectly. After the placed adapter was changed via the adapter assistant / manhole assistant, then the elements were arranged correctly. From this version the flange will be placed correctly during the first creation.

Point "." in path while exporting to file

If the geometry is exported from ACIS converter to the external files, problems occurred if a point "." was included in the path. This error has been eliminated.

Path selection in ACIS converter

If in ACIS converter the geometries should be saved in external files and a path was not

selected, then till now the files were created in a direct active directory. From this version the directory is selected from desktop if a path was not selected.

Center line allocation for "Draw pipeline further" and draw "3D-center line"

So far the setting "allocate automatically" was not assessed correctly in case of functions "Draw pipeline further" and "3D-center line". In case of the function "Draw pipeline further" so far the center line was never allocated, and while drawing a new 3D-center line an attempt was made to allocate the center line if a pipeline was called before with the option "allocate automatically". Both errors have been eliminated.

Isogen

ISOGEN-item-code for screws

It is possible to define which object attribute should be used for the attribute "ISOGEN Item Code" (ISOGEN-ITEM-CODE) by the project setting. In the basic setting an item code is determined automatically by CADISON.

It is possible to use object attributes via an object model change. However this mechanism previously did not function for screws, so that CADISON would automatically determine an item code in spite of changed project setting. This restriction has been eliminated from this version.

Association of components with pipeline

For generating isometry all the elements of a pipeline are transferred to Isogen. Thereby the subordinate gaskets, screw groups and weld seams are also transferred from all pipeline elements. However it may occur that these sub-elements are allocated to another connected pipeline. Hence individual isometry names were previously created for these components. From this version the sub-components are transferred to Isogen only if they belong to the same pipeline as the pipeline element.

CADISON Engineer

Updating the system tree in Engineer

So far the CADISON System tree was (saved in the system database) only updated by Engineer if the Engineer was closed or the project was changed. From this version the CADISON System tree is updated if the command "Save project" is selected in Engineer.

Unwanted write protection

The attributes will be write protected if a database is primarily opened with the status without user authorizations and subsequently switches to the database without role.

Saving structure views of specific length is not possible

If a new structure view is created with the name with an even number of characters (2, 4 or 6, e.g. Valves) and lesser than 10 characters in Engineer, then CADISON does not display the name.

Designer-crash in case of DWG Neutral export

If a drawing is already in process and it should be exported by another user with DWG Neutral export, then AutoCAD provides the option to open the file as read-only. If that is confirmed, then AutoCAD crashes due to missing write authorizations. The reason for that is an invalid export-path so that AutoCAD cannot process the file to be exported. In R8.5 the incorrect path is intercepted and CADISON displays an error message respectively and the export process is aborted.

Revision of documents

If the checkbox "Create in background" is activated in the dialog while creating revision, the revision of documents which are not of the type report are generated incorrectly. In R8.5 only reports in the background can be created, for all the other document types the option is blocked.

MATPIPE

Processing a link

In the window "Properties" all the changed data was not transferred during the processing of a link, if the window was closed with the Enter-key.

Simultaneous deletion of several primitives

In the current MATPIPE Version it is possible to delete several primitives simultaneously. The context menu for "Primitive", "Collision compound" and "Connection points" was extended to the entry "Delete primitives". While selecting this entry all the primitives included in a list in a dialog are listed as in tree and available for deletion.

Inquiry for new names while copying diagram entries

The function "Copy" in the dialog box "Administer diagram entries" was extended so that the name of the entry can be changed by the user while copying an entry. MATPIPE already provides a unique name for this entry in a dialog box. At these locations the user can accept or change the suggested name as the case maybe.

Expansion of error message in the parameterization dialog box

While leaving the parameterization dialog box, if the data cannot be saved, then the reason for that will be displayed in the error message as to why MATPIPE cannot save the data. For e.g. the name of the primitive will be displayed which caused this error.

