



R 8.1

Release
Notes

Foreword

A further CADISON Release is now available with the present CADISON Version. Mainly, functional changes, as well as some new functions and error corrections since the release of Version 8.0.0 have been carried out. Further emphasis is on the Unicode conversion.

CADISON is now available in the following languages:

- German
- English
- Russian

Likewise in the Russian Version the codes, reports and libraries after Gost are available as an additional Object model.

The new CADISON functions, before their application must be well known by the users and by the CADISON System Administration, since with the use of an inappropriate application engraving changes can be made in the projects.

This document is also available in PDF-format on our website:
www.ITandFactory.com/customer_care





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CADISON R8.1 Release Notes



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 Changes in CADISON Designer: General 3D-Designer New Functions Functional Changes	Support: FAQ Hotline Technotes Training
 Changes in MATPIPE	
 Other Applications: PDF Exporter Archiver/Archive Browser ACIS Convertor	
New!	New Functions
Info	Functional Changes

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Installation

Conditions

Read the installation guidelines before the installation

Further information can be found under "Conditions for installation" in the existing document "CADISON_Installation.pdf." on the Installation-DVD.

Update of existing installations

Category: **Administration**

Read before, the Installation Guidance

Further information can be found under "References to update installation" in the existing document "CADISON_Installation.pdf" on the Installation-DVD.

The Installation

Category: **Administration**

Read before, the Installation Guidance.

Further information can be found under "Installations-Procedure" in the existing document "CADISON_Installation.pdf" on the installation-DVD.

New Installation of CADISON R8.1

Read before, the Installation Guidance.

Further information can be found in the existing document "CADISON_Installation.pdf". on the Installation-DVD.

Post Installation/De-installation of individual Modules

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

Over "Start > Settings > System control > Software" the CADISON Setup can be started and "Change Program" can be selected.

Read before the Installation Guidance.

Further information can be found in the existing document "CADISON_Installation.pdf" on the Installation-DVD.

Installing the Network License Manager (NLM)

Start the setup of the CADISON R8.1 DVD under NLM\Setup.exe.

Further information can be found in the existing document: "CADISON_Licencemanager.pdf". on the Installation-DVD.

Licensing

Category: Administration

Further information can be found in the existing document:
"CADISON_Licensemanager.pdf".on the Installation-DVD.

Scope

With the delivery of the CADISON R8.1 you receive:

- A Program-DVD CADISON Release R8.1
- Possibly, a DVD with the adapted Customer object model.
- Release notes CADISON R8.1 (as PDF and CHM on the DVD)

Overview - Functional Changes

The surface of the Archive Browser was updated.	Archive Browser
Properties "P_creationuser" und "P_updateuser"	CADISON Admin
ITFTOOLS option-cleanpropertyvalues (Neutral export)	CADISON Admin
Uniform project paths for data bases and projects	CADISON Admin
Directory for CADISON.INI	CADISON Admin
Single-line input fields	CADISON General
Attach catalogue entry with incorrect graphic-entry	CADISON General
Object Model update over UpdateDbs.exe	CADISON General
Start of the designer from the Engineer and PDM	CADISON General
Sorting in the table in Object Manager	CADISON General
Update of Inactive drawings	Designer
Andockbar Dialogs	Designer
AutoCAD EXPORT command	Designer
Designation with Block	Designer
Wrong message with Synchronise-Drawing	Designer
Function "Link Graphic Object"	Designer
Option "List" with Designation command	Designer
Sorting in Synchronise-Drawing	Designer
Transfer of the calculated properties from Matpipe	Designer
Invalid graphic representations in Synchronise-Drawing	Designer
Cancellation of Isometric production	Isogen

Overview - New Functions

Reports

[Sum up function in Excel reports](#)

[New Formal-Keyword "P_formula"](#)

[New Formal-Keyword "PUREVALUE"](#)

Designer

[Properties "P_nographic" and "P_canarticle" when inserting in a PID-Drawing](#)

[Selection of entries in the andockbare table](#)

[Support of drawing comprehensive drag and drop and/or copy & paste](#)

PDF Exporter

[Extension of PDF-Exporters](#)

Matpipe

[New link type "overwrite"](#)

[Current selected graphic entry can be stored in a ".def" - file](#)

Administration

General

Installation

If an update is carried out from CADISON R7 on R8 and no matching AutoCAD version was found, the CADISON installed itself after a corresponding confirmation without the designer. By this, the paths used before installation of AutoCAD remain in cadison.ini. This error has now been rectified.

System crash in UpdateDbs.exe

If a data base could not be converted over UpdateDbs.exe, the process window of the corresponding data base remained open. If the process window was closed manually by the "close"-push button, and once again it was tried to convert the database, the UpdateDbs.exe would crash. This error has now been rectified.

Crash in Selector under AutoCAD Mechanical 2008 and Windows 2000/Windows Vista

The designer crashed under Windows 2000 and Windows Vista, as soon as the selector was executed under AutoCAD Mechanical 2008. CADISON used DLL´s that led to conflict with the AutoCAD Mechanical 2008. This error has now been rectified.

Error in Logging function.

An error was contained in the internal logging function of CADISON R8.0, which led to expenses into the file CADISON.ERR. Thus the program errors arising internally could not be logged partly correctly and some programs could also crash. The ones affected were, e.g. ITFTOOLS.EXE and the Maintenance Program. This error has now been rectified.

Functional Changes

File Checker

Following changes and/or extensions were carried out in the File checker.

- Conversion to Unicode, so that the File checker is in the position to check multilingual CADISON installations.
- Checking of files in CADISON „App“ directory and lower directory. Until now, the File checker ignored the changed files in the directory „App“ and in its lower directory.

Licence Protection

The CADISON Licence protection was updated from the Sentinel RMS 8.0.6 on the Version 8.1.1. The reason for this is the Windows Vista compatibility.

Properties "P_creationuser" and "P_updateuser"

From this version onwards, the two data fields "P_creationuser" and "P_updateuser" are 'read only', so that, a user can no longer overwrite these internal data fields directly.

