

Cincom

AD/ADVANTAGE

MANTIS Installation, Startup, and
Configuration
VSE/ESA

P39-5019-00



AD/Advantage[®] MANTIS Installation, Startup, and Configuration VSE/ESA

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Release information for this manual

The *AD/Advantage MANTIS Installation, Startup, and Configuration VSE/ESA*, P39-5019-00, is dated February 8, 2002. This document supports an upgrade from MANTIS Release 5.4.

We welcome your comments

We encourage critiques concerning the technical content and organization of this manual. At your convenience, please take the [survey](#) provided with the online documentation.

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About this book

Using this document

MANTIS is an application development system that consists of design facilities (e.g., screens and files) and a programming language. This manual describes startup and configuration of MANTIS for VSE/ESA installations.

Document organization

The information in this manual is organized as follows:

Chapter 1—Release highlights

Describes MANTIS 5.5.01's new or enhanced features, as well as MANTIS 5.5.01's Customization Macro's added or changed parameters.

Chapter 2—Downward compatibility

Describes compatibility issues between the transfer file layout format in MANTIS 5.5.01 and in MANTIS 5.4.01.

Chapter 3—MANTIS Installation Wizard (MAIWI)

Describes the MANTIS installation procedure for a VSE/ESA CICS environment, the post-installation procedure to follow if you are running CICS 2.x, the procedure to follow before running MANTIS, and the MANTIS Windows Client.

Chapter 4—Batch Dialog Facility (BDF)

Describes how you can use the Batch Dialog Facility, how MAIWI uses the BDF install process, and how you can add additional Authorization records with the BDF.

Chapter 5—Customizing MANTIS after the installation

Describes procedures for customizing the start up, menu, and termination programs. Also describes considerations for MASTER:SIGN_ON, a procedure that HPO users can use to create program profiles for protected libraries, HPO users' considerations for nominating the Shared Pool list, and a procedure to run the split SETPRAY utility.

Chapter 6—Installing AD/Advantage

Describes preliminary considerations for AD/Advantage installation and the AD/Advantage installation procedure.

Chapter 7—Verifying MANTIS SQL Support installation for DB2 and SQL/DS

Describes when MANTIS SQL Support installation is complete and explains how to verify that MANTIS SQL support is available.

Chapter 8—Performing XREF batch maintenance

Provides notes concerning XREF batch maintenance.

Chapter 9—Installing SSF SL2033

Describes what to do if you are reinstalling SSF SL2033, as well as the procedure for installing SSF SL2033.

Appendix A—MANTIS messages

Describes new MANTIS messages for MANTIS 5.5.01.

Appendix B—Renaming a program entity

Describes the procedure for renaming a program entity.

Appendix C—Renaming a screen entity

Describes the procedure for renaming a screen entity.

Appendix D—MYXXINST.SAMP JCL job

Describes the actions in the MYXXINST.SAMP JCL job.

Conventions

The following table describes the conventions used in this guide:

Convention	Description	Example				
Constant width type	Represents screen images and segments of code.	Screen Design Facility GET NAME LAST INSERT ADDRESS				
Slashed b (<i>b</i>)	Indicates a space (blank). The example indicates that a password can have a trailing blank.	WRITEPASS <i>b</i>				
Brackets []	Indicate optional selection of parameters. (Do not attempt to enter brackets or to stack parameters.) Brackets indicate one of the following situations.					
	A single item enclosed by brackets indicates that the item is optional and can be omitted. The example indicates that you can optionally enter a program name.	COMPOSE [<i>program-name</i>]				
	Stacked items enclosed by brackets represent optional alternatives, one of which can be selected. The example indicates that you can optionally enter NEXT, PRIOR, FIRST, or LAST. (NEXT is underlined to indicate that it is the default.)	<table border="1"> <tr><td><u>NEXT</u></td></tr> <tr><td>PRIOR</td></tr> <tr><td>FIRST</td></tr> <tr><td>LAST</td></tr> </table>	<u>NEXT</u>	PRIOR	FIRST	LAST
<u>NEXT</u>						
PRIOR						
FIRST						
LAST						

Convention	Description	Example
Braces { }	<p>Indicate selection of parameters. (Do not attempt to enter braces or to stack parameters.) Braces surrounding stacked items represent alternatives, one of which you must select.</p> <p>The example indicates that you must enter FIRST, LAST, or a value for <i>begin</i>.</p>	<pre> { FIRST <i>begin</i> LAST } </pre>
<p><u>Underlining</u> (In syntax)</p>	<p>Indicates the default value supplied when you omit a parameter.</p> <p>The example indicates that if you do not specify ON, OFF, or a row and column destination, the system defaults to ON.</p>	<pre> SCROLL [ON OFF [row][,col]] </pre>
	<p>Underlining also indicates an allowable abbreviation or the shortest truncation allowed.</p> <p>The example indicates that you can enter either PRO or PROTECTED.</p>	<pre> <u>PROTECTED</u> </pre>
Ellipsis points...	<p>Indicate that the preceding item can be repeated.</p> <p>The example indicates that you can enter (A), (A,B), (A,B,C), or some other argument in the same pattern.</p>	<pre> (<i>argument</i>, ...) </pre>

Convention	Description	Example
UPPERCASE	<p>Indicates MANTIS reserved words. You must enter them exactly as they appear.</p> <p>The example indicates that you must enter CONVERSE exactly as it appears.</p>	CONVERSE <i>name</i>
<i>Italics</i>	<p>Indicate variables you replace with a value, a column name, a file name, and so on.</p> <p>The example indicates that you can supply a name for the program.</p>	COMPOSE [<i>program-name</i>]
Punctuation marks	<p>Indicate required syntax that you must code exactly as presented.</p> <p>() parentheses . period , comma : colon ; semicolon ' single quotation mark " " double quotation marks</p>	[LET] _{<i>v</i>} $\begin{bmatrix} (i) \\ (i, j) \end{bmatrix}$ [ROUNDED(<i>n</i>)] = <i>e1</i> [, <i>e2</i> , <i>e3</i> ...]

MANTIS for OS/390, VSE/ESA documentation series

Listed below are the manuals offered with MANTIS in the IBM® mainframe environment, organized by task.

Master User tasks

- ◆ *MANTIS Installation, Startup, and Configuration, MVS/ESA, OS/390, P39-5018*
- ◆ *MANTIS Installation, Startup, and Configuration, VSE/ESA, P39-5019*
- ◆ *MANTIS Administration, OS/390, VSE/ESA, P39-5005*
- ◆ *MANTIS Messages and Codes, OS/390, VSE/ESA, P39-5004**
- ◆ *MANTIS Administration Tutorial, OS/390, VSE/ESA, P39-5027*
- ◆ *MANTIS XREF Administration, OS/390, VSE/ESA, P39-0012*

General tasks

- ◆ *MANTIS Quick Reference, OS/390, VSE/ESA, P39-5003*
- ◆ *MANTIS Facilities, OS/390, VSE/ESA, P39-5001*
- ◆ *MANTIS Language, OS/390, VSE/ESA, P39-5002*
- ◆ *MANTIS Program Design and Editing, OS/390, VSE/ESA, P39-5013*
- ◆ *MANTIS Messages and Codes, OS/390, VSE/ESA, P39-5004**
- ◆ *AD/Advantage Programming, P39-7001*
- ◆ *MANTIS DB2 Programming, OS/390, VSE/ESA, P39-5028*

- ◆ *MANTIS SUPRA SQL Programming, OS/390, VSE/ESA*, P39-3105
- ◆ *MANTIS XREF, OS/390, VSE/ESA, OpenVMS*, P39-0011
- ◆ *MANTIS Entity Transformers*, P39-0013
- ◆ *MANTIS DL/I Programming, OS/390, VSE/ESA*, P39-5008
- ◆ *MANTIS SAP Facility, OS/390, VSE/ESA*, P39-7000
- ◆ *MANTIS WebSphere MQ Programming*, P39-1365
- ◆ *MANTIS Application Development Tutorial, OS/390, VSE/ESA*, P39-5026



Manuals marked with an asterisk (*) are listed twice because you use them for both Master User and general tasks.

