M3 BE LifeCycle Manager User Guide

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Version Log

The version log describes the changes between versions of this document.

Part Number	Release Date	Description
1.0	2013-05	First revision for this document.
2.0	2013-12	Updated for M3 Foundation 10.1.1.0
3.0	2013-02	Updated for M3 Foundation 10.1.2.0 - removed the License Server chapter.

Contents

Overview

1

This chapter provides an introduction to the M3 BE LifeCycle Manager User Guide and includes the following topics:

What is LifeCycle Manager?

LifeCycle Manager is a framework that facilitates standardized and uniform installation, maintenance, and management of M3 products. This framework enables administration and customization of several servers and products from a centralized location. For information about supported platforms, see the System Requirements in *LifeCycle Manager Installation Guide*.

Intended audience

This document is primarily meant for LifeCycle Manager users and administrators who manage M3 products.

Installing M3 Business Engine

2

This chapter is only included to point out the need for installing the M3 Business Engine (BE) prior to running the M3 BE tasks.

For more information, see the appropriate instructions in *M3 Business Engine and M3 Foundation Installation Guide*.

Installing environment and database

3

This chapter describes how to install an environment and database for M3 Business Engine using LifeCycle Manager.

Attaching an M3 Business Engine database

Use this procedure to attach an M3 Business Engine database. If you want to attach an M3 Business Engine database that is not created using LifeCycle Manager to your environment, you must first attach this database to your middleware database instance. This can be useful when upgrading from an older BE version or if you want to attach a backup of a database to your environment.

To attach an M3 Business Engine database

1. Right-click the node of your M3 Business Engine application middleware database instance and select Attach M3BE Database.
2. Type the user name and password of the database administrator.
3. Click Next.
4. Select the database to attach.
5. Click Next. The Summary window is displayed.
6. Verify the values provided and click Finish.
7. When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

   The M3 Business Engine database is now attached.

Installing an M3 database

Before running the M3 Business Engine Environment tasks, you must run the procedures described in the chapter Install environment and database.

For more information, see the appropriate instructions in *M3 Business Engine and M3 Foundation Installation Guide*.

M3 Business Engine tasks

4

This chapter describes the tasks that you can perform on an M3 Business Engine installation.

Uploading an M3 Business Engine package

Use this procedure to upload M3 Business Engine (BE) components, such as additional components, feature packs and fixes, to the LifeCycle Manager Server before installing them. Only those files related to M3 BE can be uploaded using this procedure.

To upload an M3 BE package

1 Right-click M3BE_*xx.x* and select upload M3BE package.

The notation *xx.x* refers to the current version of the M3 Business Engine.

Tip: You can also open the task by clicking Upload M3 BE package on the Dashboard.

2 Click Select… and choose the directory on your administrative client that contains the M3 Business Engine packages. Select your packages and click Next.

3 On the Summary screen, verify the property values, and click Finish

4 When the task is finished, a dialog appears. Click OK. To view the log file, either click View log or go to the Logs view.

Installing M3 BE packages

An M3 BE package in this case can be a service pack, additional language, document language or an additional component (such as a market or a customer modification).

Before you start Ensure that you have uploaded the component package to the LifeCycle Manager Server. For detailed information about the procedures on how to upload and install, see "Uploading an M3 Business Engine package" on page 11 and the applicable instructions in *M3 Business Engine and M3 Foundation Installation Guide*.

To Install M3 BE Packages

1. Right-click M3BE_xx.x, and select Install M3 BE Packages.

   The notation *xx.x* refers to the current version of the M3 Business Engine.
2. Select the M3 Business Engine packages to install in the list. It is possible to select several packages at a time. Click Next.

   The appropriate Viewdefinitions, language files, help files and OUT layouts are installed at the same time.
3. On the Summary screen, verify the property values, and click Finish.
4. When the task is finished, a dialog appears. Click OK. To view the log file, either click View log or go to the Logs view.

Retrieving MCEs

Use this procedure to filter, search, and retrieve available Maintenance Correction Entity (MCE) packages using the Retrieve MCE task. The Retrieve MCE task also allows you to display the status and dependencies for an MCE package.

For more information about MCE packages, see Types of fixes.

❑ Retrieve MCE

Before you start You may need to set up access to the CCSS server before you can retrieve MCE packages. For example, if your organization uses a proxy server to access the internet, you must first set up LifeCycle Manager to recognize the proxy. Review the guidelines and procedures in **Managing Access to the Customer Correction Self Service (CCSS) Server** in the *M3 LifeCycle Manager User Guide*.

___**1** Right-click M3BE_xx.x and select Retrieve MCE.

The notation xx.x refers to the current version of the M3 Business Engine.

___2 The Logon to CCSS Sever dialog appears. Enter the User and Password used for logging on to the Infor Xtreme site, and click OK.

___3 In the Solution overview pane, search a solution from the list of available MCEs using the following filter options:

Solution	Enter the ID number of the solution.
Description	Enter a description of the solution.
Component	Select the component to which the solution belongs, or select ALL to show all components.
Show	Select to view all solutions or view only those that have been retrieved or not retrieved already.
View	Select to view 100, 500 or ALL MCEs

___4 Click Search. The search results are displayed. The following table lists the status that might be displayed in the Retrieved column of the results list:

Status	Description
✓	The solution is retrieved and is available on the LifeCycle Manager Server.
✗	The solution is not yet retrieved.

___5 Select one solution in the list. The details and possible dependencies of the selected MCE solution are displayed.

___6 Select the check box of one or more solutions, or right-click and select Select All MCE's. Click Retrieve.

___7 Click OK. The MCE solution and all dependencies that are not yet retrieved are retrieved and uploaded to the LifeCycle Manager Server.

You can now install the downloaded MCE solution using the Apply option in the Manage Fixes tab. For more information, see Managing fixes.

Comparing environment fixes

Use this procedure to compare the status of various MCE fixes installed in all M3 BE environments.

To compare environments

1 Right-click M3BE_xx.x and select Environment Compare (fixes).

The notation xx.x refers to the current version of the M3 Business Engine.

Tip: You can also access Environment Compare by clicking the task Environment Compare (fixes) on the Dashboard.

The Environment Compare (fixes) tab is displayed.

2 Select the M3 BE version to compare fixes for.

3 In the Solution Filter field, enter a part of or the whole of a solution number. Depending on the filter criterion, a list with search results is displayed.

These statuses can be displayed in the results list:

Status	Icon	Description
Applied	✔	The fix is fully applied.
Superseded	✓	The MCE is fully replaced by a later MCE.
Partially Superseded	!	One or more of the files included in the MCE is replaced by a later MCE.
Partially Applied	!	One or more of the files included in the fix is applied, but not all of them (only valid for fixes that are not MCEs).

4 To save the filter results, click the Export List to Excel button at the bottom of the Environment Compare pane. Use this feature to export fix information, such as fix names, objects, dates when objects are deployed, descriptions and users who deployed the fixes to an Excel sheet.

In the Export List to Excel dialog, type a filename and click Save.

5 When the task is finished, the Export completed notification message window is displayed. Click OK. The Excel sheet with the exported fix information is saved.

The generated Excel sheet includes an Environment Summary tab with information on the filtered fixes. A tab for each M3 BE environment compared are also available in the exported Excel file, including all the fixes deployed for the individual environments.

Unregistering M3 Business Engine

Use this procedure to remove an installation of M3 Business Engine from the LifeCycle Manager. This task only removes the M3BE_*xx.x* entry from the LifeCycle Manager view. No files are removed from the M3 BE application or database server.

Warning: You cannot register M3 BE again to make it known to the LifeCycle Manager. You will need to install the M3 Business Engine again from the start.

Before you start Ensure that you have uninstalled existing environments related to your M3 Business Engine installation. For more information, see Uninstalling an environment.

To unregister M3 Business Engine

1. Right-click M3BE_*xx.x* and select Unregister M3 Business Engine.

   The notation *xx.x* refers to the current version of the M3 Business Engine.

   Tip: You can also unregister M3 BE by clicking the task Unregister M3 BE on the Dashboard.

2. If there are existing environments related to this M3 Business Engine installation, an information window is displayed.
3. Delete the environments and run this procedure again.
4. When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

   The M3 Business Engine installation is now unregistered.

Environment tasks

5

This chapter provides information on the various tasks that you can perform on any environment.

Starting an environment

Use this procedure to start a required environment.

To start an environment

1 Right-click the environment that you want to start and select Start Application.

Tip: You can also start the environment by clicking the task Start Application on the Dashboard.

2 When the task is finished, a window is displayed. Click OK.

Stopping an environment

Use this procedure to stop a required environment.

To stop an environment

1 Right-click the environment that you want to stop and select Stop Application.

Tip: You can also open the task by clicking Stop Application on the Dashboard.

2 When the task is finished, a window is displayed. Click OK.

Manage Application view

The Manage Application view provides common work management functions for any selected environment.

You can launch the Manage Application view for any environment. Ensure that the environment is started before launching this view. You can use the following options to launch the view:

- Right-click an environment, for example Production, and select Manage Application.
- Select an environment and on the dashboard, click Manage Application found on the Task tab.

For more information, see *M3 Business Engine Foundation Administration Guide*.

Uninstalling an environment

Use this procedure to delete an M3 Business Engine (BE) environment that is no longer needed.

❑ Uninstall the M3 BE environment

___**1** Stop your environment by right-clicking your environment and selecting Stop Application.

___**2** Right-click your environment and select Application Maintenance > Uninstall Application.

The Uninstall Application wizard is started.

___**3** Click Next. A new window indicating that the Application is running is displayed.

___**4** Select the option to Shutdown nodes.

___**5** Click Next. A Summary window is displayed.

___**6** Verify the information and click Finish.

___**7** When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

The selected environment is no longer shown in the Hosts or Applications tab.

Database

This section provides information on the various tasks that you perform on the database.

Exporting database data

Use this procedure to export database data to a file. Exporting data from the database into a zip file can be useful when, for example, transferring information from a test environment to a production environment.

