



Model Management

21. April 2023

Version 2023

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1 Model Management

Welcome

1.1 Introduction

CADdy++ Model Management (abbreviated to MV) is an expansion module within the *CADdy++* software package. It offers its users an easy-to-use means of managing the models (3D data) and the drawings (2D data) that have been completed. In addition to a file name the user can save a wide range of model and drawing information in a database.

The Model Management software is based on standard databases that can be accessed via an ODBC interface. The software includes a database with the name CADDYMV.MDB already assembled in the form of an Access® database.

This database contains a number of different text boxes which have a specific use (identifier fields for such information as the drawing number or audit) and other types of variable information (including the scale and the date); there are also other text boxes that the user can fill as is required, whenever a certain kind of information needs to be saved.

The program can search for any combination and sequence of information (also with the wildcard *), which means that even if you have a large database, you can still find a specific record quickly by skilfully defining the search criteria that are to be used.

Model Management can help you to complete a new model by adding an unlimited number of 2D drawings. The template file that you will need to do this can be selected with the help of Model Management, where it will also be managed.

Provided that you have supplied the standard sheet symbols in the 2D drawings with the attributes that include the appropriate wildcard descriptions, the database entries that are part of the drawing will be inserted automatically in the text boxes.

Frequently you will have completed models/drawings before starting to use Model Management, but you can still include these later in your Model Management database. Provided that the text boxes have been prepared properly the information in them will be automatically inserted in the database.

If you are a user of *CADdy* who has been working with drawing management up to now and you have now made the change-over to *CADdy++*, you will have no difficulty in converting your old data into the Model Management format.

You will an efficient conversion program to do this for you. If you use these newly converted records to load a PIC file, it will be converted automatically into the MOD format. You do not, therefore, have to convert all the PIC files at once: they will be dealt with automatically as required by the Model Management program into the new data format.

1.2 Installation

CADdy++ Model Management will normally be part of the *CADdy++* installation procedure. Full information can be found in the user manual.

ODBC link

All the Model Management data is saved in the Access® database **CADdyMV.MDB**.

On completion of the installation procedure the file will be in the folder **...\CADDYMA\Program\Database**.

Model Management accesses this file by means of a temporary ODBC link **CADdy MV intern**. This link is then removed again as soon as you exit the program again. If the database is also to be accessed in a different folder, for example in a network drive, the exact location and the designation of the database driver must be known to the system. The link between data source, driver and the Model Management program is completed by means of the ODBC interface.

Use the procedure described here to set up this link:

1. Copy the database **CADdyMV.MBD** into a suitable folder.
2. First activate the **Start Menu** and then execute the commands **Settings, System Control**.
3. Activate the **ODBC** Administrator.
4. Specify a new data source by clicking **Add**.
5. Select the driver in this dialog box **Microsoft Access Driver (*.mdb)**.
6. Click the **Complete** command button to allocate a database source to the driver you have just selected.
7. Type the entry **CADdy MV** in the text box **data source name** (ensuring that there is a blank between the 'y' at the end of *CADdy* and Model Management). This is the name used internally by

Material Management for the database, so you must make sure you type the name absolutely correctly.

8. Click **Select** to choose the folder containing the database file named **CADdyMV.MDB**.
9. Mark this file and exit all the dialog boxes by clicking **OK**.

The link we have described above must be created on each computer separately so that its user will be able to access the Model Management database individually.

The network administrator must allocate the appropriate write and read authorisation to ensure that all the Model Management users will have access to the file.

Please note:

Before starting to work with Model Management, you must specify your user ID and complete all the other settings you think that are necessary for the management procedure.

You should first read through the chapter entitled ***Determine settings for Model Management***.

1.3 Start program

Once Model Management has been installed, the ODMA interface will be active as soon as you start **CADdy++**.

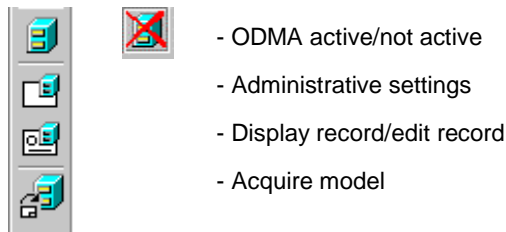
For this reason you will see the **Login** dialog box as soon as you have started the program and you must type in your **User name**.

If no user name at all has been specified in the management, the system will automatically insert the user name supplied internally, i.e. **Standard**.

A full description of specifying a user name and of completing other Model Management settings can be found in the chapter entitled ***Determine settings for Model Management***.



During the installation procedure the 2D and the 3D toolbars will be extended by the addition of the icon for the **EDM System**. You can click it to open another toolbar:



Provided that the ODMA interface is active, you can activate some of the commands used with Model Management by clicking the icons shown in the above table.