Troubleshooting and optimization in parameterization tree

- After deleting a primitive the subsequent primitive will be selected automatically in the tree.
- While relocating a primitive in tree the focus is always on the selected primitive.
- It is now possible to relocate the primitive in tree with the key combination "Ctrl+Up" or "Ctrl+Down" respectively.

Deleting the attributes of a replicated-object

Although the processing of attributes of a replicated object is not allowed in MATPIPE, it was possible till now to delete the attributes of replicated objects in the attribute dialog box with the Del-key. This error was eliminated from the current MATPIPE Version.

Mark several lines in the details-table

Since MATPIPE R8.0.0 it is not anymore possible to select several lines in the details table per Strg(Ctrl) +Left click. This error was eliminated from the current version.

Save property

If for e.g. copy, link or another action of the value of a property cannot be written in the

database, then MATPIPE releases an error message, which displays the cause as well as the name and the value of the property. After confirming the message by the user, the actual action is resumed.

List of objects within an object table

In the dialog box "Object attributes" there is an extension which displays the number of objects within an object table. In addition these objects can be listed in a separate dialog box. The new feature enables the user to obtain a better overview if object tables are used repeatedly.

Converting catalogs

While opening a catalog with MATPIPE R8.5.0 the catalog version is updated to 8.5. Reason for that is the change in the structure of the catalog-database as well as the troubleshooting in connection with the catalog names that have more than 16 characters.

Default values for new drawing entry

The default values for a new drawing entry were changed. From the current MATPIPE Version the following default values are set for drawing-, actuality- and view type, if you would like to add a new drawing entry:

Drawing type: VC3D_VARIANT
Actuality type: 3D
View type: Installation plan/ Plant layout

Sorting problem in the dialog box – Adding the attributes to object class

In the dialog box to add attributes to object table the list is not sorted after changing the object class, although the column name was marked as sorted. This error has been eliminated from the current version.

Checking the inverted comma while closing the formula dialog

While closing the memo-dialog which is used to process the formulae, MATPIPE checks whether inverted commas are available in pairs. If this is not the case, then the user can take the following actions accordingly:

- Nevertheless save the formula
- Reject the action (no data modification)
- Return to processing the formula

Error in the clipboard function "Cut"

In MATPIPE Release 8.0.0 and 8.1.0 the Clipboard function "Cut" (Ctrl+X) caused an error which partially lead to a shut down. This error was eliminated in the current version.

Navigator

Import-Menu in Navigator

Previously in the project menu in navigator, the sub-menu "Import data" is available. This menu has been deleted from this version since the navigator only gives access to read the data, and anyway the data import is not functional.

CSV-Import in tree dialog

Previously in navigator the buttons for CSV-Import are available in the tree dialog. From this version, the button is deactivated since anyway data cannot be imported or changed in the navigator.

Administration

General information

PDF-Exporter

The variable in the CADISON.INI for the PDF_CONVERTER=GHOSTWRITER was adjusted correctly and is now PDF_CONVERTER=GHOSTSCRIPT.

Crash in UpdateDbs while selecting several databases

If several databases are selected in UpdateDbs-Program for database conversion (e.g. more than 600 Databases) and then the checkmark is set in case of a database, then UpdateDbs crashes. This error has been eliminated.

Number of parallel conversions in UpdateDbs

So far UpdateDbs has simultaneously allowed a conversion of maximum 4 databases. From this version the number of potential parallel conversions depend upon the number of available processors / processor cores. However at least two parallel conversions are allowed.

In addition the input field is initialized with the number of available processors / processor cores, and the number is specified with "2" for a processor system respectively.

Note: For UpdateDbs only a limited quantity of main memory is available (depending on operating system). Therefore while converting larger databases the number of parallel conversions should not be selected very high in order to prevent a scheduling of UpdateDbs, in case the maximum possible main memory is utilized.