To export database data

1 Right-click an environment and select Database > Export Database Data.

Tip: You can also open the task by clicking the task Export Database Data under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

Note: The environment is in maintenance mode until the application is stopped, started, or set online.

3 Type the user ID and password of the database administrator.

4 Click Next. The Select Configuration Option window is displayed.

5 Select one of the ways on how to export data. Consider the following options:

Export Database Data	Select this option if you want to export specific data
Export database data using saved configuration	Select this option if you want to export specific data using a saved configuration. **Note:** Infor recommends you to save the settings or configuration related to certain data, such as tables, that you use frequently to prevent you from providing the same data over and over again.
Delete configuration	Select this option if you want to remove a saved configuration.

When the second and third options are selected, the Configuration field is enabled. It allows you to use or delete a saved configuration. The configuration is saved in the LCM clients workspace that is chosen when logging on. If you can not find your saved configuration, you may have saved the configuration in another workspace or in another LCM Clients workspace.

6 Click Next. The Table Selection window is displayed.

7 Provide necessary information in the following fields:

Component	Select a component in the list. By default, MVX is selected.
Database schema	Depending on your selection of component, the correct schema is displayed in this field. This field is read-only and cannot be changed.

Options	Select one of the following options for Table selection: • Export all tables - Exports all the tables. • Enter table name - Exports one specific table. Type the name of the table. • Select tables - Displays a selection of tables.

8 Click Next. The Target ZIP File window is displayed.

9 Type a unique filename to identify the exported data. This zip file will be saved in the file structure where M3 BE is installed. For example in M3BE_db_data\exported_data\tables.zip

10 Click Next. The Export Company and Division window is displayed.

11 You can use pre-defined or advanced settings for selecting company and division:

- To use predefined settings, provide the necessary information in these fields:

Include tables	Select one of the following filters: • All selected tables • All selected tables whose records contain company field
Filter company	Select this option if you want to export a specific company and division to a target company. **Note:** If you do not select this option, all fields except for the Include tables are disabled.
Division filter	Select one of the following options: • All divisions - Export all divisions (incl records with no division). • Selected division - Specified division is exported (incl records with no division)
Source Company	Type the source company number and division
Target Company	Type the target company number and division

- To use the advanced settings:

  Type the source selection and target values. For more information, see "Manual selection of database data for copying" on page 27

12 Click Next. The Advanced Copy Configuration window is displayed

13 Select the number of threads to be used for this export.

14 Click Next. The Export data format window is displayed.

15 Select one of the following options:

- Compressed LCM Data
- XML

16 Click Next. The Save Configuration window is displayed.

17 Type a unique name for the configuration.

18 Click Next. The Summary window is displayed.

19 Verify the values provided and click Finish.

20 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Importing database data

Use this procedure to import data to the database, for example, previously exported data.

To import data to a database

1 Right-click your environment and select Database > Import Database Data.

Tip: You can also open the task by clicking Import Database Data under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

Note: The environment is in maintenance mode until the application is stopped, started, or set online.

3 Type the user ID and password of the database administrator.

4 Click Next. The Select Configuration Option window is displayed.

5 Select one of the ways on how to import database data. Consider the following options:

Import Database Data Select this option if you want to import specific data

Import Database Data using saved configuration	Select this option if you want to import specific data using saved configuration. **Note:** It is recommended to save the settings or configuration related to certain data, such as tables, that you use frequently to prevent you from providing the same data over and over again.
Delete configuration	Select this option if you want to remove a saved configuration.

When the second and third options are selected, the Configuration field is enabled. It allows you to use or delete a saved configuration. The configuration is saved in the LCM clients workspace that is chosen when logging on. If you can not find your saved configuration, you may have saved the configuration in another workspace or in another LCM Clients workspace.

6 Click Next. The Select data files window is displayed.

7 Select the source zip files to import. There are two panes. The upper pane contains a list of source zip files uploaded to LCM server. The lower pane contains source zip files stored locally on your server. You can select one or more files to add to both panes.

8 Click Next. The Table Selection window is displayed.

9 Provide necessary information in the following fields:

Component	Select a component. For an additional component, select the component specified in the Environment Configurator Components pane (MNS104). For standard M3 BE without any modification, select the MVX component.
Database schema	Depending on your selection of component, the correct schema is displayed in this field..
Options	Select one of the following options for Table selection: • Import all tables - Imports all the tables. • Enter table name - Imports one specific table. Type the name of the table. • Select tables - Displays all tables in a list from where you may select the tables to import data from.

10 Click Next. The Import Strategy window is displayed.

11 Provide necessary information in the following fields:

Replace existing records	The records in target that have a duplicate in the source are replaced by the ones imported.
Keep existing records	The existing records in both source and target are left unchanged in the target.

Copy tables without checking for duplicate keys	All records will be inserted without checking for duplicate keys. This may cause an exception if records already exists. **Note:** This option is recommended when the target database is empty, and in other situations when there is no risk of duplicate keys. This option increases the copy data performance significantly.
Clear target tables before import	For tables that exist in both source and target, data are cleared in target tables before import.
Allow data mismatch	Select this option to allow the format of the existing table and the imported tables to differ without causing any errors.

12 Click Next. The Save Configuration window is displayed.

13 Type a unique name for the configuration

14 Click Next. The Summary window is displayed.

15 Verify the values provided and click Finish.

16 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Importing configuration data

Use this procedure to import database configuration data, for example used with Ad-hoc reporting from a .zip file to the database.

To import configuration data

1 Right-click your target environment and select Database > Import Configuration Data.

Tip: You can also open the task by clicking Import Configuration Data under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, you are requested to authenticate. Proceed with the next step.
- If the environment is stopped, or in maintenance mode, you are requested to start the environment. Select Start Environment, and click Next.

3 Specify a M3 BE user and password. Click Next.

4 In Select Configuration Data Package, provide information in the following fields:

Select packages to show	Select whether to list all available packages, or to hide already applied packages.
Package	Select the zip file containing the configuration data. Zip files listed here are stored either in the /M3BE/_db_data/config_data folder, or on the LifeCycle Manager Server.
Replace existing records	The records in target that have a duplicate in the source are replaced by the imported ones.
Keep existing records	The existing records in both source and target are left unchanged in the target.

Click Next.

5 In the Summary, verify the values provided, and click Finish.

6 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

The database configuration data is now imported.

Importing from an M3 BE environment database

Use this procedure to import database tables from another M3 Business Engine (BE) environment database that can be used instead of export and import of database data from file.

To import from an M3 BE environment database

1 Right-click your target environment and select Database > Import from M3BE Environment Database.

Tip: You can also open the task by clicking Import from M3BE Environment Database under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

  Note: The environment is in maintenance mode until the application is started, or set online.

3 In the M3 Business Engine copy window, provide information in the following fields:

Source M3 BE	Select the source M3 BE environment in the list.
Source database administrator login	Type the user id and password of the source database administrator.

Target database administrator login	Type the user id and password of the target database administrator.

Click Next.

4 The Select Configuration Option window is displayed. Select one of the options for importing data:

Import from database	Select this option to import specific data
Import from database using saved configuration	Select this option to import specific data using saved configuration. **Note:** It is recommended to save the settings or configuration related to data that you frequently use, such as tables, to save you from providing the data again.
Delete configuration	Select this option if you want to remove a saved configuration.

When the second or third options are selected, the Configuration field is enabled. It allows you to use or delete a saved configuration. The configuration is saved in the LCM clients workspace you selected at log on. If you can not find your saved configuration, you may have saved the configuration in another workspace or in another LCM Clients workspace.

Click Next.

5 The Table Selection window is displayed.

Provide information in these fields:

Source Component	Select the source component. For an additional component, select the component specified in the Environment Configurator Components pane (MNS104). For standard M3 BE without any modification, select the MVX component.
Source database schema	Depending on your selection of component, the applicable schema is displayed in this field.
Options	Select one of the following options for Table selection: • Import all tables: Imports all the tables. • Enter table name: Imports one specific table. Type the name of the table. • Select tables: Displays all tables in a list. Select the tables to import data from.

Click Next.

6 The Target Database window is displayed. Provide information in the following fields:

Target Component	Select the target component. For an additional component, select the component specified in the Environment Configurator Components pane (MNS104). For standard M3 BE without any modification, select the MVX component.

Target database schema	Depending on your selection of component, the correct schema is displayed.

7 Click Next. The Import Company and Division window is displayed.

8 You can use pre-defined or advanced settings for selecting company and division:

- To use predefined settings, provide the necessary information in these fields:

Include tables	Select one of the following filters: • All selected tables • All selected tables whose records contain company field
Filter company	Select this option if you want to export a specific company and division to a target company. **Note:** If you do not select this option, all fields except for the Include tables are disabled.
Division filter	Select one of the following options: • All divisions - Export all divisions (incl records with no division). • Selected division - Specified division is exported (incl records with no division)
Source Company	Type the source company number and division
Target Company	Type the target company number and division

- To use the advanced settings:

  Type the source selection and target values. For more information, see "Manual selection of database data for copying" on page 27

Click Next.

9 The Advanced Copy Configuration window is displayed. Select the number of threads to be used, and click Next.

10 The Import Strategy window is displayed. Provide information in the following fields:

Replace existing records	The records in target that have a duplicate in the source are replaced by the ones imported.
Keep existing records	The existing records in both source and target are left unchanged in the target.

Copy tables without checking for duplicate keys	All records will be inserted without checking for duplicate keys. This may cause an exception if records already exists. **Note:** This option is recommended when the target database is empty, and in other situations when there is no risk of duplicate keys. This option increases the copy data performance significantly.
Clear target tables before import	For tables that exist in both source and target, data are cleared in target tables before import.
Allow data mismatch	Select this option to allow the format of the existing table and the imported tables to differ without causing any errors.

Click Next.

11 The Save Configuration window is displayed.

Type a unique name for the configuration, and click Next.

12 The Summary window is displayed.

13 Verify the values provided and click Finish.

14 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

The database table data is now imported from the selected environment.

