
Release Notes

CADISON

Rel. 6.0

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1 Fundamentals

With CADISON Release 6.0, an additional CADISON release is now available. It is designed as a major release and contains error corrections, further developments and transfer to the AutoCAD2004 platform.

All of the important changes made since the publication of Release 5.6 are described in these release notes.

The large number of previously utilized platforms which were supported in the past will be reduced in future in order to make optimum use of available resources. You will find detailed notes on this in Chapter 2 (Installation Requirements).

The chapter "Tips and Tricks" deals with several topics and issues which have been raised particularly often recently on the CADISON Hotline.

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

Important Note on Voloview:

AutoDesk has declared the previously free Voloview with AutoCAD Version 2004 to be an additional tool liable to payment. This has resulted in a change to the call-in and related licensing when used in connection with CADISON.

The previous VoloView version can be used to preview isometric drawings, as we trigger these internally per DXF.

The drawings, on the other hand, can only be previewed with the new Voloview. Please feel free to ask our marketing staff about the cost of Voloview.

2 Installation

2.1 Requirements

CADISON software in its current form has been tested and released for the following marginal conditions:

Operating systems:	Windows 2000 Prof. (SP1 – SP3) Windows 2000 Server (SP1 – SP3) Windows XP Prof. (SP1)
AutoCAD:	ACAD 2000i (Release end of April 2004) ACAD 2002 (Release end of April 2004) ACAD 2004
CADISON:	Rel. 6.0
Versant DB:	6.0.5.3.
Licence Inquiry:	Via “Softkey” as an individual place or Licence Manager on Windows 2000 or XP
MS Office:	MS Office 2000 / XP

2.2 Update of Existing Installations

An update installation has not yet been realized with the existing Version 6.0.0. This will be achieved with subsequent versions (6.0.1;) by the end of May 2004. For this reason, Version 6.0.0 is only intended for new installations. Please also observe the notes listed in 2.7.

Here are the notes on future update preparations.

Be sure to save your complete CADISON program environment, project databases and all related data in all cases **before** making an update installation.

Notes:

- The changed licence protection should be observed when updating Version 5.4 to 6.0. Please request the necessary new licence key from ITandFactory GmbH well in advance of the installation.
- Customers with an object model adaptation are requested to send their current object model to us so that we can check its ability to run within the scope of your adaptation.
- The log-in is also requested now when registration is called up via the Start menu.

2.3 The Installation Itself

Start the set-up routine from the CD and follow the set-up program instructions.

The set-up for CADISON Version 6.0 has been completely redeveloped and is now based on the latest Windows standards. All previous CADISON set-up routines cannot and may no be used, otherwise the installation will not be made correctly.

2.4 Scope of Delivery

With delivery of CADISON Release 6.0, you receive:

- A CD CADISON Rel. 6.0 program CD
- CADISON 6.0 release notes
- CADISON CALL 6.0 message sheets

2.5 Expansion Modules

The previously separate installation of the expansion modules (ACIS Converter, Pipe2, Commercial Extension, ...) is now performed directly from the CADISON set-up. You must select the User Defined installation type to use this option.

