



# M3 BE - How to Download and Install in CCSS mode

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# Version Log

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Doc version	Release Date	Description
1.0	2010-04-30	First version
2.0	2010-10-28	Rewritten for introduction of LEP and other changes to delivery of M3 Business Engine and related product packages
2.1	2010-11-25	Additional instructions
3.0	2010-12-08	Introducing Group MCEs
3.1	2011-04-27	<p>Changed chapter <b>Update API Metadata</b>            Added information about how new API metadata replaces the already existing API metadata</p> <p>New chapter <b>Lawson Product Life Cycle Maintenance Policy</b></p> <p>Changed section <b>Limitations and Availability</b> in chapter Introducing Customer Correction Self Service            Availability information added</p>
4.0	2011-09-16	Introducing SITs MCE English
4.1	2011-10-25	Updated StreamServe Layout information for chapters: <ul style="list-style-type: none"> <li>- How to install a single MCE</li> <li>- How to install Group MCE</li> <li>- How to install Countries and Industry functionality</li> </ul>
4.2	2012-03-28	Changed Industry Enrichment Package (IEP) to only Enrichment Package (EP). Change Industry Functionality to Business Functionality.
4.3	2012-08-23	From chapter Group MCE, the recommendation not to use Group MCE for customers that are live has been removed. The recommendation is replaced by the new chapter <b>Approaches to environment updates</b> .

For any updates or comments regarding this document, email [documentation@lawson.com](mailto:documentation@lawson.com).

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# Lawson Product Life Cycle Maintenance Policy

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To set the framework for deliveries of all Lawson products, including M3 BE, it is useful to customers to understand the overall Lawson Product Life Cycle Maintenance Policy.

The Lawson Product Life Cycle Maintenance Policy was developed to provide more value to our customer in the form of additional information to aid in their business planning. The policy describes the Maintenance Categories that are applicable for Lawson products, and the conditions that apply to the various categories.

The Lawson Product Life Cycle Maintenance policy deals with the entire lifecycle of a product in the different phases of maintenance:

- Mainstream maintenance
- Extended maintenance
- Legacy maintenance

The current Lawson Product Life Cycle Maintenance Policy can be found on MyLawson.com, in the section Product & Service\Plan.

The screenshot shows the MyLAWSON.com website interface. At the top, the logo 'MyLAWSON.com' is displayed. Below it is a navigation bar with the following items: Home, Get Support, Products & Services (highlighted), Education, Stay Connected, My Projects, and News & Events. Below the navigation bar, the breadcrumb 'Products & Services > Plan >' is visible. The main content area is titled 'Plan' and contains the following text: 'Getting the most value from your software includes planning for the future. Stay current on product communications, training options, and the type of assistance available from Lawson Professional Services.' Below this text are two columns of content. The left column is titled 'Life Cycle Maintenance Policy' and contains the following text: 'The Lawson Life Cycle Maintenance Policy establishes 3 levels of product support, applied based upon the age of a release and/or availability of a replacement version. Provides notification of the support level that applies to each product version and notification of the date the support level will change. Allows for the introduction of premium maintenance pricing for older releases.' Below this text is another paragraph: 'This updated policy will replace all previous decommission and support policies and processes.' At the bottom of this column are two bullet points: 'Review the Lawson Product Life Cycle Maintenance Policy' and 'Questions? Read the Frequently Asked Questions (FAQs)'. The right column is titled 'Product Compatibility' and contains the following text: 'A Compatibility Matrix ("Matrix") does not contain information about all products offered by Lawson. The intent is to provide information about compatibility and supported versions for the most widely used Lawson products. You are encouraged to contact your Lawson Account Executive or Account Manager for more specific details about product compatibility, especially when planning for a major system or product upgrade. The information in this Matrix is technical in nature and written for system administrators and Lawson application administrators.' Below this text are three bullet points: 'S3 UNIX-Windows Product Compatibility Matrix', 'S3 System i Product Compatibility Matrix', and 'M3 Product Compatibility Overview'. Each bullet point has a small red icon next to it.

# Introducing Customer Correction Self Service

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Customer Correction Self Service (CCSS) is a process and a set of tooling that support and simplify download, analysis and installation of single fixes and Country/Industry functionality into an M3 Business Engine environment.

## Benefits

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The CCSS concept and tooling were introduced to support Lawson's mission to make our customers stronger, thus focusing their work on value-adding activities. We believe that the use of the CCSS concept will provide a multitude of benefits to the customer, allowing them to focus on their core business. Benefits of using CCSS are:

- To fix only what is broken at the customer site, providing assistance in analyzing dependencies between fixes based on the specifics of the target system
- Simplify the overall deployment and installation of fixes for M3 Business Engine
- Minimize instability issues caused by installing large Service packs containing hundreds of fixes
- Reduce the skills required to keep the environment up-to-date
- Reduce the overall lead-time for the process to install a fix at customer site

## Maintenance Correction Entity

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The primary delivery vehicle within the CCSS concept is the Maintenance Correction Entity (MCE). An MCE is a solution made to solve a specific issue for a particular release of M3 Business Engine. It includes all system components (sources, language components...) required to solve the issue.