Manual selection of database data for copying

To copy a selection of rows from tables, you can add selections in a copy from source, and you can change the value on fields in the target. This is the syntax:

[Source selection]: **[#]FIELDNAME] [[> | < | = | != | <> | >= | <=] [VALUE]] [AND | OR [[#]FIELDNAME] [[> | < | = | != | <> | >= | <=] [VALUE]]]***

[FIELDNAME]: Specify the name of the selected field, excluding the prefix (2 letters). The optional # character indicates that the field must be included in all tables, tables where this field is missing will not be copied.

[Target values]:**[FIELDNAME]=[VALUE] [,[FIELDNAME]=[VALUE]]***

Example 1 - copy rows selected on multiple fields, one of them mandatory, and replace target values

Source selection: #CONO=133 and DIVI='AAA'

Target values: CONO=134, DIVI='BBB'

This example only copies tables that contain the field CONO. If the table contains CONO and DIVI, only rows where CONO=133 and DIVI='AAA' are copied, and the values are replaced with CONO=134

and DIVI=’BBB’. If the table only contains CONO, all rows where CONO=133 are copied (and the value for CONO is replaced with 134).

Example 2 - copy rows selected on single field, and replace target value

Source selection: CONO=123

Target values: ITNO=’12345678’

This example copies all tables. If the table contains CONO, only rows where CONO=123 are copied. If ITNO is included in the table, all rows will have ITNO set to ‘12345678’.

Example 3 - copy rows selected on multiple fields, with unspecified target value

Source selection:#CONO and #DIVI

Target values: Leave blank

This example copies all tables that contain the fields CONO and DIVI, and does not specify any new target values.

Maintaining company and division

Use this procedure to rename, copy or remove company and division from the database tables.

To maintain company and division

1 Right-click your environment and select Database > Maintain Company and Division

Tip: You can also open the task by clicking Maintain Company and Division under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

Note: The environment is in maintenance mode until the application is started, or set online.

Click Next.

3 Type the user ID and password of the database administrator, and click Next.

4 The Select Configuration Option window is displayed. Select one of the options for importing data:

Maintain company and division	Select this option to maintain specific data
Maintain company and division using saved configuration	Select this option to maintain specific data using saved configuration. **Note:** It is recommended to save the settings or configuration related to data that you frequently use, such as tables, to save you from providing the data again.
Delete configuration	Select this option if you want to remove a saved configuration.

When the second or third options are selected, the Configuration field is enabled. It allows you to use or delete a saved configuration. The configuration is saved in the LCM clients workspace you selected at log on. If you can not find your saved configuration, you may have saved the configuration in another workspace or in another LCM Clients workspace.

Click Next.

5 The Table Selection window is displayed.

Provide information in these fields:

Component	Select the component. For an additional component, select the component specified in the Environment Configurator Components pane (MNS104). For standard M3 BE without any modification, select the MVX component.
Database schema	Depending on your selection of component, the applicable schema is displayed in this field.
Options	Select one of the following options for Table selection: • All tables: Maintain all the tables. • Enter table name: Maintain one specific table. Type the name of the table. • Select tables: Displays all tables in a list. Select the tables to maintain.

Click Next.

6 The Rename, Remove or Copy Company and Division window is displayed.

7 Provide information in these fields:

Rename, Remove, or Copy company	Select one of the following options: Rename Company, Remove Company, or Copy Company option.
Division filter	Select one of these options: • All divisions • Selected division
Source company number	If you selected Rename or Copy company, you must type a Source company number.

Target company number	If you selected Rename or Copy company, you must type a Target company number.

Click Next.

8 The Advanced Copy Configuration window is displayed. Select the number of threads to be used, and click Next.

9 The Save Configuration window is displayed.

Type a unique name for the configuration, and click Next.

10 The Summary window is displayed.

11 Verify the values provided and click Finish.

12 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Creating database schema

Use this procedure to create an additional database schema.

To create database schema

1 Right-click your environment and select Database > Create Database Schema

Tip: You can also open the task by clicking the task Create Database Schema under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

  Note: The environment is in maintenance mode until the application is started, or set online.

3 Type the user id and password of the database administrator.

4 Click Next. The Schema window is displayed.

5 Type the name of the schema to be created in the database.

6 Click Next. The Summary window is displayed.

7 Verify the values provided and click Finish.

8 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Creating database language tables for uploaded languages

This procedure describes how to create language tables for uploaded languages only. You can also create language tables for any language. For more information, see "Creating database language tables for any language" on page 31.

To create database language tables for uploaded languages

1 Right-click your environment and select Database > Create Database Language Tables.

Tip: You can also open the task by clicking Create Database Language Tables under the heading Database on the Dashboard.

2 Type the user id and password of the database administrator, and click Next.

3 Select Create language tables for uploaded languages, and click Next.

4 Select the component specified in the Environment Configurator (MNS104) for which to create language tables, and click Next.

5 Select the component and language code. Note that an additional component can contain several languages, and only uploaded languages are displayed in this list. Click Next.

6 On the Summary screen, verify the property values, and click Finish.

7 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Creating database language tables for any language

This procedure describes how to create language tables for any language. You can also create language tables for uploaded languages only. For more information, see "Creating database language tables for uploaded languages" on page 31.

To create database language tables for any language

1 Right-click your environment and select Database > Create Database Language Tables.

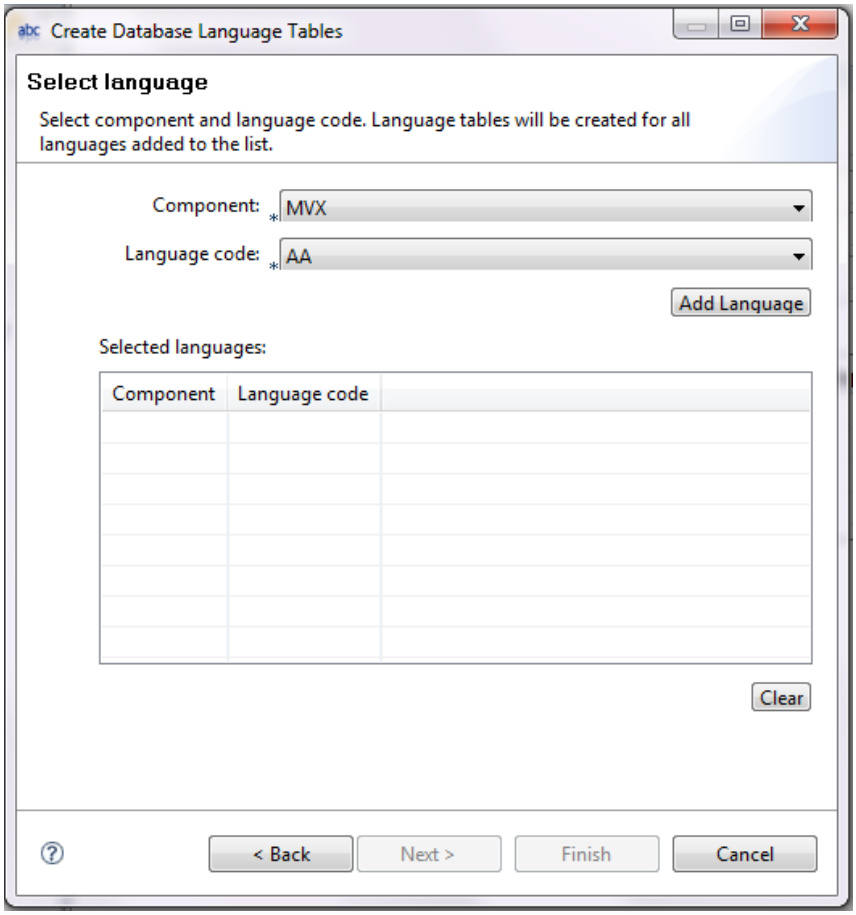
Tip: You can also open the task by clicking Create Database Language Tables under the heading Database on the Dashboard.

2 Type the user id and password of the database administrator, and click Next.

The select creation mode window is displayed

3 Select Create language tables for any language, and click Next.

The select languages window is displayed.



4 Provide information in the following fields:

Component	Select the Component to use. For an additional component select the component specified in the Environment Configurator Components pane (MNS104). For standard select the MVX component.
Language code	Select the code for the language to be used. For example, SE for Swedish.

5 Click Add Language and repeat this step until you have added all the language codes for your component.

Tip: If necessary, you can remove a selected language code from the list of language codes to be created by clearing the corresponding check box.

6 Click Next. The Summary window is displayed.

7 Verify the values provided and click Finish.

The status of the database language table creation will be indicated in the Progress view. If the language table creation is successful, the tables <*component*>**CON**<*Language code*> and <*component*>**MSG**<*Language code*> are created in the database.

8 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Recreating database indexes

Use this procedure to solve unexpected errors in the database indexes. If something unexpected occurs, like accidentally deleting an index.

To recreate database indexes

1 Right-click your environment and select Database > Recreate Database Indexes.

Tip: You can also open the task by clicking Recreate Database Indexes under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

  Note: The environment is in maintenance mode until the application is started, or set online.

3 Type the user name and password of the database administrator.

4 Click Next. The Component window is displayed.

5 Provide information in these fields:

Component	Select the component related to the database index. The component is specified in the Environment Configurator Components pane (MNS104). For standard M3 Business Engine, select the MVX component.
System configuration	Select the system configuration where the selected component is connected. The system configuration is specified in the Environment Configurator Configurations pane (MNS102). For the component MVX, the system configuration MVX is set by default.
Table filter	Type the filter used to recreate indexes only for a specific table or list of tables using a comma separated list. If no filter is indicated, all indexes are recreated for all the tables related to the selected component.

Number of threads	Select the number of threads used for a parallel execution. The recommended number of threads is 2-3 threads per CPU.
Recreate indexes only if it is necessary	Select this option if you want that an index is only created or recreated if the index is missing or the keys for the index are out of sync. Otherwise, all the indexes are recreated. This option is selected by default.

6 Click Next. The Summary window is displayed.

7 Verify the values provided and click Finish.

8 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

The database index is recreated.

Upgrading the database with a fix or feature pack

Use this procedure to upgrade the database with a fix or feature pack.