2.6 VCtools are now ITFtools

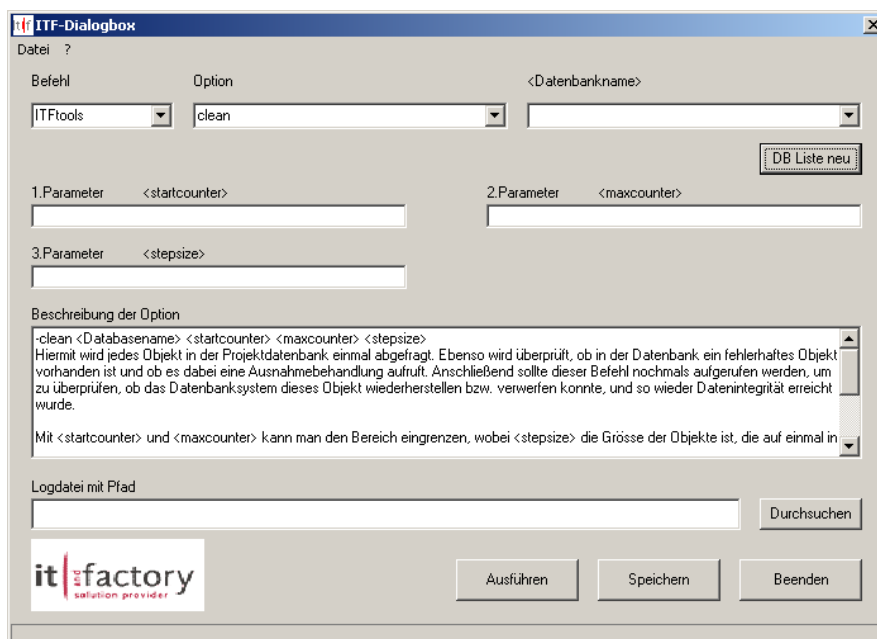
2.6.1 ITFtools

The previous VCtools have now been renamed ITFtools and can only be called up as such.

Start the program in the CMD box with: **ITFtools**

2.6.2 ITFtools via the Windows surface

ITF-Tools are now available via the Windows surface too. The program itself is copied into the CADISON system directory under ...\\CADISON\\System\\Tools in the course of the installation. This program should only be used by experienced CADISON administrators. Please set your access authorization for ITFtools in accordance with your requirements using the standard Windows authorization methods.



2.7 Securing the Databases

With CADISON Version 6.0, the Versant database was also placed on a new basis. To save the data, you must comply with the following procedure in order to ensure the reliable and *SECURE* protection of the data in your CADISON databases. We request that you comply with this procedure at all costs and discontinue using all other methods used in the past.

```
stopdb <databasename>
startdb <databasename>      (This checks all log files!)
stopdb <databasename>
vctools -clean <databasename>
stopdb <databasename>
startdb <databasename>      (This also checks all log files!)
stopdb <databasename>
```

These seven steps must be executed in this exact order before the actual data protection can take place. If you work with XCOPY or similar commands, you must ensure that all hidden or system files in Explorer are also set to visible, otherwise these files will not be saved and the data protection is of no use.

To simplify administration, we will soon be writing a little auxiliary program for the procedure described above.

Note on Data Protection:

After calling up ITFtools in the above order, the Versant service should also be stopped to be absolutely sure that no user can access the database. Upon completion of the above sequence, and execution of data protection, the Versant service and the database should be restarted before continuing operations.

2.8 Licensing

A new licence code for CADISON Release 6.0 should be requested from ITandFactory GmbH. CADISON can only be used for a maximum of 15 days in the demo mode.

2.9 Licence Manager (NLM)

The CADISON Licence Manager is installed automatically during installation, provided that the Network Licensing option is used. The necessary services are also installed onto the selected NLM server and NLM clients.

3 PDM

3.1 *Corrected Errors*

3.1.1 *Problems with working copies – comparing objects*

An error occurred in the conflict check when comparing the objects. It has now been corrected.

3.2 *Further Developments*

3.2.1 *No further developments have been made.*

4 Engineer

4.1 Corrected Errors

4.1.1 Crash when arrow key moved right/left

The program error that occurred when the arrow key was moved to the left or right within a table and caused a crash has been corrected.

4.1.2 TOP12 Function

In the Object Manager dialogue, the function "Empty Top12" reacted wrongly. With this version, the Top12 is emptied completely. If an object type has not yet been inserted, the corresponding Top12 list is empty. In general, only those elements now appear in the Top12 list which were inserted at least once.

4.2 Further Developments

4.2.1 Expansion in Object Inspector

In Engineer, up to now the Object Inspector has always displayed the object selected in the tree. Now the Object Inspector can also display the element selected in the table. If several elements are selected simultaneously in the table, the Object Inspector only displays one of them.