Object model updation over UpdateDB.exe.

Starting from this version, the data base-conversion program UpdateDB.exe offers the option "Update only model objects" with which, the object models in the selected data bases can be updated.

This option corresponds to the ITFTOOLS-Option-UPDATEPRJDB or to the command "update project data base" in the designer.

Directory for CADISON.INI

In the past versions, the CADISON-Configuration files CADISON.INI were saved in Windows-directory. Starting from this version the configuration files are placed in another place. Moreover, now the general Application data directory is used by Windows.

For Windows XP this directory is known as:

C:\Documents and Settings \All Users\User Data\ITandFactory\CADISON

For Windows VISTA this directory is known as:

C:\Program Data\ITandFactory\CADISON

Perhaps these paths can deviate from it through the Operating System settings

Standard/Uniform Project Paths for Data Bases and Projects.

In the past versions, CADISON did not check the project paths of data bases and projects for uniqueness. As a result, it could occur that:

- Within a data base, several projects had defined the same project directory.
- More data bases used the same database - project directory.

In both cases it can lead to loss of files, since several projects stored their files in the same project directory. Thus files could be overwritten. Moreover, the loss of files/directories in a directory can lead to loss of files in the other projects, which stored their data in the same project directory.

Starting from this version, CADISON automatically takes care that the project paths of data bases within a CADISON-Domain are unique. Further more CADISON guarantees, that the projects contain unique project paths within a project data base. If the paths of same name are assigned by a user, these are automatically made unique by CADISON (a counter is attached at the existing path, till the path becomes unique).

In order to check the project path of data bases, CADISON must call all the existing data bases in CADISON System Tree. This can take some time, depending upon the number of the existing data bases. Therefore, this functionality can be deactivated over an entry in the CADISON.INI.

In addition, the following entry must be added in the section.

[PHI-CADISON]:

```
[PHI-CADISON]
UNIQUE_ROOT_PATH=OFF
```

If this entry exists, CADISON does not run any further checks on the uniqueness of the project paths of a data base, so that the user has to ensure, that only unique paths are specified here.

Note: If the path of a project data base in Engineer/Designer is changed, while a project is open, this change is accepted only in the CADISON System, if the current project in Engineer/Designer is closed. That means, if the project path of a data base is changed, the command "Change Project" should be called upon as the next step, so that this change is accepted as quickly as possible in the CADISON System Tree.

(#18466, #18499)

ITFTOOLS

Output of Internal Versant-Errors

If internal versant-errors occurred with the use of ITFTOOLS, these were not displayed correctly in the command line in CADISON 8.0. Instead of the versant-error messages only the numbers were displayed.
This error has now been rectified.

ITFTOOLS Option -cleanpropertyvalues

Until now, this option required too much of working memory, so that the larger data base (several GB) could not be purged. The function mode of this function was changed, so that from now on, even the large data bases can be purged without any problem. The flow had thereby however slowed down.

Purging of ow_GraphicEntry-Objects with the CLEAN-Option of ITFTOOLS

Until now, certain errors in data base objects of the type ow_Graphic entry could not be recognized and purged by the CLEAN-Options of the ITFTOOLS. This was partly expressed by problems during inserting of the 3D-Elements from Matpipe. Due to this reason, the CLEAN-Options for data base objects of the type ow_Graphic entry have been extended in this version.
(#18477)s

CADISON General

General

Table view / -Table Configuration

Selection of the current Table Configuration in the Dialog "Change Table Configuration".

If the dialog "change table configuration" was opened, the current table configuration defined in the select list until now, was displayed in the table. Specially, in the object manager (with table view activated) the table configuration belonging to the object type was never selected.

Table Configuration with Unicode ID

If in the name of a user-defined table configuration, a Unicode ID was entered, the CADISON could possibly no longer access the table configuration correctly, so that another table configuration was used by the selection. This error has now been rectified.

Mistake in the Import of Table Configuration

During the system initialization the CADISON reads the configuration files along with the table definitions. In the past versions, these table definitions were not saved correctly, so that it could possibly occur, specially in object managers, that in the table view, the columns did indeed exist in the table, however the columns had no headings. This error has now been rectified.

Crash of Table View during Deleting of Elements

Cadison 8.0 could possibly crash, if an object which was already deleted were displayed in a CADISON Table. If for e.g., a new group of documents is created, the Object-Edit-Dialog would therefore be displayed by CADISON. Depending upon the selected table view, the new group of documents created is already displayed in a table in the background. If the Edit-Dialog is closed with "cancel" the newly created group of documents gets deleted. Until now, the CADISON 8.0 used to crash, during the updating of the table, since the deleted group of documents was still found there. This error has now been rectified.

Object Search

Object Search for Property "DB-Object ID"

In the past version of CADISON the property "DB-Object ID" (Property "P_loid") could not be searched, over the search-dialog "Search for Objects". This restriction has been repaired in this version.

Import Function

Import from a Microsoft Access-Data Base

If unit fields were imported, from a Microsoft Access-Data base, till now the indication of the unit data existing in the Access data base was ignored, so that, the unit fields could perhaps, not be imported correctly. Starting from this version the existing unit data from the table which can be imported is considered, so that the unit fields are imported correctly.

Translations

Translation Function during the Working on Memo-Data Fields.

When work is done on Memo-Data Fields, an extra window opens, in which work can be done on Memo-Text. There exists the option to select the Cadison translation function by clicking on the F2 - Key. With this the current marked text is passed on to the translation function. Until now however, no text was transferred back, after the selection of the desired translation function. Starting from this version the translated text is inserted in the Memo-Text.

Translation dialog

Until now, the translation dialog could not display any Unicode-ID (like for e.g. Cyrillic ID) in the text list, even if the dictionary defined, was a UNICODE dictionary. The UNICODE ID was processed internally, however it was not displayed in the dialog. From this version onwards the dialog also supports the display of UNICODE-ID.

UNICODE

UNICODE-ID in Memo-Fields

While working on the Memo-Fields in the special Memo-Edit-Window, the UNICODE -ID was so far replaced by the question mark (?). This error has now been rectified.