If you have decided to manage a new model with the help of Model Management, do not start to draw anything as soon as you have started the program. First call up the **File, New Model** menu command. In this way you will activate Model Management and you will see a dialog box for selecting and entering the data that you require.

In addition to the above command the active ODMA interface will load the Model Management dialog boxes, after you have call up any of the following menu commands:

File, Open Model

File, New Template

File, Open Template

The same applies to the following commands, when you are working on a model that is managed in Model Management:

Insert, New 2D-Drawing

Model Explorer, New, 2D-Drawing (Strg-N)


Model Explorer, Rename Drawing

You will find further information on the commands and the dialog boxes in the chapter entitled **Work with Model Management**.

1.4 Exit program

As long as the access to the ODMA interface remains active, Model Management will always be available to you in the background and then loaded as soon as you activate any of the commands listed above. Leave the dialog boxes simply by clicking either of the command buttons **Cancel** or **OK**.

If you want to work on a model that has data not to be managed in Model Management, you just have to deactivate the ODMA interface:

1.  Click the icon to start the **Activate/Deactivate ODMA** command.

2. Reply to the security prompt asking whether the current status of the model you are working on is to be saved or not.
3. If you have just been working on a model which has its data saved in Model Management, a copy will be made using the name MODELL.MOD so that none of its data is lost.
Finally, acknowledge the message by clicking **OK**.



You will then see from the icon that the ODMA interface is no longer active.

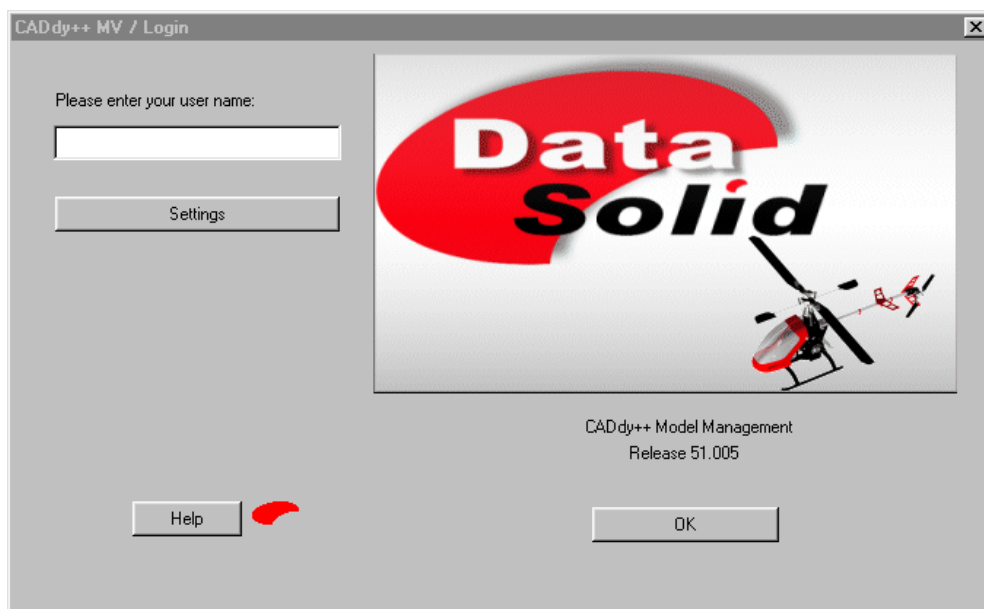
You can activate the interface again by clicking the icon.

2 Determine settings for Model Management

2.1 Enter user name

As soon as you have started *CADdy++*, you will see the **Login** dialog box.

Before you can start working with Model Management, you will have to type in a user name known to the system to which the settings for the module are linked:



First start-up

When the module is being started for the very first time, no name has been specified and the only name is that laid down by the program:

Standard.

It is for this reason that as soon as a new user name is specified, you

will see a message informing you that the you are obliged to use the name **Standard** that is already prescribed.

You can find out how to integrate the user names and their settings in the management process in the next chapter entitled **Administrative settings**.

Starting after a name has been specified


If the management system contains the user names and their settings, you can enter one of the names in the box and then confirm the entry by clicking **OK**.

The Model Management module will now run using the settings applicable to this particular user name.

2.2 Administrative settings

Before starting to work with Model Management to create the models and to gather the data for them, you must specify the user names that you will require and their appropriate settings.

There are two different ways of calling up the dialog box needed to complete these steps:

- In the Login dialog box you will see a command button **Settings** that you can click to open another dialog box. Then you can use the cards in it to complete the settings you are going to need for your work with the Model Management module.
-  Another method is for you to call up the dialog box by clicking the icons **EDM System, Administrative Settings**.