4.2.2 Faster loading times with larger data quantities

When reading in complete projects / document groups, it can happen that an extremely large amount of working memory is used. The reason for this is that all documents are loaded into the working memory first before being transferred to the database. The working memory is only released once all of the information has been stored in the database. Thanks to a new variable in CDSN60.INI, this behaviour can be altered.

If the following entry is listed under the section [PHI-CADISON],

```
SINGLE_READ_IN=ON
```

every document is transferred into the database individually and removed from the working memory immediately thereafter.

4.2.3 Display with many projects

If there are a great many projects (more than 2000), it can take several minutes until the dialogue „Copy objects“ appears from the menu “Edit->Working Copy-> Copy Objects” in Engineer. The dialogue appears faster in this version.

4.2.4 Optimization of cross-project copying

If you are working in Engineer with the function "Cross-project copying" from the "Edit" menu, the selected objects are stored in the system database (normally sysdb6.sys). From there, the objects can be inserted into another project database with "Cross-project copying". This operation can put an extreme load on the system database in a multi-user environment. This version offers the option of conducting this intermediate storing in the article database (artdb6.art) instead of the system database. If the following entry is listed in CDSN60.INI under the section [PHI-CADISON],

```
CLIPBOARD_IN_ARTDB=ON
```

the "Cross-project copying" function works with the article database. Should the article database become too large in the course of time because of this, it can be deleted without any risk from time to time and created anew.

4.2.5 Display text with many objects in CADISON Tree

With a great many objects, the display text for CADISON Tree is deleted in some operations. As soon as the corresponding operation is ended, CADISON automatically regenerates this display text for the objects affected. This process can take several seconds, however, and in some cases several minutes. Up to now, it could not be recognized that CADISON was executing this task.

Now at this point, a status dialogue with a progress bar shows visually how far this process has progressed. Although the dialogue offers a "Cancel" button, it cannot be clicked. The ESC button has to be pressed to abort the process. This cancels the regeneration of the display texts. CADISON must, however, regenerate the display texts at the latest when the corresponding objects are to be displayed in the Tree. By cancelling this process, therefore, you do not save any processing time, you only postpone the process to a later point in time.

5 MATPIPE

Extensive error corrections and expansions within MATPIPE have been realized and released in Release 6.0.

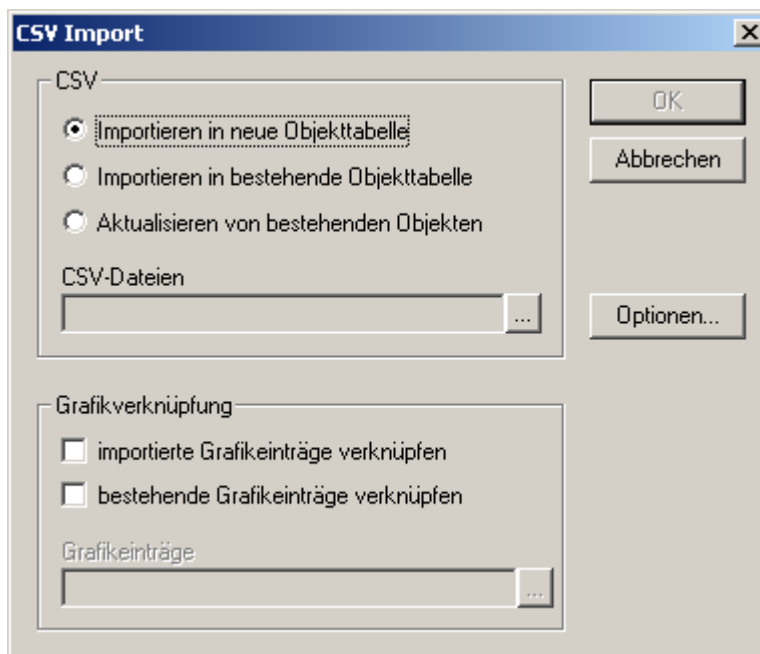
5.1 MATPIPE in General

5.1.1 Settings for CSV Export / Import

The Import function has been completely revised.