Error in symbol library commercial extension

The template objects were not initialized for the CADISON Versions 7 and 8 for the object class assembly unit (VCS-FUNT) of the module Commercial Extension. The reason being that the associated objects (dwg, sld, def) are not located in a separate directory for the object class, but directly under the library directory of the module (vcs-cext). The error is eliminated in CADISON R8.5.

Optimized application of ow_TypeMaster Objects

So far in a CADISON Database for every object type there was only one ow_TypeMaster, which accordingly administered all the objects of this type. Through these structure two users are disabled if they simultaneously insert the same object types in the same project since both the users had to block the same ow_TypeMaster.

Now every user has his own type of ow_TypeMaster objects, in which the CADISON-login name is used for the internal allocation. Thus lesser object blocks should arise in the database, if several users reinsert the same object types.

It can be controlled wholly via the variable SPLIT_TYPE_MASTER in the CADISON.INI in section [\[PHI-CADISON\]](#):

```

#
# SPLIT\_TYPEMASTERS defines how the ow_TypeMaster instances
# should be administered.
# 0 = A typemaster for each object type.
# 1 = Several typemasters for every object type, a maximum of 1000 objects are
attached to
#   a typemaster respectively. After 1000 objects a new
#   ow_TypeMaster is generated.
# 2 = A typemaster for each user per object type. This is the default
#   value.
#
SPLIT\_TYPEMASTERS=2

```

The comment lines only help the documentation. The last line is important. Every CADISON-user obtains his own TypeMasters by default. This means that if the first user is the "Admin", the second "MBR" and the third is "SKR", then altogether there are three TypeMasters for the object type "Valve". The use name is thus saved internally in the data field "phi_PropertyObject:pUcName".

Hence several users are not blocked anymore while accessing the TypeMaster (other blockades for e.g. while accessing the central project-object, the same pipeline, the same logical attachment, etc. still exist!).

Double initialization of report-start objects and database blocks

If in CADISON.INI the setting `CALCALWAYS=OFF` was activated, then the user was asked whether would like to recalculated the properties calculated in case of the report-start object. If the answer is "yes", then so far these calculated properties would be recalculated twice.

Furthermore the calculation of these properties blocks the report-start object till the report was completely created. Now the start object will be released immediately after the recalculation of the properties.

Implementation of new variables in CADISON.INI for optimized MultiUser-access

New variables inserted in section [PHI-CADISON]:

```

#
# Specifies after how many released objects during command execution
# an additional commit operation should be performed. Lower values
# slows down CADISON but reduces the risk of conflicting database
# object locks in a multiuser environment.
# Set entry to '0' to deactivate this feature and the creation of
# a global list of no longer required objects.
# Disable this entry or set it to '-1' to create the global list of
# no longer required objects, but to disable the automatic release
# of these objects during command execution. Only in situation of
# a dead lock these objects are released.
#
FAST_RELEASE_OBJECT_COUNT=-1

#
# During report generation database objects are locked. Use this
# setting to force CADISON to release the database objects during
# report generation. Default value is always 'ON'. Set it to
# 'OFF' to keep the database objects locked until the report has
# been created.
#

```

RELEASE_OBJECTS_DURING_REPORT=ON

New structure for MODULES.INI and new module-configuration file STANDARD.MOD

From this version the configuration file MODULES.INI another structure. It is now possible to inform CADISON the installed modules which should be used.

In addition the configuration file STANDARD.MOD was initiated, via which CADISON can specify which paths and files belong to which modules so that CADISON can ignore the installed files in case of a deactivated module.

In addition further .MOD-configuration files can be created and maintained for STANDARD.MOD-configuration file.

Double formula entries in .DEF files

While exporting model objects to .DEF-files it may happen that the formula was released repeatedly in .DEF-file for attributes which have entered a formula for the default value. From this version the formulae should be released only once.

Domain Assistant

The usability during the configuration of server domains was improved. All options in the cadison.ini can be handled using the assistant.

