
Release Notes

CADISON

Rel. 5.5 SP8

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1 Basic Information

CADISON Release 5.5 SP8 is the latest release of the CADISON software. It is a service release and contains corrections for errors as well as some additional developments, including in the spheres of electrical engineering and cross-referencing.

These release notes contain descriptions of all important changes that have been introduced since release 5.5 SP7.

The large number of deployable platforms that were supported in the past will be reduced in the future, in order to allow us to reorganize and better deploy the resources available. More precise information can be found in chapter 2 (installation prerequisites).

The “Tips and Tricks” section discusses a number of topics and questions that have arisen particularly regularly on our CADISON Hotline in the past.

This document can also be found in PDF format on the ITandFactory GmbH web pages at www.ITandFactory.com/customer_care.

2 Installation

2.1 Requirements

This version of the CADISON software has been tested and approved for release under the following conditions:

Operating systems:	Windows 2000 Pro. (SP1 – SP3) Windows 2000 Server (SP1 – SP3) Windows XP Pro. (SP1)
AutoCAD:	ACAD 2000i ACAD 2002 ADT 3.3
CADISON:	Rel. 5.5 SP8
Licensing:	Using “softkey” for workstation or license manager on Windows 2000 or XP
MS Office:	MS Office 2000

2.2 Updating Existing Installations

Please back up your entire CADISON program environment, as well as project databases and all associated data, **before** updating your existing installation.

Notes:

- In the case of an update from Version 5.4 to 5.5 SP8, please take account of the changes to our licensing system. Please request a new license key from ITandFactory GmbH in plenty of time before installing the update.
- Customers who have made modifications to an object model are requested to send their current object model to us so that we can verify its compatibility in respect of the changes in SP8.
- When calling the registration process from the Start menu, the login data is now also requested.

2.3 Installation

Start the setup routine from the CD, and follow the instructions provided by the setup program.

2.4 Delivery

With the delivery of CADISON Release 5.5 SP8, you will receive:

- A CADISON Rel 5.5 SP8 program CD
- A MOD CD (standard object model and additional programs)
- Release notes
- CADISON Call (Fault) Report Sheets

2.5 Additional Programs

The additional programs must be installed manually from the MOD CD. The installation of these additional

programs will be automated in following versions. The following additional programs are available:

- Container wizard
- ACIS Converter
- Commercial Extension
- SAP Interface
- ROHR 2 Interface
- Airduct Systems

3 PDM

3.1 Errors Corrected

3.1.1 No errors have been corrected

3.2 New Developments

3.2.1 No new developments have been implemented

4 Engineer

4.1 Errors Corrected

4.1.1 No errors have been corrected

4.2 New Developments

4.2.1 No new developments have been implemented

5 MATPIPE

5.1 Errors Corrected

5.1.1 File|Open dialog

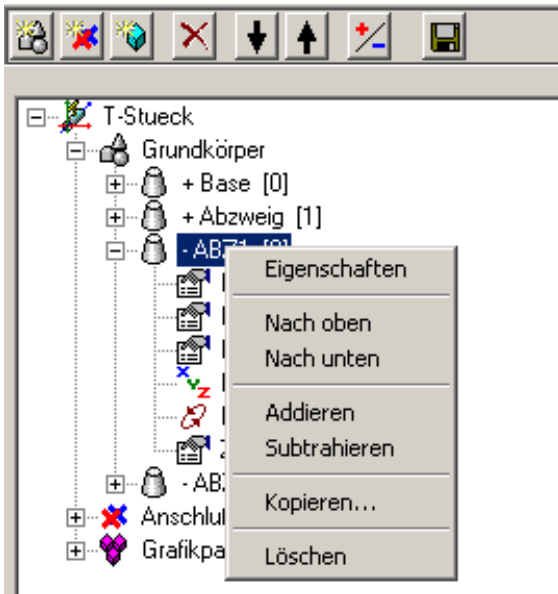
The File|Open dialog in MATPIPE did not open automatically to the catalog path defined in the INI file. The catalog path is determined through the interface to the CADISON System, which takes care of management of entries in *cdsn50.ini*. MATPIPE does not access *cdsn50.ini* directly.

