M3 Enterprise Collaborator Server and Client Tools Install Guide

Version 10.4.0.0
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Version Log

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

Part Number	Release Date	Description
MECSACTIG-104w01	201305	Updated for MEC 10.4.0.0
		Added an important note on blank spaces in application names.
		Updated topics:
		Server Software Prerequisites
		Client Tools Software Prerequisites
		ION Mapper Settings
		Added topics:
		Attaching MEC Database
MECSACTIG-103w01	201208	Updated for MEC 10.3.0.0
		Updated all instances of MEC node names.
		Added an important note on blank spaces in path names.
		Updated topics:
		Server Software Prerequisites
		Client Tools Software Prerequisites
		Uninstalling MEC Client Tools
		Optional BE Installing MEC in a Grid
		New site definition Updating ION Mapper
		EventHub version compatibility Server Software Prerequisites
		New topics:
		Installing ION Mapper Through LCM
		Setting the SQL Connectivity
		Retrieving CCSS Fix
		Setting MEC Security
MECSACTIG-92w01	201201	Updated for MEC 9.2.0.0

Part Number	Release Date	Description
		Updated the following:
		Server Software Prerequisites
		Client Tools Software Prerequisites
		ION Mapper Tool Pre-installation Checklist
		Added new topics:
		Setting the API Connectivity
		Setting the Database Connectivity
		Setting the Server Connectivity
		Updated references to MEC Utilities Client tool.
MECSACTIG-91w01	201105	Updated for MEC 9.1.4.0
		Updated version references, terminologies, and procedures.
		Moved the configuration properties into the Administration Guide.
		Added new topics on Upgrading MEC 9.1.3.x
		Upgrading MEC Server
		Upgrading MEC Database
		Added new topic in MEC Utilities Client
		Updated Grid Agent access to full control in, Installing MEC in a Grid
MECSACTIG-91w01	201005	Updated the following for version 9.1.3.1:
		Server Software Prerequisites,
		Client Tools Software Prerequisites, and
		MEC Server Pre-Installation Checklist
		Additional information:
		Iimportant installation note in Uploading MEC to LifeCycle Manager
		MEC_CLASSPATH in Setting the Client System Properties
		MEC Heap size in, Configuring MEC Application
		Grid Agent access to read/write control in, Installing MEC in a Grid
		Updates: , changed all MEC Monitor references to MEC Management
MECSACTIG-9131w01	200910	First version of MEC on GRID

Contents

Installation Overview

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MEC Installation Guide Overview

There are two main sections in this guide, the MEC Server and the MEC Client Tools. MEC Server is the MEC Application in Grid. At runtime, the MEC Server and MEC Database are the only necessary components. To be able to develop mappings, define flat files, and set up partner agreements you will need the MEC Client Tools.

The MEC Server and MEC Client Tools are installed separately. Both installation need to connect to MEC database. The MEC Database stores all the data for mappings and partner agreements, and runtime data, for example, message logs and log settings.

Knowledge Prerequisites

This installation guide is intended for use by certified M3 Enterprise Collaborator (MEC) consultants. To be able to install this product, you must have systems administrator experience or high level knowledge on the following:

- Installation and Administration of Lawson Grid.
- Installation of Lawson software components using LifeCycle Manager with Lawson Grid.
- XML and XML schema concepts.
- Operating system where you are installing the product.
- The Eclipse IDE Framework for the ION Mapper tool.

Note: Instances of *<version>* across this document generally means the current version release of the particular application it refers to.

MEC Application Components Overview

The MEC Application on Grid is administered through LifeCycle Manager (LCM) client.

For more information on Grid, see the *Grid Installation Guide* and *Grid Administration Guide*.

MEC_Central Node

Also called CentralFileAccess (CFA), MEC_Central node is a runtime component that runs as a Grid node and provides file access service to all of the MEC_Process and MEC_MapGen nodes.

The Central File folder is a local folder in the domain accessible to the Grid Agent of the MEC_Central node. This Grid Agent must have Full Control access to the Central File folder, for example: **\\local\ shared** folder. This node runs detections, agreements, and process dispatchers. You should create this folder before installing MEC application in Grid.

The Host machine containing the Central File folder must have a running LCM Service and the user must have read/write access to the Central File folder location. The LCM Service extracts the default files upon installation.

The CFA delegate tasks to Process nodes. When there are no process nodes running, the MEC_Central node also act as a standalone node.

MEC_Process Node

MEC_Process node is an additional runtime component used to run the process flow of agreements received in MEC from MEC_Central node and peer Process nodes. MEC_Process node is dependent on MEC_Central node to run.

In earlier MEC versions, MEC_Process node is called MECServer node.

MEC_MapGen Node

This server generates mappings for runtime and runs on Grid nodes. Depending on the BE database type you are using, you must add the corresponding ODBC data source for the BE connection where MEC_MapGen node is running.

In earlier MEC versions, MEC_MapGen node is called MapGen node.

For more information on generating and publishing mappings, see *M3 Enterprise Collaborator ION Mapper User Guide*.

MEC_UI Node

This is the graphical interface of MEC Application, taking the place of the previous Web Administration Tool. You can access MEC UI through MEC Management page in Grid or MEC url.

From the UI page you can delete old data log from MEC database, configure log settings, view message logs, view archived message files, and perform other MEC management tasks.

For more information, see the "Access HTML-based MEC Management Page" topic in *M3 Enterprise Collaborator Administration Guide*.

For more information, see "Starting MEC and MEC Management Page" on page 25.

MEC Database

MEC Database stores mapping data, partner agreements, and runtime log data. MEC Database is required to run the MEC grid nodes (Central, MapGen, Process, and UI).

MEC Database can be installed separately from the other components and in a location accessible to all MEC grid nodes, or on any other accessible server within the grid network.

MEC Client Tools Overview

The following MEC Client tools can be installed on a Windows machine separate from the MEC Server.

Partner Administration Tool

Use this tool to define partner agreements, detections, communication envelopes, process steps, and to set up communication channels and manage partner agreement tasks.

ION Mapper Tool

Use this tool to create and deploy mappings, map XML data to M3 API calls and construct XML output. Database Object calls are now supported in ION Mapper.

Flat File Definitions Tool

Use this tool to create flat file definitions. This includes the Flat File Repository Manager and the Flat File Describer tool for development and editing of flat definitions.

Note: In earlier MEC versions you must edit the `BankRepository` files directly. `BankRepository` files are now called Flat definitions.

MEC Server Pre-Installation

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Complete these requirements and procedures to be able to install the Server part of MEC.

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Server Software Prerequisites

This section details the software programs required to be able to install the server part of MEC.

Note: Refer to the corresponding vendor for third party software and installation instructions.

Important:
- Path names must not contain blank spaces. If there are blank spaces, enclose the path name in double quotes (") to avoid installation error.

- Application names must not contain blank spaces.

Component	Supported Version	Notes
Operating System	Windows Server 2008 R2 x64 Standard or Enterprise Edition	
Database	SQL Server 2012 x64 Standard or Enterprise Edition	
	SQL Server 2008 x64 Edition	
Database Driver		The ODBC driver needed by MapGen Server is dependent on the BE database.
		Optional.

Component	Supported Version	Notes
JAVA	Java Runtime Environment 1.7. 0_17 x64 Java Developer Kit 7	
LifeCycle Manager	9.1.x	
Lawson Grid	10.1.x	
Lawson Foundation	9.1.x	
M3 Business Engine	14.1.2.0	BE installation is optional. You can select to install BE now or manually configure the BE details after MEC installation completes.
M3 Business Engine Database Driver	SQL Server or Client Access driver, depending on what BE is used.	The client access V5R4M0 driver is not supported in 64-bit MapGen. • For 32-bit, use V5R4M0 Client Access. • For 64-bit, use V6R1M0 Client Access. • For SQL Server BE DB, use JDBC bridge.
M3 Requirements	Output management M3 APIs and API-engine	M3 API is optional. If this feature is needed, use the latest versions of the API engine.
Document Archive Foundation	10.0.2.0	

Component	Supported Version	Notes
EventHub	Event Hub v2 EventHub v1.0.4, or EventHub v1.3.1	Event Hub is optional. Use if you will subscribe to MECEventHubSubscriber channels. Depending on your MEC version, see the appropriate Event Hub version to use: • MEC 10.4.0.0 - use EventHub starting from v2 only to the latest. • MEC 10.3.0.0 - use EventHub starting from v1.3.1 only to the latest. • MEC 9.1.4.0 and 9.2.0.0 - use EventHub starting from v1.0.4 to the latest.
Browser	Internet Explorer Chrome Firefox	Use the version delivered with Grid.
Others	IBM WebSphere MQ 7.0 Windows version 5.6 for scripting host. MSMQ Windows Component version 4.0	These are optional third party components. If these channel types are needed, refer to the third party installation guide. MSMQ is optional but if used, will require MSMQ-W for its functionality.

MEC Server Pre-Installation Checklist

❏ **MEC Server Installation and Configuration Verification**

___**1** Install Grid.

___**2** Install BE Grid version. This is optional.

___**3** Complete the Server Software Prerequisites.

___**4** Set the LCM Administrator rights for the user installing MEC.

___**5** Set the user read/write access to Central File folder.

> **Important:** LCM service and Grid Agent users must have read/write access to the Central File folder.

___**6** Attach the MS SQL 2008 middleware to LifeCycle Manager.

Need More Details? Check out the following concepts:

- Grid installation, see *Lawson Grid Installation Guide*.
- BE installation, see *M3 Business Engine Grid Installation Guide*.
- LCM related tasks, see *Lawson LifeCycle Manager Installation Guide*.
- Central File folders or CentralFileAccess, see MEC Application Components Overview.

MEC Server Installation

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Use these procedures to install MEC Server.

Important:
- Ensure that path names do not contain blank spaces. If there are blank spaces, enclose the path name in double quotes (") to avoid installation error.