1

Release highlights

Release 5.5.01

New or enhanced features

The features described in this section are new or enhanced in MANTIS 5.5.01:

- ◆ **MANTIS Search Facility included with release 5.5.01.** This facility enables you to search your MANTIS libraries for occurrences of your search strings and to list the entities in which your search strings occur. For example, you can search program and screen entities for a variable name and view the resulting list of all program and screen entities in which the variable name occurs.
- ◆ **MANTIS Windows Client.** This is a graphical developer tool that is provided via gOOi for Smalltalk. A graphical user interface improves the productivity of MANTIS program developers who are executing design facilities. During design processes, the entity browser permits each of multiple library entities to have its own open window.
- ◆ **gOOi (MANTIS' Graphical Object-Oriented Interface).** Now included is a limited-use copy of the gOOi for Smalltalk SDK (Software Development Kit), release 4.0.01. This copy enables you to design and implement GUI Mantis applications for end-user deployment. A full gOOi SDK, available separately, enables you to further tailor your MANTIS application suite and deploy your GUI designs as Windows- or Web-based applications.
- ◆ **Install Wizard.** MANTIS installation and upgrade is greatly simplified and streamlined with an Install Wizard that enables a new, more automated install process.

- ◆ **Concurrent User Count.** The User Count now changes to reflect the number of users actually signed on, rather than the total number of users to sign on since CICS started. This enables user counts to reflect concurrent usage instead of cumulative usage, which is useful when you use dynamically-assigned terminal IDs.
- ◆ **MANTIS Customization Facility (MCF).** This facility enables the system administrator to easily review the installation and customization options that are currently in effect, helping to simplify debugging for support issues.
- ◆ **Documentation changes.** The documentation set is now available on CD-ROM. Also, it now includes the following guides to help you train new staff:
 - *MANTIS Administration Tutorial, OS/390, VSE/ESA, P39-5027*
 - *MANTIS Application Development Tutorial, OS/390, VSE/ESA, P39-5026*
- ◆ **Expanded Transfer.** Cincom has increased the Transfer Facility's bin capacity to 5,000 bins and file capacity to 30,000 files. Also, bin creation performance has improved.
- ◆ **Improved Supra V1 RDM Sign-on and API.** MANTIS now communicates with Supra RDM using the standard module CSVNICIC. This reduces some of the sign-on and configuration difficulties encountered in past releases.

Parameters added or changed in MANTIS 5.5.01's Customization Macro

The following table lists the parameters that have been added (*) or changed (**) in Release 5.5.01's Customization Macro.



For more information on these parameters, refer to *MANTIS Administration, OS/390, VSE/ESA*, P39-5005.

Parameter	Description
CICSPLX=**	Specifies that MANTIS is used in a CICSplex environment.
CKMPSET=*	If a screen is not contained in a map set, specifies whether the FALSE condition is returned on the CURSOR function.
CLVSAM=*	Specifies whether all open VSAM files should be closed on COMMIT in batch.
CMDIAG=**	Specifies that MANTIS should not issue a CICS handle ABEND.
CURPRFL=*	Specifies whether the programmer can position the cursor on a protected field.
ENOTEMAX=*	Specifies the number of significant digits displayed in unmasked numeric input.
MANTPROG=*	Specifies the Mantis program name, as defined in the CICS RDO tables.
NUM2TXT=*	Specifies whether you can convert large numeric fields to internal TEXT fields.

* Added in Release 5.5.01's Customization Macro.

** Changed in Release 5.5.01's Customization Macro.

Parameter	Description
PRTFTOP=* -----	Specifies that a form feed should be set at the top of the printer data stream.
PRTFBOT=* -----	Specifies that a form feed should be set at the bottom of the printer data stream.
RESETOT=* -----	Specifies whether the TOTAL/PDM RESET request can back out TOTAL/PDM database updates.
TEQUERY=** -----	Specifies whether MANTIS performs a terminal query at startup.
TERMFUNC=* -----	Specifies whether the TERMINAL keyword returns the CICS terminal ID or the VTAM netname.
TISLVL=**	Specifies the current TIS or SUPRA release level.

* Added in Release 5.5.01's Customization Macro.

** Changed in Release 5.5.01's Customization Macro.

2

Downward compatibility

Downward-compatibility issues

Changed transfer file layout

The layout of the transfer file has changed. The Transfer Facility has increased its bin capacity to 5,000 bins and its file capacity to 30,000 files.

Reading and writing the new transfer file from MANTIS 5.4.01

MANTIS 5.4.01 can read the new, 5.5.01-format transfer file. However, unless you apply a fix, MANTIS 5.4.01 cannot write to the 5.5.01-format transfer file. Without the fix, if you attempt to write to the 5.5.01-format transfer file from MANTIS 5.4.01, you may corrupt the transfer file and elicit a MANTIS fault message.

Applying the fix that enables MANTIS 5.4.01 to write to the new 5.5.01 format transfer file.

To avoid corrupting the transfer file and seeing the MANTIS fault message, apply a fix to your installation of MANTIS 5.4. To apply this fix, perform the following:

1. Verify that you have a backup of your MANTIS cluster.
2. REPRO REPLACE the MANTIS.MCPU5401 (this is the file name on the installation tape cartridge) dataset into your MANTIS 5.4.01 cluster.

During the installation process, the MANTIS Install Wizard creates the MANTIS.MCPU5401 file and then loads it from the tape cartridge during the install process. The file name is the tape cartridge file name, prefixed with the high-level qualifiers that were specified as part of the installation process.



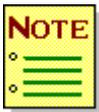
Verify that the target is your MANTIS 5.4.01 cluster, as the patch will not apply to a MANTIS 5.5.01 cluster.

3. Use the MANTIS Code Patch Utility to apply fix 010413:



For more information on the MANTIS Code Patch Utility, refer to *MANTIS Administration, OS/390, VSE/ESA*, P39-5005.

- ◆ **Description:** Patch that is required in order to write to a 5501 TRANSFER cluster from 5401 MANTIS.
- ◆ **APMS code:** MN5401.



The Transfer Conversion Utility Program (TCUP) converts a 5.4.01 format transfer file to the new 5.5.01 format. For more information on TCUP, refer to *MANTIS Administration, OS/390, VSE/ESA* P39-5005.

3

MANTIS Installation Wizard (MAIWI)

MANTIS installation procedure for a VSE/ESA CICS environment

Installation overview

To install AD/Advantage and MANTIS 5.5.01 on a VSE/ESA system, a REXX EXEC called the MANTIS Installation Wizard (MAIWI) performs the following:

1. Creates the necessary installation jobs.
2. Submits the created installation jobs to Power so that they can be executed in a different partition than the one in which MAIWI is running.

Once installation is complete, you can execute MANTIS in the following environments:

- ◆ Batch VSE/ESA
- ◆ CICS



In this guide, “CICS” refers to both CICS and Transaction Server (unless it is necessary to distinguish between them).

Installation procedure

A. Steps that you need to perform

To install AD/Advantage and MANTIS 5.5.01 in a VSE/ESA CICS environment, perform the following:

1. Execute the JCL that unloads the installation library from the installation tape cartridge that you received with your MANTIS 5.5.01 order.

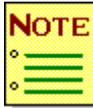


To find this JCL, refer to *Installing MANTIS 5501 and AD/Advantage for VSE/ESA*, M39-1041 (available only as hardcopy).

2. Punch the CSOPCUST.A member from the installation sublibrary. CSOPCUST.A is the source member for the MANTIS Customization module.
3. Perform the following on the CSOPCUST.A member:
 - A. Modify parameter values as appropriate for your environment.



For parameter details, refer to the chapter in *MANTIS Administration, OS/390, VSE/ESA*, P39-5005, that discusses MANTIS customization and maintenance.

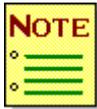


MAIW modifies some parameter values in CSOPCUST.A based upon the information you supply in MYXDVAR.DATA. Do not modify these parameter values yourself. The parameters whose values you should not modify are listed below:

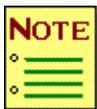
- ◆ BKTRANS
 - ◆ CSOL
 - ◆ CSOT
 - ◆ EXCLUDE
 - ◆ INCLUDE
 - ◆ GLBLMOD
 - ◆ LANG
 - ◆ PRTRANS
 - ◆ TRANSID
-

- B. Catalog CSOPCUST.A back into the installation sublibrary.

4. Print the \$HELP.A member from the installation sublibrary. \$HELP.A explains, in detail, the values that you must specify or modify in the MYXDVAR.DATA member.
5. Punch the MYXDVAR.DATA member from the installation sublibrary.
6. Perform the following on the MYXDVAR.DATA member:
 - A. Review the notes at the beginning of MYXDVAR.DATA.
 - B. Provide the information necessary for MAIWI to build the JCL jobs that will complete MANTIS installation.
 - C. Catalog MYXDVAR.DATA back into the installation sublibrary.
7. Punch the MYXXINST.SAMP member from the installation sublibrary.
8. Modify MYXXINST.SAMP, using the comments found within it for guidance. For more information on the sample JCL job within this member, see “MYXXINST.SAMP JCL job” on page 77.
9. In order to begin using MAIWI, submit the MYXXINST.SAMP JCL job to POWER for execution.
10. Access a VSE/ESA console so that you can respond to MAIWI's prompts for information and confirmation.