The MCE is packaged as a zip file in the Temporary Fix (TFix) format and the naming standard for the zip file is: **TFix\_<solution\_no>\_<component>.zip**

The component name can be any of the following:

- MVX for standard (M3 Business Engine)
- Mxx for country components where xx stands for country, such as SE for Sweden.
- MI[n] where [n] is a digit 1-9 for an industry component

## Group MCE

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The Group MCE (GMCE) further automates the installation to the M3 Business Engine. The GMCE is a manually packaged MCE which has relation to a number of MCEs. The GMCE also contain accumulated delivery units for Language components and API metadata (for the related MCEs). Installing a GMCE will install all related MCEs. The number of interaction points needed by the LCM Admin is decreased compared with installing all MCEs using the normal CCSS process.

The main purpose of the GMCE is to provide a simplified way of installing MCEs for new M3 BE installations.

Normally, new BE installations download and install all available MCEs. There are several reasons for this approach:

- Customers do not have to spend time to looking for fixes that have already been solved.
- Downloading single fixes at a later point in time will be much easier (the “dependency tree” will be less complex).

The GMCE is created at a certain point in time and will include references to all MCEs available at that time. A GMCE is cumulative, therefore it is only necessary to download and install the latest.

A GMCE (and all related MCEs) cannot be deactivated.

The GMCE is packaged as a zip file in the Temporary Fix (TFix) format and the naming standard for the zip file is: **TFix\_GMCE<YYYYMMDD-nn>\_MVX.zip**

The YYYYMMDD is a date and nn is a sequence number starting with 01.

## SITs MCE English

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The SITs (Software Integrated Text) MCE English (SMCE) is a manually packaged MCE which has relation to a number of delivery units for Language components in language English. Installing an SMCE will install all related delivery units for Language components. The number of interaction points needed by the LCM Admin is decreased compared with installing all the ingoing Language components using the normal CCSS process.

The main purpose of the SMCE is to provide a simplified way of installing Language components for new M3 BE installations. The SMCE can be provided in between Group MCEs (which also contain SIT updates). The SMCE should be installed after the GMCE and additional single MCEs have been installed in the environment. *SMCE is not intended for customers who are live.* These customers should use the single MCE process.

The SMCE is created at a certain point in time and will include references to all delivery units for Language components available at that time. An SMCE is cumulative, therefore it is only necessary to download and install the latest available SMCE.

An SMCE (and all related Language components) *cannot* be deactivated.

The SMCE is packaged as a zip file in the Temporary Fix (TFix) format and the naming standard for the zip file is: **TFix\_SIT-GB<YYYYMMDD-nn>\_MVX.zip**

The YYYYMMDD is a date and nn is a sequence number starting with 01.



## Approaches to environment updates

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A number of different approaches can be used to keep the M3 Business Engine environment up to date. What approach to use needs to be discussed and decided by the customer.

### On need basis

Only install the single MCEs that you think you need.

**Benefits:**

- Minimizes the number of MCEs you need to install.

**Issues:**

- The single MCEs you want to install can have a lot of dependencies (that you don't have installed) which makes it difficult to analyze the impact.

### Periodic updates

Install all available fixes on a periodic schedule (for example week, month or quarter).

**Benefits:**

- Upgrade of customer modification and regression testing can be concentrated and planned to specific periods.
- Environment updated with fixes found by other customers.
- Installation of single MCEs (if any) between the periodic updates will most likely not have that many dependencies.
- Timing and periodic interval can be freely decided by the customer.

**Issues:**

- It can be difficult to identify and deactivate the MCEs that cause failed tests.
- Any Language components and API metadata changes must be handled individually per MCE.

### Group MCE

Install the Group MCEs when they are available.

**Benefits:**

- Upgrade of customer modification and regression testing can be concentrated and planned to specific periods.
- Environment updated with fixes found by other customers.
- Installation of single MCEs (if any) between the periodic updates will most likely not have that many dependencies.
- Includes accumulated delivery units for Language components and API metadata.

**Issues:**

- It is not possible to deactivate any MCEs that cause failed tests (because a Group MCE can not be deactivated).
- Timing and periodic interval is decided when the Group MCE is available.
- Only available for standard, not countries or industries.