The program will automatically create a record in CADDY.MVB for each user name that will contain these settings.

Use this method:

1. Select the option card headed **Management**.
2. Click the **Manage user** button.
3. Enter the name for the new user and then save the entry.
4. Deactivate the ODMA interface.
5. Activate the ODMA interface again and then log in using the new name.
6. Complete all the settings that you require.

The “Parameter settings” dialog box

This dialog box is for completing the parameter settings that are to apply when a new model is started or when you want to access a 2D drawing.

In addition this box can be used to specify the settings that are to apply when box data is taken over while you are importing CADdy PIC files.

Possible values

You can make entries in the boxes in this section to prescribe how the following values are to be constructed: **Drawing numbers**, **Model numbers**, **Drawing name** and **Model name**. These values will apply when a new record is set up.

The character sequence entered here will always be completed by the next number in a sequence.

The formation rule specified in the **Drawing name presetting** box has a special feature: If your entry is *Model name* or *MODEL NAME*, the program will automatically suggest the same name as that given to the 3D model for the 2D drawings used in that model, followed by a number.

You can use the **Audit presetting** box in the following ways:

- If you want to designate the audits numerically, you must enter an initial value that will then be increased by 1 automatically after each audit.
- Letters can be used instead to designate the audits by using the following combinations:

| Initial Value | Next Value |
|---------------|------------|
| A | B |
| AA | AB |
| Z | AA |
| AAZ | AAAA, etc. |

The same procedure will apply if you use lower case .

New Set up

After you have opened the list **Format for new set up**, you can select which of the standard sheet symbols in the standard sheet management is to be inserted in the partial drawing **standard sheet section** when you start a new 2D drawing .

This entry also specifies the dimensions of the 2D drawing.

The entry you make in **Scale for new set up** will determine a scale by selecting one of those offered or by typing in a scale yourself. This scale will apply to the first partial drawing that with the exception of *Standard sheet section* is in the template selected for use.

Text field data

You can use the number you enter for the **max. no. of history entries** to specify how many entries (as a maximum number) are to be included in the drawing modification history.

If the entries are to be entered in the standard sheet symbols text box, you must ensure that there are enough attributes to allow for the text to be included.

These must be given those names that you have given in the **Attributes/Database Allocation** dialog box for STATUS, PROC. TEXT, PROCESSED BY, DATE, each followed by a number.

You can also import CADdy PIC files that have been managed with CADdy ZV. The standard sheets used in these drawings can be erased and replaced by standard sheet symbols. The same can be done to rake over the texts.

If this is what you want to do you must complete entries in **Text field layer 1** and **No. of text field layers**, to specify the layers containing the entries in the CADdy PIC file. These layers are not permitted to have names.

The standard sheets supplied to you as part of your CADdy software already includes the layers 497 – 500 for this purpose. Accordingly you would have to enter 497 and 4 here.

The “Names” dialog box

The text boxes in this option card can be used to tailor the interface of all the Model Management dialog boxes to suit your individual requirements.

What this means is that you can yourself determine what names are to appear alongside the text boxes for the data relating to 2D drawings and models.

You can, for example, replace the name *Drawing number* with *Article number*.

Please note:

Do not change any of these names, unless you have used a different name and not Standard to log into Model Management. In this way the original names and the ways they have been

allocated to the text boxes for use with the internally set user name *Standard* will not be lost and will also provide useful information.

2D objects/drawings

The text boxes in this section are for you to specify the names for the 2D drawing data managed in the database.

3D objects/models

The text boxes in this section are for you to specify the names for the 3D model data managed in the database.

Both object types

The text boxes in this section are for you to specify the names for the entries relating to file names and extensions.

The “Attribute/Database Allocation” dialog box

When you start on new 2D drawings, all the information in the database should be entered automatically in the text box. In addition, when models/drawings are being completed, the entries in the text boxes should be transferred automatically into the corresponding database fields.

The only way of ensuring that this will happen is for you to use the correct standard sheet symbols that have the attribute texts in their text boxes in the same way as this has been done already in the standard sheet symbols supplied as a standard part of your software.

A full description of how to design such standard sheet symbols is given in the chapter entitled ***2D Commands, User-defined standard sheets*** in the *CADdy++* manual.

The allocation completed in this dialog box must be correct, otherwise database texts cannot be transferred correctly to the attribute texts in the standard sheet symbols:

Type the name (not the value) of the attribute contained on the standard sheet symbol for all the variable names managed in the database that are displayed in capital letters in the left hand column.

All the master records indicated by two asterisks are wildcards for the entries in the modification history.

The entry here always has to be a single attribute name, such as *Status*. Entries running into a number of lines are possible as well, because the other attributes can be given the names *Status1*, *Status2*, etc.