To begin with, the chapter should be selected in Tree in which the imported parts are stored. If no chapter is selected, the parts are stored directly below the tree root.

Menu: Catalogue→Import→CSV Files...



CSV:

Selection of the Import / Update Mode

The *OK* switch is only available once the import files have been selected in the field *CSV Files*.

Graphic Links:

This option is only available in the Import mode. In general, only graphic entries are imported and linked with objects of the same type (Graphic Pump ↔ Object Pump).

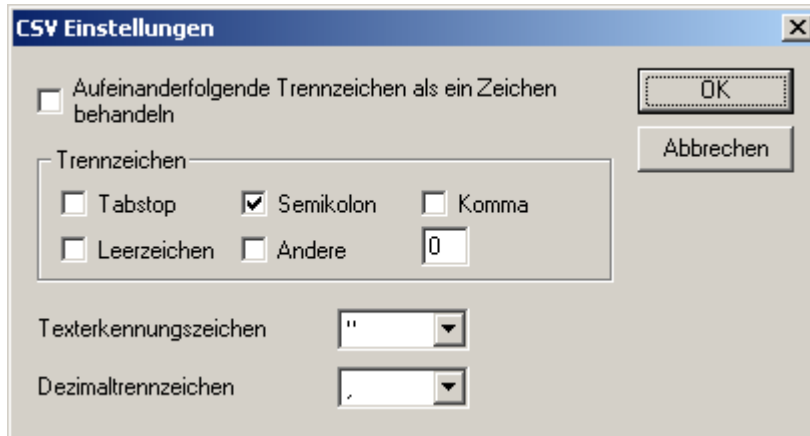
Linking imported graphic entries:

All graphic entries selected in the field *Graphic Entries* are linked with the imported objects.

Linking existing graphic entries:

All graphic entries in the catalogue are linked with the imported objects.

Options...



Hyphenation:

Determines the characters to be interpreted as separation marks.

Regard consecutive separation marks as one character:

Several consecutive separation marks are interpreted as one single mark. This setting is useful for the separation marks *Space* and *Tab Stop*.

Text recognition marks:

Values which themselves contain hyphenation are enclosed in text recognition marks in order to avoid undesired column changes.

Decimal point separation:

Decimal points for numbers with floating points

5.1.2 Format of CSV files

A CSV file must satisfy the following restrictions:

- Every column must have a heading.
- Headings must have the following structure:
- *name* ['@' *language*] [{ space | tab } (' *descript* ')]
- *name* can be in either the UPPER or lower case and must be unequivocal
- *name* may not be empty, otherwise the column is ignored.
- The *language* must be listed in the catalogue, otherwise the column is ignored.
- Columns with the language 'formula' contain the formula of calculated fields.
- The column *P_SHEET* is ignored.
- Blank lines are ignored.

Additional restrictions apply, depending on the Import / Update mode:

Importing into New Object Tables

- If a language is given (*language* is not empty), the column is set to multilingual. Multilingual columns are set to data type Text.
- If the contents of a text column exceed 255 characters in length, the column is set to data type Memo.
- If *formula* is given as the language, the column is set to CALCULATE.
- The columns *P_name* and *P_type* must exist.
- The column *ITEMKEY* is ignored.
- Columns with the name *UNIT* must have a valid preceding column, otherwise they are ignored.
- The values of the column *P_type* and *P_name* [@ default_language] may not be empty, otherwise the line is ignored.
- The column *P_type* must contain a valid object type of the object model, otherwise the file is ignored.
- The values of the column *P_type* must be identical within one file.
- Whether a file for import is created as a main entry or sub-entry depends on the column *P_name*: if the value in one line of the column is not the same as that in another line although the values in the column *P_name* are identical in these lines, the column becomes a sub-entry. The column *P_name* is always a main entry.