Structured View with UNICODE-ID in Name

Till now CADISON could display correctly only the structured view which contained UNICODE -ID in name. In the selection list of the structured view, a question mark was displayed instead of the UNICODE-ID. This error has now been rectified.

Storage of View Configurations

View configurations are stored in .cac-files. Starting from this version the .cac-files will be stored in the Unicode-format, so that the user defined table configurations, that are contained in name Unicode-ID can be stored correctly.

Overwriting of Read-only Files.

Till now, the CADISON used to crash, if CADISON would overwrite a read-only file, which contains Unicode-Text.

This error has been rectified in this version.

Change of "Object Description" and Data Field " "Last Editor"

Until now, if with an object over the Edit-Dialog or the Object inspector, the Object property "Object description" was changed, the data field "Last Editor" would not get updated. This error has now been rectified.
(#19153)

Messages in Status line with Dialogs

If the mouse is moved on the range of the CADISON -LOGOS, with the CADISON-Dialogs, which have a status line, a general remark appears in the status line of the dialog. This message has been changed in this version.
(#19108)

Problems with Copy / Project Overlapping Copy

In rare cases there can be problems while copying (either over the Copy-command, the command "Project overlapping Copying" or by "Copy and Paste" in AutoCAD). Partly, CADISON displays a system error, or it is not copied.
This error has now been rectified.

Updating the CADISON System -Trees.

If in CADISON System-Tree with a data base the context menu command "Update" is selected, it could until now happen that the data structures in the CADISON System-Tree were updated internally, however further the old data structure would be displayed. The current data structures were displayed only after shutting down and restart of the CADISON Application.
This error has now been rectified.
(#18513)

Report -Context Menu in the CADISON Table

If in the CADISON Table several objects are selected and the context menu is opened, then menus among the other latest opened reports are displayed under the "Report". With each renewed launch of the context menus, the list of the latest called reports get added to the submenu in CADISON 8.0, so that this list becomes longer, with each launch of the context menus. Only if the context menu was called on a single object (either in the Table or in the Tree) was this list correctly represented. Starting from this version, the list of the already called reports is created and displayed correctly.
(#18666)

File filter in File Selection Dialog Box

Until now, in the file selection dialog box, the specified filters were not considered by CADISON. If for example, CADISON called for a .DB-File, with "Database import" the "*.db" is displayed in the file selection dialog box of the filter, however this filter is not

used, so that all the files are displayed. This error has now been rectified, so that the specified filters are now indicated in the relevant file selection dialog box.

Crash during selection of a Structured View

Until now, the CADISON would crash if a structured view was selected (e.g. in Engineer Main window or in Tree-Dialog) and if less than 8 structured views existed. This error has now been rectified.

Hanging of Designer with Definition of a new Border Drawing.

In the dialog to insert a drawing border, there is a push button "create new" over which a new paper format can be defined. In the dialog there is a push button with a question mark, over which the online help can be called. In the past functions however, the designer remained hanging if this push button was clicked upon. Starting from this version onwards, the online help appears.
(#18748)

Report

Error during Creation of Reports with Russian Name (Unicode-Name)

If the default files for a report in a directory are saved with Unicode-Name, the report could not be produced in the background in the Version 8.0.

Report "Piping Material List"

The report was defined incorrectly, so that no exact material list could be created. The report has been corrected in this version.

(#18531)

General Functional Changes

Starting of Designer from the Engineer and PDM

If an AutoCAD Drawing is to be opened from an Engineer or PDM, it is first checked, whether a current designer already exists, which had opened the drawings from the same project. In case a suitable designer is found, the selected drawing is opened there.

Until now, the search for a suitable designer was not reliable. It was tested only on the project names (of the projects, which are active in the designer, and of the projects, which are active in Engineer/PDM). However, it can occur, that if work is done with the projects of same name, these are however saved in different data bases. Until now, the selected drawing was loaded by the current designer, which led to a project change in the designer, which is why all other files opened till now were closed there.

Now, a current designer is used only if it concerns the same data base.

Transfer of Calculated Properties from Matpipe.

If with the assignment of a catalogue entry from Matpipe, a property definition is transferred to CADISON, which is still not known there, the property definition from Matpipe is transferred to CADISON. Starting from this version, however, the property definition, which uses the Access - type CALCULATE, CALCALWAYS or CALCONDEMAND, is created in CADISON as EDITABLE-Definitions. Thereby problems occur, if in another Matpipe catalogue, the same property is defined, however, an another formula is obtained.

Additionally, CADISON can be defined over an entry in cadison.ini in such a way, that the property definitions already existing in CADISON are changed to EDITABLE. In addition, the following entry must exist in the section. [PHI-CADISON]:

```
[PHI-CADISON]  
CHANGE_CALC_TO_EDITABLE=1
```

As soon as this entry is present, then while inserting a catalogue entry, the existing property definitions, which were earlier already created over the assignment of a catalogue entry in CADISON, are checked. These are CALCULATE, CALCALWAYS or CALCONDEMAND, and the property definition coming from Matpipe is likewise so displayed, that the property definitions existing already in CADISON are changed to EDITABLE and a registered formula is erased.

Marking with Block

The function "marking with block" always requires internally, an insertion point of the object, which is to be marked. However, one insertion point cannot be determined by all elements (such as 3DSOLID / ACIS-Elements). With such objects, until now the function crashed with the error message "Corrupt Argument Type: 2D-/3D-Point".

Starting from this version, a zero point is always used with the objects, which do not possess an insertion point. That means, if a position number is selected as Textmask, then under these circumstances, the leader of the AutoCAD-Zero point appears. No more error messages appear, so that the actual Textmask can be positioned.

Note: In order to receive a valid insertion point, the geometry must be converted into a block. Then appears, the leader of the insertion point of the block.

Sorting in the Table in Object Manager.

Until now, a defined sorting in the table in object manager was lost, as soon as the table was created again. (e.g. by change, to another library, to another object or by the closing and reopening of object manager). Starting from this version the current sorting remains.