The “Management” dialog box

This option card is for activating the dialog boxes for managing users, standard sheets and folders.

Manage users

This dialog box is for adding user names to the settings managed by Model Management or to delete any no longer required.

All the settings made in Model Management are saved for specific users in CADDYMV.MDB and so you should first add user names to the list of users before making any settings, exit Model Management and then start again by typing in the new name.

Add user name

You can add a new user name, by typing it in the **List of users in MV database** box.

Afterwards just click the **Add user** command button that is now active.

Erase user name

You can delete an unwanted user name from the list by selecting it in the list and then clicking the **Erase user** command button.

If an attempt to log into the Model Management without any name or with one not in the list, the internally-set user name *Standard* will be used instead.

Manage standard sheets

When you are working with Model Management you will not be able to insert standard sheet symbols automatically in the partial drawing standard sheet section, unless their names are known to the program. The only standard sheet symbols that the program will recognise will be those that the symbol library NORMBLAT.SYL contains.

The entries saved in the database will be transferred to the standard sheet symbol text boxes directly, provided that the entries contain the attribute texts as wildcards in the same way as they are on the standard sheets supplied with your software.

You will find a description of how to draw the standard sheet symbols in the CADdy++ manual in the chapter entitled **2D Commands, User-defined standard sheets**.

Add standard sheet

You can insert a standard sheet symbol by typing its name in the **List of standard sheets** box. You must ensure that the way you enter it

and the way it has been entered in the standard sheet library are identical. Afterwards click the **Add standard sheet** command button that is now active.

You can add a description for the standard sheets by selecting one in the list of standard sheets, type an entry in the **description** box and then save by clicking **Accept modifications**.

Erase standard sheet

You can delete a standard sheet from the list by first selecting it and then clicking the **Erase standard sheet** command button.

Manage folder entries

The commands in this dialog box are for changing the folder entries in the database.

This becomes necessary when the MOD files managed in the database have to be moved to another drive or to another folder as could happen with a change of server.

Please note:

The change that you make here will effect only the entries in the database.

You can physically move the MOD and SAT files only 'by hand', for example by using the Windows Explorer.

Change the folder information in the following way:

1. Select a 'processed by' entry from the **List of users in MV database**, or use the setting *All users*, if no difference is to be made.
2. Select the folder entry to be altered in the list of **Source folder**.
3. Click the **Browse** button to locate the **Target folder**, i.e. the one with the name that is to replace the name of the source folder in the database.
4. Click the **Accept folder entries** command button to transfer the new name to the database.
On completion of this step you will see a message that you must acknowledge by clicking *OK*.
5. If there are several sets of folder information against the 'processed by' you have selected, repeat steps 2 – 4.

2.3 Use templates

When you are starting on new models and their records in Model Management, you can select a template file to transfer the settings in it to the new model.

It is important to note the following differences between using templates 'normally' and using them in Model Management:

- If a template contains more than one 2D drawing, a new record will be created for each drawing when the new model is started on. If you do not want this to be done, the template must contain only one 2D drawing.
- The sheet dimensions used for the 2D drawing will be ignored as soon as the model is started on.
The standard sheet symbol that you have selected as the **Format for new set up** in the **Parameter settings** will determine them. This symbol will, then, probably replace the standard sheet symbol that is already in the reserved standard sheet section.
- The scale applicable to the first partial drawing (adjacent to the reserved standard sheet section) will be ignored. This scale will be replaced by the one specified in the **Parameter settings** as the scale for a new template.

Generate new template with a record

When you are using Model Management commands to generate a model, you can choose two methods of selecting a suitable template:

- You can use the entries in the Model Management database to select the template.
- You can use the 'normal' selection dialog box to find a suitable file.

If you want to use the entries in the Model Management database to find the template file, the file will have to be set up first and also contain a record.

Use the following procedure:

1. Activate the ODMA interface.
2. Select the **File, New Template** menu command.
3. The dialog box for **New Template** will appear.
Type in the **Template name** and, if necessary, the **Audit** as an entry in the record.

If you have no further information to be included for the template, click **Continue >>**.

If, however, you need to add something, you can click **Details** to change to the **Data** dialog box and type the new entries.

You must confirm the new entries by clicking **Accept master data modifications** and then **OK**.

4. Afterwards you will see a new empty template with the standard settings that you can change to meet with your own requirements.

But you may have already defined templates for use with *CADdy++* and you can use these. In such as case do not make any alterations. Do the following instead:

5. Start the **File, Save** menu command.
The template file will be saved using a file name formed from the user name, the current date and the time.
6. Repeat steps 2 – 5 for each of the templates that you need.