- Ensure that application names do not contain blank spaces.

- You must have administrator privileges to run the installation program and the MEC services registration.

Need More Details? Check out the following concepts:

- For more information on how to install third party products, such as Microsoft SQL Server, WebSphere MQ, and others, see the third party product installation guide.
- For more information on GRID, see *Lawson Grid Installation and Administration Guide*

Uploading MEC to LifeCycle Manager

Use this procedure to upload the M3 Enterprise Collaborator application installation package to LifeCycle Manager server.

Important:
- To use the installation wizard, the user running the LifeCycle Manager Client must be a member of the LifeCycle Manager administrator's group.

- When uploading MEC, check for available fixes. For more information, see "Retrieving CCSS Fix" on page 17.

❏ **Upload MEC to LCM**

___**1** Download the M3 Enterprise Collaborator files from the Product Download page.

___**2** Log on to LifeCycle Manager as administrator.

___**3** On LCM menu, select Admin > Admin View.

The Manage Products tab is displayed by default.

___**4** Click Upload.

___**5** Browse to the folder location of your M3 Enterprise Collaborator application product package and select M3_Enterprise_Collaborator_Server_<*version*>.zip

___**6** Click Open.

___**7** On the Verifying package window, click Yes to accept to register the packages to LifeCycle Manager Server.

___**8** When the task is finished, a dialog appears. Click OK.

___**9** At the prompts to update your client, click Yes.

___**10** When update is completed, you will be prompted to restart the client. Click OK.

___**11** Log on again.

Lawson Grid Prerequisites

Complete these prerequisites to be able to install M3 Enterprise Collaborator (MEC) Grid Server.

❏ **Start Lawson Grid**

___**1** Log on to Lifecycle Manager as administrator.

___**2** On LCM Applications tab, select and expand Lawson Grid<*version*>.

___**3** Select and right-click on your Grid installation name.

Note: Grid is automatically started after installation. If not started, you must start first the Grid Agent before starting the Grid.

___**4** Select Lawson Grid*<version>* > Grid > Start Grid.

> **Tip:** You can also click the task Start Grid on the Dashboard.

___**5** 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 Lawson Grid is now started. Verify that a red (stop) icon is replaced by a green (start) icon.

❏ **Verify Lawson Grid Management Pages**

___ Right-click on Lawson Grid*<version>* > Grid > Grid Management Pages.

If the Management pages are displayed, it means that the Grid is properly started and is running.

Retrieving CCSS Fix

Use this procedure to use available MEC Customer Correction Self Service (CCSS) fixes.

- If you have not started MEC installation, check for listed MEC CCSS fix.
- If a CCSS fix is available for your MEC version, first apply the fix' base package to LCM to make it available to MEC application. Then, install MEC. The applied fix will update the installer.
- If you have already completed your MEC installation, Retrieving CCSS Fix .
- When update is completed, generate all your mappings and database from the MapGen page.

❏ **Retrieve and apply a CCSS fix**

___**1** On LCM menu, select Actions > Retrieve Fixes.

A list of available fixes is displayed.

___**2** In the CCSS Channels list, select a channel to download fixes from.

For example: *<MECApplicationName>* (M3 Enterprise Collaborator *<version>*)

The CCSS Server log on window is displayed.

> **Note:** CCSS fixes are application version specific. The list will only display the fixes available for your selected MEC version.

___**3** Log in using your `Infor Xtreme` account.

___**4** In Available Fixes pane, select ALL and click **Search**.

A list of all available fixes is displayed.

___**5** Select the fix to retrieve and click **Retrieve** for download to start.

___**6** When download completes, a dialog appears. Click OK.

> **Note:** Under the column Retrieved, a tick mark appears across your selected fix. It means that the fix is now retrieved.

___**7** Select the same fix from the table and click **Apply**.

___**8** When the fix is applied, a dialog appears. Click OK.

> **Note:** Under the column Applied, a tick mark appears across your selected fix. It means that the fix is now applied.

___**9** At the prompts to update your client, click Yes.

___**10** When update is completed, you will be prompted to restart the client. Click OK.

❏   **Update the patch**

> **Important:**
> • Apply the CCSS fix to LCM first to make it available to the application. Then, upgrade your application with the applied fix.
>
> • Verify your registered MEC product version to know if the latest fix is applied and in use, or if a newer fix version must be applied and used.
>
> • A CCSS fix upgrade is different from a new version release upgrade.

___**1** On LCM Applications tab, expand the view of the Space > Grid installation.

___**2** Right-click on the MEC application to update with the latest fix patch, select > Application Maintenance > Upgrade Application.

The Upgrade Application window is displayed.

___**3** Select the new .gar file containing the fix patch.

___**4** Click Next.

The Host window is displayed. A list of hosts using this application is shown.

___**5** Click Next.

> **Important:** Currently running applications in grid will automatically shutdown if you select "Confirm automatic shutdown of nodes". Ensure that all MEC nodes can be shut down before invoking this action.

___**6** Select "Confirm automatic shutdown of nodes" and click Next.

The Summary window is displayed.

___**7** Review and verify the completeness of the information and click Finish to complete the fix patch upgrade.

___**8** Access the MEC Monitor page and check if the MEC nodes are started. If not, manually restart all MEC nodes.

___**9** Access the MEC Management > About page and verify the new and updated version release number.

❏   **Verify your registered MEC product version**

Use the following procedures to check whether a fix or a patch is applied to your selected MEC. Also, check for the version used.

___**1** Verify through the list of registered components.

___**a** On LCM menu, select Admin > Products > Manage Products.

The Manage Products page is displayed.

___**b** In the **Registered Products** list, select the *<MEC application> <version>*. Check the listed components at the bottom of the page.

___**c** In the **Registered Components** list, verify that the applied .zip fix is listed.

___**d** At the bottom of the page, check the "Product package fix level" to know the fix type and version used.

___**2** Verify through MEC Management Page.

___**a** Access MEC Management Page and click the link to **About** page.

___**b** Check the application name and version release number. The fifth number from the left indicates the fix patch release number.

Installing MEC Database

If you are installing MEC application in grid for the first time, you will need to install the corresponding MEC database in grid. Use this procedure to install a new MEC database.

Important:
• If you already have a previous version of MEC application and would need to upgrade to the latest version, you should first upgrade the MEC database before upgrading the MEC application. "Upgrading MEC Database" on page 67

Before you start Consider the following prerequisites:

- MEC Server Pre-Installation Checklist

- Server Software Prerequisites

- LCM service and Grid Agent users must have read/write access to the Central File folder.

___1 On LCM Applications tab, select and expand the view of Microsoft SQL Server where your *<MEC MSSQL instance>* is installed.

___2 Right-click on the *<MSSQL instance>* where to install your MEC DB.

___3 Select *<MSSQL instance>* > M3 Enterprise Collaborator *<version>* > **Install MEC Database**.

The Database server information window is displayed.

___4 Type the Admin user and password to access the database server.

___5 Click Next. The MEC Database Information window is displayed.

___6 On Database name, type a name for this MEC database installation.

___7 On Database user, type a name and password for the database user.

Retype the password for verification.

> **Important:**
> - Save the MEC database user and password details. You will need them later when you install MEC in Grid and when you upgrade your database.
>
> - Do not use an already existing user accounts, instead create a new one.

___8 Click Next.

The Summary window is displayed.

___9 Review and verify the information and click Finish to complete the installation.

__10 When the task is finished, a dialog is displayed. Click OK or view log to see the installation details.

Attaching MEC Database

If you are attaching MEC application in grid for the first time, you will need to install the corresponding MEC database in grid. Use this procedure to attach a new MEC database.

Important: Attach MEC Database procedure only applies to previously installed MEC Database. Be sure to check the MEC Database version before you proceed. For more information, see "Upgrading MEC Database" on page 67.

Before you start Ensure that you have completed the following:

- "Server Software Prerequisites" on page 11

- "MEC Server Pre-Installation Checklist" on page 13

- LCM service and Grid Agent users must have read/write access to the Central File folder.

___**1** OnLCM Applications tab, select and expand the view of Microsoft SQL Server where your *<MEC MSSQL instance>* is installed.

___**2** Right-click on the *<MSSQL instance>* where to attach your MEC DB.

___**3** Select *<MSSQL instance>* > M3 Enterprise Collaborator *<version>* > Attach MEC Database.

___**4** Type the Admin user and password to access the database server.

___**5** Click Next.

   The MEC Database Information window is displayed.

___**6** On Database name, Select the MEC Database that you want to attach.

___**7** Type the MEC database user and password to access the database server.

   MEC Database Version is displayed showing the Database Version to attach.

___**8** Click Next.

___**9** Summary window is displayed showing the Admin user, Database name, MEC database user and Database version to attach.

___**10** Review and verify the completeness of the information. Click Finish to complete the installation.

___**11** When the task is finished, a dialog is displayed. Click OK or view log to see the installation details.

Installing MEC in a Grid

Use this procedure to install the M3 Enterprise Collaborator application in a Grid for the first time.

If you already have the previous version of MEC installed in a grid, use the upgrade procedures to install the latest available version of MEC.

Before you start Consider the following prerequisites:

- MEC Server Pre-Installation Checklist

- Server Software Prerequisites

- Installing MEC Database

- LCM service and GridAgent users must have read/write access to the Central File folder.

- Select the Grid version 10.1.x, or the latest release.

- Verify that your selected Grid version contains the host where `MapGen` and `CentralFileSystem` will run.

    To verify, check the (Registry) listed under Grid Host.

Important: Install only one MEC Server for every Grid environment to avoid duplication.

❏   **Install MEC in a grid**

___**1** Log on to LifeCycle Manager as administrator.

___**2** Select Actions > Install.

    The Install window is displayed.

___**3** Select M3 Enterprise Collaborator<*version*>, and click Next.

___**4** Select and expand the view of the grid instance on which MEC will be installed.

    Right-click and select Install.