(#18555)

Check in of Revision Documents

If documents are checked-out, the attached revision documents are also checked-out automatically. Until now, with check-in, these revision documents were also checked-in. This process is however not necessary, since the revision documents in the original data base are read-only, and therefore they cannot be changed. Due to this reason, from this version onwards, during check-in the revision documents are ignored, if they already exist in the original data base. Thus check-in progresses faster and it requires less memory.

(#18399)

Change of the Path with Root Project-Object.

Until now, the path could also be changed with Root Project-Object, if all the documents in the data base were read. Thus CADISON could no longer find the earlier read out files after the change of the paths, and it indicated these with a red cross in the tree.

Starting from this version an error message appears, that the path cannot be changed. Only if all documents have been read, can the path of the Root Project-Object be changed.

Assign Catalogue Entry with incorrect Graphic- Entry.

If an object consists of an incorrect graphic-entry, then, in the past CADISON-Versions, assigning a catalogue entry led to a crash. Starting from this version, a catalogue entry can also be assigned with an incorrect graphic-entry.

Note: The incorrect graphic-entry is thus neither deleted nor changed. In order to correct the incorrect graphic-entry, the graphic must be deleted and again inserted. (e.g. by synchronize drawing)

(#16535)

Single-Line Input Field.

If in CADISON, one works on a Memo-Data field or a FILETYPE-Data field in a single-line input field (e.g. In the table or in edit-dialog), until now, it was not possible

to scroll through the text, if the text for the input-field was too long. Starting from this version it is possible to scroll through the entire text.

New Functions

Summing up Function in Excel Reports

The summing up function is now available for use in the excel-reports. Until now, the summing up function existed only for the word-report generator. It can both be summed up as well as a particular data field can be added. In order to use the new function, the section [QUERY] must be extended into the START.TPL-File of the appropriate excel-reports.

```
[QUERY]
QUERY=...
SUM=1
ADD=QUANTITY
```

The line "SUM=1" activates the sum function. Additionally (alternatively) the data field "QUANTITY" can be added over the line " ADD=QUANTITY" for the same objects. In order to display the sum number and (alternatively) the determined number of items, the 'STANDARD'-Line must be extended within the range [OUTPUT].

```
[OUTPUT]
STANDARD=SUM;QUANTITY;...
```

In place of "SUM" the determined sum number is displayed and in place of "QUANTITY" the computed value of "QUANTITY" is displayed.

Example

Create a new excel-report and thereby use the following START.TPL.

```
[APPLICATION]
APP=
APP_TEMPLATE=start.xls
APP_EXTENTION=XLS
APP_PREFIX=VAL_
APP_OBJECT=PHI-REPO
APP_PROPERTY=SIZE;A4
STARTROW=5
STARTCOL=3

[QUERY]
QUERY=P_treeobjects.TREE;SUB;STRUCTURE;;;PHI-PLNT,PHI-TANK,PHI-HEXC,PHI-PVLS,PHI-PVLE,PHI-PVL3,PHI-PVL4,PHI-PEQI,PHI-PHOS,PHI-PFLT,PHI-PCMP,PHI-PVLM;PHI-PLNT,PHI-TANK,PHI-HEXC,PHI-PVLS,PHI-PVLE,PHI-PVL3,PHI-PVL4,PHI-PEQI,PHI-PHOS,PHI-PFLT,PHI-PCMP,PHI-PVLM;;;PHI-PLNT,PHI-TANK,PHI-HEXC
SUM=1
ADD=QUANTITY

[OUTPUT]
UNIT=IMPLICITLY
TABLE=CADISON
HEADER=Sum;Number;Description;Desc.Int.;Temp. min °C;Temp. max °C;Coating
```

Surface; UNIT; User
1; Jointype1
STANDARD=SUM; QUANTITY
; P_name; PNAME_INT; T_APPR_MIN; T_APPR; PAINT; UNIT; USER1; JOINTYPE1

New Formal-Keyword "P_formula"

Until now, if a value which consists of several properties of CADISON, had to be displayed in a report, a property had to be defined in CADISON, which processed the actual calculation. This property could then be displayed in the report.

Starting from this version the "P_formula" is available for use, with which the calculation can be processed immediately, without an additional property being defined for the calculation.

The syntax of P_formula reads as:

```
P_formula.<Formula print >
```

Whereby "<Formula print>" must be replaced by a valid CADISON Formula.

Use

The Keyword "P_formula" can be used both in Word-Reports as well as in Excel-Reports.

With excel-reports, the properties that can be displayed are defined in the "STANDARD=" -Line, in the Report-Default START.TPL. There the Keyword "P_formula" must be used as the property name.

For example, in order to display, in an excel-report of an object, the first two indications from both the properties "USER1" and "USER2" respectively, the following line can be used in the START.TPL :

```
STANDARD=USER1;USER2;P_formula.STRLEFT(USER1,2)+STRLEFT(USER2,2)
```

This example displays the contents of the properties "USER1" in the first column and the contents of "USER2" in the second column. In the third column are then displayed, the first two letters of contents of property "USER1" followed by the first two letters of the contents of property "USER2"

(#13580)

New Formal-Keyword "PUREVALUE"

With the export of property values, a completely formatted text is displayed always. Particularly, with properties, which have a value list and/or a selection list attached, the finished formatted text is always displayed. For example, the property JOINTYPE uses a value list internally, which only contains short-name. With the export of this property, however the complete text is displayed and not the short-name. For example, with the property JOINTYPE the internal value "w" corresponds to the text output "welded".

If such a property, which attaches a value list, is used in a formula, the complete text is used and not the internal short-name.

Sometimes, perhaps it is however desired to use only the internal short-name and not the complete text. Sometimes, likewise, it can be desired, that in reports/lists only the internal short-names are displayed, in order to keep the output list small.

By the use of the new keyword "PUREVALUE" the export of the internal short-name can be accomplished.

If for example, a property contains, the formula "JOINTYPE1+JOINTYPE2", and both the properties contain the internal value "W", then "Welded.Welded" is determined as the result and not "WW". This problem can be solved with the use of the new keyword "PUREVALUE".