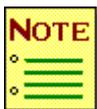


Besides the partition in which MAIWI is running, another partition must be available so that MAIWI can submit a job to it as part of the installation process. The job that MAIWI submits depends upon the action you selected when you modified MYXXINST.SAMP in step 8.



If you selected the INSTALL action in step 8, MAIWI now prompts you to confirm that you want to proceed with the installation process.

11. If necessary, confirm that you wish to proceed with the installation process.



MAIWI now prompts you to confirm that it should proceed with the action you requested in step 8.

12. Confirm that MAIWI should proceed with the action that you requested in step 8.

B. Steps that MAIWI performs after you complete your input

MAIWI performs the following after you complete your input:

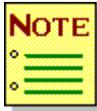
1. Validates the information that you supplied in MYXDVAR.DATA. The VSE/ESA console notifies you when MAIWI begins validation on a new block of data.



If MAIWI encounters an error during validation: MAIWI performs the following:

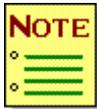
- A. Sends a message, describing the error's nature and location, to the VSE/ESA console.
 - B. Performs one of the following:
 - ◆ **Terminates.** For example, this occurs if there is invalid syntax in the data lines.
 - ◆ **Sends a prompt to the VSE/ESA console.** This occurs more frequently than MAWI termination. Respond to this prompt in one of the following ways:
 - Use the VSE CANCEL command—MAIWI terminates. When MAIWI terminates like this (before validation completes), correct the invalid field value in MYXDVAR.DATA, catalog MYXDVAR.DATA back into the installation sublibrary, and return to step 9.
 - Enter a question mark (“?”) and press ENTER—MAIWI displays a Help message, from the \$HELP.A file, that is appropriate for the invalid field value. After this Help message appears, proceed to the preceding or following bullet point, depending on your preference.
 - Enter a new value for the invalid field and press ENTER—MAWI updates the cataloged version of MYXDVAR.DATA and continues processing. If you decide to make changes at a later time, be sure to punch and modify the updated version of MYXDVAR.DATA.
-

2. If the action you selected is not INSTALL, submits the MYXEPMRL job to obtain the current release number.



For installation to proceed, your current installation's release number must be 5401 or higher.

3. Submits a job that performs the following:
 - A. Defines the MANTIS VSAM files.
 - B. Defines the MANTIS sublibraries.
 - C. Downloads the appropriate sublibraries and files from the tape cartridge.



For more information on the tape cartridge's files and the files that MAIWI defines as part of the installation process, see *Installing MANTIS 5501 and AD/Advantage for VSE/ESA*, M39-1041 (available only as hardcopy).

4. Uses the information that you specified in CSOPCUST.A and MYXDVAR.DATA to perform the following:
 - A. Expand the C\$OPCUST macro.
 - B. Assemble the C\$OPCUST macro.
 - C. Catalog the object code module into the installation sublibrary.

5. If you are using DB2 or SQL/DS, uses the information that you specified in MYXDVAR.DATA to perform the following:
 - A. Expand the C\$OPSQLI macro.
 - B. Assemble the C\$OPSQLI macro.
 - C. Catalog the object code module into the installation sublibrary.
 - D. Grant the necessary permissions.
6. Links online MANTIS with the modules required by your environment.
7. Links batch MANTIS with the modules required by your environment.
8. Copies the CICS MANTIS phase to the designated sublibrary in the CICS search chain.
9. Copies the global area for MANTIS to the designated sublibrary in the CICS search chain.
10. If necessary, defines the MANTIS objects to CICS.
11. Runs the Batch Dialog Facility install process to complete the installation.
12. If you requested it, converts your current CSOT to the new format.

Post-installation procedure if you are running CICS 2.x

If you are running CICS 2.x, perform the following after MANTIS installation completes:

1. Punch MYXEFACT.JCL from the installation sublibrary.
2. Punch MYXEDLBL.JCL from the installation sublibrary.
3. Add the FCT entries from MYXEFACT.JCL to your DFHFCTxx member.
4. Assemble your DFHFCTxx member.
5. Catalog your DFHFCTxx member back into your CICS sublibrary.
6. Add the DLBL statements in MYXEDLBL.JCL to your CICS startup JCL.
7. Shut CICS down.
8. Restart CICS.



If you are running the Transaction Server and you supplied an RDO list name that CICS uses at startup, MANTIS will be available immediately after CICS startup.

Procedure to follow before running MANTIS

Perform the following steps before running MANTIS:



Cincom recommends that you use the MANTIS Windows Client whenever you run MANTIS. The MANTIS Windows Client enhances the MANTIS Development Environment and increases developer productivity. For information on installing and running the MANTIS Windows Client, see “[Installing the MANTIS Windows Client](#)” on page 32 and the \$README.TXT file on this documentation CD.

1. Sign on to your CICS system.
2. Perform one of the following before running MANTIS for the first time (the bullet point that you will choose depends on the action you selected in step 8 of “[A. Steps that you need to perform](#)” on page 24):

- ◆ **For a new MANTIS system (INSTALL) or an upgrade of a current MANTIS version that was created by copying the VSAM files and then updating the copy of the VSAM files (CLONE).** Enter the following to make the MANTIS definitions available to the currently-running CICS:

```
CEDA INSTALL GROUP (xxxxxxx)
```



xxxxxxx is the RDO group name supplied to MAIWI.

- ◆ **For an upgrade that was created by updating the current VSAM files (UPGRADE).** Enter the following to make MANTIS and the MANTIS definitions available to the currently-running CICS:

```
CECI RELEASE PROG(CSOPGLBL)  
CEMT SET PROG(MANTIS CSOPGLBL) NEW  
CEMT SET FILE(SETPRAY ddnames) OPEN ENABLE
```



If you have selected new features as part of the upgrade, also enter the following (*where xxxxxxxx is the RDO group name supplied to MAIWI*):

```
CEDA INSTALL GROUP (xxxxxxx)
```



Depending on your security package, you may need to define authorization for the MANTIS entities.

Supplied system administration user (MASTER)

User name and password

The supplied system administrator user is named MASTER. Its initial password is HALOGEN.



To change the password for MASTER, use the User Profile Design Facility. Keep a record of your MASTER password in a secure place.



The HALOGEN password is documented only in this guide. Change this password as soon as you complete the installation, since non-administrators may read this guide.

Further information

For more information on the MASTER user, refer to the following:

- ◆ **To perform various functions available to the MASTER user:** Refer to *MANTIS Administration Tutorial, OS/390, VSE/ESA*, P39-5027.
- ◆ **To see all of the features and functions available to the MASTER user:** Refer to *MANTIS Administration, OS/390, VSE/ESA*, P39-5005.
- ◆ **To find additional information on the MANTIS system administrator:** Refer to various additional MANTIS guides on the documentation CD.

Supplied development user

User name and password

The supplied development user is named EXAMPLES. Its initial password is CASINO. This user contains some simple programming examples.

Further information

For more information on the MANTIS development user, refer to the following:

- ◆ **To get started with MANTIS development:** Refer to *MANTIS Application Development Tutorial, OS/390, VSE/ESA*, P39-5026.
- ◆ **To find additional information on the MANTIS development user:** Refer to several additional MANTIS guides on the documentation CD.

Installing the MANTIS Windows Client

The documentation CD contains a run-only version of gOOi that provides a GUI for the MANTIS development environment. This GUI is called the MANTIS Windows Client.

To install the MANTIS Windows Client on a PC running Windows 95, 98, NT, 2000, or XP, run the SETUP program located in the MANTISWindowsClient directory.



Finding a gOOi overview during installation. During installation, the Host Monitor window appears. In this window, open the Help menu and select Content. An overview of gOOi appears.

4

Batch Dialog Facility (BDF)

What you can do with the Batch Dialog Facility

The Batch Dialog Facility (BDF) is a command-driven interface that enables you to:

- ◆ Run several of the Program Design Facility (PDF) functions in batch.
- ◆ Upgrade your cluster in a batch environment.