Importing into Existing Object Tables / Updating of Existing Objects

- The column *P_type* is ignored.
- Columns with the name *UNIT* are ignored.
- The column *ITEMKEY* must exist and must have the following structure:
itemkey := [*projectkey*]:' class [':' master_id ':' detail_id]
- *Class* must be a valid object table from the catalogue, otherwise the line is ignored.
- The values of *class* must be the same within one file.
- If *formula* is given as the language, the column is only accepted if the property of the object is also a CALCULATE field.
- Multilingual columns are ignored if the property is not multilingual. Only the column with the standard language of the catalogue is considered.

5.1.3 No message that the export of the configuration is finished

The missing message text was added.

5.1.4 MATPIPE crashes when saving

Description: There is a new button in the toolbar for saving the data changed in the table. The problem has been solved.

5.1.5 Multilingual properties / Translation of headings in MATPIPE

Description: In the dialogues Chapter Properties, Property Characteristics, Catalogue Properties and Configuration Group Properties, the translation dialogue for multilingual attributes is included. The translation dialogue for multilingual properties can be reached in both tables via the F3 key. The Languages dialogue (catalogue item in Tree Context Menu->Languages) has been expanded so that the utilized dictionary, source and target languages can be set for the translator.

5.1.6 Mask standard CADISON attributes in MATPIPE

Description: When reading in the attributes of the object model, only those attributes defined as visible (ADD) are read in.

5.2 PARAPIPE

5.2.1 "This" property

In the properties of a primitive, the primitive itself can be addressed with "this".

Description: Property references to the separate properties of a primitive can be created with the key word "this". Graphic versions which contain a primitive or connection point with the name "this" and make reference to this fact become incompatible.

Example:

With Cylinder C1, Diameter 2 should always be equal to Diameter 1:

Up to now, the formula for Diameter 2 has always been given as "C1.Diameter1". If this primitive is copied, however (e.g. into C3) the formula for Diameter 2 still makes reference to C1.

With the new function, it is possible to give the formula for Diameter 2 as follows: "this.Diameter1"

5.2.2 Angle of rotation of the X-axis is taken into consideration with N-angles

The angle of rotation of the X-axis is now taken into consideration with N-angles.

5.2.3 Predefined insertion points on the sides of the N-angle or round square

Description: The centre points of the sides of the round square or N-angle can be addressed with the functions *ip()* and *ir()*.

N-Angles: The centre point of the side of the primitive is available for each covered side of the primitive (insertion points 3 to (edge number + 2))

Round Squares: Four new insertion points (3-6) are available

5.3 Catalogue Checker

5.3.1 MATPIPE graphics cannot be generated in the designer

Description: Due to incorrect formulas, variants cannot be calculated and inserted.

A variant cannot be stored in PARAPIPE if it cannot be calculated properly. The catalogue checker has been expanded by one check of the calculability of the variants. This does not ensure, however, that it will be possible to insert the variant in all cases, as the parameters of the variant can change when the variant leaves the catalogue (insert graphic from CADISON, help variable).

Available place markers: GRAPHICENTRY, OBJECTTYPE, OBJECT (primitive if available), PROPERTY (property if available)

5.4 Tests

5.4.1 Formulas are limited to 255 characters in PARAPIPE

Workaround: Create help variables to evacuate parts of the formula

5.4.2 Calculate parameters are not updated when copying

Description: This is correct. Since a copy of the values is made and the results of the Calculate properties are also copied, this is not necessary.

5.4.3 Deleting configurations in the CONFIGURATION tag

Description: MATPIPE crashed during the multiple deletion of configurations. This problem has now been solved.

5.4.4 Min/max values are not considered

Description: Min/max values are now stored correctly. The value is coloured red (in both tables) when the area of validity is exited.

5.5 New Pipe Classes

With the delivery of CADISON Version 6.0, a total of eight pipe classes are now available. These supplied pipe classes are examples from everyday practice.