5.1.2 Settings for the Catalog Checker

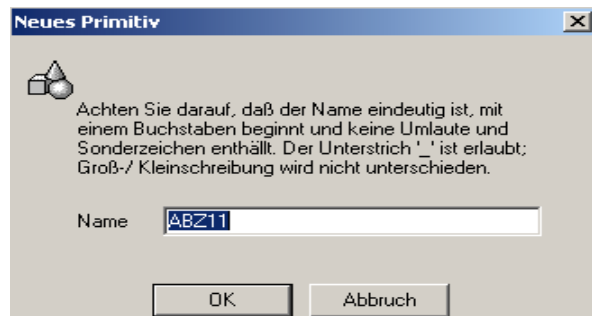
When calling the catalog checker from MATPIPE, the *File|Open* dialog displays the current catalog directory. The actual path is configured using an INI entry. The path is configured by the entry *CatCheckControlFile* in the *DIRECTORY* section of the *matpipe.ini* file. *Matpipe.ini* should be located in the directory in which *matpipe.exe* is located. If *matpipe.ini* does not exist it is created automatically when configuration changes are applied.

5.1.3 Copying Primitives in MATPIPE Modeller

It was previously not possible to copy primitives. An additional menu item “Copy” has now been inserted in the Primitives context menu. The user is requested to enter a new unique name for the copy, or to abort the action. The primitive is copied by pressing OK.



<= Name of the new primitive



Context menu – menu item “Copy” =>

5.2 New Developments

5.2.1 Transfer of Substructures for Configured Parts in the Selector

When selecting configured parts in the Selector, previously only the main object was transferred. For example: Fitting with actuator, only the fitting was transferred. The Selector interface in *SelektorC.dll* has now been extended to all subordinate objects to be passed.

5.2.2 Unique ID for Configured Parts

In order for the configured parts supplied by the Selector to be re-parameterized (e.g. when automatically changing the nominal diameter), a unique ID is required. This ID must also be unique in the case of clones. A unique ID is now generated when passing the object through the interface, and is passed as an additional attribute of the main object.

5.2.3 Clones

Clones under configuration groups disappear after "Update clones". If clones are used in configured parts in a project catalog, then these disappear after updating the clones. All database tables that contain links to cloned objects are updated.

Notes:

The catalog key cannot be longer than 16 characters or contain special characters or spaces. This must be taken into account when making manual changes to the *.mp* file.

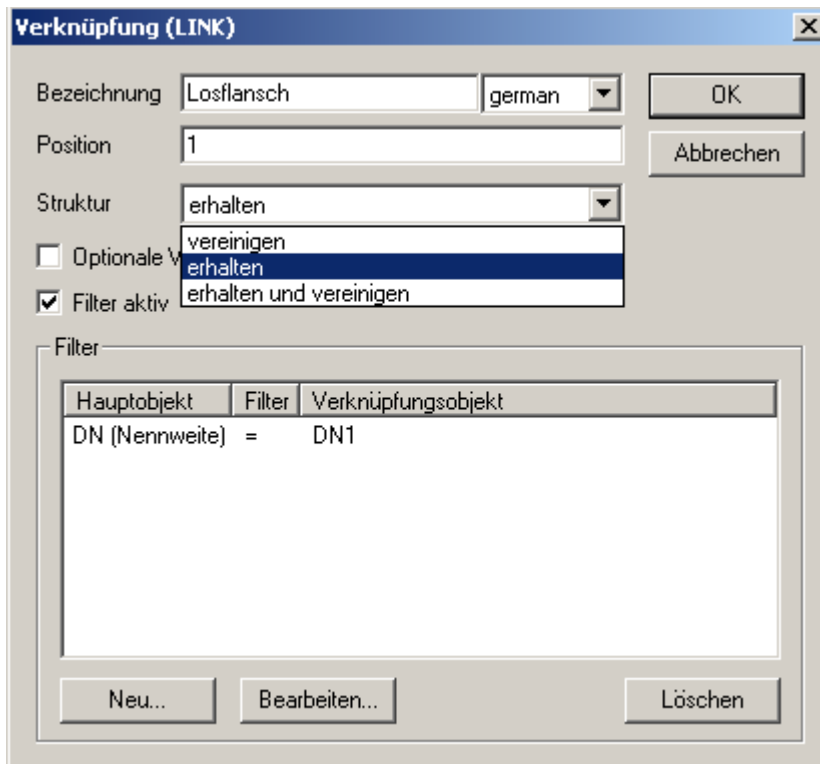
5.2.4 Apply Attributes Additionally in Main Object