How MAIWI uses the BDF install process

MAIWI automatically runs the BDF install process to:

- ◆ Modify MANTIS to support external file names.
- ◆ Modify the default user log.
- ◆ Modify CEF options.
- ◆ Insert or update MANTIS's Authorization record.
- ◆ Create program profile records on the EEPR file.

Adding additional Authorization records with BDF

If you would like to add additional CPU-ID Authorization records to your MANTIS cluster, you can use the BDF Install function to perform this task as a separate batch job. If you need to repeat this task for multiple MANTIS clusters, this will save time (compared to online entry).

Defining a batch input stream to initiate BDF

What the batch input stream should specify

To add additional CPU-ID Authorization records to your MANTIS cluster using BDF, define a batch input stream to initiate BDF. This batch input stream should specify the following:

- ◆ **Execution JCL.** For sample JCL, see the section on sample MVS and DOS batch input streams in *MANTIS Facilities, OS/390, VSE/ESA*, P39-5001.
- ◆ **Environment specifications for the batch job.**
- ◆ **On the MANTIS Facility Selection Menu, the Run a Program by Name option (option 1).**
- ◆ **The BDF start-up program, CONTROL: BATCH_DIALOG.**
- ◆ **FUNCTION=INSTALL and its options.**



You can obtain CPU-ID Authorization record information only from Cincom.

Batch input stream specifies actual function and option statements

The batch input stream statements are similar to the MANTIS Print Facility because they specify actual function and option statements, rather than simulating an online session by mimicking cursor movement. BDF reads the batch stream and executes the options you specify.

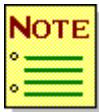
Batch input stream errors

BDF checks your statement syntax and then executes the options you entered in the batch input stream. When BDF encounters an error in the input stream, it generates an error report but does not execute any functions.

Creating the batch input stream

To create the batch input stream, perform the following:

1. Use the following statements to create the batch input stream. Each statement in the stream can be up to 72 characters. Verify that you do not have sequence numbers in columns 73 to 80.



See “[Sample batch input stream](#)” on page 43.

2. Tailor the JCL and batch input stream for your authorization additions.
3. Submit the job for execution.

Statements used to construct the batch input stream

FUNCTION statement

You use the FUNCTION statement to partially construct a batch input stream. The FUNCTION statement specifies which function you wish to perform.

FUNCTION=INSTALL

Description	<i>Required.</i> Specifies that you wish to perform the INSTALL function.
Default	None.
Options	The only valid function for adding additional Authorization Records is INSTALL.

Considerations

- ◆ Specify the FUNCTION statement as the first statement after the CONTROL: BATCH_DIALOG program specification.
- ◆ If you specify no function, the BDF Install ends with an error.



When you specify FUNCTION=INSTALL, MANTIS permits no other functions for this job. For Batch Dialog functions, refer to the following:

- ◆ *MANTIS Facilities, OS/390, VSE/ESA, P39-5001*
 - ◆ *MANTIS Administration, OS/390, VSE/ESA, P39-5005*
-

OPTIONS statement

Use OPTIONS statements to specify the following:

- ◆ Facilities service level from which you are upgrading
- ◆ Whether this is a new installation
- ◆ Other options used to update your cluster

General Considerations for the OPTIONS statements. Consider the following for all of the OPTIONS statements:

- ◆ You must sign on as the MASTER user in order to create a MANTIS Authorization Record.
- ◆ If you do not have an option, you must omit the statement for its corresponding feature expiration date. However, always specify the STARTMANTIS and ENDMANTIS dates.
- ◆ The following must match exactly with the information that Cincom provides on your MANTIS Password Data letter:
 - Password—PASSWORD=.
 - CPUID (only positions 1–2 and 5–12 must exactly match the information that Cincom provides)—CPUID=.
 - Licensed terminals—TERMINALS=.
 - MANTIS starting date—STARTMANTIS=.
 - MANTIS ending date—ENDMANTIS=.
 - Each feature and its corresponding ending date—EXPxxx=.

- ◆ When you need to specify an expiration date, use the following format: YYYY/MM/DD.
- ◆ If an expiration date is called for, and you do not specify an expiration date, MANTIS will not authorize the feature for which you are requesting authorization.
- ◆ When you need to specify the expiration date, and the expiration date is the same as the MANTIS Base Date (STARTMANTIS=), use any of the following forms:
 - Full date—For example:
`OPTIONS=EXPADA=2003/12/31`
 - Equal sign (=)—For example:
`OPTIONS=EXPADA==`
 - Double quote ("), as in a ditto mark—For example:
`OPTIONS=EXPADA= "`

OPTIONS=AUTHORIZE

Description *Required.* Specifies that you are adding additional Authorization Records to your MANTIS cluster.

Considerations

- ◆ Specifies that you are not performing a “full installation”—you are only inserting or updating a MANTIS Authorization Record.
- ◆ MANTIS will either insert or update the Authorization record:
 - Insert—Occurs if the Authorization record does not already exist on the MANTIS cluster.
 - Update—Occurs if the Authorization record already exists on the MANTIS cluster.

OPTIONS=CPUID=xxxxxxxxxxxxxxxx

Description *Required.* Specifies the CPU ID to be authorized.

Considerations

- ◆ If you do not supply the CPUID parameter, BDF Install ends with an error.
- ◆ You may authorize any CPU ID, as long as Cincom has provided you with a password for it.
- ◆ MANTIS will either insert or update the Authorization record:
 - Insert—Occurs if the Authorization record does not already exist on the MANTIS cluster.
 - Update—Occurs if the Authorization record already exists on the MANTIS cluster.

OPTIONS=ENDMANTIS=yyyy/mm/dd

Description *Required.* Specifies the expiration date for the MANTIS base product.

Consideration If you do not specify the ENDMANTIS parameter, BDF Install ends with an error.

OPTIONS=EXPADA=yyyy/mm/dd

Description *Optional.* Specifies the expiration date for AD/Advantage.

OPTIONS=EXPADARDM=yyyy/mm/dd

Description *Optional.* Specifies the expiration date for RDM generation in AD/Advantage.

OPTIONS=EXPCE=yyyy/mm/dd

Description *Optional.* Specifies the expiration date for Component Engineering (CE).

OPTIONS=EXPDB2=yyyy/mm/dd

- Description** *Optional.* Specifies the expiration date for access to one of the following:
- ◆ MVS/ESA DB2
 - ◆ OS/390 DB2

OPTIONS=EXPDBCS=yyyy/mm/dd

- Description** *Optional.* Specifies the expiration date for Double Byte Character Set support (DBCS) in MANTIS.

OPTIONS=EXPDLI=yyyy/mm/dd

- Description** *Optional.* Specifies the expiration date for access to data stored in a DL/I database.

OPTIONS=EXPET=yyyy/mm/dd

- Description** *Optional.* Specifies the expiration date for Entity Transformers (ET).

OPTIONS=EXPHPO=yyyy/mm/dd

- Description** *Optional.* Specifies the expiration date for the High-Performance Option (HPO).

OPTIONS=EXPMQS=yyyy/mm/dd

- Description** *Optional.* Specifies the expiration date for WebSphere MQ Interface access.

OPTIONS=EXPMSF=yyyy/mm/dd

- Description** *Optional.* Specifies the expiration date for the MANTIS Search Facility (MSF).

OPTIONS=EXPQRW=yyyy/mm/dd

- Description** *Optional.* Specifies the expiration date for Query Report Writer (QRW).

OPTIONS=EXPRUNONLY=yyyy/mm/dd

Description *Optional.* Specifies the expiration date for Run-Only MANTIS.

Consideration If you supply an expiration date for Run-Only MANTIS, you can run MANTIS applications but you cannot use any MANTIS design facilities.

OPTIONS=EXPSQLDS=yyyy/mm/dd

Description *Optional.* Specifies the expiration date for one of the following:

- ◆ VSE/ESA SQL/DS access
- ◆ VSE/ESA DB2 access

OPTIONS=EXPSUPRA=yyyy/mm/dd

Description *Optional.* Specifies the expiration date for SUPRA SQL Server access.

OPTIONS=EXPXREF=yyyy/mm/dd

Description *Optional.* Specifies the expiration date for the Cross Reference Facility (XREF).

OPTIONS=LEADDAYS=xxx

Description *Optional.* Specifies the expiration warning lead days. MANTIS uses this number to determine how far in advance of MANTIS or feature expiration MANTIS should send the expiration message to the terminal.

Default 60

Considerations

- ◆ Lead days do not affect the password. You may change this value without needing to enter a new password.
- ◆ Specify number of days, not a date.

OPTIONS=PASSWORD=xxxxxxx

Description *Required.* Specifies the authorization password.