The following pipe classes are now available in CADISON:

Pipe Class 1:	Steel, nominal pressure 10 bar	ITF_ST10C
Pipe Class 2:	Steel, nominal pressure 16 bar	ITF_ST16C
Pipe Class 3:	Steel, nominal pressure 40 bar	ITF_ST40C
Pipe Class 4:	Stainless steel, nominal pressure 10 bar	ITF_VA10C
Pipe Class 5:	Stainless steel, nominal pressure 16 bar	ITF_VA16C
Pipe Class 6:	Stainless steel, nominal pressure 40 bar	ITF_VA40C
Pipe Class 7:	Steel, PTFE-coated	ITF_STPTFE10C
Pipe Class 8:	Plastic	ITF_PE10C

The "Pipe Class Tutorial" is also provided.

ITandFactory GmbH gives no guarantee whatsoever in regard to the completeness of the pipe classes or absence of errors.

6 2D-PIPE

6.1 *Corrected Errors*

6.1.1 *Global scaling factor*

The problem with the global scaling factor for symbols has been solved.

6.1.2 *Multipolylines*

The parameterization of Multipolylines is now fully functional.

6.2 *Further Developments*

No further developments have been made.

7 3D-PIPE

7.1 *Corrected Errors*

No errors have been corrected.

7.2 *Further Developments*

7.2.1 *Screw length calculation*

Screw length calculation has been completely redeveloped, thereby solving several errors from the past too.

8 ISOGEN / ISOMET

8.1.1 *New ISOGEN version*

The latest ISOGEN Version 8.5 has been integrated into CADISON 6.0.

8.2 ISOMET

8.2.1 *Calling up the interface to ISOMET*

With Version 6.0, the way to the product ISOMET is also open to you in addition to the well-known option of generating isometric drawings from the 3D model. A detailed description will be given in the next release notes (6.0.1).

9 E-Technology

9.1 *Changes/Expansions*

No changes have been made.

9.2 *Further Developments*

No changes have been made.

10 Licence Manager (NLM)

10.1 Corrected Errors

10.1.1 DCOM settings for the Windows installer

After the installation of CADISON NLM, there were problems with the DCOM configuration. These can be solved as follows:

Reset the DCOM configuration on the computer to Standard.