If the formula reads, "PUREVALUE(JOINTYPE1)+PUREVALUE(JOINTYPE2)" the text "WW" is determined as the result.

The syntax of PUREVALUE reads:

PUREVALUE(<PropertyName>)

Whereby "<PropertyName>" should be replaced by the actual property name, by which the internal short-name is to be determined.

If instead of the full text, the internal short-name is to be displayed in the report, this can be done with the use of the keyword "PUREVALUE" and "P_formula". With the use of the keyword "P_formula" one receives the access to the CADISON Formula parser in the Report Generator. If for example, in a report the property "JOINTYPE" is displayed, the export of full text (for e.g. "Welded") is carried out. In order to display only the internal short-name, "\$P_formula.PUREVALUE(JOINTYPE)\$" must be entered in the report formula.

If, for example, in an excel-report of the property "JOINTYPE1" only the internal short-name are to be displayed, the report-default START.TPL of the excel-reports must use in the "STANDARD="-Line, the keywords "P_formula" and "PUREVALUE" :

STANDARD=JOINTYPE1;P_formula.PUREVALUE(JOINTYPE1)

By this example, the full text of the properties "JOINTYPE1" is displayed in the first column, while in the second column only the internal short-name is displayed.
(#13580)

Designer

General

Highlight - Function

Highlighting of objects during opening of drawings

If a drawing was loaded in the designer through the Highlight-function, the highlighted AutoCAD elements were displayed as dashed. If the design opened by highlighting is closed afterwards, and if another drawing is opened through the renewed use of the Highlight option, the designer could crash. This error has now been rectified. (#18595)

Highlight-Function with Graphical Route Lookup

If with the Graphic Route Lookup the highlight function was stopped with the right or left mouse button, the designer could remain hanging. This error has now been rectified.

Designation Commands

Location of the configuration file of the new Designation command.

Until now, the new designation command introduced in CADSION 7 stored the user-defined configurations in the CADISON\Config-Directory. Starting from this version, these files from CADISON will be automatically stored in the selected LocalCFG-directory.

If during the start of the designation command, no configuration files are found in the Local CFG-directory, the configuration files are searched for in the CADSION\Config-directory. If a configuration file is found there, it is used. However, when the configuration files are to be stored, they are always stored in the LocalCFG-directory.

Designation in Layout

If with the designation command a designation was inserted in the layout, then under these circumstances the coordinate system in layout would change unintentionally. This occurs, when a user-defined coordinate system is set in Modelspace. With the termination of the designation command, this coordinate system gets activated in the layout. This error has now been rectified.

Change of a Graphic / Designation through copying of graphic.

If in AutoCAD, the AutoCAD-Command "Copy (CTRL + C) is used to copy a CADISON-Graphic and thereby the CADISON-Option "Object" is used, then until now the original AutoCAD-Graphic could

change under these circumstances. Specially, the object designation or the colour could change unintentionally. This error has now been rectified, so that copying a graphic with CTRL + C would not change these any further.

(#18532)

Synchronize Drawing

Synchronize Drawing as per Work Copy - Copy Objects

If over the command "Work Copy - copy objects" a single object was copied, which was already planned graphically in the source data base, this information was also copied along in the target data base. If then it was tried in the target data base, to insert the copied objects in a drawing from the andockbar tree by using drag and drop, an error message appeared, that the objects have no graphics and the synchronize drawing would cancel/terminate.

Starting from this version, it is examined while inserting by drag and drop, that the graphic representations that are already existing are valid or not. Otherwise, these are automatically deleted and replaced by new representations. Thereby the objects can be drawn, in the target data base, by using drag and drop.
(#19266)

Route Lookup

Route Lookup in Designer limited to current Drawing.

In the earlier version of CADISON the route lookup of route was not limited to the elements of the current drawing.

For e.g. if one selected a start and end object in a 2D-Drawing, which were also planned in a 3D-Drawing and then started the route lookup, one could definitely receive the report of an interesting route of CADISON. However, sometimes the route started in the 2D-Drawing left this, so that the elements from the 3D-Drawing emerged in the route at one time. In version 8.1 the route lookup uses only the elements from the current drawing.

Changed User Coordinate System in Designation Command.

With the creation of the designation elements (like text and leader), until now a set User Coordinate System was not considered correctly. The elements would be inserted in their correct place, however, the orientation did not correspond with the current User Coordinate System.
This error has now been rectified.

Option "Display Connection Points"

Since the introduction of the new CADISON Explorer in Release 7, the change of the setting "Display Connection Points" had no impact any longer. Starting from this version, the CADISON Explorer reacts again to this change, so that with the deactivated

connection points, these are no longer displayed by the CADISON Explorer.

Display of Unicode Drawing in CADISON-Explorer Tooltip Text

Until now, it was not possible to display the Unicode drawing in the tooltip of CADISON-Explorer. This restriction has been repaired in this version. Starting from this version, the defined User interface-font will be used for the tooltip-font. If this defined font supports Unicode drawing, then this can now be displayed in the tooltip.

Change Graphical Variation

The command "change graphical variation" offers immediate selection of all the available graphical representations in a dialog. This dialog contains among other things a double column list, in which the graphical variations are listed. In the past versions, the column width was not set correctly, if a scroll beam was displayed. If the right column was clicked on by the mouse, the table would shift horizontally, so that the first column was no longer visible. Starting from this version the column width is correctly defined in the table, so that a mouse-click in the table does not shift these any longer.

"OK" and "Cancel" push button in Pipeline Dialog.

Until now the push buttons "OK" and "cancel" were not translated in the pipeline dialog. This error has now been rectified.

Error in Dialog Edit Pipeline Connection From/To

In dialog, both the combo boxes were connected multiple times with values, with the repeated pressing of the selection buttons. The combo box was earlier not emptied correctly.
(#19230)

Crash after the loading of a Revision Drawing

If a revision drawing was loaded in the designer, and if the andockbar CADISON Tree was open, until now the designer would crash, if it was clicked after the loading of the revision drawing in the tree. Starting from this version all andockbar CADISON Dialogs would be closed, as soon as a revision drawing is loaded.