Before you start Ensure that the fix or feature pack is applied to the environment.

To upgrade database with Fix or Feature Pack

1 Right-click your environment and select Database > Upgrade Database with Fix/Feature Pack.

Tip: You can also open the task by clicking Upgrade Database with Fix or Feature pack under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

Note: The environment is in maintenance mode until the application is started, or set online.

3 Type the user name and password of the database administrator.

4 Click Next. The Component window is displayed.

5 Provide information in these fields:

Component	Select the component related to the feature pack The component is specified in the Environment Configurator Components pane (MNS104). For standard M3 Business Engine, select the MVX component.
System configuration	Select the system configuration where the selected component is connected. The system configuration is specified in the Environment Configurator Configurations pane (MNS102). For the component MVX, the system configuration MVX is set by default.
Number of threads	Select the number of threads used for a parallel execution. The recommended number of threads is 2-3 threads per CPU.
Pre analyze	To see the changes made on the database before you do the actual upgrade, select Pre-analyze. If you do not want the upgrade tasks to be performed, click Cancel.

6 Click Next. If Pre-analyze is selected, the Upgrade Tasks window is displayed.

7 Provide information in these fields:

Filter	To help you navigate through all the database changes, there is a "dropdown list" with different filters that groups tables with common upgrade characteristics together. The options include: • Filter - To help you navigate through all the database changes, there is a "dropdown list" with different filters that groups tables with common upgrade characteristics together. The options include the following • ALL - Default value, all tables selected • INDEX UPGRADE - Tables with indexes (logical files) that have been changed • LAYOUT UPGRADE - Tables with new layout (DDL) • NEW TABLES - New tables • NOT SUPPORTED - Tables that need a layout upgrade that is not supported, those tables are not upgraded. Supported layout changes are as follows: • New columns with blank default value • Extended columns • Truncated columns • Removed columns. Note that a column cannot be renamed; a renamed column is treated as a new and a removed column. The only data type changes that are supported are from numeric to string, or from string to a numeric data type with no decimals. • TABLES WITH DATA - Tables that contain records • TRUNCATED - Tables that have removed or truncated columns • VIEW UPGRADE - Tables with changed views (join logical files)
Tables	This field allows you to view different tables, depending on the filter that you select. The upgrade details of a selected table are presented in the table details list:
No of tables	The number of tables selected with the filter field
No of rows	Total number of rows for the tables selected with the filter field

Table details	This list contains upgrade details for a selected table. The following details exists: • Path: The database definition file has been loaded from this location • Schema: Database schema for the table • No of rows: Number of rows in the table • Layout: The table layout can be changed or unchanged • Upgrade method: If the table layout has been changed, the sql statement used to upgrade the table is specified here • New Columns: A list of the new columns • Extended columns: A list of the extended columns • Truncated columns: A list of the truncated columns • Removed columns: A list of the removed columns • Data type changed columns: A list of the columns with changed data types • New indexes: A list of the new indexes • Changed indexes: A list of the changed indexes • Removed indexes: A list of the removed indexes • Recreate indexes: A list of the indexes that have not been changed but need to be recreated of some reason • New views: A list of the new views • Changed view: A list of the changed views • Removed views: A list of the removed views • Recreate views: A list of views that have not been changed but need to be recreated of some reason

8 Click Next. The Summary window is displayed.

9 Verify the values provided and click Finish.

10 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Upgrading the database with a service pack

Use this procedure to upgrade the database with a service pack.

Before you start Ensure that the service pack has already been installed.

To upgrade database with a servicepack

1 Right-click your environment and select Database > Upgrade Database with Service Pack.

Tip: You can also open the task by clicking Upgrade Database with Service Pack under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

Note: The environment is in maintenance mode until the application is started, or set online.

3 Type the user name and password of the database administrator.

4 Click Next. The Component window is displayed.

5 Provide information in these fields:

Component	Select the component related to the service pack. The component is specified in the Environment Configurator Components pane (MNS104). Service packs are only delivered for a customer component.
System configuration	Select the system configuration where the selected component is connected. The system configuration is specified in the Environment Configurator Configurations pane (MNS102). Service packs are only delivered for a customer component.
Number of threads	Select the number of threads used for a parallel execution. The recommended number of threads is 2-3 threads per CPU.

6 Click Next. The Summary window is displayed.

7 Verify the values provided and click Finish.

8 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

The database is upgraded.

Upgrading the database with base

Use this procedure to upgrade the database with base after you create a new Business Engine (BE) environment with an older version of BE database attached.

To upgrade database with base

1 Right-click your environment and select Database > Upgrade Database with Base.

Tip: You can also open the task by clicking Upgrade Database with Base under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

Note: The environment is in maintenance mode until the application is started, or set online.

3 Type the user name and password of the database administrator.

4 Click Next. The Component window is displayed.

5 Provide information in these fields:

Component	Select the component related to the base. The component is specified in the Environment Configurator Components pane (MNS104). For standard M3 Business Engine, select the MVX component.
System configuration	Select the system configuration where the selected component is connected. The system configuration is specified in the Environment Configurator Configurations pane (MNS102). For the component MVX, the system configuration MVX is set by default.
Number of threads	Select the number of threads used for a parallel execution. The recommended number of threads is 2-3 threads per CPU.

6 Click Next. The Summary window is displayed.

7 Verify the values provided and click Finish.

8 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

The database is now upgraded with the new BE version.

Upgrading archiving schema

Use this procedure to upgrade the archiving schema. This task is only applicable when archived tables have been modified in your M3 Business Engine environment database.

1 Right-click your environment and select Database > Upgrade Archiving Schema.

   Tip: You can also open the task by clicking Upgrade Archiving Schema under the heading Database on the Dashboard.

2 Depending on the environment status:

   - If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
   - If the environment is stopped, the environment will be started in maintenance mode.

     Note: The environment is in maintenance mode until the application is started, or set online.

3 Type the user name and password of the database administrator, and click Next.

4 In the Archiving schema window, provide information in these fields, and click Next:

Archiving schema	Type the name of the archiving schema to upgrade.
Number of threads	Select the number of threads used for a parallel execution. The recommended number of threads is 2-3 threads per CPU.

5 A list of tables that needs to be upgraded is displayed. Click Next.

6 Verify the provided information in the Summary window, and click Finish.

7 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

The archiving schema is now upgraded with the new M3 Business Engine version.

Inserting comments to database tables

Use this procedure to insert predefined comments to database tables in order to more easily read and comprehend the information. An example is the term ItmNo which is English would be commented as Item Number and in Swedish as Artikelnummer.

To insert comments to database tables

1 Right-click your environment and select Database > Comment Database Tables.

Tip: You can also open the task by clicking Comment Database Tables under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

  Note: The environment is in maintenance mode until the application is stopped, started, or set online.

3 Type the user id and password of the database administrator.

4 Click Next. The Language window is displayed.

5 Provide information in these fields:

Component	Select the component to be used to create comments for the database.
Language	Select the language to be used to create comments for the database.
Table Filter	Type the table name to comment. If this field is left blank, all indexes are recreated for the selected component. A comma separated list of tables can also be typed.

6 Click Next. The Summary window is displayed.

7 Verify the values provided and click Finish.

8 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Creating a database

Use this procedure to create a database for an additional component.

To create a database

1 Right-click your environment and select Database > Create Database.

Tip: You can also open the task by clicking Create Database under the heading Database on the Dashboard.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.
- If the environment is stopped, the environment will be started in maintenance mode.

  Note: The environment is in maintenance mode until the application is stopped, started, or set online.

3 Type the user name and password of the database administrator

4 Click Next. The Component window is displayed.

5 Provide necessary information in the following fields:

Component	Select the component related to the database. The component is specified in the Environment Configurator Components pane (MNS104). For standard M3 Business Engine, select the MVX component.
System configuration	Select the system configuration where the selected component is connected. The system configuration is specified in the Environment Configurator Configurations pane (MNS102). For the component MVX, the system configuration MVX is set by default.
Number of threads	Select the number of threads used for a parallel execution. The recommended number of threads is 2-3 threads per CPU.

6 Click Next. The Summary window is displayed.

7 Verify the values provided and click Finish.

8 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Changing the database connection

Use this procedure to change the connected database on an M3 environment.

To change the database connection

1 Right-click your environment and select Database > Change Database.

2 Depending on the environment status:

- If the environment is running, the message "Set M3 BE in maintenance mode" is displayed. Click Next.

- If the environment is stopped, the environment will be started in maintenance mode.

  Note: The environment is in maintenance mode until the application is stopped, started, or set online.

3 Provide information in these fields:

Database server	Select a server in the list of available database servers.
Database	Select a database or schema name in the list .
Password	Type the M3 BE user password for validation.

Note: If the selected database is the same as with the current database connection, a validation error message is displayed. If the selected database is connected to another environment, a notification message is also displayed.

4 Click Next. The Summary window is displayed.

5 Verify the values provided and click Finish.

6 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

7 Click Connected databases tab on the Dashboard to verify that the new database is displayed. The environment must be able to start with the new database connection.

Updating specific database records

Use this procedure to easily and manually update specific database records.

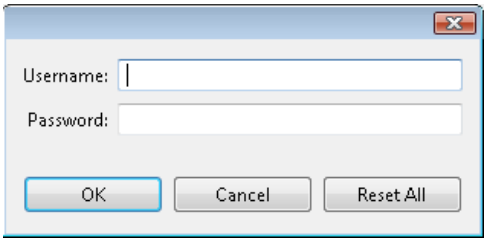
Before you start Make sure that the Business Engine (BE) environment is already started.