___**5** Select M3 Enterprise Collaborator<*version*>, and click Next.

___**6** On MEC Application Name window, consider the following fields:

Application Name	Type a descriptive name for this grid application.
	For example: `MEC Server`
Description	Type an optional brief description for this installation.

___**7** Click Next.

    The Grid Host window is displayed. By default, the MEC Server Host is selected based on your installation set up.

    Note: By default, MEC_Process node will run on all Grid hosts.

___**8** On Grid Host window, consider the following fields:

MEC Server Host	Select host/s machine/s for the MEC_Process Node.
MapGen Host	Select a host machine for the MEC_MapGen Node.

Central File Location Host	Select a host machine for the MEC_Central Node.
Central File Location Path	Type the complete path to Central File Location. The Central File is a local folder in the grid host machine.
	When you do this, ensure that the following prerequisites are completed:
	• Central File folder is existing in the host machine.
	• LCM Service user on the Central File Location Host have read/write access to the folder.
	• GridAgent user (Local Service) on the Central File Location host have full control access to the folder.

___**9** Click Next.

The Database information window is displayed.

Note: Refer to your MEC database set up details.

___**10** On Server information, select the **Database server** you defined earlier.

___**11** On Database User Information, type the user name and password you defined earlier.

___**12** Click Next.

The M3 API Information window is displayed.

___**13** On Select M3 BE Environment, consider the following fields:

Note: BE installation is an optional task. You can select to install the BE now or configure to use BE later.

BE Installation	Select the BE installation to use.
	- Or -
	Select Manual Configuration to skip the BE selection for now, and do the configuration later.
BE Environment	Select the BE environment to use.

___**14** On API Information group, consider the following fields:

Note: If you are not prepared with the details to indicate in the following fields, select **Manual Configuration** in the previous step, then configure the BE and API later. Refer to movex.properties located in the actual BE environment for the API details.

API Ref Name	Type the API reference name.
API Port	By default, this field is auto-filled based on your selected BE Installation.

Host Name	Type the host name of the BE Environment.
User	Type the BE Environment user name.
Password	Type the BE Environment user password.
Encoding IANA	This is auto-filled.
Use Proxy	Select this to specify the proxy connection to use. You may need to use a proxy connection because of firewalls and NATed networks settings.

Note: The information provided in this API is the same as with the Partner Admin M3 API Communication fields. The values defined here will replace the values in Partner Admin M3 API Communication fields.

For more information, see the *M3 Enterprise Collaborator Partner Admin User Guide*.

___**15** Click Next.

The Summary page is displayed.

___**16** Review the information and click Finish to complete the installation.

LCM copies the MEC Config files to the Central File Folder after you click Finish.

___**17** When the task is finished, successful installation dialog appears. Click OK, or View log.

MEC application is now installed on your selected **Space** > Infor ION Grid*<version>* > grid node.

❏ **Verify MEC Grid installation**

___**1** Select your MEC installation.

___**2** Right-click on MEC application name > Infor ION Grid*<version>* > Application > Start Application.

Note: When the installation tasks are completed and the Infor ION Grid is running, the MEC Server starts along with its components:
- MEC_Central node,
- MEC_MapGen node,
- MEC_Process node,
- MEC_UI node, and
- MEC database.

❏ **Add Full control access to the GridAgent**

___**1** Check the GridAgent logon where MEC_Central Node must run.

Note: To find the GridAgent Services, run `services.msc` from the command prompt.

GridAgent follows the format: `GridAgent - <grid where MEC is installed>.`

___**2** Ensure that the Central File folder provides the proper access to the logon account.

For example: Logon = Local Service. Access rights to "Local Service" and enable Full control.

Note: The default GridAgent service logon is **Local Service**.

Need More Details? Check out the following concepts:

- To access MEC Management pages, right-click on MEC application > Lawson Grid*<version>* > Application > Manage Application.
- About LifeCycle Manager installations, see *LifeCycle Manager Installation Guide*.
- How to attach middleware to LifeCycle Manager, see *LifeCycle Manager User Guide*.
- How to change the Network service log on account, see Microsoft Help topic "*Select an Account under which the service will run*".

Starting MEC and MEC Management Page

Use these procedures to start MEC application before performing Manage, Configure, and MEC Management tasks.

❏ **Start MEC application on Grid**

___**1** On LCM Applications tab, select adn expand the view of M3_Enterprise_Collabporator*<version>*

___**2** Right-click on *<MEC application name>* > Lawson Grid*<version>* > Application > Start Application.

When MEC Application is started, you can perform Manage, Configure, and Management tasks.

Important:
- Avoid stopping MEC from Monitor Application page, accessed through: right-click on MEC*<version>* application > Monitor Application.

- Do not start MEC application until after what you have stopped has completed its stop process.

- To know whether or not MEC application has successfully stopped, check that all MEC nodes are no longer listed in the Grid Management page.

  For more information on stopping Grid applications, see *Lawson Grid Administration Guide*.

❑ **Open the MEC Management page**

___**1** On LCM Applications tab, select the Space and expand the view of the grid node where MEC application is installed.

___**2** Right-click on *<MEC application name>* > Lawson Grid*<version>* > Application > **Manage Application**.

The MEC Management page opens in a pane. You can now perform Server controls.

For more information on MEC Management, see *M3 Enterprise Collaborator Administration Guide*.

Setting MEC Security

Use this procedure to set the security level for MEC grid application users.

❑ **Secure Role Mappings**

___**1** On LCM Applications tab, select and expand the view of the grid node where MEC application is installed.

___**2** Right-click on your *<MEC application name>* > Lawson Grid*<version>* Configuration Application.

The Configuration Manager page opens in a pane.

___**3** Click the link to **User and Role Mappings**.

The User and Role Mappings page opens in the right pane. By default, grid has the following user roles:

Role	Role description
grid-admin	Grants full access to all configurations and operational tasks.
grid-poweruser	Grants access to a limited set of operational tasks, for example, log level.
grid-user	Grants access to application defined operations.

Grid and installed grid applications will each have a set of these roles. For example, <MEC grid application>/grid-admin.

Note: There are two member groups for each role. One for included members and the other for excluded members. Select the link corresponding to the group you want to edit.

___4 Under **Include Members** column, click the link to **Edit** page.

The Role Mappings window is displayed.

___5 Click the link to **Add**.

The Add Role Mappings to grid-admin window is displayed.

___6 In Global group, **Defined** field, select **authenticated** and click Add.

___7 In Application group, **Defined** field, select an admin user role and click Add.

Note: For custom setting, select a group in Custom field and type a user name in the next blank field. Then, click Add.

___8 In Session Provider group, select the domain user level to use.

For example, select `Domain Admins (Designated administrators of the domain)`.

___9 Click Add.

__10 Click Ok.

The Role Mappings windows is displayed. The included members in this application are listed.

Note: To remove a member, click on the red-x mark across the name, or click the link to **Remove All** to delete all listed members.

__11 Click Ok and save.

The Save Configuration Changes window shows a list of your recent changes.

__12 Review the details and click Save to finalized saving.

MEC Server Post-Installation

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Use these procedures to perform post installation configurations and related tasks.

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Verifying the MEC Server Components Installation

Use this procedure to check the completeness of the MEC server installation.

Note: This procedure is required to be able to run a successful test message. When you run a test message, you must first run Generate all mappings. For more information on mappings, see *Mapping Manager User Guide*.

❏   **Verify MEC Server Components Installation**

Verify that the following are properly configured, running, and correct:
___**1** Configure the BE settings in MEC.

___**2** Check that `MEC_Central` node is running.

If this is not successfully started, both `MEC_Process` and `MEC_MapGen` nodes will not run.

___**3** Access the MEC Monitor page and verify that the MEC nodes are running.

- `MEC_MapGen`

- `MEC_Process`

- `MEC_UI`

___**4** Check that there are no errors in the Grid Application logs.

___**5** Check that Mappings are successfully generated.

Note: Mappings are generated through the ION Mapper client tool.

___**6** Verify the MEC release version details.

The MEC version, release, and service pack information are shown in the MEC Management page > About display.

___**7** Run the test 20 message.

Test 20 is located in **`<Central File Folder location>\testdata`**.