At present Model Management does not include any command for generating templates and so you will have to copy the ones already generated in *CADdy++* and then give each of them a file name as is provided by Model Management when they are generated.

Please note:

You can, of course, edit the templates managed with Model Management by using **File, Open Template**.

You select a template in the same way as you select a model. A detailed description of the procedure can be found in the next chapter in the section headed **Process record**.

3 Work with Model Management

3.1 Generate new model with a record

When you start on a model with the help of Model Management, the program will automatically set up two records on the database, one being for the **model** (a 3D object), the other for the **drawing** (a 2D object).

The minimum requirements in each record are:

- The name of the model (for 3D objects) and the number of the model
- The name of the drawing (for 2D objects) and the number of the drawing.

The dialog boxes permit only those entries required for starting on a new model and those for the model numbers and drawing numbers to be entered according to the formation rules (as explained for the **Parameter settings** dialog box). The remaining entries can be dealt with later.

Use the procedure described here, whenever you want to start on a model with entries in the Model Management database:

1. Ensure that the ODMA interface is active.
2. Select the **File, New Model** menu command.
You will then immediately see the **Template selection** dialog box so that you can select the template containing the settings required for your model.

3. Now you are faced with two choices:

Template from Model Management

You may have decided to use a template managed in the database. Select one of the options **All templates** or **Only my templates**, and then mark the name of the one that you want.

Any template

In this case you can select any template (*.TPL) by file name. Continue by clicking the **Browse** command button and specify the file you actually want by using the file selection.

Click the **Continue>>** command button to accept the choice of template.

4. Next you will see the **New Model** dialog box. It will contain the entries for the **3D model** in accordance with the formation rules that have been specified. Any of these entries can be edited. If you do not want to add any more information on the 3D model, click the **Continue >>** command button.

If, however, you need to add something, you can click **Details** to change to the **Data** dialog box and type the new entries.

The boxes with a date will always show the current system date. You can, however, select a list field and then choose another date in the calendar.

You must confirm the new entries by clicking **Accept master data modifications** and then **OK**.

5. Next, you will see the **New drawing** dialog box. It will contain the entries for the **2D drawing** in accordance with the formation rules that have been specified. The entries can be edited.

If you do not want to add any more information on the 2D drawing, click the **Continue >>** command button.

If, however, you need to add something, you can click **Details** to change to the **Data** dialog box and type the new entries.

You can, for example, go to the **Parameter settings** and change the **sheet format** and **scale** that are suggested.

You must confirm the new entries by clicking **Accept master data modifications** and then **OK**.

If the template file that you are using contains more than one 2D drawing, repeat Step 5 for each drawing in turn.

You have now saved the records for the 3D model and for the 2D drawing(s) in the Model Management database.

At this stage **CADdy++** contains a model with its file name formed from the user name, the current date and the time.

The model contains one or several 2D drawings which themselves contain partial drawings. These contain the standard sheet symbol in the *standard sheet section*.

To change the **format** or the **scale** of a drawing, this can be done using the menu command **View, Model Explorer** and then open the context menu **Rename** by clicking the right mouse button on the drawing.

3.2 Generate new drawing with a record

When you generate a model, it will contain one or several 2D drawings, depending on the template file.

You can generate a new 2D drawing with a record in Model Management in the model you are working on in the following way:

1. Select the **Insert, New 2D-Drawing** menu command.
2. You will see the **New Drawing** dialog box. It will contain the entries made for the **2D drawing** in accordance with the formation rules that have been specified already. You can edit these entries.
If you do not want to add any more information on the 2D drawing, click the **Continue >>** command button.

If, however, you need to add something, you can click **Details** to change to the **Data** dialog box and type the new entries, such as the **Sheet format** and **Scale**.

You must confirm the new entries by clicking **Accept master data modifications** and then **OK**.

3.3 Process model or template

Provided that Model Management is active, you will see an Model Management dialog box instead of the normal dialog box, as soon as you have started the **File, Open model** and **File, Open template** commands. This is the box you use to determine the file that you want on the basis of your entries.

These commands are not only for opening models and templates. You can also load additional 2D drawings from other models, and edit and delete the associated database entries relating to models, 2D drawings and templates.

Use the general procedure we have described below whenever you want to select a record and to edit its contents.

General procedure

1. Select the **File, Open Model** menu command if you want to open a model, load a drawing from a model, or want to edit the database entries relating to a model or to a drawing.

Select the **File, Open Template** menu command, if you want to open a template or want to edit the database entries relating to this template.

2. Whichever action you take, you will see a dialog box containing four option cards.

If this is the first time that you have opened this dialog box during your current session, you will be offered the **Find** card first.

If this is not the first time you have gone into this box, you will get the **Found** card containing the list of the records already found.