Consideration MANTIS ends with an error if the password does not validate for all of the following:

- ◆ Provided CPU ID
- ◆ Terminal limit
- ◆ All supplied dates

For details, refer to the information on the Authorize MANTIS/Options Utility in *MANTIS Administration, OS/390, VSE/ESA*, P39-5005.

OPTIONS=STARTMANTIS=yyyy/mm/dd

Description *Required.* Specifies the earliest date that MANTIS can be used.

Consideration If you do not supply the STARTMANTIS parameter, BDF Install ends with an error.

OPTIONS=TERMINALS=xxxxx

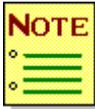
Description *May be Required.* Specifies the number of licensed concurrent terminals allowed on MANTIS.

Default Zero

Consideration Zero means that MANTIS does not impose a limit on the number of concurrent terminals (that is, the number of concurrent terminals allowed is UNLIMITED).

Sample batch input stream

The following table contains a sample batch input stream that uses installation functions to insert or update a MANTIS Authorization Record.



In your input file, do not include the comments listed in the right-hand (Comments) column.

New install input stream (MNIBDFNW)	Comments
MASTER;password; ←	Specifies the environment for the batch job.
1 ←	Selects Run a Program By Name (option 1).
CONTROL: BATCH_DIALOG ←	Runs the CONTROL: BATCH_DIALOG program.
FUNCTION=INSTALL ←	Selects the INSTALL function.
OPTIONS=AUTHORIZE ←	Adds an Authorization Record.
OPTIONS=CPUID=1234567890000000 ←	Specifies the CPU ID to be authorized.
OPTIONS=PASSWORD=12345678 ←	Specifies the PASSWORD for authorization.
OPTIONS=TERMINALS=25 ←	Specifies the number of licensed terminals. (You can specify 0 (zero) if you want unlimited terminals.)
OPTIONS=LEADDAYS=60 ←	Specifies the number of warning lead days.
OPTIONS=ENDMANTIS=2001/12/31 ←	Specifies MANTIS base expiration.
OPTIONS=STARTMANTIS=2000/12/01 ←	Specifies MANTIS starting date. Copies MANTIS base date.
equals (=) are allowed	
OPTIONS=EXPHPO== ←	Specifies High Performance Option. Copies MANTIS base date.
double quotes (") are allowed	
OPTIONS=EXPMSF=" ←	Specifies MANTIS Search Facility.
END ←	ENDs the job stream.
<PA2> ←	Issues Cancel to end the program.
<PA2> ←	Issues Cancel to exit the Facility program.
<PA2> ←	Issues Cancel to logoff MANTIS.

Batch Dialog return codes for VSE

In the VSE environment, BDF provides one of several return codes, indicating a particular run status. The following table lists the possible return codes:

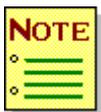
Return code	Description, result, and recommendation
0	Description. Successful run.
4	<p>Description. Warning indicator that one of the following occurred:</p> <ul style="list-style-type: none"> ◆ Specified entity or entities were not found. ◆ Inconsistent (HPO)CHECK, CEFCHECK or SQLCHECK. <p>Result. Process continues.</p> <p>Recommendation. Examine output.</p>
8	<p>Description. Caution indicator that one of the following occurred:</p> <ul style="list-style-type: none"> ◆ Failure to create one or more trigger records. ◆ Failure while executing a trigger record or executing an SQLBIND function. ◆ Failure in executing one or more functions. <p>Result. Process continues.</p> <p>Recommendation. Examine output.</p>
12	<p>Description. Error indicator that one of the following occurred:</p> <ul style="list-style-type: none"> ◆ Error raised on Syntax/Input Stream. ◆ Necessary files unavailable for update. <p>Result. MANTIS terminated the job and printed an Input Validation Report.</p> <p>Recommendation. Examine output.</p>
16	<p>Description. Fatal error indicator that a system error occurred.</p> <p>Result. The program produced no output.</p> <p>Recommendation. Check for errors.</p>
20	<p>Description. Out of input job stream data. (This usually occurs when you place only one <PA2> or no <PA2>s at the end of the batch input stream to end the program.)</p> <p>Recommendation. Verify that all functions were executed.</p>

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Customizing MANTIS after the installation

Customizing startup, termination, and menu programs

To customize MANTIS for your installation, Cincom recommends that you change the following entities:



For information on customizing these entities, refer to *MANTIS Administration, OS/390, VSE/ESA*, P39-5005.

- ◆ **Startup program:** MASTER:SIGN_ON
 - Program entity
 - Screen entity
- ◆ **Termination program:** MASTER:TERMINATE
 - Program entity

◆ **Menu programs**

- MASTER:FACILITY
 - Program entity
 - Screen entity
- MASTER:START_FACILITY
 - Program entity
 - Screen entity
- MASTER:UTILITY_SELECTION
 - Program entity
 - Screen entity

You can customize these entities now or later.

If you are reinstalling MANTIS, you may have already modified the entities listed above. MANTIS reinstallation does not overwrite your modified entities. A reinstall cluster contains a copy of any of these entities that you have changed. The entity copies in the reinstall cluster are named the same as those listed above, except that each one has a “_55” suffix. For example, consider the MASTER:FACILITY_55 program and screen.

You can use each of your _55 entities in one of two ways:

- ◆ **As a model on which to base changes to one of your old program/screen sets.**
- ◆ **As a replacement for one of your old program/screen sets.** To replace an old program/screen set with its _55 version, see [“Replacing one of your old program/screen entity sets with a new program/screen entity set”](#) on page 47.

Replacing one of your old program/screen entity sets with a new program/screen entity set



Errors in the following can prevent you from signing on to MANTIS:

- ◆ MASTER:SIGN_ON program or screen
- ◆ MASTER:FACILITY program or screen

Avoid problems by performing the following when you update or rename any of these programs or screens:

1. Sign on to MANTIS as the MASTER user.
 2. Load the program you intend to change into the Full-Screen Editor.
 3. Change the loaded program as desired.
 4. REPLACE the program (without leaving the Full-Screen Editor).
 5. On another terminal, try to sign on as the MASTER user or as another user. If you cannot, use the first terminal to restore the original, functioning version of your program, or to correct and replace the program.
-



For a particular program/screen set, always rename the program entity before you rename the screen entity.

Renaming your program entity

Perform the following:



For detailed instructions, see “[Renaming a program entity](#)” on page 73

1. Rename your old program entity with an `_OLD` extension.
2. Rename your new program entity without its `_55` extension.

Renaming your screen entity

Perform the following:



For detailed instructions, see “[Renaming a screen entity](#)” on page 75.

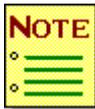
- A. Rename your old screen entity with an `_OLD` extension
- B. Rename your new screen entity without its `_55` extension.

Considerations for MASTER:SIGN_ON and MASTER:TERMINATE

If you use HPO, you will use a MANTIS background task to load the Shared Pool. Be aware of the following considerations for MASTER:SIGN_ON and MASTER:TERMINATE when using background tasks:

- ◆ **Starting MASTER:SIGN_ON.** The following steps concern the start of MASTER:SIGN_ON:

1. When the MANTIS background task that loads the Shared Pool starts, it specifies arguments and passes them on to MASTER:SIGN_ON.
2. MASTER:SIGN_ON accepts the arguments from the MANTIS background task.



To perform step 2, the first line of the MASTER:SIGN_ON must be:

```
ENTRY SIGN_ON(NAME , CLEARANCE , PARAMETER )
```

3. To complete the sign-on for the background task, MASTER:SIGN_ON passes the arguments received from the background task on to the CONTROL:SIGN_ON program.

- ◆ **Testing TERMINAL="BACK\$MAN".** If you are using either of the following, you can test to see if TERMINAL="BACK\$MAN" is true:

- Alternate sign-on
- Customized termination program

If it is true, MANTIS is running in the background and you may wish to bypass any custom code that you have introduced.



This is especially important if your background task does not have access authorization to resources used in an alternate sign-on (VSAM files, for example).

- ◆ **Terminating background tasks.** Because background tasks cannot perform any terminal I/O, you must perform one of the following when terminating them:
 - CHAIN the background task to MASTER:TERMINATE.
 - Modify the facility program to terminate when a background task is completed, instead of redisplaying the MANTIS Facility Selection Menu. For example, add the following lines near the top of the facility program:

```
IF TERMINAL="BACK$MAN"  
.CHAIN"MASTER:TERMINATE"  
END
```
- ◆ **CSOL file logging.** The CSOL file logs the start and stop of each background task. This information accumulates until the CSOL file is deleted and redefined.