To update specific database records

1 Right-click your environment and select Database > Update Database.

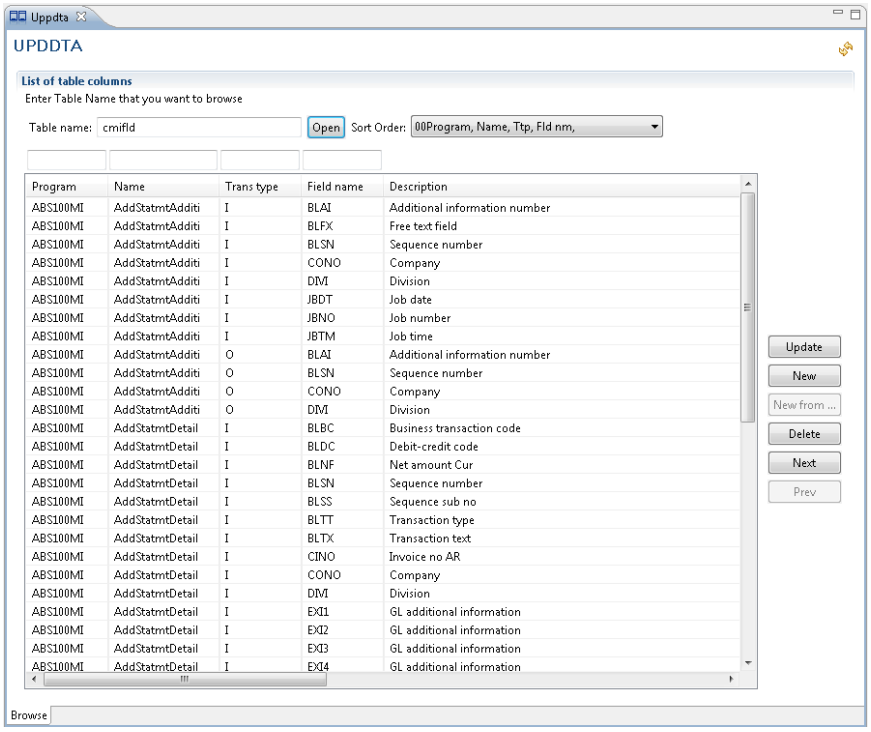
Tip: You can also open the task by clicking Upddta under the heading Database on the Dashboard.

2 Type the user name and password for the M3 Business Engine user.



3 Click OK. The Upddta main window is displayed.

4 In the Table name field, type the name of the table that you want to update.



5 Click Open. The table information is displayed. You can sort the table columns by selecting an option in the Sort Order list.

6 Select an item in the table that you want to update. Only 50 records are displayed at a time. You can click Next or Prev to retrieve the next or previous 50 records from the table.

7 Select one of the following actions to perform:

Update	Select this option to edit an existing record in the table.
New	Select this option to add a new record in the table.
New from	Select this option to add a new record in the table by copying an existing record.
Delete	Select this option to delete an existing record in the table.

The details for the selected table are displayed in a new window. Table details such as Key, Value, Status, Type, Length, and Field Heading ID are shown.

8 Select a column that you want to update and type its new value.

Note: Some columns will not be editable based on the action selected in the previous step. For example, if you selected Update, you cannot edit the key column.

9 Correct any errors indicated in the Status column:

Status	Description
textual representation is too large	Value entered exceeds the number of allowable characters.
not a number	Value entered contains illegal characters.
multiple decimal separators	Value entered contains more than one comma or period.
fractional part is too large	Value entered contains too many numerical characters after a comma or a period.
integral part is too large	Value entered contains too many numerical characters before a comma or a period.

10 Select one of the following actions to save your changes:

Create	Select this option to save the changes for the new record created.
Update	Select this option to save the changes for the updated record.
Delete	Select this option to save the changes for the deleted record.

11 When all records are updated, close the Upddta main window to exit the tool.

Fixes

This section provides information on the various tasks that you perform with fixes.

Types of fixes

You can apply the following types of fixes on any selected M3 Business Engine (BE) installation:

Type	Description
Feature pack	A feature pack contains all updates since the previously delivered feature pack, or in case of the first feature pack version, the updates made since the base delivery of M3 Business Engine. Ensure that all market modifications installed on your environment are on the same feature pack version as the standard M3 Business Engine. The feature packs are uploaded to the LifeCycle Manager Server using the Upload M3 BE Package task and applied using the Apply Feature Pack task. For more information, see Uploading an M3 Business Engine package and Applying a feature pack.
Fix	A fix can be a single correction or a bundle of individual corrections to the M3 Business Engine. The fix can either be a Hot Fix (HFix) or a Verified Fix (VFix). This fix is uploaded to the LifeCycle Manager Server using the Upload M3 BE Package task and applied using the Manage Fixes task, or handled by MAK if it is a development environment. For more information, see Uploading an M3 Business Engine package and Managing fixes.

Maintenance Correction Entity (MCE)	An MCE is an individual solution made to solve a reported issue for a particular version of M3 Business Engine. This can be downloaded from a central server at Infor as part of the Customer Correction Self Service (CCSS) initiative and is packaged as a zip file in the Temporary Fix (TFix) format. The naming standard for the zip file is: **TFix**_<*solution no*>_<*component*>**.zip** where the component name can be any of the following: MVX for standard (M3 Business Engine) M*xx* for a market modification where *xx* stands for market, such as SE for the Swedish market An MCE applied for an Additional Component needs to have its corresponding fix level activated in the Environment Configurator to become active. This fix is uploaded to the LifeCycle Manager Server using the Retrieve MCE task and applied using the Manage Fixes task. For more information, see Retrieving MCEs and Managing fixes.
Maintenance Correction Package (MCP)	Maintenance Correction Pack (MCP) is the preferred method for installing fixes. An MCP is a manually packaged MCE which has relations to a number of MCEs. Each MCP also contains accumulated delivery units for Language components, and API metadata for the related MCEs. Individual MCPs are delivered for each country (Mxx) and the standard component (MVX). Installing an MCP will install all related MCEs. The MCP is created at a certain point in time, and includes references to all MCEs available for the component at that time. Each MCP is cumulative, therefore it is only necessary to download and install the latest. An MCP (and all related MCEs) cannot be deactivated. The MCP is packaged as a zip file in the Temporary Fix (TFix) format, and the naming standard for the zip file is: **TFix_MCP**<*mm*>-<*BE version*>- <*nn*>_<*component*>**.zip** <*mm*> is a sequence number, <*BE version*> is the M3 BE version, and <*nn*> is a build number starting with 01. In the Manage fix view, all included MCEs are listed as Fix details

M3 Installation fix	An M3 Installation fix is a Product Package fix. This is a correction to the LifeCycle Manager wizards and scripts used to manage and maintain M3 BE. This package also contains the M3 Foundation (incl tools). This fix is uploaded to the LifeCycle Manager Server, and if no changes exists to the M3 Foundation package, it is also installed using the Retrieve Fixes task. If changes to M3 Foundation are included, you need to also upgrade your M3 Business Engine environment with this new version. For more information, see the Retrieve Fixes task in *LifeCycle Manager User Guide*, and the section Upgrade to a new M3 Foundation version in *M3 Business Engine and M3 Foundation Installation Guide*.

Applying a feature pack

Use this procedure to apply a feature pack to any environment.

Before you start Ensure that feature pack packages have already been uploaded to the LifeCycle Manager Server before they can be applied to the environment. For detailed instructions about uploading the feature pack package, see Uploading an M3 Business Engine package.

To apply a feature pack

1. If applicable, read the feature pack information (FPInfo) delivered with the feature pack for specific installation instructions.
2. Right-click your environment and select Fixes > Apply Feature Pack.
3. Select the feature pack version for standard M3 Business Engine to upgrade your environment to.

Current version	Verify the current version.
Upgrade to	All feature pack versions for standard M3 Business Engine that are uploaded to the LifeCycle Manager Server are displayed here.
Markets that can be upgraded	Select all markets that are installed on this environment.

Markets that can not be upgraded	All markets that are installed on this environment and do not have a corresponding feature pack version uploaded to the LifeCycle Manager Server are displayed here. **Important:** Infor recommends you to always install the same feature pack version for both standard M3 Business Engine and all installed markets at the same time.

Click Next.

4 A list of the installed standard or market modification fixes that are in conflict with the feature pack is displayed. Select to remove all these conflicting files.

Click Next.

5 A list of the installed standard or market modification fixes that do not conflict with the feature pack is displayed. These files might be affected by the files to be installed. Select the files to be removed by selecting the check box in front of the file name.

Click Next.

6 A list of the installed customer modifications on this environment is displayed. These files might be affected by the files to be installed. Select the files to be removed by selecting the check box in front of the file name.

Click Next.

7 Select if you want to save the information provided in the previous steps, and information about all MCEs that will be removed to a spread sheet.

8 On the Summary screen, verify the property values and click Finish.

9 When the task is finished, a dialog is displayed. Click OK. To view the log file, either click View log, or go to the Logs view.

10 Read the follow up information for further instructions regarding upgrade of the database and import data to the database.

For additional information regarding this feature pack, for example if it contains fix programs to run, read the Net Change Report (NCR) for this feature pack. The NCR is available on the Documentation site on Infor Xtreme.

Note: The appropriate Viewdefinitions, language files, help files, and OUT layouts are installed at the same time.

Applying MI metadata

Use this procedure to apply MI metadata to your M3 BE environment.

To apply MI metadata

1 Right-click the environment and select Fixes > Apply MI metadata. The window Apply MI metadata is displayed.

Tip: You can also open the task by clicking Apply MI metadata on the Dashboard tab Fixes.

2 Depending on the environment status:

- If the environment is running, the Select program is displayed. Proceed with the next step.
- If the environment is stopped or in maintenance mode, the Start Environment is displayed.

  Select Start Environment, and click Next.

3 Provide information in these fields:

Select program	Select MI programs to apply.
View All	• Select View All to display all available MI programs, or, • Clear View All to display only the MI programs that can be applied.
M3 user	Specify a M3 BE user
M3 user password	Specify the password

Click Next.

4 On the Summary screen, verify the property values and click Finish.

5 When the task is finished, a dialog is displayed. Click OK. To view the log file, either click View log, or go to the Logs view.