Change to the **Find** card to start a new search.

3. **Opening only models**

First use an entry in **Object type** to specify whether the records for the 3D models or for the 2D drawings in them are to be found.

4. Make an entry in this option card to specify the search criteria for selecting records: with 2D objects/drawings, for example, could be entered. Then start the search by clicking **Start search**.
5. After you have acknowledged a message, you will be able to display the list of records that have been found. This list will appear on the **Found** option card.

6. Next you can change to the **Data** option card, or, in the case of 2D drawings, to the **Modification history** option card to edit the entries in the record you have marked.

After you have marked a record in the list, click the **OK** command button to load the model or the template.

A description of the procedures that you can execute with the option cards can be found in the following chapters.

Please note:

Any model or template that you have loaded will not be locked in the record to prevent editing by other users of Model Management. This means that data could be lost, unless great care is taken.

To change the data in a 2D-Drawing of the current model this can be done using the menu command **View, Model Explorer** and then open the context menu **Rename** by clicking the right mouse button on the drawing.

In such a case you will see the option cards **Data** and **Modification history** immediately.

If model files are saved on drives or in files other than those in Model Management, which could happen after a change to a different server, you must remember to change the database entries. There is, however, only one method of doing so: activate the **Administrative settings** menu command, then change to the **Management** option card where you can execute the **Manage folder entries** command.

Find records

The dialog boxes in the **Find** option card are for defining the criteria that are to be applied when the program searches the database for a model or template record.

Object type

After you have executed the **File, Open model** command to indicate whether the options are to be used to search for the records on **2D objects/drawings** or on **3D objects/models**.

After you have called up the **File, Open Template** menu command, you can use the **Templates** option.

After you have activated the **3D object/model** option, the program will restrict its search to those records that refer to files with MOD as the extension.

After you have activated the **2D object/drawing** option, the program will restrict its search to records that refer to 2D drawings.

In this case you can specify a more precise criterion so that the search will be just for **CADdy drawing formats**:

By using the setting **New drawing format *.MOD** you will restrict the search to 2D drawings in model files; the setting **Old drawing format *.PIC** will restrict the search to “old” CADdy PIC files.

Finally, with the option **Both formats** you will find both MOD and PIC format files, as long as the criteria have been specified correctly.

Drawing data

You can type suitable search criteria in the input boxes that are active. Wildcards are also permitted anywhere.

The list fields for the date to be entered will always contain the system date, but there is a calendar for editing it. Use the **Date specification** to specify whether the search is to be **Before** or **After** the date that has been set. You can use a similar method to specify the **Time period**.

Use the list field **Free search** to select another search field. The criterion used here can be typed in the box to the right of the field.

A special feature is that indicated by the search criterion **Converted from CADdy PIC**. Use this setting to display the records to find all the records that have been converted from PIC to MOD.

When you are searching for **templates**, the only criteria that can be used are **Model number**, **User name (Proc)** and **Proc. Date**.

If search criteria have already been specified, you can select and activate them by clicking **<<Previous search criteria** and **Next search criteria >>**.

Start search

Click the **Start search** command button to start the search.

After you have done so, you will see a box informing you how many records have been found.

If you confirm the message by clicking **Yes**, the **Found** dialog box will appear with the complete list of records.

But if you click **No** instead, you can expand or completely change the search criteria. Afterwards start the search again.

Select record

You will see a list of all the records found as a result of the most recent search in the option card headed **Found**.

The list is arranged according to the first field.

By clicking the column headings you can sort according to the contents of other fields, either upwards or downwards.

Select a specific record by clicking it.

Then you can do any of the following:

- You can display all the data or change it by selecting the **Data** option card.
If you have searched for 2D drawings, you can display and edit their **Modification history**.
- You can load the model or the template that goes with the record.
Confirm this step by clicking **OK** or by double clicking the record you have selected.
If the search has found 2D objects/drawings, you can first activate **Load drawing** so that you can then add a drawing from another model into the current model.

Process record

The **Data** option card will show you a list of all the entries on the record you have selected in the database, You will get the data on a 3D model or on a 2D drawing.



You can get into the option cards by clicking the icons for the **EDM system, Show/process record**.

The text boxes can be used to make changes or to a completely new entry in the record, including **Sheet format** and **Scale**.

To save the changes or the new entries click **Accept master data modifications**.

If you want to load a model or a template relating to a record into CADdy++ so that you can work with it, click **OK**.

If you have specified **New drawing format *.MOD** as **object type** for the search, activate **Load drawing** and click **OK** to insert this 2D drawing into the current model.

Edit modification history

You can use the **Modification history** option card to add new entries to the record displayed in the **Data** option card. You can also make minor changes or delete.