Profile Creator

During the adaption or creation of a profile for Designer the support path to the file CADISON.SHX is now added for the viewer "DWG TrueView". This avoids the warning during startup to select this file.

Changes in cadison.ini

New variables

```
[PHI-CADISON]
```

```
#
```

```
SPLIT_TYPEMASTERS=2
```

```
CALCALWAYS=OFF
```

```
#
```

```
# Specifies after how many released objects during command execution  
# an additional commit operation should be performed. Lower values  
# slows down CADISON but reduces the risk of conflicting database  
# object locks in a multiuser environment.
```

```
# Set entry to '0' to deactivate this feature and the creation of  
# a global list of no longer required objects.
```

```
# Disable this entry or set it to '-1' to create the global list of  
# no longer required objects, but to disable the automatic release  
# of these objects during command execution. Only in situation of  
# a dead lock these objects are released.
```

```
#
```

```
FAST_RELEASE_OBJECT_COUNT=-1
```

```
#
```

```
# During report generation database objects are locked. Use this  
# setting to force CADISON to release the database objects during  
# report generation. Default value is always 'ON'. Set it to  
# 'OFF' to keep the database objects locked until the report has  
# been created.
```

```
#
```

```
RELEASE_OBJECTS_DURING_REPORT=ON
```

SPLIT_TYPEMASTERS

SPLIT_TYPEMASTERS defines how the ow_TypeMaster instances should be administered.

Value	Description
0	A Typemaster for each type of object.
1	Several Typemasters for each type of object, in each case a maximum of 1000 objects are attached to a Typemaster. A new ow_TypeMaster is created after 1000 objects.
2	A TypeMaster for every user per object type

FAST_RELEASE_OBJECT_COUNT

Multi User Environment

During command execution, it specifies after how many released objects, an additional commit operation should be performed. Lower values slows down CADISON but reduces the risk of conflicting database object locks in a multiuser environment.

Set entry to '0' to deactivate this feature and the creation of a global list of no longer required objects.

Disable this entry or set it to '-1' to create the global list of no longer required objects, but to disable the automatic release of these objects during command execution. Only in situation of a dead lock these objects are released.

Potential values are:

```
FAST_RELEASE_OBJECT_COUNT=0  
FAST_RELEASE_OBJECT_COUNT=-1
```

RELEASE_OBJECTS_DURING_REPORT

During report generation database objects are locked. Use this setting to force CADISON to release the database objects during report generation. Default value is always 'ON'. Set it to 'OFF' to keep the database objects locked until the report has been created.

#

RELEASE_OBJECTS_DURING_REPORT=ON

RELEASE_OBJECTS_DURING_REPORT=OFF

ITFTOOLS

New option -DELETEOBJBYLOID in ITFTOOLS

ITFTOOLS now provides the undocumented option -DELETEOBJBYLOID, with which an object can be deleted from a database by means of its LOID. The syntax is:

```
itftools -DELETEOBJBYLOID < LOID> <DB_Name>
```

Note: Possibly the links are not updated automatically by Versant while deleting an individual object. This can necessarily mean that other objects still refer to the deleted object. Therefore one of the CLEAN-Options should be used after using this option.

Aborting the correction process in case of errors

In case of a few rare errors it may happen that a correction function was aborted, because of which the database could not be cleaned completely. This error has been eliminated.

Display of "Internal error" in case of correction options

If a faulty object of the type "phi_XConnection / Verbindungsgrafik" ["phi_XConnection / Connection diagram"] was located while cleaning a database, then the message "Internal error (.\POLIN.CXX)" was displayed. From this version this message is not displayed anymore since the located error has already been eliminated.

Concluding information

The **CADISON Hotline** is available at the timings mentioned below:

Mon. – Thurs. 8.30 to 17.00 hrs
Fri. 8.30 to 15.00 hrs

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We wish you good luck with CADISON.

Your CADISON-Team

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