Managing fixes

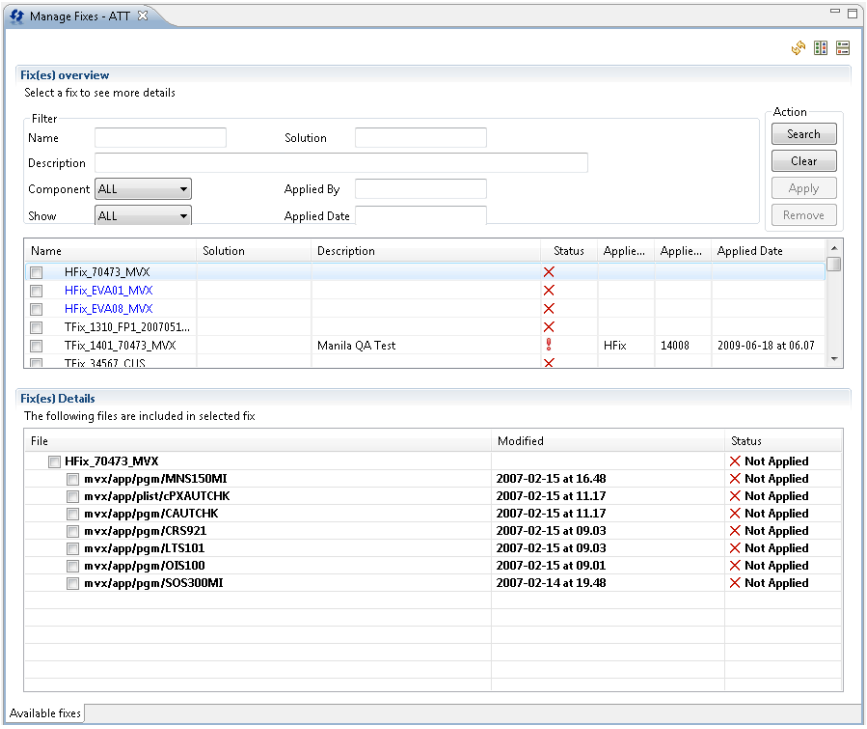
Use this procedure to view, apply, or remove fixes.

To manage fixes

1 Right-click your environment and select Fixes > Manage Fixes.

Tip: You can also manage fixes by clicking the task Manage Fixes under the heading Fixes on the Dashboard.

2 The Manage Fixes tab is displayed.

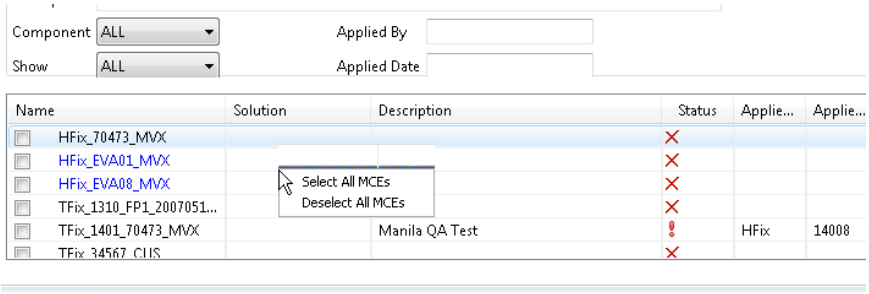


3 In the Fix(es) overview pane, browse a fix using the following filter options:

Name	Type the name of the fix
Solution	Type the ID number of the solution.
Description	Type a description of the fix
Component	Select the component to which the solution belongs or select ALL to show all solutions.
Show	Select to view all solutions or view only those that have been applied or not applied already.
Applied By	Type the name or ID of the user who installed the fix
Applied Date	Type the date when the fix was applied.

4 Click Search. Depending on the filter you use, a list with search results is displayed.

Note: The search results include only all MCEs and fixes that were found based on the filter criteria. In the results window, you can right-click to select or deselect all the MCEs found by the search.



The following table lists the different statuses that can be displayed in the results list:

Status	Icon	Description
Applied	✔	The fix is fully applied.
Superseded	✓	The MCE is fully replaced by a later MCE.
Partially Superseded	!	One or more of the files included in the fix is replaced by a later MCE (only valid for MCEs).
Not Applied	✕	The fix is not applied.
Partially Applied	!	One or more of the files included in the fix is applied, but not all of them (only valid for fixes that are not MCEs).

5 Select a fix in the list. A complete information about the fix and each file that is included in the fix, is displayed. For MCEs, possible dependencies are also shown.

Note: The selected fix will be displayed in bold font in Fix(es) Details. All fixes that contain changes to the database are displayed in blue and if they are MCEs, they cannot be removed once applied.

6 Select the check box of a fix and perform one of the following actions:

- Click Apply to install either the entire fix, or particular files associated with the fix. The LifeCycle Manager will analyze the environment and find any conflicts. If there are no conflicts found, the fix will be directly applied. Otherwise, the Apply Fix wizard is started. For more information, see Applying a fix.
- Click Remove to delete either the entire fix or particular files associated with the fix. The fix will be instantly removed from the environment when you click OK to confirm.

Note: For MCEs, you can select to apply multiple MCEs, but actions on individual files cannot be performed.

7 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

8 If you want to clear all filter selections in Manage Fixes, click Clear.

Applying a fix

Use this procedure to install one ordinary fix, or one or more MCEs, to an environment using the Apply Fix wizard. For more information, see Managing fixes.

To apply a fix

1 Right-click your environment and select Fixes > Manage Fixes

Tip: You can also click the task Manage Fixes under the heading Fixes on the Dashboard.

2 The Manage Fixes tab is displayed.

3 In the Fix(es) overview pane, select a fix, or one or more MCEs, and click Apply.

4 If the fix to apply is an MCE package, LifeCycle Manager will scan the M3 Business Engine environment for conflicts. If no conflicts are found, then a message box is displayed, click OK to apply the Fix. If conflicts are found the Apply Fix wizard is started.

5 Select a Fix type in the list, and type a description for the fix Click Next.

6 A list of already existing files in the target folder is presented. These files will be replaced by the files to be installed. Click Next.

7 A list of files that exist in another fix type folder or as a fix for an additional component is displayed. These files might be affected by the files to be installed.

8 Select the files to be removed.

9 Click Next. A list of files that might affect the behavior of the fix to be installed is displayed.

10 If there are no conflicting files found, click Next. The Summary window is displayed.

11 Verify the values provided and click Finish.

12 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file. The fix is now applied to your environment.

13 If the fix you applied contains database data, database interface information, delta language files or MI transactions, a new window informs you to perform additional tasks:

- Run the Import Database Data task if the fix contains a database data zip file. For more information, see Importing database data.
- Run the Upgrade Database with Fix/Feature Pack task if the fix contains DB Interface information. For more information, see Upgrading the database with a fix or feature pack..

  Note: If the fix contains changes to archived tables, it is recommended to run the Upgrade Archiving Schema task. For more information, see "Upgrading archiving schema" on page 40.

- Run the Apply MI metadata task if the fix contains MI transactions. For more information, see "Applying MI metadata" on page 49.

Click Details. A Notepad window with information about for which fix(es) the different tasks must be run is displayed.

Tip: The information in this dialog is also available in the client log. To display the client log file:

a Select Help>About LifeCycle Manager.

b Click Installation Details.

c Click View Error Log.

Resolving dependency chain for superseded MCEs

Use this procedure to resolve dependency overrides for MCEs with status superseded.

To resolve a dependency chain

1 Right-click your environment and select Fixes > Manage Fixes.

The Manage Fixes tab is displayed.

Tip: You can also click the task Manage Fixes under the heading Fixes on the Dashboard.

2 In the Fix(es) overview pane, select a MCE with a status superseded.

3 In the Fix(es) Details view, right-click the file that is superseded.

4 Select Resolve dependency chain.

The Fix Dependency Chain for the selected file window is displayed.

5 The selected MCE is displayed in bold. The MCE at the top of the list is the MCE containing the file that overrides the superseded file with status applied.

Copying fixes

Use this procedure to copy fixes between M3 BE environments. If there are corresponding source files, they are also copied.

Rules and limitations for copying fixes

- The task Copy All To copies all available fixes, regardless of the search criteria stated in Manage Fixes. You cannot copy individual fixes.

- The task Copy All To is not available in Development environments. Consequently, you cannot use the Development environment as source environment when copying fixes.
- If the Feature Pack level differs between the source and target environment, no MCEs will be copied.

To copy fixes

1 Right-click the source environment where the fix is applied.

2 Select Fixes > Manage Fixes.

Tip: You can also open the task by clicking Manage Fixes on the Dashboard tab Fixes.

The window Manage Fixes is displayed.

3 Click Copy All To.

4 A window is displayed with information about how many MCEs and fixes that will be copied. Click Yes to continue.

5 Select the target environment and click Next.

6 A list of files that exist both in source and target is displayed. All these files will be replaced by the files copied from the source environment. Click Next.

7 The Summary window is displayed.Verify the values provided and click Finish.

8 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

9 If the fixes copied contains database data, database interface information, delta language files or MI transactions, a new window informs you to perform additional tasks:

- Run the Import Database Data task if the fix contains a database data zip file. For more information, see Importing database data.
- Run the Upgrade Database with Fix/Feature Pack task if the fix contains DB Interface information. For more information, see Upgrading the database with a fix or feature pack.
- Run the Apply MI metadata task if the fix contains MI transactions. For more information, see "Applying MI metadata" on page 49.

Click Details. A Notepad window with information about for which fix(es) the different tasks must be run is displayed.

Browsing fixes

Users without access to LifeCycle Manager can browse fixes with the help of the following RSS-feed.

http://LCMserver:4062/rss/M3BE151.xml

By subscribing to this feed, users get up-to-date information about fixes that have been applied, copied or removed on the LCM server in the last seven days. Each time a fix is applied, copied or removed, a new RSS post is added to the list. Posts older than one week are removed from the feed.

Unzipping MAK-deployed database interface files

Use this procedure to extract database interface zip files deployed from MAK.

Note: This task is only available for your development environment.