Contents of MBM_Test_20 message

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<Envelope xmlns="http://www.intentia.com/MBM"
 xmlns:env="http://www.intentia.com/MBM_Envelope"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns:xsd="http://www.w3.org/2001/XMLSchema"
 xsi:schemaLocation="http://www.intentia.com/MBM MBM_Test_20_in.xsd">
  <Header>
     <env:delivery>
   <env:to>
    <env:address>you</env:address>
   </env:to>
   <env:from>
    <env:address>your partner</env:address>
   </env:from>
   <env:reliability>
    <env:sendReceiptTo/>
    <env:receiptRequiredBy/>
   </env:reliability>
  </env:delivery>
  <env:properties>
   <env:identity>60420f-e9100efc2f-c46080485eff8d913831be79206dd756</env:identity>
   <env:sentAt> BizTalkDate() </env:sentAt>
   <env:expiresAt/>
   <env:topic>http://www.intentia.com/MBM/ </env:topic>
  </env:properties>
  <env:manifest>
   <env:reference uri="#Test_20_in@1.1">
    <env:description>Doc Name Descr</env:description>
   </env:reference>
  </env:manifest>
  <env:process>
   <env:type>test</env:type>
   <env:instance/>
   <env:handle/>
  </env:process>
  </Header>
    <Body>
      <IN_TAG_ROOT>
        <IN_TAG_01>
          <in_e_01>alpha</in_e_01>
        </IN_TAG_01>
        <IN_TAG_01>
          <in_e_01>bravo</in_e_01>
        </IN_TAG_01>
        <IN_TAG_01>
          <in_e_01>charlie</in_e_01>
        </IN_TAG_01>
      </IN_TAG_ROOT>
    </Body>
</Envelope>
```

Need More Details? Check out the following concepts:

- Managing mappings, see *M3 Enterprise Collaborator ION Mapper Tool User Guide*.
- Generating mappings, verifying MEC nodes, and running MBM_Test_20, see *M3 Enterprise Collaborator Administration Guide*.

Configuring MEC Server

Use these procedures to configure MEC Grid application.

Before you start Ensure that you have installed all the necessary files to run MEC.

-

-

Need More Details? Check out the following concepts:

- For more details on how to update the application properties, see *Lawson Grid Installation and Administration Guide*.

Configuring MEC Application

Use these procedures to configure MEC application settings before you start MEC application.

Before you start Grid must be started.

❏ **Access predefined MEC application settings**

___**1** On LCM Applications tab, select and expand the view of the Space > grid node where MEC application is installed..

___**2** Right-click on *<MEC Application Name>* > Lawson Grid*<version>* > Application > Configuration Application.

The "Application:*<MEC Application name>*(MECApplication*<version>*)" page is displayed.

This page contains links to the following basic and advanced application configurations tasks:

- Edit Properties

- Edit Role Mappings

- Add Bindings

- Deploy New Version
- Manage Application, and
- Export Settings

___3 Check the following **Application Settings**:

- General information
- Application Deployment Status
- Bindings
- Node Types

___4 Check the following **Advanced Settings**:

- Application Modules
- Application Defined Roles
- Application Defined Default Property Values

❏ Grid Agent Window

Note: By default, the Grid Agents run as a Local Service. If your inbound or outbound channels require for special user access, change the default Grid Agent to run as a user with access to your external channels.

When changing access rights to the Grid Agent, especially if the MEC_Central node is running in it, you must also set Full Control access to the Central File folder.

For more information, see Microsoft Help on "Select an Account under which the service will run".

❏ Add MEC host and Bind hosts

Important:
- You can only add a host on a machine with LCM service installed. This machine must be connected to the LCM Server that MEC uses.

- You can add hosts in grid to run MEC on multiple hosts. When adding hosts, ensure that you have properly configured the required grid settings for every host added.

Note: This is an optional configuration task. By default, only one instance will be started for every MEC node.

___1 In the **Node Types** table, click the plus sign across the node type to add a host to.

The Bindings window is displayed.

Note: You can also select the Node Type where to add a host from this window.

___**2** Type a numeric value to set the minimum, initial, and maximum number of nodes for this application.

Note: This is an optional configuration task. As a default setting, only one instance will be started for every MEC node.

Node Type	Binding name	Min	Initial	Max
MECServer Node	MEC_Process	1	1	1
MapGenNode	MEC_MapGen	1	1	1
CentralFileAccessNode	MEC_Central	1	1	1
MECUINode	MEC_UI	1	1	1

___**3** Click Add Binding.

This action will bind your selected, or a multiple selection of, hosts to MEC Application to be able to run additional MEC_Process nodes on selected machines or hosts.

❏ **Configure MEC Heap Size**

Important: For new installations, 512MB heap size is automatically set across all existing MEC nodes. When upgrading MEC, the existing nodes setting do not change, rather a new node is added. The new MEC_UI node heap size is set to 512MB.

___ Configure the heap size settings of the following nodes in Grid:

• MECBinding for the MEC Server

• CentralFileAccess

For more information on adding and setting heap size, see "Modify Heap Size" topic in *Lawson Grid Installation Guide*.

❏ **Add bindings to Node Types**

___**1** MECServerNodeType for MecServer modules.

___**2** MapGenNodeType for MecMapGen modules.

___**3** CentralFileAccessNodeType for MecRcdServer, MappingsLoader, and MecFileUtilities modules.

___**4** MECUINodeType for MEC_UI modules.

For more information on adding bindings to Node Types, see *Lawson Grid Installation Guide*.

Configuring MEC Advanced Settings

Perform the following advanced configurations after you have completed the installation and before using the MEC Application.

For a complete list of configuration properties, see *M3 Enterprise Collaborator Administration Guide.*

❏ **Access MECApplication Properties page**

___**1** On LCM Applications tab, select and expand the view of the grid node where MEC application is installed.

___**2** Right-click on *<MEC Application Name>* > Lawson Grid *<version>* > Application > Configuration Application.

The "Application:*<MEC Application name>*(MECApplication)" page is displayed.

___**3** Click the link to **Edit Properties**.

___**4** Expand the view of **Application Defined Properties** group.

From this page, you can configure the following property group settings:

For more information on settings, see *M3 Enterprise Collaborator Admin Guide*.

❏ **Basic settings**

Configure the following basic property settings to run MEC Server.
___**1** ErrorMail

___**2** MapGen

___**3** APIMapper

___**4** MapGen Server Data Bridge

___**5** Database, Basic, Log, Runtime, and Utilities setting.

❏ **Log Settings**

Configure the following properties for MEC logs.
___   Log4j > Log4j

❏ **Runtime Control Settings**

Configure the following properties to set the runtime controls.
___**1** Folders > Temporary Data Storage

___**2** Folders > Message Persistence

___**3** Runtime > Runtime Control Setup

___**4** DocIDController > Message ID Controller

___**5** Archive > Message Archive

___**6** DocErrorHandler > Error Message Archive

___**7** MvxAPIEnabled > API and MI-Program Settings

❏   **Database Property Settings**

___**1** Database > Delete interval.

___**2** Database > MEC Server Data Source.

❏   **Utilities Configuration**

If you are using **ec.utilities** in your mapping, it contains a utility class called **StringReplacer**. You can add or configure MEC application properties for a **StringReplacer**. For more information, see "MEC Utilities Client" on page 39.

> **Note:** MEC Utilities is delivered in a separate zip file with the MEC tools product from the product download page.

❏   **Server Document and Media Configuration Settings**

To be able to send a message from M3, you have to set up the media information for every partner and message.
For more information on M3 Media Settings, see M3 document and media management **concept. doc**

___**1** Define a Partner and Document number before performing Media Configurations.

___**2** Configure the M3 Media Settings.

MEC Server Uninstallation

5

Uninstalling MEC Server

Important: When MEC Server is uninstalled, all configuration details for this application are also removed. However, the MEC DB is not deleted or uninstalled.

___**1** On LCM Applications tab, select and expand the view of the Grid Application where the MEC Application to uninstall is located.

___**2** Right-click on *<MEC Application Name>* > Lawson Grid *<version>* > Application Maintenance > Uninstall Application.

The application information (details, name, type, version, and gar-file name) and the host on which the application is currently running is displayed.

Important: If the application is running on a node, you must shut down the node before making any changes.

___**3** If there are running nodes, select Shutdown nodes and click Next.

___**4** Click Finish to complete the task.

___**5** On the completion window, click OK or click View Log.

The MEC application is now uninstalled from the selected Lawson Grid.

For more information on Lawson Grid management, see *Lawson Grid Installation Guide*.

MEC Client Tools Pre-Installation

6

Complete these requirements and procedures to be able to install the MEC client tools.

Client Tools Software Prerequisites

The table below details the software applications required to install MEC Client Tools.

Note: MEC Management is accessed through LCM client.

Important:
- Path names must not contain blank spaces. If there are blank spaces, enclose the path name in double quotes (") to avoid installation error.

- Application names must not contain blank spaces.

Component	Supported Version	Notes
Operating System	Windows 8	Partner Admin and Flat File tools can run on either 32-bit or 64-bit Java.
Java	Java Developer Kit 1.7.x x32 or x64	
Database	SQL Server 2012 Enterprise Edition x64	

Component	Supported Version	Notes
Database Drivers	SQL Server JDBC Driver 4.0	This is the recommended driver for Partner Admin Tool to function properly in all scenarios.
		If access to the M3APIs is needed, use an appropriate database driver for the M3 BE database.
M3 Business Engine	14.1.x	BE installation is optional. You can select to manually configure the M3 BE details after completing your installation.
ION Mapper tool specific requirement	Eclipse 4.2.2, GEF 3.8.2 Java Developer Kit 1.7.x Java Runtime Environment 1.7.x	**Important:** Eclipse and JDK must correspond to each other on the use of either 32-bit or 64-bit.
		If you are using a downloaded Eclipse Juno release, ensure that it also contain the GEF feature.
		GEF is a standalone feature that can be downloaded and installed separately, see:
		http://www.eclipse.org/gef/ download.php?file=/tools/gef/ downloads/drops/3.8.2/ R201301141834/GEF-Update-3.8.2.zip
Partner Admin and Flat File Definition tools specific requirements	Java Runtime Environment 1.7.x x32 or x64	**Important:** JRE is required for Partner Admin and Flat File Definition tools. Install and set to system Environment Variable JAVA_HOME.

Component	Supported Version	Notes
	MEC_CLASSPATH variable	MEC_CLASSPATH setting must be completed for the Partner Admin and Flat File Definition tools to run properly.
		MEC_CLASSPATH contains the sql jdbc driver that the tool will use to connect to the database.
Others	IBM WebSphere MQ 8.5 (MQ Series Channel compatibility)	These are optional third party components.
	Windows version 5.6 for scripting host.	If these channel types are needed, refer to the third party installation guide.
	MSMQ Windows Component version 4.0	MSMQ is optional, but if used, will require MSMQ-W for its functionality.
		MSMQ is optional but if used, will require MSMQ-W for its functionality. This is used by Partner Admin Tool when sending a test message with MSMQ protocol.

Setting the Client System Properties

Use this procedure to configure the required system properties for the Partner Administration and Flat File Definition MEC Client tools. These configurations are also used by the MEC Server.

Before you start

- You must have Administrator credentials to configure the system software settings indicated here.

- To access the Environment Variables window, click on the Windows icon and type **Environment Variables** on the Windows search field.

- When setting Environment Variables, check first if the variable is already listed. Then click Edit to add the corresponding value using (;) semi-colon as value delimiter. Otherwise, click New to create the variable.

❏ **Set the MEC_CLASSPATH variable**

___**1** Access the Environment Variables window.

___**2** On System Variable group, click New to set the **MEC_CLASSPATH** system Variable.

The New System Variable window is displayed.

___**3** On the Variable name field, type **MEC_CLASSPATH**.

___**4** On the Variable value field, type the absolute path to the Microsoft SQL Server JDBC Drivers files where a jar file named **sqljdbc.jar** is located.

Important: Whitespaces are not allowed in **MEC_CLASSPATH** folder name.

For example, Java version 1.5: **c:**MS_DRIVER_LOCATION**\sqljdbc.jar**

For example, Java version 1.7: **c:**MS_DRIVER_LOCATION**\sqljdbc4.jar**

___**5** Click OK to finish.

❏ **Set the JAVA_HOME variable**

___**1** Access the Environment Variables window.

___**2** On System Variable group, click New to set the **JAVA_HOME** system Variable.

The New System Variable window is displayed.

___**3** On the Variable name field, type **JAVA_HOME**.

___**4** On the Variable value field, type the root path of the current Java installation.

For example: **C:\PROGRA~1\Java\jdk1.7.0_17**

Tip: To check the current the java version number installed, run the following DOS-command: **%JAVA_HOME%\bin\java.exe -version**

___**5** On the system variable window, click OK to finish.

MEC Utilities Client

MEC utilities are used by Lawson's standard EDI and e-Banking maps. It provides added functionalities for ION Mapper, such as data translation and data formatting.

Important: For changes to take effect, restart (stop and start) MEC application before starting a new one.

For MEC Utility type and delivery, see the table below:

Type	Delivery
MEC Utilities	For MEC version 9.1.3.1 to latest, MEC Utilities is delivered in two parts. • **MEC Utilities Server** runs on Grid. This is delivered with the MEC Server installation. • **MEC Utilities Client** stand-alone on client. This is delivered in a separate zip file with MEC tools product.
MEC Utilities Javadoc	This part of MEC Utilities is delivered with MEC Utilities Client.

❏ **Pre-Installation checklist**

___**1** Set the MEC_CLASSPATH variable.

___**2** Set the JAVA_HOME variable.

For more information, see "Setting the Client System Properties" on page 38.

❏ **Installation**

___**1** Un-zip MEC Utilities Client *<current_version>*.zip to a local folder.

___**2** To view the user documentation for the utility Java classes, use the html document:

*<Installation folder>***\Documentation\MEC Utilities\Javadoc\index.html**

MEC Utilities Client uses `ecUtilClient.properties` property file in the installation folder. If you have already used earlier versions, you must enter the MEC database properties in `ecUtilClient.properties` just as you would do it on `ec.properties` in earlier versions of MEC.

Here are some of the important properties that should be consider when using MEC utilities.

Details of `ecUtilClient.properties`:

```
  # Server database settings
Database.ConnectionPool.Driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
Database.ConnectionPool.URL=jdbc:sqlserver://*COMPUTER-NAME*
Database.ConnectionPool.Auto=0
Database.ConnectionPool.User=*USER*
Database.ConnectionPool.Password=*PASSWORD*
# if you db has a - in it's name you need to specifiy it as "MEC-Storage"
# instead of MEC-Storage.
Database.ConnectionPool.Catalog=*DATABASE NAME*
Database.ConnectionPool.Schema=dbo

where:
   *COMPUTER-NAME* - host of the database machine
   *USER* - login user of the database
   *PASSWORD* - password for the login user on the database
   dbo - schema used by the database
   *DATABASE NAME*  -  database name
         Note:  If the database name has '-' (dash) in between,  double quote them together.
               eg.   Database.ConnectionPool.Catalog="MEC-Storage"
```

eg.   MEC_Storage has '_' (underscore) so double quote is not used.
Database.ConnectionPool.Catalog=MEC_Storage

❏   MEC Utilities configuration

Important: This procedure applies only if the utility class **StringReplacer** is used.

___**1** Add an ad hoc property "**StringReplacer.Repository**" in MEC grid:

StringReplacer.Repository=repository/StringReplacer

For more information, see "MEC Utilities Client" on page 39.

___**2** Create a sub-folder in the Central File Folder of MECApplication(MEC Server).

The MEC application property **mec.central.file.path** will contain the path to the Central File Folder.

For example, sub-folder: *<Central File Folder>*\repository\StringReplacer

Note: The folder name must be equal to the parameter value provided in step 1.

If the absolute path is specified in the **mec.central.file.path** property, the Central File Folder is located in the Central File Access (CFA) node host.

___**3** Copy the **StringReplacer repository** files in the folder.

These repository files can be delivered either with the e-Banking maps, or with the one that you have created.

___**4** Restart the MEC application in Grid.

Property	Data	Description
StringReplacer. Repository	**repository/ StringReplacer**	Specifies the path to where the **StringReplacer** repository files reside.

For more information on **StringReplacer.Repository**, see the following:

<Installation folder>\Documentation\MEC
Utilities\Javadoc\com\intentia\ecutil\util\StringReplacer.html

❏   Add an ad hoc property

___**1** Access MEC Configuration page and click the link to **Edit Properties.**

___**2** Scroll down and click **Add ad hoc Property**.

The Create Property window is displayed.

___**3** On the Name field, type a property name.

For example, **StringReplacer.Repository**

___**4** Select a type to use.

For example, String value or List of string values.

___**5** Select any of the following:

- Environment Variable - to expose this property as you would an environment variable.

- JVM System Property - to expose this property as you would a JVM system property.

___**6** Click OK.

A new page opens "Property:*<StringReplacer.Repository>*.

___**7** Click the link to **<empty>** right underneath the title **Any Host**.

The Edit Property window is displayed.

___**8** On the Value field, type a value.

For example: *repository\StringReplacer*

___**9** Click Save.

__**10** Click the Save icon to update the new ad hoc property.

__**11** At the Save Configuration Changes prompt, verify the changes and click Save.

Your new ad hoc property is now added.

❏ **Advanced configuration**

Important: The following procedures are applicable only if you are using **PersistentObject** utility class.

___**1** If you are upgrading MEC ensure that all dependent maps using **PersistentObject** has completed running. This is to ensure that no data in **PersistentObject** will need to move to the new version.

___**2** If you are upgrading MEC and you need to move old persisted data from **PersistentObject.dta** file to MEC database, then you must download a specific migration program from **Infor.com** utilities download section.

For more information on **PersistentObject**, see the following:
<Installation folder>\Documentation\MEC
Utilities\Javadoc\com\intentia\ecutil\util\PersistentObject.html.

❏ **Verifying the installation**

___ Run the command file **UtilVersion.cmd** in the installation folder.

For successful MEC Utilities installation, it will display the following:

Note: The version numbers shown may be higher.