Crash in Selector with message "Select Data Source"

If the selector was opened, it could until now happen, that no item was selected in the catalogue selection box. However, the information of an earlier selected catalogue was displayed in the tree. As soon as an item from the tree is selected, then the dialog "select data source" could appear and the selector and CADISON crashed afterwards. This error has now been rectified. Now, if a selector is displayed and no catalogue is selected in the selection list, the contents of the tree are deleted.

CADISON creates CAD-Drawing with Red Cross.

A default CAD-Drawing is automatically inserted in the project with following course of action.

- Start designer
- Open no drawings, instead first click on a project and then open this in Engineer from the context menu.
- Leave the designer with cancel, without opening a drawing.

This error has now been rectified.

Typing Error in Object "Length Dependent Mounting Part"

In object manager with the object type " length dependent mounting part" the library displays "cable cup" in place of "cable tray".

3D-Designer

Generation of Isometric Drawings from XREF -Drawings

If a design which contains XREF's, is loaded in the designer and then later another design is loaded in the designer, in addition to this design, it can lead to problems in the generation of isometrics from the drawings which contain XREF's. As soon as a pipeline, which begins in the main design and continues further in a XREF file, is to be converted to an isometric drawing, only a part of the pipeline which is contained in the main design is converted to isometric. Starting from this version the complete pipeline from the main design can be converted to isometric even if other drawings are reloaded in the designer.
(#19188)

Wrong Colour processes in the 3D-Pipeline elements.

The 3D CADISON elements in the designer use a wrong colour representation, as soon as the option "Gooch" is selected for a visual style setting "surface style" in AutoCAD. This error has been rectified in this version for the following 3D-Elements:

- Pipe
- Arc
- Tee
- Cap
- Outlet / Nozzle

The DWG-Neutral export displays only the XREFs of one level, and not the interlaced XREFs

During the linking of interlaced XREFs, the last interlaced XREF is linked to the DWG, instead of the XREF of first level.

Example:

If only Dwg3 to Dwg2 and afterwards only Dwg 2 to Dwg1 are linked, then Dwg1 is directly linked in the Dwg3 Tree. The correct link would be Dwg2 to Dwg1. The DWG Neutral export now searches recursively for all interlaced XREFs. If the XREFs are linked correctly in the CADISON Tree, they are displayed by the DWG Neutral export.

Note: With old imported data bases, in which the interlaced XREF's exist, it's necessary, to disconnect the XREF and assign new XREFs in order to export all XREFs with the DWG Neutral export. (Call 18561)

Text in Nozzle-Dialog

In the English version of CADISON a text was not displayed completely in the nozzle-dialogue, since there was no sufficient place for the text. From this version onwards the text is completely displayed.

No Graphics seen at Dragging-Cursor

The visual style "wire lattice" in AutoCAD 2008 does not display/show the 3D-objects, if the cursor hangs. E.G. In the CADISON command "push and rotate object". (#18833, 18975, 19006)

No AutoCAD Snap points, if styles "Wire bodies", "Hidden", "Realistic" or "Conceptual" are selected.

If in AutoCAD 2007/2008 the visual style "wire body", "hidden", "realistic" or "conceptual" is selected, the CADISON 3D-Objects (Beam, Tee, Pipe, etc.) do not have snap points. This error has now been rectified. (#18974)

Error message during insertion of an Outlet

During inserting of an outlet the following message appears in the command line: "error in the property "INTERSECTION" with object "outlet": value 0,0000000000000000 is not found in the value list '0%:1% "0:1. This error has now been rectified. (#19006)

Cancellation of Insert Command by pressing of the key combination CTRL+SPACEBAR (#19118)

The insert command gets cancelled, if one presses the key combination "CTRL+SPACEBAR" in order to turn the object at crosshair. This error arises only if one switches the dynamic request for input on, or if the AutoCAD system variable DYNMODE is set to 1 or 3. This error has now been rectified. (#19118)

New Functions

Support of Drawing Comprehensive Drag and Drop and/or Copy & Paste

Starting from this version the designer supports the AutoCAD function drag and drop between several drawings. Thereby, different functions can be created in the designer depending upon the use of the drag and drop function. They are created only with the graphical actions which are linked with the CADISON-Data base objects. If normal AutoCAD elements are moved, no further actions are created.

Graphical Synchronise Drawing

If an object of a drawing is pulled in another drawing and if the design type differs (e.g. drag and drop of a 2D in a 3D drawing), and if at the position, at which the objects are released, no other objects are existing, then the synchronize drawing starts for the dropped objects.

If the object, which is moved in another drawing, has no graphic for the target drawing, it is checked, whether the object contains a superior pipeline, a superior vessel, or a superior nozzle. In case the superior object found is inserted by Synchronize drawing, that means that, for a 3D-Drawing an arbitrary element of a pipeline, such as a pipe, can be moved into a 2D-Drawing by using drag and drop, in order to adjust the used pipeline in the 2D-Drawing. By this method, several objects can be moved from one drawing into another drawing.

Combination of Objects

If an individual object of a drawing is pulled in another drawing and thereby if the object falls exactly over another object in the target drawing, and if the source object as well as the target object are of the same CADISON object type, the two objects are combined.

Thereby the target object replaces the shifted object on which the shifted object had fallen. A message appears from CADISON, that the objects were combined.

Assigning of Objects

If several objects are shifted and these fall exactly over another object in the target drawing, the shifted objects are assigned to the target object, if this is allowed by the CADISON Object model. Likewise, an individually shifted object is assigned to the target object, if the object type is different from the source object and target object. Also, a message is displayed here, if an allocation is successfully accomplished.

With this possibility, for e.g. all the 3D-Elements of a 3D-Drawing, which were created by the vessel assistance can, by using drag and drop be dragged in a 2D-Drawing, in order to assign the 3D-Elements to the vessel.

Copy & Paste in a Drawing with another Drawing Type.