To unzip MAK-deployed database interface files

1. Right-click your target environment and select Fixes > Unzip MAK deployed database interface.
2. Depending on whether a customer component folder exists in the fix structure:
   - If a customer component is found, proceed with the next step.
   - If no customer component folder is found, click OK in the dialog.
3. Select the component to display database interface zip files for. If the Available files list is empty, no zip files are found, or all zip files are already unzipped.
4. Depending on the selection, all files or only files not yet extracted are displayed.
5. Select the files to extract, and click Next.
6. On the Summary screen, verify the property values, and click Finish.
7. When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Field Audit Trail

This section provides information about the Field Audit Trail.

- "Viewing audit history" on page 61

What is Field Audit Trail?

The Field Audit Trail (FAT) makes it possible to track changes made to the database fields, when the changes were made, what the previous value was and which user that made the change. For more information, see information in *M3 Business Engine and M3 Foundation Installation Guide* for the appropriate M3 BE and Foundation version and platform.

Note: Since field audits may affect performance of the M3 Business Engine (BE), use audits sparingly.

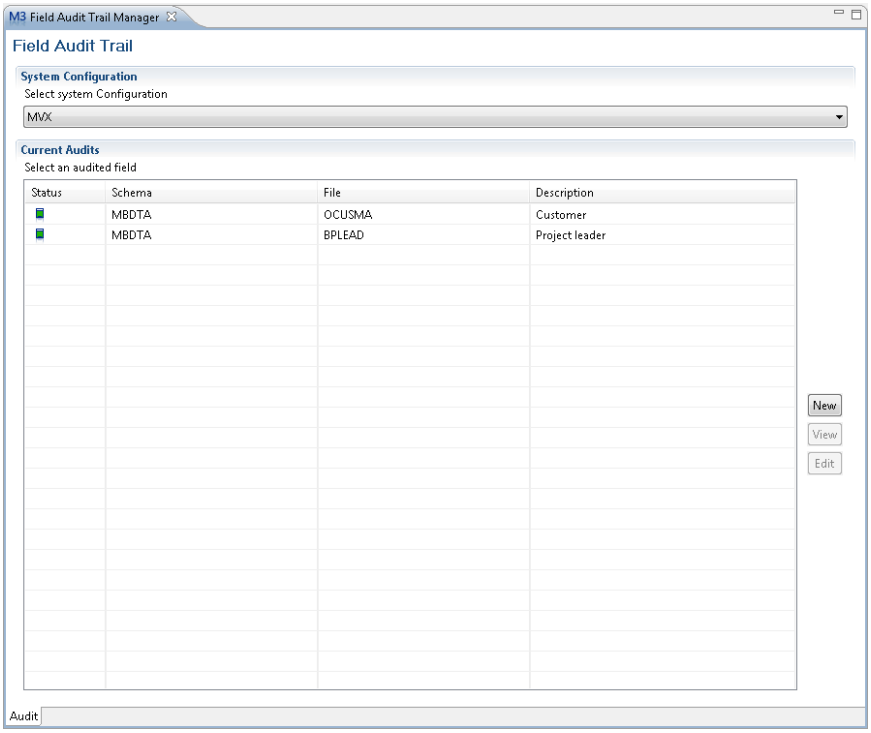
Opening the Field Audit Trail Manager

Use this procedure to open the Field Audit Trail (FAT) Server.

To open the FAT Manager

1 Right-click your environment and select Field Audit Trail Manager.

The Field Audit Trail tab is displayed.



Audits that are already created are displayed as Current Audits. Active audits have status green while inactive have status red. The Schema, File and Description of the different audits are also displayed.

2 Select an action:

- New - For more information, see "Creating a new audit" on page 58.
- View - For more information, see "Viewing trailed field changes" on page 59.
- Edit - For more information, see "Modifying an audit" on page 60.

Creating a new audit

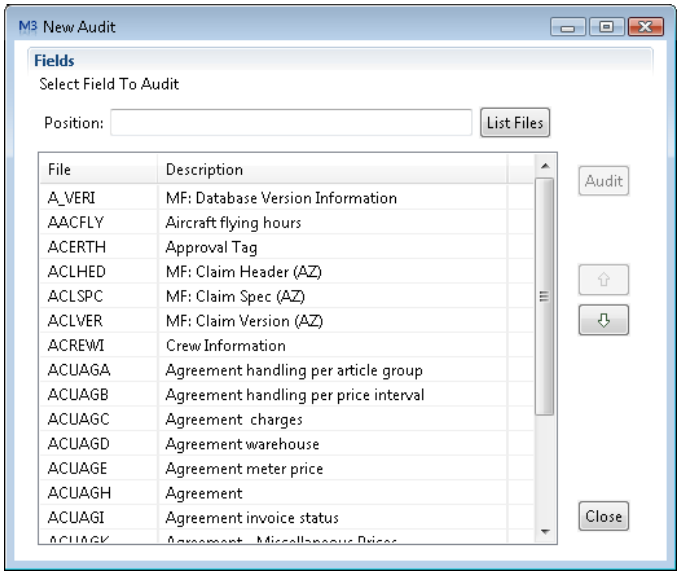
Use this procedure to create a new audit.

To create a new audit

1 Open the FAT Manager. The Field Audit Trail tab is displayed.

2 Select a system configuration in the list.

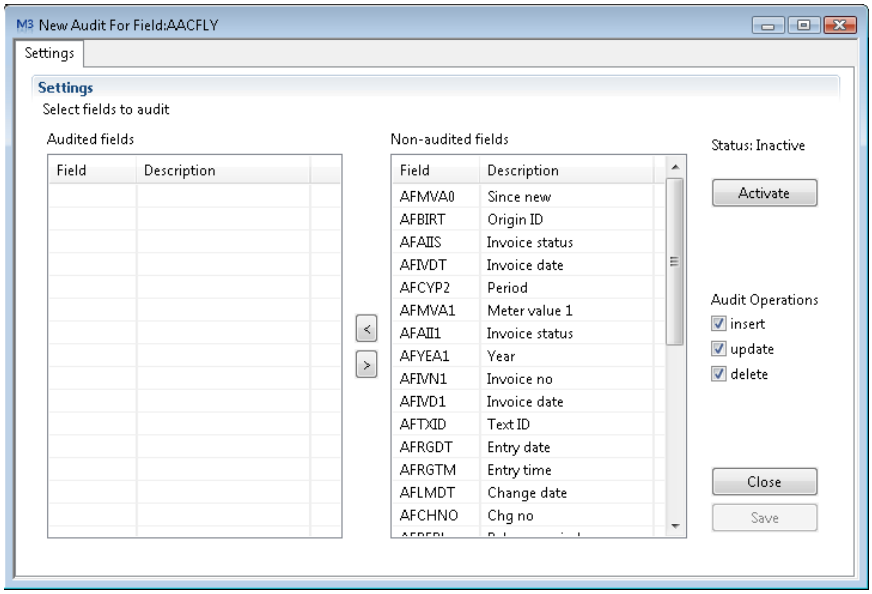
3 Click New. The New Audit window is displayed with a list with all files included in the selected system configuration.



4 Select the file to audit by typing the search criteria in the Position field. When you type the first letters of a file, the matching names are shown in the list.

Tip: You can also browse through the files by clicking the arrow buttons, displaying one page at a time.

5 Select the file and click Audit. All available fields in the selected file are displayed in alphabetical order.



6 Select the a non-audited field and move it to the Audited column using the arrow button.

7 Select the operations to be audited: Insert, Update or Delete. All three are selected by default.

8 Click Activate and then click Save. The Audit window is displayed.

9 Click Close to exit the Audit window.

Viewing trailed field changes

Use this procedure to view trailed field changes.

View trailed field changes

1 Open the FAT Manager. The Field Audit Trail tab is displayed.

2 Select a system configuration in the list.

3 Select the audit for which you want to view changed data.

4 Click View or double-click on the row. The List of modified rows is displayed in the window.

5 Select partition from the Partition drop-down list to view data from other partitions.

6 Double-click a row, or click View, to view the Row Information.

In the Current value table, the most recent values are shown. The Previous Values table shows the date and time for the change, the user who made the change, the operation (Update, Insert or Delete) and the previous value.

Modifying an audit

Use this procedure to modify the audit.

To modify an audit

1 Open the FAT Manager. The Field Audit Trail tab is displayed.

2 Select a system configuration in the list.

3 Select the audit to modify and click Edit.

4 Change the audit operations (Insert, Update and Delete), add or remove fields in the audit, or deactivate the entire audit by clicking Deactivate.

5 Click Save.

Managing partitions

Use this procedure to manage partitions. Partitions are available to divide the audited information into smaller units. Partitions are automatically created when an ongoing audit is changed but can also be manually created.

To manage partitions

1 Open the FAT Manager. The Field Audit Trail tab is displayed.

2 Select a system configuration in the list.

3 Select the audit and click Edit.

4 Click the Partitions tab.

5 The currently available partitions are displayed with the following properties:

- The name of a partition consists of three parts: schema name, table name and a sequence number for the partition.

- The date columns show for how long the audit partition was used and the size is the number of records in the file. The current partition always has the size -1.
- The Comment column state the reason for creating a new partition:
  - Audit changed break - a new partition was created automatically when the audit was changed (for example, a new field added to the audit).
  - Manual break - a new partition was manually created using the button Manual break.

6 To manually create a new partition, click Manual break.

7 The Partition window is displayed. Click Create Partition.

The new partition is created with the current date and time in the column "Date from" and has a name where the number at the end has increased by one.

Viewing audit history

Use this procedure to view the history of an audit.