In the case of configuration groups, it was only possible to decide whether the attributed of the subordinate object should be applied in the main object ("Import attributes in main object"), in which case the subordinate object was not passed to CADISON, or whether the subordinate object should also be passed. There was no option to import the attributes of the subordinate object into the main object and additionally pass the subordinate object to CADISON.

The Attributes dialog of the configuration group has been extended to include a setting to both import the attributes of the subordinate object into the main object and to pass the subordinate object to CADISON.

Notes:

The Attributes dialog has been extended to include a drop-down box "Structure". The "Import attributes to main object" check box has been removed. The setting of the check box now corresponds to the new selection "Unify" (check box checked) or "Keep" (check box unchecked). The new feature combines the functionality under the entry "Keep and unify".



6 2D-PIPE

6.1 Errors Corrected

6.1.1 No errors have been corrected

6.2 New Developments

6.2.1 No new developments have been implemented


7 3D-PIPE

7.1 Errors Corrected

7.1.1 No errors have been corrected

7.2 New Developments

7.2.1 New Container Wizard

There is a new function to allow containers to be created with the aid of a sequence of dialogs. In the “3D-Container Construction” toolbox, the button  can be found to call this new command.

8 ISOGEN / XREF

8.1 Basic Information for XREFs

As this is a very interesting function, all important conditions that have been fixed since the function was first provided in 5.5 are listed.

- Dimensioning of all components
- Generation of isometric drawing from the reference
- Generation of Rohr2 output from the reference
- Further drawing of pipelines from the referenced drawing

The drawing itself must be opened with the CADISON Designer so that it is known in CADISON. All important parameters can then be applied. The insertion point is predefined by CADISON. It is set to 0,0,0 and cannot be changed. There is a new button for this in the toolbar.

8.2 New Developments for XREFs

8.2.1 Improved XREF Dialog

In addition to the option of assigning drawings, the new XREF dialog now contains the option of overlaying and removing drawings. Only drawings that have been inserted in the PDM can be assigned.

8.2.2 New XREF Functionality

The new and significantly improved XREF functions now provide the option of editing objects from referenced drawings using CADISON commands (e.g. CTRL+RMT).

8.2.3 Link Information from Referenced Drawings

Link information of objects from referenced drawings is also now available. This means that the automatic center line assignment processes the link properties of XREF objects and, for example, automatically places mating flanges on container supports from referenced drawings.

8.2.4 Locking Opened Documents (Drawings)

If a drawing is opened by a user, another user is then unable to open this drawing. An error message appears informing the user of this. If the drawing to be assigned has been loaded, it is automatically unloaded and assigned. When assigning drawings using XREF, the AutoCAD parameter XLOADCTL is set to 2. This activates loading on demand; a copy of the reference file is opened.

This means that XREF drawings are no longer locked by AutoCAD and can be edited.

8.2.5 Collision Control and XREFs (CADISON Collision Check)

The Collision Control function now also takes account of objects from referenced drawings. The better method, however, is to view collisions through NavisWorks.

8.2.6 Rohr2 File from XREFs

Referenced pipelines can now be selected through the graphical selection interface and the corresponding *.ntr file is generated.