Modification entries are only permitted with the 2D objects/drawings records.

You can ensure that entries made to the modification history will be inserted in the standard sheet symbol text box only by first entering the correct number denoting the maximum number of history entries in the **Parameter settings** dialog box.

Add modification note

If a record you have selected has no modification history, the dialog box will contain just one entry – the user name.

1. Type the description of the modification status in the box to the left of the user name.
2. Type the kind of modification note in the box to the right of the user name.
3. If necessary, change the modification date and the time.
4. Transfer the modification note to the modification history by clicking the *Add entry* command button.
5. Click **OK** to save the changes in the database.

Edit modification note

1. Mark the entry in the modification history.
The entries will be shown in the boxes below the list.
2. Complete the changes and then click the **Accept modifications** command button
3. The changes will be moved to the database after you have clicked **OK**.

Erase modification note

1. Mark the entry in the modification history.
The entries will be shown in the boxes below the list.
2. Click the **Erase entry** command button.
3. The changes will be moved to the database after you have clicked **OK**.

Print and external saving of change history

1. Choose the command button **Texteditor...**
2. The change history will be shown in a seoarate text editor.

Please note:

By using the text styles e.g. *Courier New* or *Fixedsys* in the text editor, all characters have the same width, so that the columns of the change history will have the same width.

The change history can be saved and printed separately in the text editor.

Set up audit

You can enter the descriptions of the audits whilst editing records in the **Data** option card.

When you need to make an audit to a model and its records, use the procedure described below:

1. Open the model for which you are going to make the audit.
2. Select the **File, Save As** menu command.
Then you will see the same dialog boxes as you get for generating a model.
The system assigns the appropriate audit identifier automatically in accordance with the entries that have been made in the **Parameter settings** dialog box.

3.4 Erase record

Model Management creates a link between a file that physically exists (as a MOD or TPL file) and a record in the database. In addition, in drawing that a model contains will have its own separate record.

As a result of this there are different procedures for erasing records:

Erase model record

Use the procedure described below to erase the records, i.e. all the records going with the 3D model and with all the 2D drawings, from the database:

1. Select the **File, Open Model** menu command.
2. Select the **Find** option card in the dialog box.
3. Activate the option for **3D object/model** in the **Object type** section, entering, if necessary, additional search criteria, and then click **Start search**.
4. Click **Yes** to confirm that the correct number of records has been found.
5. You will see the list of all the records that have been selected on the **Found** option card.
Mark the record that you want to delete.

6. Now the **Erase from MV** command button will be activated in the bottom part of the dialog box.
Click this button.
7. Accept the security prompt by clicking **Yes**, if you are sure that you want to delete all the records going with the model.

Please note:

When you want to erase the MOD file physically from your HD, you will have to use the Windows Explorer (or a similar program).

Erase 2D drawing and a record

Use the procedure described below to erase a 2D drawing and all the records going with it from the database:

1. Open the model containing the 2D drawing that is to be erased.
2. Open the **Model Explorer** using the menu command **View**.
3. Click the right mouse button on the drawing to open the context menu and select **Delete**.
4. Confirm the question with **Yes**.

Erase template record

Use the procedure described below to erase the record that goes with a template:

1. Select the **File, Open Template** menu command.
2. Select the **Find** option card in the dialog box.
3. Type additional search criteria, if necessary, and then click **Start search**.
4. Click **Yes** to confirm that the number of records is correct.
5. You will see the list of all the records that have been selected on the **Found** option card.
Mark the record that you want to delete.
6. Now the **Erase from MV** command button will be activated in the bottom part of the dialog box.
Click this button.
7. Accept the security prompt by clicking **Yes**, if you are sure that you want to delete all the records going with the template.

Please note:



When you want to delete the TPL file physically from your HD, you will have to use the Windows Explorer (or a similar program).

3.5

Acquire model

You cannot save the records for the models and the 2D drawings in the Model Management database, unless you have generated the models themselves with Model Management.

But you can manage models in Model Management even though they have not been generated with its help, provided that you use the Include command to insert them in the database afterwards.

1.  Click the icons (in the toolbar) to deactivate the ODMA interface.
2. Select the **File, Open Model** menu command and open the model you want.
3.  Activate the ODMA interface again and enter your user name in the Login dialog box. Confirm by clicking **OK**.
4. Activate the **Acquire model** command.
5. The **New model** dialog box will appear containing the entries for the **3D model** according to the formation rules that have been specified. Make the necessary entries.
If you do not want to add any other information to the 3D model, click the **Continue>>** command button.

If, however, there are changes to be made, click the **Details** command button to change to the **Data** dialog box and then make the new entries.
6. You will see the **New drawing** dialog box, containing the entries for the **2D drawing** according to the formation rules that have been specified.