To view history of an audit

1 Open the Field Audit Trail Manager. The Field Audit Trail tab is displayed.

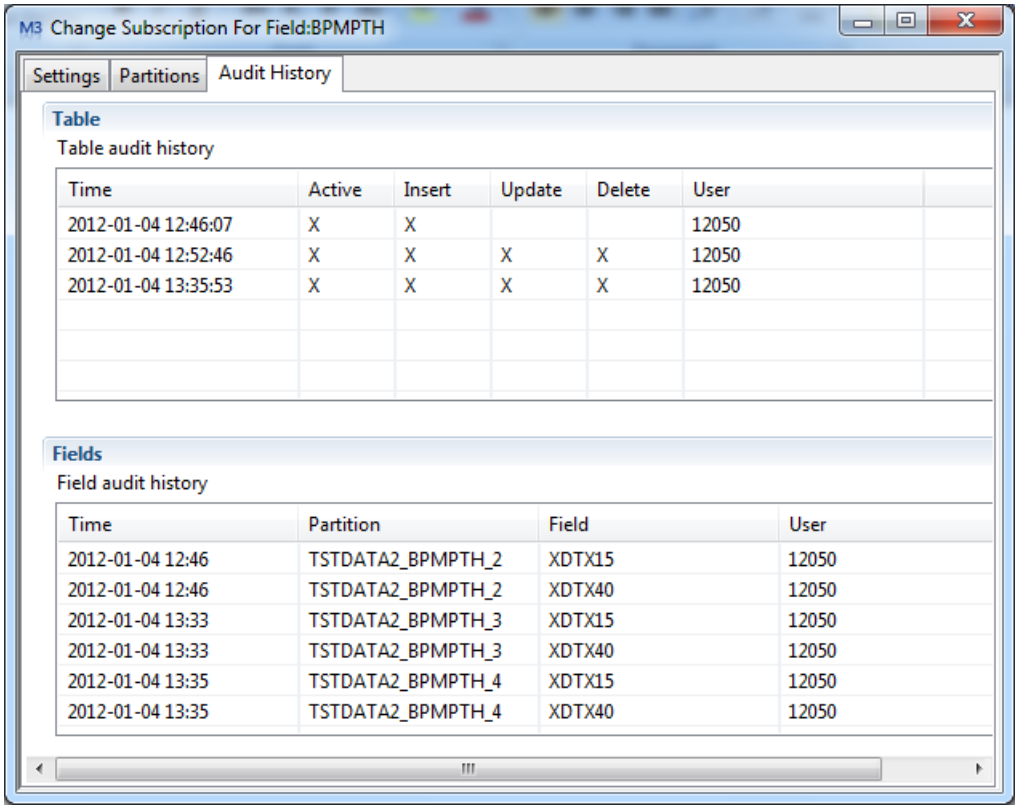
2 Select a system configuration in the list.

3 Select the audit to view the history for and click Edit.

4 Select the Audit History tab.

The currently available history of this audit is displayed in two tables. The user column displays the LCM user responsible for the change of settings, and the Time column displays the timestamp when the change occurred. The two tables are:

- Table audit history: Displays history of modifications done regarding audit operation on the subscriber table (Active, Insert, Update and/or Delete).
- Field audit history: Displays history of modifications done regarding what fields that have been selected for audit and the name of the partition table.



Creating a Support package

Use this procedure to create a Support package. This task finds the appropriate log files and creates a zip file along with system information that can be sent in a error report. An error report often needs to be accompanied by log files for support personnel to find the cause of the problem.

To create a Support package

1 Right-click your environment and select Create Support Package.

Tip: You can also open the task by clicking Create Support Package on the Dashboard.

2 Select a start date and time and a stop date and time to specify the time span.

3 Select a location where the error package including the log files and other information is to be saved.

4 Click Next. The Summary window is displayed.

5 Verify the values provided and click Finish.

6 When the task is finished, a window is displayed. Click OK or click View log. You can also go to the Logs tab to view the log file.

Environment Configurator

This feature is used to create system configurations and components directly on a M3 Business Engine environment from LifeCycle Manager.

Environment Configurator overview

The Environment Configurator allows you to manage components and system configurations. A system configuration is specified through up to five system components. The definitions made to system component and system configuration define the classpath to be used by the server to access M3 Business Engine.

The LifeCycle Manager Environment Configurator is used to set up the system configuration for a M3 Business Engine environment. The two tabs, Configuration and Components, correspond to the M3 Business Engine programs ‘System Configuration. Open’ (MNS102) and ‘Configuration Component. Open’ (MNS104). There are icons or buttons located at the upper right hand part of the Environment Configurator window, allowing you to add, delete, save, undo, refresh, and use horizontal or vertical orientation in viewing.

To access the Environment Configurator:

1 Right-click an environment and select Environment Configurator.

The System Configurations pane is displayed by default.

Note: You must set the components before the system configuration.

2 Configure components. For more information, see "Components" on page 64 and *M3 Business Engine and M3 Foundation Installation Guide*

3 Create a system configuration. For more information, see "System configurations" on page 64 and *M3 Business Engine and M3 Foundation Installation Guide*.

Components

In the Components tab of the Environment Configurator, you can specify a configuration component with a service pack and schema name.

Tip: If there are any classes in the component's folders for hot fixes (HFix), temporary fixes or MCEs for standard M3 BE and markets (TFix), and verified fixes (VFix), select the corresponding check box.

The component is specified in the component program MNS104. For standard M3 Business Engine, select the MVX component.

The Components tab consists of the following panels:

- Components panel - contains all available components including descriptions
- Component details panel - contains more information about a selected component. These fields are available:

Name	A specified name for the component
Description	A short description of the component.
Schema	A default schema is suggested. If this is not the correct schema, or if the default schema already is in use, update this value.
Fix Level and Service Pack	Select the applicable fix check boxes if you plan to install fixes for the component. Enter the name of the Service Pack if applicable.

Save the component and click the Configurations tab.

System configurations

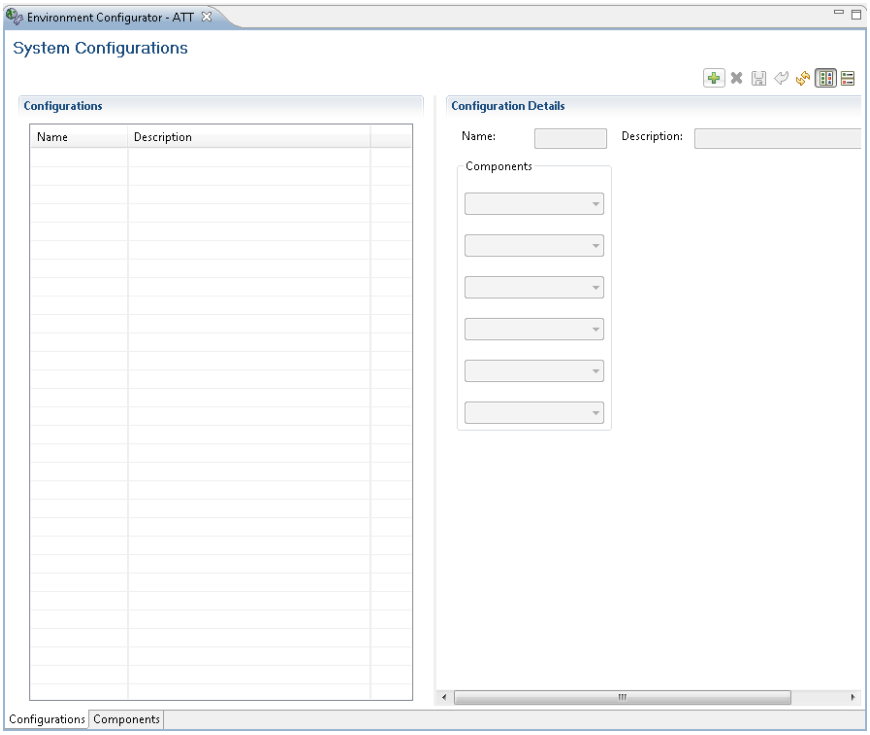
In the System Configurations tab of the Environment Configurator, you can create your system configuration and connect it to up to five configuration components that are composed in the Components tab. System configurations decide how the M3 Business Engine (BE) server searches for objects.

Configuration components can be

- market components, for example MSE and MGB (M for market and SE/GB for language)
- customer components, for examples, EXP (for customer Example).

Note: The components are specified in priority order with the highest priority at the top.

The system configuration is specified in the system configurations program MNS102. For the standard M3 Business Engine, the system configuration MVX is set by default.



The System Configuration tab consists of the following panels:

- Configuration panel - contains all available configurations and a description of each.
- Configuration details panel - contains more information about a selected configuration. These fields are available:

Name	A specified name for the configuration
Description	A short description of the configuration.
Component	Lists the components of the system configuration. The components must be specified in this order (from top to bottom): **1** Customer modification **2** Marked modification **3** Standard base (MVX)

Save the configuration.

Environment Overview

Use this procedure to view an overview of the environment. Information about the components, additional components, source files and additional languages applied to a specific environment is displayed when the task Environment Overview is selected.

To view the environment overview

1 Right-click your environment and select Environment Overview.

Tip: You can also open the task by clicking Environment Overview on the Dashboard.

The Environment Overview window is displayed.

2 If you want to view detailed information about for example service packs, click an object to see the details on the right pane.

Exporting fix information to an Excel file

Use this procedure to export to an Excel sheet fix information such as fix names, objects, dates when objects are deployed, descriptions and users who deployed the fixes, as well as property changes made.

To export fix information to an Excel sheet

1 Right-click your environment and select Environment Overview.

2 Click the Export to Excel file button at the bottom of the Environment Overview pane. The Export to Excel file window is displayed.

3 Type a filename and click Save.

4 If the filename already exists, a warning message is displayed. Click OK if you want to overwrite the existing file. Otherwise, click Cancel and provide another filename.

5 When the task is finished, the Export completed notification message window is displayed. Click OK. All fix information is exported to the specified location.

Manage folder etc

Use this procedure to upload or delete files from the M3 Business Engine environment etc folder. Files uploaded to this folder will be included in the classpath for this environment.

To upload a file

1 Right-click your environment and select Manage etc folder > Upload File

2 Click Select and browse for the file to upload. Click Next.

3 The Summary window is displayed. Verify the values provided and click Finish.

4 When the task is finished, a dialog is displayed. Click OK.

To delete a file

1 Right-click your environment and select Manage etc folder > Delete File.

2 Click Select, select the file to delete, and click OK.

3 Click Next. The Summary window is displayed.

4 Verify the values provided and click Finish.

5 When the task is finished, a dialog is displayed. Click OK.

To view the log file, either click View log, or go to the Logs view.