8.3 ISOGEN

8.3.1 Generation of Isometric Drawings

A performance problem that occurred when generating isometric drawings with more than 800 isometric objects has been resolved.

8.3.2 CADISON Properties in ISOGEN

Any number of CADISON properties can be passed to the ISOGEN bill of materials. To do this, the file "matlist.mdl" must be edited with a text editor. Entries for CADISON properties must start with a "+" sign (e.g. +USER1 specifies the field "User field 1" in the bill of materials).

Procedure:

The properties to be output must be defined in the file "matlist.mdl", e.g.:

```
STYLE3-CONTROLS
VERTICAL-SPACING 4.0
TEXT-HEIGHT 2.4
TEXT-THICKNESS 3
FABRICATION-DOWN
START-POSITION 418 387
MAXIMUM-ENTRIES 25
ERECTION-DOWN
START-POSITION 418 267
MAXIMUM-ENTRIES 25
STYLE3-DATA-ITEMS
'PT-NO' 418
'N.S.' 433
'ITEM-CODE' 457
'+USER1' 500 <= the property "User1"
'+USER2' 550 <= the property "User2"
```

The "+" sign indicates that this is a CADISON property and must always be entered.

8.3.3 Flange with Holes

Flanges with holes are now correctly displayed as such.

8.3.4 Revisions Table

When creating isometric drawings, the information from \$REV_TABLE in respect of the DWG revision table and accompanying parameters to be used were not transferred to the objects label field along with the associated properties.

The revisions table has now been placed at the position which is configured by default in the labels field.

8.3.5 Layer Assignment of Bills of Materials

The BOM text can be placed on the required layer "MATLIST" using the corresponding style with "DRAWING-LAYER 25" in matlist.mld in the directory ..\cadison\config\vcs-igen\STYLE\.. Layer 25 has been selected for the styles Standard-English and Standard-German (the layer name itself is defined in cadison.ddf).

8.3.6 Create Isometric Drawings in Parallel on 2 PCs

This function was not designed for parallel processing. For this reason, drawings are generated with the same name. If these drawings were then stored in the same document group, then a conflict would occur when saving, and the drawings could be overwritten or stored under the wrong name, or the isometric generation process would hang.

Now it is possible to generate isometric drawings of different pipelines from 2 PCs at the same time, to accelerate this automated process. However, the basic restriction is that these drawings must not belong to the same pipeline. So, for example, if a pipeline extends over several drawings, the isometric drawings must be generated in series (one after the other). If this is not done, there may be further conflicts and system crashes!

8.3.7 3D Pipeline Continued Drawing

If a 3D pipeline was created and equipped immediately, then when continuing the drawing the 3D center line was not placed on the pointer, but the last object from the automated equipment process. This has now been corrected.

9 Electrical Engineering

9.1 Changes/Enhancements

9.1.1 Cross Reference with Symbol PE

A cross-reference to links contains a small PE symbol. In the standard model, the PE character on the symbol has been deleted. This solves this problem.

9.1.2 Plant/Location-Based Cross References

Cross-references should only be located and associated within a location or a plant.

The cross-references contain an additional property that allows the object class to be selected in which the cross-references should be sought. This class can be set by default in the project, so that, if needed, all cross-references can be predefined to refer uniquely to objects within the plant or locality. An exception to this general rule is obviously always possible by configuring individual cross-references.

9.1.3 Updating BMK Texts on Auxiliary Contacts

If the BMK is changed, then the drawing must be updated manually. The drawing is not updated automatically on opening, either.

A setting in the project can predefine whether all subordinate objects should be updated when editing an object. This procedure is needed to avoid any hits on performance for current installations while allowing the functionality required by clients to be implemented.

9.1.4 Line Type Factor for PE Wiring

PE/N lines are not shown as dashed or dot-dashed lines. When creating a new drawing, the template "striplan.dwt" must be selected. This template contains the necessary settings for the lines to be displayed correctly.