(HPO users only) Creating program profiles for protected libraries

If you are using HPO and you wish to add Cincom-protected library programs to the Shared Program Pool, perform the following:

1. Sign on to MANTIS as the MASTER user.
2. On the MASTER facility menu, select the Design a User Profile option (option 7).
3. Select the Directory of Users option (option 4).

A list of the Cincom-protected users that are currently installed on your system appears.

4. Press the CANCEL key to return to the User Profile Design Facility menu.
5. Enter the user name for which you wish to generate EEPRs. For example, enter CONTROL or VPF.
6. Select the Create Extended Program Profiles option (option 8).
7. Confirm your request to create extended program profiles.

MANTIS generates EEPRs for the user you specified.

8. The generated EEPRs provide the program list that appears on the Shared Pool Nominate List. From this program list, nominate the programs that you would like loaded into the Shared Pool.

(HPO users only) Shared Pool considerations

Shared Pool Facility and the CSIADB file

MAIWI created the CSIADB file as part of the install process.

In order to operate, the Shared Pool Facility requires the following of the CSIADB file:

- ◆ The CSIADB file must exist.
- ◆ The CSIADB file must be defined to CICS.

Shared Pool and the Statistics Facility

MANTIS provides a Statistics Facility, which is available from the MASTER user's MANTIS Utilities menu. It performs the following Shared Pool-related tasks:

- ◆ Assists the MASTER user in deciding which programs should be nominated to the Shared Pool.
- ◆ Verifies that the Shared Pool is working as expected.

Shared Pool and memory location

The Shared Pool's memory location depends on whether MANTIS is XA or non-XA:

- ◆ **XA MANTIS.** The Shared Pool resides in XA memory.
- ◆ **Non-XA MANTIS.** The Shared Pool can reside in one of the following locations:
 - GETMAINed non-XA storage
 - Loaded copies of the CSOPSHRP module, below the 16 MB line

C\$OPCUST customization options

In C\$OPCUST, you specify certain parameters that control the Shared Pool. Refer to *MANTIS Administration, OS/390, VSE/ESA*, P39-5005, for more information on the following:

- ◆ C\$OPCUST customization options
- ◆ SHRPMOD operands
- ◆ SPSIZE operands
- ◆ C\$OPSHRP macro

Running the split SETPRAY utility (optional)

You can use the split SETPRAY utility to split the SETPRAY cluster into multiple physical data sets that will be accessed as a single logical SETPRAY cluster.

Reasons to split your SETPRAY cluster

Reasons for splitting your SETPRAY cluster include:

- ◆ Reducing SETPRAY I/O
- ◆ Reducing access contention
- ◆ Easing maintenance when multiple copies of MANTIS are in use

Splitting your SETPRAY cluster again after MANTIS reinstallation

If you recombined your split SETPRAY cluster before MANTIS reinstallation, you can now split your SETPRAY again.

Procedure for splitting your current SETPRAY cluster

To split your current SETPRAY cluster, perform the following:



For details on performing these steps, refer to *MANTIS Administration, OS/390, VSE/ESA*, P39-5005.

1. Create a SETPRAY user exit (CSOXSETP).
2. Execute the Split SETPRAY Utility (CSOPSPLT). To accomplish this, perform the following:
 - A. Punch member MYJSPLIT.JCL.
 - B. Update the JCL according to your standards. To update the JCL, use the following information:
 - ◆ The Linkdeck for the Split SETPRAY Utility is the member MVLSPLIT.A, found in the installation sublibrary.
 - ◆ The sample input statements are contained in member MNISPLIT.A, found in the installation sublibrary.
3. Submit the JCL job

6

Installing AD/Advantage

Installation prerequisites

Before you continue with the AD/Advantage installation procedure, make sure you have:

- ◆ **The EXAMPLES user.** You must have the EXAMPLES user before you can install AD/Advantage. Consider the following:
 - Before you reinstall MANTIS, confirm that the EXAMPLES user exists.
 - If you need to create the EXAMPLES user, refer to MANTIS Administration, OS/390, VSE/ESA, P39-5005.
- ◆ **A completed MANTIS installation.** You may have completed this installation from tape cartridge.
- ◆ **A working knowledge of several MANTIS facilities.** These facilities include those that you will use in order to:
 - Run programs—To see how to run a program by using the Run a Program by Name option (option 1), refer to *MANTIS Facilities, OS/390, VSE/ESA*, P39-5001.
 - Save programs—To see how to save a program by using the Program Design Facility, refer to *MANTIS Program Design and Editing, OS/390, VSE/ESA*, P39-5013.
 - Replace programs—To see how to save a program by using the Program Design Facility, refer to *MANTIS Program Design and Editing, OS/390, VSE/ESA*, P39-5013.

Installation procedure

To install AD/Advantage, perform the following:

1. Run MANTIS.
The sign-on screen displays.
2. Sign on to MANTIS as the MASTER user.

The MANTIS Facility Selection Menu appears. Your MANTIS Facility Selection Menu may look similar, but not identical, to the following screen:

```

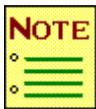
FACILMENU01          MANTIS Facility Selection Menu (MASTER)          YYYY:MM:DD
                                                                HH:MM:SS

Please select one of the menu options below.

_____  Run a Program by Name ..... 1  Sign On as Another User .... 13
Display a Prompter ..... 2  Set Preferred Terminals .... 14
Design a Program ..... 3  Directory Facility ..... 15
Design a Screen ..... 4  DL/I Access View ..... 16
Design a MANTIS File View .. 5  Shared Pool Facility ..... 17
Design a Prompter ..... 6  Query Report Writer ..... 18
Design a User Profile ..... 7  Print Facility ..... 19
Design an Interface ..... 8  Cross Reference Facility ... 20
Design a TOTAL File View ... 9  Entity Transformers ..... 21
Design an External File View 10 Universal Export Facility .. 22
Transfer Facility ..... 11  Search Facility ..... 23
MANTIS Utilities ..... 12

F1=HELP  F3=EXIT  F12=CANCEL
    
```

3. In the MASTER User Profile, adjust your SLICE/SLOT parameters. To accomplish this, perform the following:
 - A. On the MANTIS Facility Selection Menu, select the Design a User Profile option (option 7).
 - B. Enter MASTER in the User Name field.
 - C. Press PF3 to "Alter an existing profile".
 - D. Increase your SLICE/SLOT parameters to at least the following:
 - ◆ STATEMENTS PER SLOT: 3000
 - ◆ SLOTS BEFORE INTERRUPT: 200



For more information on SLICE/SLOT parameters, refer to *MANTIS Administration, OS/390, VSE/ESA*, P39-5005.

4. Press ENTER to save changes to the MASTER User Profile.
5. Press the CANCEL key to terminate the User Profile Design Facility.
6. On the MANTIS Facility Selection Menu, select the Sign On as Another User option (option 13).
7. Sign on to MANTIS as the MASTER user.



Performing steps 6 and 7 causes the SLICE/SLOT parameter changes you entered in step 3 to take effect.

8. On the MANTIS Facility Selection Menu, select the Run a Program by Name option (option 1) to run the AD/Advantage installation program. English users and German users should run different installation programs:
 - ◆ **English users.** Run VPF:ADV_INSTALL_ENU.
 - ◆ **German users.** Run VPF:ADV_INSTALL_DEU.

The AD/Advantage Installation screen displays, as shown below:

```

AD/Advantage Installation
                                YYYY/MM/DD   HH:MM
-----
Before Installation, AD/Advantage needs more Information about your System

AD/Advantage uses Special Characters for System Entities
by Default this character is the # sign.
New Special Character....  #

AD/Advantage supports Multiple languages.
In this Release the only supported Language is US English

Reinstallation-Options
Specify Y to delete only System Entities from the Dictionary
with Subsystem-ID:  ADV.....

-----
ENTER to start Installation / CANCEL to stop
    
```

9. In the New Special Character field, define the special character for AD/Advantage to use. See the following definition:

New Special Character

- Description** *Required.* Specifies the special character that begins all AD/Advantage system transactions.
- Default** Hash character (#)
- Consideration** After installation, you can change the system special character by using the #UPDCHAR transaction.

10. In the Reinstallation-Options field, define which entities are deleted and replaced when you reinstall AD/Advantage. See the following definition:

Reinstallation-Options

- Description** *Optional.* Specifies which entities are deleted and replaced when you reinstall AD/Advantage.
- Default** (blank)
- Options** (blank) Deletes the entire AD/Advantage dictionary and replaces it with a new dictionary.
- Y Deletes and replaces only the AD/Advantage system entities (the ADV subsystem) stored in the AD/Advantage dictionary.