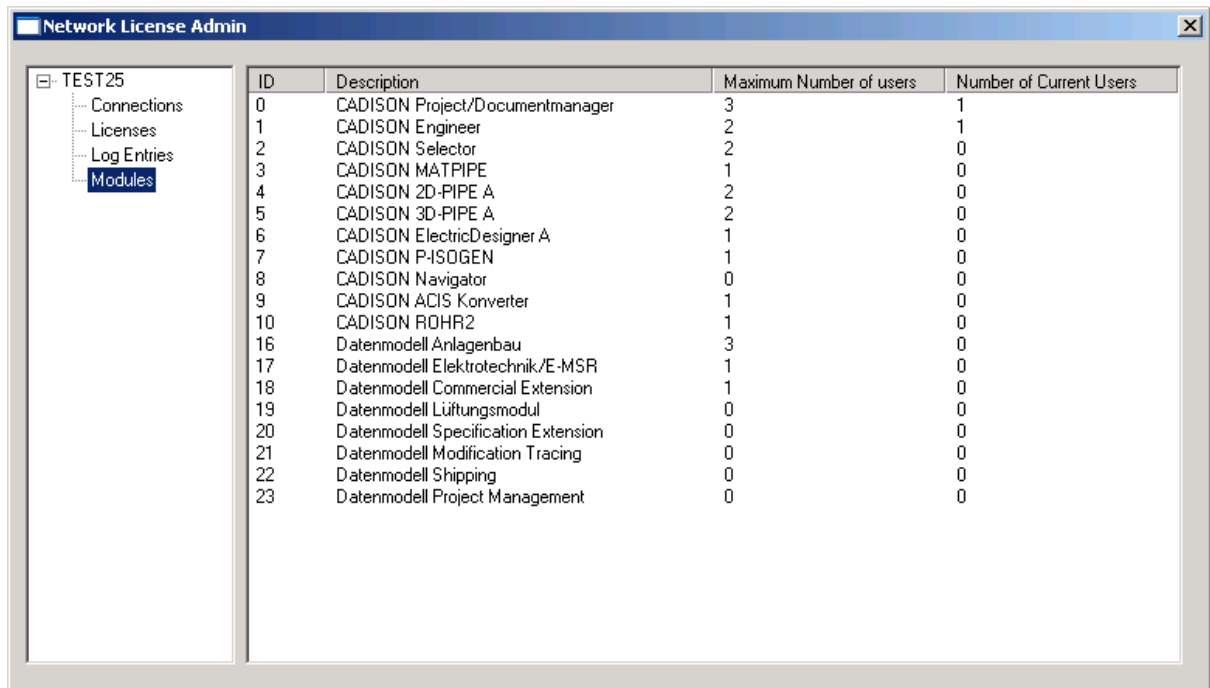
10.2 Further Developments

10.2.1 Release of the licence server service for an XP computer

The CADISON licence server service can now be installed on Windows XP computers too. The licence clients can run under Windows 2000 or Windows XP.

Example:

Overview of available and currently used CADISON licences.



The screenshot shows the 'Network License Admin' window for a server named 'TEST25'. The 'Modules' section is expanded, displaying a table of installed licenses. The table has four columns: ID, Description, Maximum Number of users, and Number of Current Users. The licenses listed include CADISON Project/Documentmanager, CADISON Engineer, CADISON Selector, CADISON MATPIPE, CADISON 2D-PIPE A, CADISON 3D-PIPE A, CADISON ElectricDesigner A, CADISON P4SDGEN, CADISON Navigator, CADISON ACIS Konverter, CADISON ROHR2, and several 'Datenmodell' (Data Model) extensions.

ID	Description	Maximum Number of users	Number of Current Users
0	CADISON Project/Documentmanager	3	1
1	CADISON Engineer	2	1
2	CADISON Selector	2	0
3	CADISON MATPIPE	1	0
4	CADISON 2D-PIPE A	2	0
5	CADISON 3D-PIPE A	2	0
6	CADISON ElectricDesigner A	1	0
7	CADISON P4SDGEN	1	0
8	CADISON Navigator	0	0
9	CADISON ACIS Konverter	1	0
10	CADISON ROHR2	1	0
16	Datenmodell Anlagenbau	3	0
17	Datenmodell Elektrotechnik/E-MSR	1	0
18	Datenmodell Commercial Extension	1	0
19	Datenmodell Lüftungsmodul	0	0
20	Datenmodell Specification Extension	0	0
21	Datenmodell Modification Tracing	0	0
22	Datenmodell Shipping	0	0
23	Datenmodell Project Management	0	0

11 Navigator

11.1 Corrected Errors

11.1.1 Command changes

All working copy commands have been deactivated in the navigator.

11.2 Further Developments

No new functions have been integrated into the navigator.

12 Object Model Adaptation (Standard)

12.1 Terotechnology Object Model

12.1.1 German Environment

No changes have been made.

12.1.2 English Environment

No changes have been made.

12.2 E-Technology Object Environment

12.2.1 German Environment

No changes have been made.

12.2.2 English Environment

No changes have been made.

13 Tips and Tricks

In this section, we discuss topics about which our customers frequently inquire via the CADISON Hotline.

13.1 MDT Objects in CADISON and Object Enablers

Question:

What has to be observed when creating an Object Library in CADISON Designer with a Mechanical Desktop / Mechanical / Mechanical Power Pack (MDT)?

Answer:

As long as no MDT objects are stored in the library, you do not have to observe anything in particular. If MDT objects are stored in the library and if this library is only used with MDT, no problems are encountered either. As soon as MDT objects are stored in the library, however, and the library is used without MDT, there is one thing that should be observed.