9.1.5 Keeping the Line Types when Creating Symbols

When symbols are to be created with dashed lines, the following must be remembered: The required line type is assigned to the element. When creating a new symbol, the switch "Line Type VONBLOCK" must then be deactivated.

9.1.6 Cross Sections under 1.5mm² in Wiring

Cross sections below 1.5 mm² could not be entered or edited. The list of cross sections has been expanded (0.5 mm², 0.75 mm², 1.0 mm²) and now also allows free entry.

9.1.7 Network Structures / Connector types

The connector type 3~ PE did not exist. This connector type has been added to the list. The rated current calculation also takes account of the new connector type. The calculation method has been changed.

9.1.8 Capture Mode for Potential Lines

When connecting a potential line to a terminal, it was necessary to zoom in to very high detail as otherwise one of the connection points of the terminal was hit rather than the center point. The Explorer can be switched off using the F12 key, and the F8 key can be used to deactivate the guide lines.

9.1.9 Auxiliary Contacts of Protective Motor Switch vs. Contactor

The BMK was not displayed immediately in some cases. On the contactor, the auxiliary contact is updated, on the protective motor switch an entry must be made manually. The assignment of the contact is now possible through a selection list, irrespective of the system class (component vs. structural object).

9.1.10 Bus Bars in Circuit Diagram

Bus bars can now be inserted, labeled and differentiated more clearly in the diagram. The bus bars are still drawn as "Potential/Wiring" and correspondingly set to line width 1.0 mm using the AutoCAD "Properties" command. The function text contains the bus-bar cross section, and is then shown on the diagram using "Label objects".

9.1.11 Inserting and Deleting Wiring Diagram Pages

The problem of updating the total number of pages has been resolved. The system now updates the total number of pages when opening or plotting the drawing. The subsequent pages must, however, be reopened or plotted in order to display the most recent view.

9.1.12 Displaying Texts in Tree

In the case of texts that were longer than the window was wide, the right-mouse button did not work when the tooltip appeared. The tooltip in the tree is now suppressed by the program.

9.1.13 Cable Labeling Block

The labeling block should display the cable type and number of wires on 2 separate lines in order to save space. There was no space between the cable type and number of wires. The number of wires is not needed for single-core cables. The user can create a new cable labeling block for single-core cables with the required view.

9.1.14 Displaying the Cable Screen over Several Pages

In the case of cable that is shown on several pages, the cable screen should also be displayed on each page. Three symbols or subassemblies can be created for the cable screen. Subassemblies allow the user to subsequently modify the length of the screen symbol.

9.1.15 Wire Colors and Norm Symbols

Some users have reported that the wire color (sw, bl, etc.) are nowadays specified in capital letters. The line safety switch symbol no longer corresponds to the norm. The selection lists have been modified and the symbol updated.

9.1.16 Width of the Column for QUICKLINK Properties

In order to allow easier selection, it should be possible to view the complete text. The column is currently too narrow to allow this.

When using QUICKLINK Properties selection lists (assignment by opening the selection list) it is also possible to open the CADISON Tables dialog. This dialog allows easier selection, as well as the option to limit and search the required objects. This option for QUICKLINK Properties is also implemented in the "Fill In and Number" command.

9.1.17 Formatting of Decimals / Units

On the basis of various customer requests, changes have been made to the following classes:

Coils: @.@@ mH
Resistance: @ .@@ kOhm
Capacitors: @ uF

The modification to these properties may require the object model to be updated.

9.1.18 Function Text for [Power] Sockets

The function text for sockets could not be entered freely. The property has been changed to QUICKEDIT. The modification to these properties may require the object model to be updated.

9.2 New Developments

9.2.1 No Enhancements

No new functionality has been added in the area of electrical engineering.

10 License Manager (NLM)

10.1 Errors Corrected

10.1.1 Call an ET Data Model License for MSR Symbols

The internal license query has been changed so that no addition ET data model license is now needed to place an MSR symbol. Any license keys generated in the interim can be reset to their original value.