Until now, CADISON supported to copy and paste only between drawings, which had the same drawing type. (e.g. copying of elements from one 3D-Drawing in another 3D-Drawing). Starting from this version, the Synchronize drawing can be called by copy & paste, if the target drawing had another drawing type.

In addition, the option "Graphic" must always be selected while copying of an element or of several elements.

If the copied graphics are inserted in another drawing (which contain another drawing type) by "Insert", the synchronize drawing function is automatically started for the inserted elements, if the elements for the target object possess a graphical representation.

Designer Functional Changes

Synchronize Drawing

Invalid graphical representations in Synchronize drawing

If an object contains an invalid graphical representation (e.g. has no connection to a drawing), until now the object was not displayed in the synchronize drawing dialog.

Starting from this version, the synchronize drawing dialog checks, whether a existing graphical representation refers to a valid drawing. In case no valid drawing exists, the invalid graphical representations are automatically deleted and the object can be again positioned on the synchronize drawing.

Wrong Message with Synchronize Drawing

If over the synchronize drawing, it is tried to insert an object in the current drawing, CADISON checks whether the object already contains a graphical representation for the current drawing type.

In case the inserted object already has a representation, until now the message was displayed, that the object contains no graphical representation and the process stopped.

Starting from this version, the message appears, that the object already contains a graphical representation for the current drawing type and therefore cannot be inserted again.

Sorting in Synchronize Drawing

Until now, CADISON did not mark the setting for the Tree-sorting in synchronize drawing dialog. With every renewed opening of the synchronize drawing dialog, the sorting must be activated again. Starting from this version the sort-setting is saved permanently, so that during the renewed opening of the dialog the previous setting is restored.

Extended Screw Length Calculation

The screw length calculation was extended, so that for the clamped installation object, the transfer screw can be better calculated. In addition, the identification of objects, through which the screws passed through completely, was improved.

Until now, the existing object property "SCREW -THROUGH" already took care of the fact, that CADISON assumed, that an object has continuous screws, even if the value of "SCREW-THROUGH" stood on "0" or undefined ("999999999"). Starting from this version, the value of "SCREW-THROUGH" is observed correctly.

Moreover, until now the weld neck/beveled end and stubend, at which a loose flange is connected, was not recognized as object, through which a screw can pass through completely. That means, till now no continuous screws could be calculated with the

combination like "Loose flange- Weldneck/Stubend- Clamped
Installation-Weldneck/Stubend -Loose Flange"
(#17328)

Selection of Items in the andockbar Table

If the andockbar CADISON Table is open in designer and if a CADISON object is selected in the drawing in AutoCAD, as long as no command is active in AutoCAD, the CADISON object in the table is automatically selected, if it is present in the table.

The table thereby also reacts to a multiple choice in AutoCAD, so that several objects can also be automatically marked in the table.
(#19073)

Properties "P_nographic" and "P_canarticle" during insertion in a PID-Drawing.

With specific object types, while inserting the object in a PID-Drawing the object property are placed as follows: "Object is not inserted in any drawing" ("P_nographic") on "Don't represent" and the property "Object is displayed in reports" ("P_canarticle") on "No". This is carried out by object types, which can automatically be created in a 3-D Drawing, for e.g. flanges and reductions, if superior objects, e.g. valves are inserted. By this procedure corresponding objects do not emerge in synchronize drawing and are also not displayed in the reports.

If these are the objects inserted in a PID-Drawing, however subsequently a catalogue entry is assigned to the objects, then starting from this version, these IDs would change, so that the objects are both displayed in the synchronize drawing as well as indicated in the reports.

(#13890)

Sorting in Revision Table

In the past designer-versions, the entries in a revision table were sorted alphabetically according to the revision ID. Starting from this version, the entries are sorted as per the creation date and creation time.

(#18317)

AutoCAD EXPORT Command

If the AutoCAD Export-command is used, then in order to save the current drawing as a DWG, CADISON assumed that the data base objects belonging to the drawing are either to be copied or deleted. Therefore, until now diverse question dialogs of CADISON appeared with the use of the EXPORT-Command. Starting from this version, the EXPORT-Command is not considered by CADISON, so that with this command the drawings from the CADISON System can be exported without any problem.

(#16868)

Andockbar Dialog

Starting from this version, CADISON saves the current position and size of the andockbar dialog (for e.g. From this version CADISON stores the current position and size of the andockbaren dialogs (for e.g. Designation dialog and Consistency checker). With renewed call of the corresponding function, the dialogs at the earlier position are displayed with the size used in former times.

If several drawings are loaded in the designer and the data base objects are changed, which are graphically planned in these drawings, then until now, only the active drawings were updated. Until now, the drawings, which were opened in the background, were not updated, so that these drawings had to be updated manually.

Likewise, with changes on data base objects, the inactive drawings (which are loaded in the updated designer-session) are also updated. The update becomes visible, as soon as, an inactive drawing window is activated by clicking.

Updation of Inactive Drawings

If several drawings are loaded in the designer and the data base objects are changed, which are graphically planned in these drawings, then until now, only the active drawings were updated. Until now, the drawings, which were opened in the background, were not updated, so that these drawings had to be updated manually.

Starting from this version, with changes on data base objects, the inactive drawings (which are loaded in the updated Designer-Session) are also updated. The update becomes visible, as soon as, an inactive drawing window is activated by clicking.

Function "Assign Graphic Object"

In the past versions of CADISON, the function "Assign Graphic Object" always produced a 2D-graphic-entry for the selected data base objects, independent of, which kind of drawing/graphic it is concerned with. Starting from this version, the function always produces a 3D-graphic entry in the drawings of the type "Installation plan/Plant layout"

In all other drawing types, a symbol-graphic entry is produced.

(#18216)

Option "List" with Designation Commands

If the switching surface "Apply" is selected in the marking dialog, objects in the AutoCAD-drawing which can be marked must be selected. Starting from this version, the add-on option "List selection" is available here, over which the objects which can be

marked can be selected from the CADISON-Tree.