4 Convert CADdy data

4.1 General information

If you have worked in a version of CADdy together with the drawing management (ZV) it includes, you can use an additional program to transfer the contents of the ZV database to your Model Management

database. Afterwards you will have all the ZV database information in your Model Management as well.

The PIC files that go with the individual database entries will first have to be converted to the MOD format so that you can deal with them in *CADdy++*. This conversion procedure will be completed automatically, when you want to open a PIC file with the help of a record imported from ZV.

4.2 Import ZV database

After you have changed to *CADdy++* for work with Model Management, you will have to import the ZV database to the ZV only once. As soon as this has been done, all the entries in your old ZV will be available to you in Model Management.

Please note:

Databases contain a large amount of valuable data on each separate drawing. You must, therefore, avoid losing data at all costs, and so database conversion procedures should only be completed by those authorised to do so.

Whatever you may decide to do, always make a backup copy of the database before it is converted!

For security reasons it is impossible to complete the conversion using a dialog within Model Management.

Use the following procedure to transfer data from a CADdy ZV database to the Model Management database:

1. Start the Windows Explorer or a similar utility program.
2. Copy **DBEXP.EXE** from the Model Management directory ...CADDYMA\PROGRAM\MV into the ZV database directory named .\CADDY\ZV\ZV-DBS, or another with a similar name.
3. Open **ZV2MVWIZ.EXE** by double clicking it in the Model Management directory.
You will immediately see a dialog box.
4. Click the **Browse** button and then select n **ZVDBS.DBD** in the ZV database directory. You will see the path and the file name in the text box.
5. Click **Continue>**.
Confirm the following messages that will then appear in the dialog box:
 - Generate and check text files from old ZV database.

- Import drawing data to meta database.
- Import modification history data to meta database.

Each message is to be accepted by clicking **Continue>**.

6. Click **Complete** in order to transfer the contents of the meta database to the Model Management database.
7. A message will inform you that the conversion has been completed successfully
Confirm this message by clicking **OK**.

4.3 Open and edit CADdy PIC files

When a ZV database is converted, the PIC files that go with it will not be converted automatically. A considerable amount of time is sometimes required to convert such a file, depending on its size, and so the procedure will not be carried out until a PIC file is opened.

Use the following general procedure to open a CADdy PIC file using its record imported from ZV, and to edit such a record whenever required:

1. Select the **File, Open Model** menu command.
2. Next, you will see a dialog box containing four option cards.
If the dialog box has now been activated for the first time during your current session, you will see the **Find** option card.

Otherwise, you will see the **Found** option card instead containing the list of the records found so far. Then change over to the **Find** option card again to initiate a new search.
3. Select **2D object/drawing** and **Old drawing format PIC** so that the only records to be listed will be those imported from CADdy ZV.
4. Specify further search criteria, if necessary, that will apply to the records, then start the procedure by clicking **Start search**.
5. After you have acknowledged a message, you will be able to see a list on the **Found** option card containing all the records that have been found.
6. Mark a record in this list and then click **OK** to load the drawing.
Reply to the security message asking whether the data relating to the current model are to be saved.

You can also change to either of the two option cards **Data** or **Modification history** to read the entries on the current record and to edit them.

7. Next, acknowledge and reply to the security prompt asking whether the model being worked in is to be saved.
Afterwards the PIC file will be converted to the MOD format and loaded.
8. So far the record relating to the drawing that you have loaded still has the contents of the PIC file with the drive and folder containing the file. If you want to replace the PIC file with the new MOD file with its file and folder and insert this information in the record, you should reply to the next question by clicking **Yes**.
This action will also replace the standard sheet of the loaded drawing with a standard sheet symbol, after which the MOD file will be saved.

But if your reply is **No**, the entries in the record will remain unchanged, the standard sheet will not be replaced by a symbol and the model will not be saved.

Please note the following when importing:

When you are importing CADdy PIC files the fonts and symbols will be searched for in the folders that you have specified in the **Settings, Folder** for the *CADdy fonts (*.DAT)* and *CADdy symbols (*.SYB)*.

Symbols will be archived in the symbol library that you have currently selected.

The standard sheets with the text boxes cannot be replaced automatically, unless, when defining the formats, you have used the templates supplied with ZV, i.e. A0, A1, A2, A3, A4 and have also used the standard sheet symbols supplied as a standard part of Model Management with *CADdy++*. In addition, the layers for the objects on the standard sheet must have no description.

If the program cannot replace an imported standard sheet automatically, you must delete it manually. If this has to be done, you can insert the correct standard sheet symbol in the partial drawing reserved for it later by using the **Settings, Drawing, Insert standard sheet**.

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