10.2 New Developments

10.2.1 No Enhancements

No new functionality has been added to the License Manager.

11 Navigator

11.1 Errors Corrected

11.1.1 Changes to Commands

All commands under Working Copy have been deactivated in the Navigator.

11.2 New Developments

11.2.1 No Enhancements

No new functionality has been added to the Navigator.

12 Object Model Changes (Standard)

12.1 Plant Construction Object Model

12.1.1 German Environment

12.1.2 English Environment

12.2 Electrical Engineering Object Model

12.2.1 German Environment

12.2.2 English Environment

13 Previously Undocumented Functions

13.1 Errors Corrected

13.1.1 There are no new documented functions

13.2 New Developments

13.2.1 There are no new documented functions

14 Tips and Tricks

This section discusses questions that are raised frequently by our customers through the CADISON Helpdesk.

14.1 Backing Up/Restoring Data

Restoring a database that has been backed up using the “backupdbs” batch routine.

Requirements:

- The database drivers must be stopped.
- Log on as ADMIN (Windows login is used – CADISON admin rights are required)
- If working with “vbackup” the current user must be entered in Group.flg as the DB-Creator (“backupdbs” manages the Group.flg file independently)
- In addition to the backup files that are created, the associated project directory must also be backed up (back-up file and project directory form a single entity)

Back up:

vbackup –device <backup_target_path*.prj> -backup <source_path\DB.prj>

- Is a “true” Versant command
- Currently works for ONE database
- the executing user must have ADMIN rights (i.e. “you” must be entered as creator in the Group.flg file – you also need NT administrator rights (to be seen via dblist))

IMPORTANT:

If you are not the creator and do not have admin rights, the backup will be performed by the data generated will not be usable (**NO WARNING** is given, unfortunately!).

Alternatively, you can use the CADISON command “backupdbs” to perform the backup.

- **Backupdbs –all** (backs up all databases)
- Sets the Group.flg file to the current user and resets the original value after the backup has completed
- Works quickly and cleanly, irrespective of file size.
- Purely admin task

exclusively to create backups for ONE computer (please do not use for more than one computer at once).

Restoring:

If the original directories still exist, items a) to e) need not be performed. However, the requirements (see above) must always be fulfilled.

- a) “makedb –g <DB.prj@<computer name>>”
(accesses the directory Homepath/Homedrive, to which you need write access, so that you must work with the @<computer name> if these do not exist).
- b) “createdb <DB.prj>”
- c) “sch2db –D <DB.prj> Path” (where Path = ...Cadison\System\Winnt\oschema.sch)
- d) “dbuser –add –P <DB.prj>”, to give all users access
- e) copy “profile.be” from an existing database into the new directory and overwrite the existing file (source, e.g. sysdb5.sys)
- f) vbackup –device <*.prj> -restore <DB.prj>

15 Closed Problem Reports (Calls)

15.1.1 Call 2205

Report output 9x9 for undefined field sizes

15.1.2 Call 2684

Freeze/unfreeze AF layer

15.1.3 Call 2720

File save as (with revisions)

15.1.4 Call 4043

2D Tutorial, figure 61, connector points reversed 1<-> 2

15.1.5 Call 4127

Save drawing templates with correct view types

15.1.6 Call 9351

Insert a drawing using the XREF dialog

16 Concluding Information

The next version after CADISON Release 5.5 SP8 will be CADISON Version 6.0. The content and priorities for development, as well as delivery schedules, will be determined in the next few months, and published on our Internet homepage, www.ITandFactory.com.

With this CADISON Release 5.5 SP8 we have included our modified CALL Report Forms. Please use these with immediate effect.

The **CADISON Helpdesk** is available for you at the usual times (Mon – Thu 08:30 – 17:00 and Fri 08:30 – 15:00).

Telephone: 06196 / 6092 - **500**
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You can also contact our employees directly for specific questions:

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Additional information can be found on our Internet homepage:

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We wish you every success in your work with the new CADISON 5.5. SP8

The *CADISON team*