In order to use this option, the new option " List selection" must be entered either at the command line after the creation of the switching surface "Apply" in AutoCAD (In place of selecting the objects which can be marked graphically), or the option "List Selection" should be selected in the AutoCAD- Drawing area over the AutoCAD-Context menu. Afterwards the CADISON-Tree appears, in order to select the objects that can be marked. Subsequently sometimes the current marking settings are fitted automatically. (e.g. The option " With Leader" cannot be used in combination with the option List selection).

MATPIPE

New Functions

Report Generator

In addition to the existing report functions, from the release of 8.1.0, there is still the possibility in the MATPIPE, to generate reports of a selected chapter and/or selected objects from the object-tree. Here both the object and/or the chapter itself as well as all the lower chapters and lower objects are considered.

Save Graphic Entries

In MATPIPE it is possible, to save the settings of the currently selected graphic entries in a ".def"-File. This new function can be called over the button „save“ from the dialog box „Administer Graphic Entries“.

In this dialog box, the desired entry from the list can be selected and can also be stored in a ".def"-file during the operation of the button „save“.

New LinkType "Overwrite"

Starting from this version, during the defining of linkages, exists the structure type "overwrite". (In addition to the structure type "merge", "receive" and "receive and merge").

The structure type "merge" transmits the properties of lower objects only to the main object, if these do not exist there already. If the properties of the same name already exist with the main object, these are kept.

In contrast to it, the structure type "overwrite", overwrites the properties already existing, with the main object.

The option "overwrite" however overwrites no such properties, which, are fixed by MATPIPE and cannot be deleted, for e.g. "P_name", "CATALOG_GUID", "CATALOG_TIMESTAMP", "CATALOG_UPD_NAME", et cetera.

Bugfixing

Multilingual Catalogues

In MATPIPE and CADISON two different language identifications exist for the Russian language: The entry „Russia“ in MATPIPE and the entry „RUSSIAN“ in CADISON.

This error has been rectified in the CADISON Release 8.1.0, so that both in CADISON and also in MATPIPE the entry of the same name „RUSSIAN“ exist for Russian.

However, attention must be paid to the fact, that if in CADISON 8.0, the Russian language catalogue is loaded already, this catalogue which contains the old language identification „russia“ can also no longer be corrected in MATPIPE 8.1. (Only manually over Microsoft Access)

Y-Tee in the Catalogues VCS_RK16ST and VCS_DINPIPING_A

Until now, the graphic entry for Y-Tee was incorrect in these dialogs. Until now, the length of the main pipes was drawn incorrectly in the designer, since a wrong graphic property was used for the Y-Tee. Starting from the diameter DN 150, the Y-Tee could no longer be drawn in the specified size in the designer, on account of the incorrect definition.

Starting from this version, the graphic entries of Y-Tee have been corrected.
(#18559)

Import / Export with Definition

Until now, the import and export functions "Data with Definition" ignored the multilingual properties. While exporting the multilingual properties, until now only the main language was exported, and while importing likewise only the main language was accepted.

Starting from this version multilingual properties are considered both during the export as well as during the import.

Note: Over the import function "Data with Definition", no new languages can be added in a catalogue. In order to be able to import a new language over the import function, the target language should beforehand be manually created in the catalogue. Thereafter the values for the new language can be imported.

(#18522)

Example of an edd

```
#import/export with definition of price data
#
ATTRIBUTE;ADD;P_name@german;;0;;;@;QUICKEDIT;;TEXT;PGR_GENERAL;;MASTER;255;YES;MANDATORY;
ATTRIBUTE;ADD;P_name@spanish;;0;;;@;QUICKEDIT;;TEXT;PGR_GENERAL;;MASTER;255;YES;MANDATORY;
ATTRIBUTE;ADD;P_name@english;;0;;;@;QUICKEDIT;;TEXT;PGR_GENERAL;;MASTER
```

```
;255;YES;MANDATORY;  
ATTRIBUTE;ADD;P_name@french;;0;;;@;QUICKEDIT;;TEXT;PGR_GENERAL;;MASTER;  
255;YES;MANDATORY;
```

In this example, the object description of the catalogue is selected, these can be changed and imported.

For further information refer to the On-line Matpipe Assistance.

ISOGEN

ISOGEN

Cancellation of Isometric Production

Starting from this version, it is again possible, to cancel an isometric production, by clicking of the ESC-.

Thereby the current isometric drawing will still become finished, if however no more isometric drawings are produced.

Unsymmetrical Tee in Isometry

Until now, only the symmetrical tee were correctly transmitted at ISOGEN by CADISON, so that, only the symmetrical tee could be correctly transmitted by ISOGEN. That means, with tee, in which the branching is not exactly in the centre of the TEE, an incorrect isometry was created until now. Starting from this version the unsymmetrical tee can also be correctly transmitted over ISOGEN.

Creation of Isometrics with ISOGEN GAP-Objects

If an ISOGEN GAP-object was marked in the designer, and if one tried, to transmit the corresponding pipeline over ISOGEN, one received the ISOGEN error-13 and no correct Isometry was created. Starting from this version, the markings of the ISOGEN-objects are completely ignored, so that the isometrics can be created without any problem.

Other Applications

PDF Exporter

Extension of the PDF-Exporters

Now in Engineer, there is the menu "Extras > Settings > PDF-Configuration".

A dialog appears with this menu-call. In this, the current defined PDF-printer is displayed. Furthermore, the paper sizes of the PDF-printer can be selected for the documents and for the CAD-drawings. By Ok the values are saved in the Registry and are later used by the PDF-Exporter.

Archive / Archive Browser

Starting from this version, the CADISON Archive Browser has an updated surface.

ACIS Converter

The designer crashed, if a 3D Hose was drawn and started in the drawing of the ACIS Converter.

This error has now been rectified.

Concluding Information

The **CADISON Hotline** is available at your disposal during the following hours.

Monday – Thursday : 8.30 to 17.00 hrs
Friday : 8.30 to 15.00 hrs

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We wish you much success with CADISON.

Your *CADISON-Team*

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