11. Perform one of the following:

- ◆ Stop the installation by pressing the CANCEL key.
- ◆ Continue the installation process by pressing ENTER.

Phase 1 of the installation executes, deleting some or all (depending on your selections in step 10) of the files currently stored in the AD/Advantage dictionary. The system prompts you to press ENTER to continue with Phase 2.

12. If you would like to continue with Phase 2, press ENTER.

Phase 2 of the installation executes.

13. Press ENTER.

The MANTIS Facility Selection Menu appears.

14. On the MANTIS Facility Selection Menu, select the Design a User Profile option (option 7).

15. Enter MASTER in the User Name field.

16. Select the Create Extended Program Profiles option (option 8).

MANTIS creates EEPR records for the MASTER user's newly loaded programs.

17. Enter EXAMPLES in the User Name field.

18. Select the Create Extended Program Profiles option (option 8).

MANTIS creates EEPR records for the EXAMPLES user's newly loaded programs.

19. If you have installed HPO and you wish to nominate any AD/Advantage programs to the Shared Pool, perform the following:

- A. Enter VPF in the User Name field.
- B. Select the Create Extended Program Profiles option (option 8).

MANTIS creates EEPR records for the VPF user's newly loaded programs.

20. To activate AD/Advantage, perform the following:

- A. Rename MASTER:SIGN_ON as MASTER:SIGN_ON_OLD.



For detailed instructions on renaming a program entity, see “Renaming a program entity” on page 73.

- B. Rename MASTER:ADV_SIGN_ON as MASTER:SIGN_ON.

21. Before signing off this terminal, test your changes by attempting to sign on to another terminal. If you cannot, use the first terminal to perform one of the following for any program that is causing problems:

- ◆ Restore the original, functioning version.
- ◆ Correct and replace the program

22. If you are reinstalling MANTIS, your old MASTER:SIGN_ON program might be customized. If so, merge the changes made to your old MASTER:SIGN_ON program with the new MASTER:SIGN_ON.

23. Modify the MASTER:FACILITY and MASTER:START_FACILITY programs. Perform one of the following:
 - ◆ **If you have installed or will install ACCESS and will use the Software Selection Facility.** Perform the following:
 - A. In the MASTER:FACILITY program, replace the CHAIN“CONTROL:SIGN_ON” statement with a CHAIN“MASTER:ADV_SIGN_ON” statement.
 - B. In the MASTER:START_FACILITY program, replace the CHAIN“CONTROL:SIGN_ON” statement with a CHAIN“MASTER:ADV_SIGN_ON” statement.
 - ◆ **If you have not installed and will not install ACCESS, or will not use the Software Selection Facility.** Perform the following:
 - A. In the MASTER:FACILITY program, replace the CHAIN“CONTROL:SIGN_ON” statement with a CHAIN“MASTER:SIGN_ON” statement.
 - B. In the MASTER:START_FACILITY program, replace the CHAIN“CONTROL:SIGN_ON” statement with a CHAIN“MASTER:SIGN_ON” statement.
24. If any of the programs that you have modified and replaced, or renamed, are located in the Shared Program Pool, reload them into the Shared Program Pool in order for your changes to take effect.

7

Verifying MANTIS SQL Support installation for DB2 and SQL/DS



In this chapter, “DB2” represents both DB2 and SQL/DS.

How to know when MANTIS SQL Support installation is complete

MANTIS SQL Support installation is complete after the following occur:

1. CSOPSQL1 has been successfully:
 - ◆ Precompiled
 - ◆ Assembled
 - ◆ Link-edited with MANTIS
2. MANTIS has granted authority to use the access module.
3. Execution authority has been granted to all users that access DB2 or to PUBLIC.

How to know when MANTIS SQL Support is available for your use

When the link-edit of MANTIS is finished, MANTIS SQL Support should be available for your use.

Verifying that MANTIS SQL Support is available for use

Verification procedure for DB2 users

To verify that MANTIS SQL Support is available for use (if you are using DB2 or SQL/DS), run the MASTER:SQL_INSTALL_CHECK_SQLDS program. This program verifies that MANTIS SQL Support can successfully communicate with DB2 by listing the DB2 databases that are defined on your system. To execute this program, perform the following

1. Sign on to MANTIS as the MASTER user.
2. Make sure that the DB2 connection is active. If it is not, use the CIRB CICS command to connect to DB2.



For more information on the CIRB CICS command, refer to the appropriate DB2 manual.

3. Execute the program MASTER:SQL_INSTALL_CHECK_SQLDS.

What to do if you receive an AEY9 abend when you run MASTER:SQL_INSTALL_CHECK_SQLDS

If you receive an AEY9 abend when you run MASTER:SQL_INSTALL_CHECK_SQLDS, perform the following:

1. Use the CIRB CICS command to activate DB2.
2. Run MASTER:SQL_INSTALL_CHECK_SQLDS again.

8

Performing XREF batch maintenance

Sample input statements in your XREF sublibrary

Sample input statements that are not for DL/I

The following sample input statements are located in your XREF sublibrary. They are all input for jobs within XREFJOB, and are not for DL/I:

- ◆ **XRNONE.A** Input for the PRINT job.
- ◆ **XREFMOD.A** Input for the XREF job.
- ◆ **XREFMODI.A** Input for the XREF job.

Sample input statements for DL/I only

The following sample input statements are located in your XREF sublibrary. They are all input for the XREF job within XREFJOB, and are only for DL/I:

- ◆ **XRSELDLI.A**
- ◆ **XRSELDLM.A**

JCL to execute the XREFJOB.PROC procedure

XREFJOB.A contains the JCL to execute the XRJOB1.PROC procedure.

More information on XREF batch index creation and maintenance

For details concerning batch index creation and maintenance for XREF, refer to the *MANTIS XREF Administration, OS/390, VSE/ESA*, P39-0012.

What to do when executing XREFJOB

Perform one of the following when executing XREFJOB:

- ◆ Execute XREFJOB when CICS is not running.
- ◆ Close the XREFIND file to CICS before you submit XREFJOB.

9

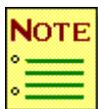
Installing SSF SL2033



If you are upgrading or cloning a current MANTIS installation, and you already have SSF SL2033 installed, you need not reinstall it.

To install SSF SL2033, perform the following:

1. Back up your MANTIS cluster.
2. REPRO the SSF cluster that is located on the MANTIS installation tape cartridge onto your MANTIS cluster.



For the file number and name of the file on the installation tape cartridge, refer to *Installing MANTIS 5.5.01 and AD/Advantage for VSE/ESA*, M39-1041 (available only as hardcopy).

3. Sign on to MANTIS as the MASTER user.
4. On the MANTIS Facility Selection Menu, select the Design a User Profile option (option 7).

5. Select the Create Extended Program Profiles (option 8).

MANTIS creates EEPR for the MASTER user's newly loaded programs.

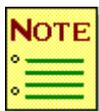
6. If you have installed HPO and you wish to nominate any SSF programs to the Shared Pool, perform the following:

- A. Enter CSI-DBA in the User Name field.

- B. Select the Create Extended Program Profiles option (option 8).

MANTIS creates EEPR records for the CSI-DBA user's newly-loaded programs.

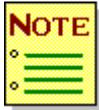
7. Perform one of the following:
- ◆ **If you are installing SSF SL2033 after a new MANTIS installation, and you will not be using the Software Selection Facility (SSF) menu.** Continue using your current MASTER:SIGN_ON program, without changes.
 - ◆ **If you are installing SSF SL2033 after a MANTIS reinstallation, and you will not be using the Software Selection Facility (SSF) menu.** Continue using your current MASTER:SIGN_ON program, without changes.
 - ◆ **If you will be using the Software Selection Facility (SSF) menu.** Perform the following:
 - A. Rename MASTER:SIGN_ON as MASTER:SIGN_ON_OLD2.



For detailed instructions on renaming a program entity, see [“Renaming a program entity”](#) on page 73.

- B. Rename MASTER:FACILITY as MASTER:FACILITY_OLD2.
- C. Rename MASTER:TERMINATE as MASTER:TERMINATE_OLD2.
- D. Rename MASTER:SIGN_ON_ACCESS2033 as MASTER:SIGN_ON.
- E. Rename MASTER:FACILITY_ACCESS2033 as MASTER:FACILITY.
- F. Rename MASTER:TERMINATE_ACCESS2033 as MASTER:TERMINATE.
- G. If you are installing SSF SL2033 after a MANTIS reinstallation, and you customized your original MASTER:SIGN_ON program, merge your changes with the MASTER:SIGN_ON that SSF installed (and that you renamed in step D).