```
==================================================================
M3 Enterprise Collaborator utilities version: 9.1.3.1
Can be used with M3 Enterprise Collaborator version 9.1.3.1 or higher
==================================================================
Press [Enter] to exit
```

You can also run the cmd files for MEC utilities, for example:

- **EDIDateConverter.cmd**

- Or, **DataTranslator.cmd**

For more information on **StringReplacer.Repository**, see the following:
<Installation folder>\Documentation\MEC Utilities\Javadoc\index.html.

❏ **Uninstallation**

___**1** Delete the files from extracted folder to uninstall the MEC Utilities Client.

___**2** Verify that the MEC Utility Client files no longer exists in the folder.

MEC Client Tools Installation

7

Use these procedures to install the client tools of MEC.

Important:
- Path names must not contain blank spaces. If there are blank spaces, enclose the path name in double quotes (") to avoid installation error.

- Application names must not contain blank spaces.

Partner Administration Tool

Use these procedures to install the Partner Administration (PA) client tool of MEC.

Partner Administration Tool Installation Checklist

Ensure that the following checklist is completed before proceeding with the Client Tools installation in Microsoft Windows environment.

___**1** Complete the Client Software requirements.

___**2** Set the correct system paths.

___**3** Install the required third party software.

___**4** Install Partner Admin Tool.

___**5** Configure the database and database user settings in the properties file.

___**6** Verify the Partner Administration Tool installation.

Need More Details? Check out the following concepts:

- For instructions on how to install third party software, refer to the installation guide of the specific product.

Installing Partner Administration Tool

Use this procedure to automatically install MEC Partner Administration Tool.

Important: MEC now supports namespaces. The target `xpaths` for existing detections may not match the actual namespace-aware input documents. The patch installation only upgrades the `MBM` specific targets since this information is standard for M3. Custom target definitions must be updated.

❑ **Installing Partner Admin Tool**

___**1** Launch the PartnerAdmin.msi file.

___**2** On the Welcome dialog click Next.

___**3** On the Setup dialog:

Click Next to accept the default destination folder installation.

- or -

Click Browse to find your destination folder and click Next.

___**4** Click Next to start the installation.

___**5** Click Finish to complete the installation and close the Setup program.

Database and Log4j Configurations

Database Settings

When starting the Partner Administration Tool for the first time, the Database Settings dialog will be displayed. Database settings are configured through this dialog.

🔍 **Need More Details?** Check out the following concepts:

- For more information on how to set the Database, see *M3 Enterprise Collaborator Partner Admin Tool User Guide*.

Log4j

For more information on how to set the log4j properties, see the third party documentation on Log4j.

Verifying Partner Administration Tool Installation

___**1** Verify that the Partner Admin Tool starts without error.

___**2** Verify that the installed version, release, and service pack details is the latest.

ION Mapper Tool

Use these procedures to install the ION Mapper client tool of MEC.

- "ION Mapper Tool Pre-installation Checklist" on page 46
- "Installing ION Mapper Through LCM" on page 47

ION Mapper Tool Pre-installation Checklist

Use this checklist when installing the ION Mapper client tool.

___**1** Complete the Client Tools Software prerequisites.

"Client Tools Software Prerequisites" on page 36

___**2** Complete the System Path configurations.

___**3** Install the ION Mapper client tool.

___**4** Set the Mapping Connections.

"ION Mapper Settings" on page 48

___**5** Verify the ION Mapper tool installation.

Need More Details? Check out the following concepts:

- For instructions on how to install third party software, refer to the installation guide of the specific product.
- For more information on Eclipse, see the notes in "Client Tools Software Prerequisites" on page 36

Installing ION Mapper Through LCM

Use these procedures to install ION Mapper through Lifecycle Manager.

If you are using an earlier version of ION Mapper, you can proceed to update your installation. For more information, see "Updating ION Mapper" on page 57.

❏   **Upload ION Mapper to LCM**

___**1** Log on to LifeCycle Manager as administrator.

___**2** On LCM menu, select Admin > Upload Products.

The Manage Products tab is displayed by default.

___**3** Click Upload.

___**4** Locate the folder containing the zipped file of ION Mapper for LCM product and select *M3_Enterprise_Collaborator_Mapper_<current_version>*.zip

___**5** Click Open.

___**6** On the Verifying Package window, click Yes to accept to register the packages on the LifeCycle Manager Server.

___**7** When the task is finished, a window is displayed. Click OK.

❏   **Install ION Mapper through LCM's update site**

___**1** Access the LifeCycle Manager Server's http site.

Use the format: `http://<LCMServer>:<LCMServer_http:port>`

For example: `http://10.20.30.40:4062`

___**2** Click the link to "Update site for Eclipse based Infor products".

You will be directed to, `http://<LCMServer>:<LCMServer_http:port>/eclipseproducts`.

The page contains the following information:

- Eclipse plugin site location

- Eclipse product repositories uploaded to LCM

___3 Start Eclipse and select Help > Install new Software.

___4 On the Available Software window, click Add.

The Add Repository window is displayed.

___5 On **Name** field, type a name for the tool, for example:`<MAPPER_INSTALL>`

___6 On **Location** field, type the Eclipse plugin site location from step 2.

___7 Click OK.

The Available Software window is back on display.

___8 Select the newly created site.

___9 Select the ION Mapper check box.

___10 Click Next.

The Install window is displayed.

___11 Click Next.

The Review License window is displayed.

___12 Select to Accept the license agreement and click Finish.

___13 On the Software Update window, click Yes.

The Mapper files are now uploaded on Eclipse and the workbench is restarted.

❏ **Verify ION Mapper installation**

___1 Verify that the "Mapping Development" perspective is displayed. If not, then open it.

___2 When prompted for an ION Mapper password, type a user password.

The login will stay in effect while the ION Mapper is running.

For more information, see "ION Mapper Password" on page 49..

ION Mapper Settings

Use these procedures to set the required ION Mapper connectivity and settings.

- "Configuring ION Mapper Memory Settings" on page 49
- "ION Mapper Password" on page 49
- "Setting the API Connectivity" on page 50
- "Setting the Database Connectivity" on page 52

- " Setting the Server Connectivity" on page 54
- "Setting the SQL Connectivity" on page 57
- "Updating ION Mapper" on page 57

Configuring ION Mapper Memory Settings

This procedure explains how to configure the memory setting to help you to accomplish the important task of ensuring that ION Mapper has sufficient amounts of memory. The maximum memory setting controls the highest memory amount that can be allocated at the start.

___1 Create a shortcut lonk to the <MAPPER_Install_Folder>/eclipse.exe file.

___2 Edit the Target property of the link following this format:

`<MAPPER_Install_Folder>/eclipse.exe -vmargs -Xms<MIN>m -Xmx<MAX>m`

where:

- MIN - is the minimum amount of RAM in megabytes, for example 512
- MAX - is the maximum amount of RAM in megabytes, for example 1000

Example Target format: `IONMapper/eclipse.exe -vmargs -Xms512m -Xmx1000m`

ION Mapper Password

When you start ION Mapper with the Mapping Development perspective, you will be prompted for a password used to secure connection passwords. The login will stay in effect while ION Mapper is running. If you cancel, or forgot your password, you can still log in but with limited access to connections. When this happens, you must reset your password.

Resetting passwords

Important: After you reset the Mapper Security password, ensure that you re-type all your connection passwords to avoid connection error. This is needed because the passwords must be encrypted using the new password. If you omit to do this the old password/(s) will fail.

___1 On Eclipse menu, select Window > Preferences.

___2 Expand the view of Mapper and select Security.

   Security details are displayed in the right pane.

___3 Read the instructions and click Set New Password.

___4 At the confirmation prompt, click OK.

___**5** On ION Mapper Security Login, type a new password. Repeat this password.

___**6** At the Successful password reset prompt, click OK.

___**7** Click OK to exit the Security preference window.

Password encryption and Export/Import connections

Passwords set in connection preferences are encrypted using a random key when stored on disk. This means that, if you export your connection settings to another Mapper you must re-type the passwords after the import. This is needed because the passwords must be encrypted using the new password. If you omit to do this the old password(s) will fail.

Setting the API Connectivity

Use these instructions to set the M3 MI API connectivity in ION Mapper. The API connectivity is needed only if the MI feature will be used, for example, the M3 API messages in a mapping.

❏ **Set new M3 API connectivity**

___**1** On Eclipse menu, select Window > Preferences.

___**2** On Preferences window, select ION Mapper > **M3 API Connectivity**.

The M3 API Connectivity pane is displayed.

___**3** Click New.

___**4** On the New window, consider the following fields:

Alias	Type a descriptive name for this connection.
Host	Type the host name or IP of the server where M3 Business Engine runs.
Port	Type the port number of the M3 Business Server to connect to M3 Interface (MI) programs. Use the port number indicated in the property `boot.batchdispatcher.port`, in M3 Properties file. **Note:** If the port data is not valid, a message appears at the bottom of the window.
Username	Type an M3 user name for the API communication. This user will establish the environment (M3 database), company and division, and other details for the API calls.
Password	Type the M3 user password.

___**5** Click OK.

Your new M3 MI API connection is now listed in the Configured M3 API locations.

___**6** Optional: Select your new M3 MI API and click Test Connection.

Perform this connection check to avoid problems in runtime and when you generate mappings.

___**7** At the Connectivity Test prompts, click OK to proceed.

Note: Click **Make Default** to set this as the default connection to use.

___**8** Click OK.

Note: To discard all changes made in this session, click **Cancel** before you save the settings.

❏   **M3 API connectivity tasks**

Perform the following tasks from the M3 API Connectivity window.

Task	Steps
Edit an existing M3 API connection	___**a** Select a connection to modify and click Edit.
	___**b** On the New window, update the field values and click OK.
	___**c** Verify that the new connection is listed under the Configured server locations.
Remove an M3 API connection	___**a** Select a connection to disconnect and click **Remove**.
	___**b** Verify that the removed connection is no longer listed under the Configured server locations.
Set a default connection	___**a** Select an M3 API and click **Make Default**.
	This will make operations requiring an M3 API connection to use this by default.
	___**b** Verify that the connection is now listed as the Default location.
Test a connection	**Important:** This action will only verify the connection to the M3 API instance.
	Connection error message is displayed if the machine is unavailable or if a wrong ip/host address is defined.
	___ Select an M3 API to test and click **Test Connection**.

Setting the Database Connectivity

One database server can run several copies of the SQL Server code simultaneously, those are called instances. In the simplest case it can be viewed as different database servers hosted on the same IP address. An instance name can, for example, be "**production**".

Database is a collation of tables, views, and others.

Schema is a way to structure database tables, it can be thought of as different "**folders**".

One can have **Schema_1.Table** and **Schema_2.Table**. The default SQL Server schema is **dbo** (Data Base Owner). The overall structure is thus, **DB_Server_Name\DB_Instance\DB_Name\ Schema\Table**

___1 On Eclipse menu, select Window > Preferences.

___2 Expand the view of ION Mapper and select **Database Connectivity**.

The Database Connectivity pane is displayed.

___3 Click New.

___4 On the New window, consider the following fields:

Alias	Type a descriptive name for this connection.
Host	Type the IP address, or the host name, for the SQL Server.
Instance	Type the name for the SQL Server instance. Default SQL Server instance name is blank.
Database	Type the host database name to access.
	For ION, always use the database name **INFORIONMapper**.
	For MEC, use the MEC database, for example, **MEC_Storage**.
Schema	Type the name of the database table schema. For MSQL database, type "**dbo**"
Port	Type the port number of the SQL Server.
	Note: Type the port number **-1** if you are using a named SQL Server instance.

Important: Ensure that you typed the database names using the proper letter case, for example if the database is named "**MyMecDatabase**" do not type "**mymecdatabse**" or variations there of. Wrong use of letter case can affect the ability to handle name space prefix names that are longer than 16 characters in XML schemas and storing schema categories in the database.

___5 Click on **Facts...** to verify the following:

- **Max Name Space Prefix Length** is **256** characters
- **Support Schema Categories** is supported (true).

- **Version Properties** is supported (true).

___**6** Type the username and password to access the database

❏   **Default Database Connection Preference**

In addition to manually creating database and server connections through the ION Mapper preferences, the Mapper can be pre-configured with a connection of each type Through the mapper.properties file. This is useful in the context of a Mapper installation where you want the user to have access to a mapping database and server immediately after the install.

❏   **Database connectivity tasks**

Perform the following tasks from the Database Connectivity window.

Task	Steps
Edit an existing database connection	___**a** Select a database connection and click Edit. ___**b** On the New window, update the field values and click OK. ___**c** Verify that the new connection is listed under the Configured database locations.
Remove a database connection	___**a** Select a database to disconnect and click **Remove**. ___**b** Verify that the removed connection is no longer listed under the Configured database locations.
Set a default connection	___**a** Select a database and click **Make Default**. This will make operations requiring a database connection, for example "Save To Database", to use a connection as default. ___**b** Verify that the connection is now listed as the Default location.
Export or Import database	This selection allows direct action on a mapping database. This means export/import of mappings to a database without having to work through a Mapping project. **Export** - opens a wizard that lets you select a destination folder and the mappings to export. **Import** - open a wizard the lets you select a source folder with exported mappings.

Task	Steps
Test a connection	**Important:** This action will only verify the connection to the SQL Server instance. It does not verify that the denoted database actually is accessible. This can to some extent be verified through the "Facts" option.
	Connection error message is displayed if the machine is unavailable or if a wrong ip/host address is defined.
	___ Select a database to test and click **Test Connection**.
See more database information	___**a** Select a database to investigate and click **Facts...**.
	___**b** The database facts window displays the retrieved data about database constraints.
	This is mainly used to investigate error messages when saving to database.
Copy To Clipboard	This option copies the values of a connection to the system clip board.
	Use this to paste the information into a mail, or similar, when needing to share information with a college or alike.
	Important: The password of the connection is also copied in clear text so be aware and strip that from mail, and others, if needed.

Setting the Server Connectivity

Use this procedure to define one or more connections to be able to generate and publish a mapping to a Mapper Server.
For more information on Server setting tasks, see *M3 Enterprise Collaborator Mapping Manager Tool User Guide*.

❏   **Set a new server connection**

___**1** On Eclipse menu, select Window > Preferences.

___**2** On Preferences window, select ION Mapper > **Server Connectivity**.

The Server Connectivity pane is displayed.

___**3** Click New.

___**4** Select the Connection Type:

For MEC - select Socket

For ION - select HTTP

___**5** Consider the following fields:

Fields	SOCKET fields description	HTTP fields description
Connection Type	For MEC, select **Socket** connection type.	For ION, select **HTTP** connection type.
Alias	Type a descriptive name for this connection.	
Generator Host or URL	**HOST** Type the IP, or the host name, of the Mapper Generator host.	**URL** The URL format depends on the generator and can be obtained from a Server administrator along with a username/password, if required. See this example: `http://<hostname>:` `<portnumber>/mapengine/` `v1/mapping`
Generator Timeout (ms)	This defines the time in milliseconds that a Mapper waits for the Server messages before it rules a broken server connection. Type a number for example, 5000	
Socket Settings: Generator Port	Type the port of the MEC Generator. **Note:** To get the MEC Generator IP address and the port used by MEC Server, access the MEC Configure Application page in MEC Grid Application properties. For more information, see MapGen Server Configuration section in *M3 Enterprise Collaborator Administration Guide*.	n/a
HTTP Settings: Username and Password	n/a	Type the user name and password to access the Mapper Generator host.

___**6** Click OK.

Your new connection is now listed in the Configured server locations.

> **Note:** To discard all changes made in this session, click **Cancel** before you save the settings.

❏   **Server Connectivity tasks**

Perform the following tasks from the Database Connectivity window, then click OK.

Task	Steps
Edit an existing server connection	___**a** Select a server to modify and click Edit.
	___**b** On the New window, update the field values and click OK.
	___**c** Verify that the new connection is listed under the Configured server locations.
Remove a server connection	___**a** Select a server to disconnect and click **Remove**.
	___**b** Verify that the removed connection is no longer listed under the Configured server locations.
Set a default connection	___**a** Select a database and click **Make Default**. This will make operations requiring a sever connection, for example "Generate", to use a connection as default.
	___**b** Verify that the connection is now listed as the Default location.
Copy To Clipboard	This option copies the values of a connection to the system clip board. Use this to paste the information into a mail, or similar, when needing to share information with a college or alike. **Important:** The password of the connection is also copied in clear text so be aware and strip that from mail, and others, if needed.
Test a connection	**Important:** This action will only verify the connection to the SQL Server instance. It does not verify that the denoted database actually is accessible. This can, to some extent, be verified through the "Facts" option. Connection error message is displayed if the machine is unavailable or if a wrong ip/host address is defined. ___ Select a database to test and click **Test Connection**.

Setting the SQL Connectivity

Use these procedures to define one or more MEC Generator connections to be able to generate and publish a mapping to a Mapper Server.

___1 On Eclipse menu, select Windows > Preferences.

___2 On Preferences window, select ION Mapping > **SQL Database Connectivity**.

The SQL Database Connectivity window is displayed.

___3 Consider the following fields:

JDBC Driver Class	This is the Java class for the JDBC driver, usually contains: `net.sourceforge.jtds.jdbc.Driver`
JDBC URL	**Note:** Do not add a database name to the URL.
	This is the connection URL to your database server,
	following the format: `jdbc:jtds:sqlserver://SERVER_IP:SERVER_PORT`,
	for example: `jdbc:jtds:sqlserver://10.20.30.40:1433`
User	The user name to connect to database.
Password	The password to connect to database.
Catalog	The database name you want to connect to.
Schema	The schema name where the database objects are located.

___4 Optional: Click **Test Connection** to test the new connection.

This action will only verify the connection to the SQL Server instance. It does not verify that the denoted database actually is accessible. This, to some extent, can be verified through the "Facts" option.

___5 Click Apply to save the connection settings.

___6 Click OK to close the SQL Database Connectivity window.

Updating ION Mapper

Use these procedures to update your ION Mapper to the latest available version.

❏ **Add update sites**

Use this procedure to add LCM as Mapper update site.
___1 On Eclipse menu, select Help > Install New Software.

The Available Software window is displayed.

___**2** Click the link **Available Software Sites**.

The Preference window is displayed.

___**3** In the Available Software Sites pane, click Add.

___**4** On the Add Site window, consider the following fields:

Name	Type a descriptive name for this site.
Location	Type the path to the LifeCycle Manager Server's http site. Use the format: `http://<LCMServer>:<LCMServer_http:port>` For example: `http://10.20.30.40:4062`

___**5** Click OK to add the new site.

___**6** Select the newly created site and click **Reload** then click OK.

___**7** Click OK. This will bring you back to the installation window.

❏   **Update Mapping Manager**

___**1** On Eclipse menu, select Help > Install New Software.

The Install window is displayed.

___**2** In the **Work with** field, select the LifeCycle Manager Server's http site.

___**3** In the Name list, select and expand the view of **ION Mapper**.

___**4** Select the ION Mapper features.

___**5** Click Next.

The Install Details window is displayed with update status.

___**6** Click Next.

The Review Licenses window is displayed.

___**7** Select to accept the license agreement terms and click Finish.

___**8**
Important: Applying the changes without restarting will cause update errors.

At the Software Updates prompt, click Restart Now to effect all changes.

Eclipse is restarted and your Mapping Manager is now updated with the latest product version from the LCM update site.

Flat File Definitions Tool

Use these procedures to install the Flat File Definitions (FFD) client tool of MEC.

- "Flat File Definitions Tool Installation Checklist" on page 59
- "Installing Flat File Definitions Tool" on page 59
- "Configuring the Database Connection" on page 60
- "Changing the Folder for Storing Definitions" on page 62
- "Restoring the Default Settings and Log4j" on page 63
- "Verifying Flat File Definitions Tool Installation" on page 63

Flat File Definitions Tool Installation Checklist

Ensure that the following checklist is completed before proceeding with the Client Tools installation in Microsoft Windows environment.

___**1** Complete the Client Software prerequisites.

___**2** Complete the System Path configurations.

___**3** Configure the database and database user settings in the properties file.

___**4** Install Flat File Definitions Tool.

___**5** Verify the Flat File Definitions Tool installation.

Need More Details? Check out the following concepts:

- For instructions on how to install third party software, refer to the installation guide of the specific product.

Installing Flat File Definitions Tool

Use this procedure to automatically install the new version of MEC.

❏ **Installing Flat File Definitions Tool**

___**1** Launch the FlatFileDefTool<version> file.

___**2** On the Welcome dialog, click Next.

___**3** On the Setup dialog:

- Click Next to accept the default destination folder installation.

  - or -

- Click Browse to find your destination folder and click Next.

___4 Click Next to start the installation.

___5 Click Finish to complete the installation and close the Setup program.

Configuring the Database Connection

The settings for the Flat File Definitions Tool are in an XML file FlatfileGUIIni.xml. This file is in the tool's installation folder.

Before you start Close the Flat File Definitions tool before you configure the settings in the FlatFileGUIIni.xml file.

___1 Open the file FlatfileGUIIni.xml in XML or a text editor of your choice:

```
<?xml version="1.0" standalone="yes"?>

<FlatFileGuiIni>
  <Language>en</Language>
  <FlatFileRepositoryManager>
   <Databases>
    <Database>
      <Driver>com.microsoft.sqlserver.jdbc.SQLServerDriver</Driver>
      <URL>jdbc:sqlserver://*COMPUTER-NAME*</URL>
      <User>*USER*</User>
      <Password>*PASSWORD*</Password>
      <Catalog>*DATABASE NAME*</Catalog>
      <Schema>dbo</Schema>
    </Database>
   </Databases>
  </FlatFileRepositoryManager>
</FlatFileGuiIni>
```

___2 Configure the database connection settings by editing the following block of XML:

```
<Database>
  <Driver>com.microsoft.jdbc.sqlserver.SQLServerDriver</Driver>
  <URL>jdbc:microsoft:sqlserver://#HOST#</URL>
  <User>#USER#</User>
  <Password>#PASSWORD#</Password>
  <Catalog>#CATALOG#</Catalog>
  <Schema>dbo</Schema>
</Database>
```

___3 Configure the database connection, consider the following field guidelines:

URL	Type the host name or IP address of the MEC*<version>* database server.
	To setup a connection to a named SQL Server instance, use the port number of the instance.
	Example:
	`<URL>jdbc:microsoft:sqlserver://MyMachine:1434</URL>`
User	Type the name of the SQL server user.
Password	Type the password for the SQL server user.
Catalog	Type the name of the MEC*ver* Database on the host.

___**4** For additional database connections, create another block of XML tags:

```
<Database>
 <Driver>com.microsoft.jdbc.sqlserver.SQLServerDriver</Driver>
 <URL>jdbc:microsoft:sqlserver://HOST1</URL>
 <User>User1</User>
 <Password>Password1</Password>
 <Catalog>Database1</Catalog>
 <Schema>dbo</Schema>
</Database>
<Database>
 <Driver>com.microsoft.jdbc.sqlserver.SQLServerDriver</Driver>
 <URL>jdbc:microsoft:sqlserver://HOST2</URL>
 <User>User2</User>
 <Password>Password2</Password>
 <Catalog>Database2</Catalog>
 <Schema>dbo</Schema>
</Database>
```

The configured XML should look like this:

```
<?xml version="1.0" standalone="yes"?>
<FlatFileGuiIni>
   <Language>en</Language>
  <FlatFileRepositoryManager>
  <Databases>
   <Database>
    <Driver>com.microsoft.jdbc.sqlserver.SQLServerDriver</Driver>
    <URL>jdbc:microsoft:sqlserver://HOST1</URL>
    <User>User1</User>
    <Password>Password1</Password>
    <Catalog>Database1</Catalog>
    <Schema>dbo</Schema>
   </Database>
   <Database>
    <Driver>com.microsoft.jdbc.sqlserver.SQLServerDriver</Driver>
    <URL>jdbc:microsoft:sqlserver://HOST2</URL>
    <User>User2</User>
    <Password>Password2</Password>
   </Database>
  </Databases>
  </FlatFileRepositoryManager>
</FlatFileGuiIni>
```

Changing the Folder for Storing Definitions

When editing a Flat File Definition already stored in the Flat File Repository, a temporary file is created on local disk while editing Definitions.

This folder can be customized by editing the file FlatfileGUIIni.xml.

Important: The default value for the `UnderEditFolder` setting is the path to the profile of the user currently logged on in Windows. If multiple users will work with the tool, modify the `UnderEditFolder` property to point to a folder that is accessible to all tool users.

___**1** Open FlatfileGUIIni.xml file in XML or a text editor of your choice.

```
<?xml version="1.0" standalone="yes"?>
<FlatFileGuiIni>
 <Language>en</Language>
 <FlatFileRepositoryManager>
  <Databases>
   <Database>
   <Driver>com.microsoft.jdbc.sqlserver.SQLServerDriver</Driver>
   <URL>jdbc:microsoft:sqlserver://HOST1</URL>
   <User>User1</User>
   <Password>Password1</Password>
   <Catalog>Database1</Catalog>
   <Schema>dbo</Schema>
   </Database>
  </Databases>
  </FlatFileRepositoryManager>
</FlatFileGuiIni>
```

___**2** Add the following XML line after the Database tags.

```
<UnderEditFolder>C:\Temp</UnderEditFolder>
```

The configured XML should look like this:

```
<?xml version="1.0" standalone="yes"?>
<FlatFileGuiIni>
 <Language>en</Language>
 <FlatFileRepositoryManager>
  <Databases>
   <Database>
   <Driver>com.microsoft.jdbc.sqlserver.SQLServerDriver</Driver>
   <URL>jdbc:microsoft:sqlserver://HOST1</URL>
   <User>User1</User>
   <Password>Password1</Password>
   <Catalog>Database1</Catalog>
   <Schema>dbo</Schema>
   </Database>
  </Databases>
  <UnderEditFolder>C:\Temp</UnderEditFolder>
  </FlatFileRepositoryManager>
</FlatFileGuiIni>
```

___**3** Save and close the configured FlatfileGUIIni.xml file.

Restoring the Default Settings and Log4j

Use this procedure to restore the factory settings in Flat File Definition Tool.

Before you start Close the Flat File Definition tool before modifying any FlatfileGUIIni.xml settings.

Important: Do not remove the file FlatfileGUIIni.xml. If you accidentally removed the file, run then exit the Flat File Definition tool. The FlatfileGUIIni.xml file will be recreated as new.

❏ **Restore the default settings**

___**1** To restore the factory settings, remove the settings added in the file FlatfileGUIIni.xml

___**2** To reset all the settings, remove all the contents of the file but do not remove the actual file.

❏ **Configure Log4j in Flat File Definitions Tool**

___ For more information on how to set the log4j properties, see the third party documentation on Log4j.

Verifying Flat File Definitions Tool Installation

Use these procedures to verify the completeness of Flat File Definitions Tool installation.

❏ **Verify the Repository Manager**

___**1** Start the Flat File Repository Manager.

___**2** Verify that the Repository Manager starts with no error.

❏ **Verify the Flat File Describer**

___**1** Start the Flat File Repository Manager.

___**2** On the Repository Manager, right click on Local definitions view > New Flat File Definition.

___**3** Verify that the Flat File Describer starts with no error.

❏ **Verify importing a Flat File Definition into the Repository**

Important: The Flat File Definition tool can be used offline with no database connection. Use this procedure only when there is an existing database connection. Otherwise, this verification is not valid.

___**1** Start the Flat File Repository Manager.

___**2** On Definitions in repository view, right-click on a selected definition > Check out.

___**3** Verify that the Definition is imported into the Repository with no error.

MEC Client Uninstallation

8

Use these procedures to uninstall the MEC client tools.

Uninstalling MEC Client Tools

Use these procedures to uninstall from your computer the files that were created when MEC Mapping Manager, Partner Admin, and Flat File Definitions tools were installed.

Before you start Ensure that the application tool to uninstall is not currently running.

❏ **Uninstalling Partner Administration tool**

___**1** Access the Windows Control Panel, select Programs and Features.

___**2** Select **MEC Partner Admin** from the list of installed programs.

___**3** Right-click > Uninstall.

___**4** At the Program and Features uninstall prompt, click Yes.

❏ **Uninstalling Flat File Definitions tool**

___**1** Access the Windows Control Panel, select Programs and Features.

___**2** Select **MEC Flat File Definition Tool** from the list of installed programs.

___**3** Right-click > Uninstall.

___**4** At the Program and Features uninstall prompt, click Yes.

Note: To complete the uninstallation, manually search and delete the application data such as Flat File Definitions, generated sample files (XML, Schema, flat), template files, and files from the repository being edited. For more information, see the `UnderEditFolder` setting in FlatFileGUIIni.xml.

❏ Uninstalling Mapping Manager tool

___**1** On Eclipse menu, select Help > Install New Software.

The Install window is displayed.

___**2** Click the link to What is**already installed?**.

The Eclipse Installation Details window is displayed. By the default, the Installed Software tab is opened.

___**3** Select the following MEC Mapping Manager components to uninstall, one at a time:

Component	Description
Lawson MEC Mapper Core Feature	Always required and contains a basic Mapping Manager.
Lawson MEC Mapper M3 API Feature	Optional and adds the possibility to use M3 API's as mapping functions.
Lawson MEC Mapper SQL Feature	Optional and adds the possibility to use database stored procedures as mapping functions.

___**4** Click Uninstall.

The Uninstall Details window is displayed. Review and confirm the items to uninstall.

___**5** Click Finish.

Note: To complete the uninstallation task:
- perform steps 3-5 until all Mapper features are uninstalled.

- manually search and delete the application data such as schemas, mappings, and temporary files. The temporary files are stored in the path described in the Map path setting.

Upgrading MEC Grid

9

Use these procedures to upgrade the MEC database and application server.

Note: You can upgrade MEC application server starting from 9.1.3.0 version only.

- "Upgrading MEC Database" on page 67
- "Upgrading MEC Server " on page 68

Upgrading MEC Database

Before upgrading your previous version of MEC application, you must first upgrade the MEC database. Use this procedure to upgrade your MEC database.

Important:
- MEC Application must be stopped before performing upgrade.
- If you are installing MEC application in grid for the first time, you will need to install the corresponding MEC database in grid. "Installing MEC Database" on page 19

___**1** On LifeCycle Manager, go to Applications tab.

___**2** Select and expand the view of Microsoft SQL Server where your *<MEC MSSQL instance>* is installed.

___**3** Right-click on the MSSQL instance where your MEC DB is running.

___**4** Select *<MSSQL instance>* > M3 Enterprise Collaborator *<version>* > **Upgrade MEC Database**.

Replace *<version>* with the latest available version. For this release, use version 10.4.0.0

___**5** On Upgrade MEC Database window, consider the following fields:

Note: Use the details you defined when you first installed the DB that you are now upgrading. "Installing MEC Database" on page 19

Admin user	Type the username for the database user with administrator access.
Password	Type the corresponding password for the database user.

___**6** Click Next.

___**7** On the Summary page, click Finish.

___**8** When the upgrade is completed, a success dialog is displayed, click OK.

Upgrading MEC Server

If you already have a previous version of MEC application and would need to upgrade to the latest version, you should first upgrade the MEC database before upgrading the MEC application.

Use this procedure to upgrade your MEC application starting from release 9.1.3.0 only, to the latest version release.

Important: MEC Application must be stopped before performing upgrade.

Replace *<version>* with the latest available version.

___**1** Download the latest MEC grid version.

___**2** Upload the latest MEC grid version to LifeCycle Manager.

"Uploading MEC to LifeCycle Manager" on page 15

___**3** On LifeCycle Manager Client page, go to Applications tab.

___**4** Locate and expand the Grid host containing MEC *<version>* application to upgrade.

Important: Do not perform the upgrade task from: *<MEC Application Name >* > Lawson Grid *<version>* > Application Maintenance. It only applies to CCSS/orbit hotfixes/gridfixes.

___**5** Right click on *<MEC Application Name>* > M3 Enterprise Collaborator *<version>* > Upgrade MEC.

___**6** On the Upgrade MEC window, click Next.

___**7** On the Grid Host page, select a grid host to use, click Next.

___**8** On the Summary page, click Finish.

___**9** When upgrade is completed, a successful completion window is displayed, click OK.