MDT defines special object types which a pure AutoCAD or Architectural Desktop (ADT) do not know. For these AutoCAD versions, the MDT objects are so-called proxy elements. As an AutoCAD does not know these elements, it cannot display them under normal circumstances. There is a mechanism in AutoCAD, however, which makes these proxy elements visible. On the one hand, the MDT objects can be notified during saving as a DWG file that so-called proxy graphics are to be saved too. This process is controlled via the AutoCAD variable PROXYGRAPHICS, which can be set via the AutoCAD command line. If this variable is set to '1' in MDT, the MDT objects in the DWG file create this proxy graphic, which can then be used by a regular AutoCAD / ADT. In addition to this, however, a pure AutoCAD / ADT must be informed that it also has to display this proxy graphic. To do so, the AutoCAD variable PROXYSHOW must be set to the value '1'.

Before objects in MDT are exported into a library, therefore, you should check that PROXAGRAPHICS is set at '1'. With the CADISON workstations which do not use MDT but in which these libraries are to be used, PROXYSHOW must be set to '1' once only (PROXYSHOW is stored in the Registry by AutoCAD, so that this setting only has to be made once per workstation).

There is an alternative method of displaying MDT objects in AutoCAD (not ADT). Autodesk has so-called object enablers. These are little auxiliary programs for AutoCAD, which define additional object types in AutoCAD. Thus, for example, there is an object enabler which defines the MDT objects. If this object enabler is now installed in an AutoCAD, this AutoCAD then knows the MDT objects, which means that the proxy graphic does not have to be used. This in turn means that there are no longer any problems whatsoever when MDT objects are inserted into CADISON as part of an object library, because AutoCAD then knows automatically that it has to load the corresponding object enabler for the MDT objects.

These object enablers are freely available to everyone via the Autodesk web site, from where they can be downloaded for free. They are only available on Autodesk's English language web pages under www.autodesk.com.

Currently <http://usa.autodesk.com/adsk/servlet/index?siteID=123112&id=2753223&linkID=2475161> is the exact link to the object enabler web site, but it is possible that this link will be changed in future. If it is no longer available, you can find the latest main page at any time via the "Search" function by searching for "AutoCAD Object Enablers". On this page, you can then select the AutoCAD version in which the drawing was created (in this case, select "Autodesk Mechanical Desktop 6") and any other AutoCAD version into which the drawing is then to be loaded (in this case "AutoCAD 2002") before finally pressing the "Go" button. When you do this, a link appears under which you can download the object enabler.

13.2 Saving the CADISON User Administration

The CADISON user administration system available via the PDM enables you to define the authorization structures and roles within CADISON. For this reason, in addition to the proper saving of the CADISON databases (sysbd6.sys, defdb6.def, artdb6.art, ...), you should also generate a report of the assigned authorizations and file it with your documentation. By doing so, you are then able to produce all existing authorizations immediately in the event that a complete back-up should be necessary.

14 Completed Calls

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15 Final Information

CADISON Version 6.0.1 will be issued as a follow-up version of CADISON Release 6.0. The contents, focus of further developments and delivery dates will be determined in the next few months before being published on our home page under www.ITandFactory.com.

Our adapted CALL message sheets will be delivered along with CADISON Rel. 6.0. You should use these effective immediately.

The **CADISON Hotline** is at your disposal at the usual times (Mon. – Thu. 8.30 am – 5.00 pm and Fri. from 8.30 am to 3.00 pm).

Tel: 06196 / 6092 - **500**
Fax: 06196 / 6092 - **202**
E-mail: cadisonhotline@ITandFactory.com

If you have any specific questions, please contact our staff directly.

CADISON Training:

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Tel: 06196 / 6092 - 511
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You will find more information on our home page under:

www.ITandFactory.com

and

info@ITandFactory.com

We wish you great success with the new CADISON 6.0.

Your *CADISON Team*