8. If you are installing SSF SL2033 after installing MANTIS with AD/Advantage, perform the following:
 - A. In the MASTER:FACILITY program, change the CHAIN "CONTROL:SIGN_ON" statement to CHAIN "MASTER:ADV_SIGN_ON".
 - B. In the MASTER:START_FACILITY program, change the CHAIN "CONTROL:SIGN_ON" statement to CHAIN "MASTER:ADV_SIGN_ON".
 - C. Apply the MANTIS code patch that has fix ID 960529.



Applying patch 960529 enables access to AD/Advantage.

9. Before signing off the current terminal, test your changes by attempting to sign on to another terminal. If you cannot, use the terminal to which you are already signed on to perform one of the following for any program that is causing problems:
 - ◆ Restore the original, functioning version.
 - ◆ Correct and replace the program.

A

MANTIS messages

New MANTIS messages for MANTIS 5.5.01

The following messages are new in release 5.5.01:

- ◆ ENUBDFAAII
- ◆ ENUBDFAAUI
- ◆ ENUBDFABIF (Fatal)
- ◆ ENUBDFACII
- ◆ ENUBDFACNF (Fatal)
- ◆ ENUBDFAFEE
- ◆ ENUBDFANCF (Fatal)
- ◆ ENUBDFANMF
- ◆ ENUBDFANPF (Fatal)

- ◆ ENUBDFANRI
- ◆ ENUBDFAPSF (Fatal)
- ◆ ENUBDFARCF (Fatal)
- ◆ ENUBDFARNW
- ◆ ENUBDFASIE
- ◆ ENUBDFASNI
- ◆ ENUBDFASUE
- ◆ ENUBDFCCDF
- ◆ ENUBDFRECI
- ◆ ENUBDFUFPE (Deleted)
- ◆ ENUBDFUFTE

B

Renaming a program entity

To rename a program entity, perform the following:

1. Sign on to MANTIS as the MASTER user.
2. On the MANTIS Facility Selection Menu, select the Design a Program option (option 3).
3. Select the Rename option (option 6).
4. In the From name field, enter the initial name of the desired program. For example, enter START_FACILITY.
5. In the To name field, enter the new name for the program. For example, enter START_FACILITY_OLD.
6. Press PF6.

MANTIS renames the entity.

C

Renaming a screen entity

To rename a screen entity, perform the following:

1. Sign on to MANTIS as the MASTER user.
2. On the MANTIS Facility Selection Menu, select the Design a Screen option (option 4).
3. Select the Library Functions option (option 7).
4. Enter the name of your existing screen. For example, enter START_FACILITY.
5. Press PF3.

MANTIS fetches the screen.

6. Modify the screen name. For example, you might modify START_FACILITY so that it becomes START_FACILITY_OLD.
7. Press PF1.

MANTIS saves the screen under a new name.



If you would like to change another screen name, return to step 4.

D

MYXXINST.SAMP JCL job

The MYXXINST.SAMP member contains a sample JCL job that executes MAIWI.

Overview of parameters in MYXXINST.SAMP JCL job

In the process of executing MAIWI, the MYXXINST.SAMP JCL job passes MAIWI several parameters. These parameters are listed below and are described throughout this appendix:

- ◆ **ACTION=**''. You can select the following values for this parameter:
 - I—Install.
 - C—Clone.
 - UP—UPgrade.
 - UN—UNinstall.
- ◆ **RESTART=**''. You can enter the restart point that MANTIS supplies to you before MAIWI terminates.
- ◆ **VALIDATA=**''. Default is Y. You can select the following values for this parameter:
 - Y—Yes.
 - N—No.
 - O—Only.
- ◆ **INSTMODE=**''. Default is P. You can select the following values for this parameter:
 - P—Prompt.
 - A—Auto.

Values for the ACTION=' parameter

Each of the actions in MYXXINST.SAMP executes MAIWI for a different purpose. These actions, and the steps involved with each, are listed in the following subsections:



MAIWI uses batch MANTIS to execute the INSTALL, CLONE, and UPGRADE functions of BDF. Unlike with previous MANTIS releases, the process of creating the authorization record for the CPU on which you run MANTIS is now part of the BDF installation process.

ACTION='I' (Install)

The 'I' (Install) action installs a new copy of MANTIS. When you select this action, MAIWI performs the following:

1. Defines and loads the MANTIS sublibraries.
2. Defines and loads all of the MANTIS VSAM files.
3. Creates the CICS definitions for MANTIS.
4. If applicable, defines the DB2 (SQL/DS) authorizations for MANTIS.
5. Links CICS MANTIS with the appropriate modules.
6. Links batch MANTIS with the appropriate modules.
7. Adds the CICS MANTIS and MANTIS global area phases to the CICS search chain that you specified in the MYXDVAR.DATA member.



If you are creating a new sublibrary in which the CICS MANTIS and MANTIS global area phases will reside, you must add this new sublibrary to the CICS search chain in your CICS startup JCL.

8. Runs the Batch Dialog Facility install process to complete the installation.

ACTION='C' (Clone)

The 'C' (Clone) action creates a copy of your current files and then upgrades this copy to the new MANTIS release. When you select this action, MAIWI performs the following:



For installation to proceed, your current installation's release number must be 5401 or higher.



The CLONE action does not modify the following from the prior release:

- ◆ Sublibrary
 - ◆ VSAM files
 - ◆ CICS definitions
-

1. Creates a copy of your current VSAM files.
2. Upgrades the newly-created copy of your current VSAM files to Release 5501. During the upgrade process, CLONE performs steps 1-8 under "ACTION='I' (Install)" on page 78.
3. If indicated in MYXDVAR.DATA, converts your old-format CSOT to the new 5.5.01 format.

ACTION='UP' (UPgrade)

The 'UP' (UPgrade) action upgrades your current VSAM files to the new release. When you select this action, MAIWI performs the following:



Cincom recommends that you back up your current MANTIS VSAM files before selecting this option.



For installation to proceed, your current installation's release number must be 5401 or higher.

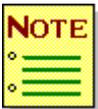
1. Defines and loads a new MANTIS sublibrary.
2. Defines and loads any missing MANTIS VSAM files.
3. Updates the DB2 Authorization, if necessary.
4. Links CICS MANTIS with the appropriate modules.
5. Links batch MANTIS with the appropriate modules.
6. Replaces the CICS MANTIS and CSOPGLBL phases in the CICS search chain sublibrary.
7. Runs the BDF install process to complete the installation.
8. If indicated in MYXDVAR.DATA, converts your old-format CSOT to the new format.



If you are using the same sublibrary name as in your previous installation, this process replaces your current modules.

ACTION='UN' (UNinstall)

The 'UN' (UNinstall) action removes the most recent installation that MAIWI performed (this option cannot remove installations performed before the most recent installation).



When you select this action, the bottom of the MYXDVAR.DATA member contains options that determine which objects MAIWI will remove from the system.

Value for the RESTART=" parameter

Restart point

If the installation job fails, MAIWI usually provides you with a restart point in the following format:

```
CSIxxxxnnnn
```

What to do when installation fails

When the installation fails, perform the following:

1. Correct the installation job.
2. Enter the restart point, provided by MANTIS, into the RESTART=" parameter.
3. Submit the MYXXINST.SAMP job.

Values for the VALIDATA=" parameter

Select one of the following values:

- ◆ **Y (Yes).** Default. MAIWI verifies the values that you specified in MYXDVAR.DATA and then continues on to perform the MANTIS installation.
- ◆ **N (No).** MAIWI does not verify the values that you specified in MYXDVAR.DATA, but still performs the MANTIS installation. You might select this value if you have already tried to run the installation job, and all validation was successful, but the installation job terminated before completion.
- ◆ **O (Only).** MAIWI verifies the values that you specified in MYXDVAR.DATA and then terminates without continuing on to perform the installation.

Values for the INSTMODE=' parameter

Select one of the following values:

- ◆ **P (PROMPT)**. Default. MAIWI prompts you whenever it requires your confirmation for an action.
- ◆ **A (AUTO)**. MANTIS assumes that it has your approval for every action and only prompts you in case of an error. You might use this option if you have run the installation job before you know you will accept all actions that MANTIS will attempt.