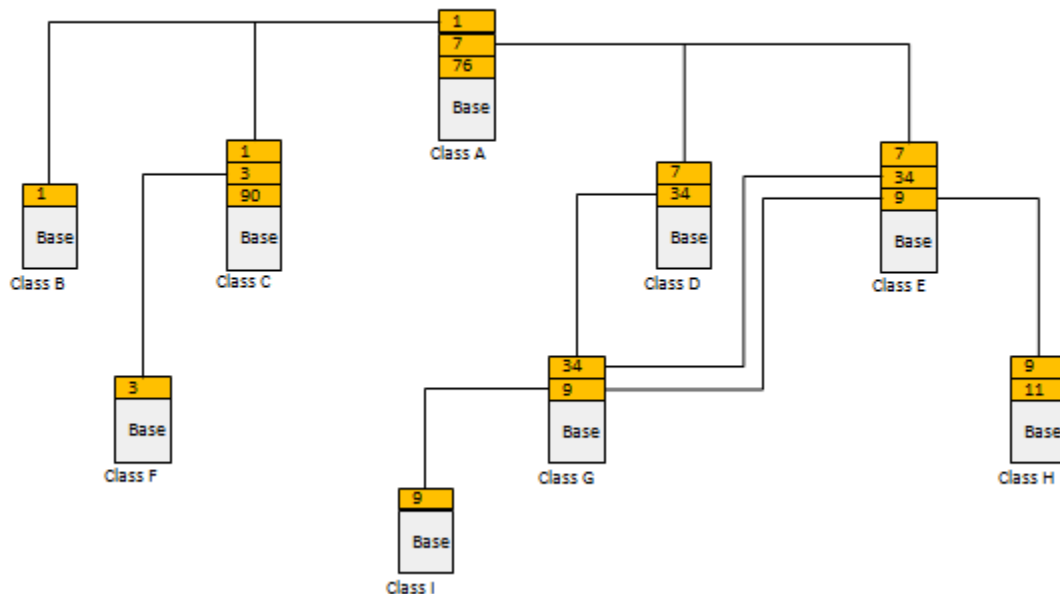
## Tooling

Customer Correction Self Service is enabled by the CCSS tool in LifeCycle Manager (LCM).

Main features are e.g.:

- Filter, search, and download available MCE packages using the Retrieve MCE feature.
- Display the status and dependencies for an MCE package. Please see the picture below for a description of the dependency analysis for a solution.
- An activation process that includes a warning if customer modifications are found in the affected programs. In such cases, manual review and handling is needed using M3 Adaptation Kit (MAK).
- A process where an MCE can be deactivated if required after installation. (MCEs including database changes and MCEs installed by a GMCE cannot be deactivated.)

### Dependency Analysis in CCSS



Numbers in yellow boxes above indicates the solution number in a class

The MCE package for Solution no 1 includes classes B, C and A.

Class C also includes Solution no 3, with means that MCE package for Solution no 1 has a dependency to MCE package for solution no 3.

In the same way the MCE package for Solution no 1 has a dependency to all MCE packages in the picture.

## Limitations and Availability

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CCSS for M3 Business Engine only handles fixes for base and country/industry components. It does not handle fixes for customer modifications.

The CCSS is currently available for M3 BE releases 14.1.2.0, 13.1 FP7 (13.1.0.7) and 12.4.3 SP16 FP18 (12.4.316.18).

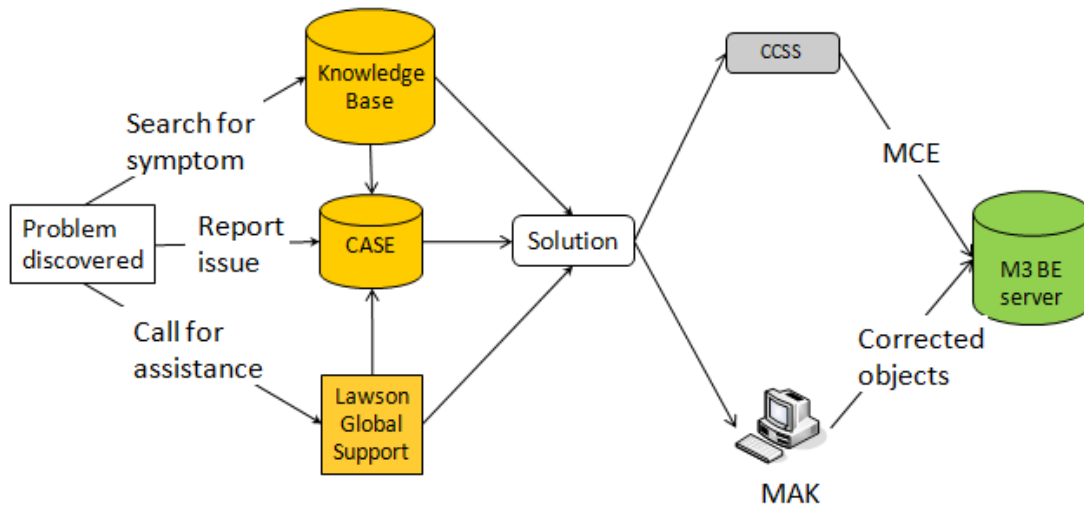
LifeCycle Manager release 9.0.3.0 or later is required for tooling support (M3 BE releases 13.1.0.7 and later). The CCSS tooling must be downloaded separately for use with M3 Environment Manager (MEM) for M3 BE 12.4.3 SP16 FP18.

In order to start using the CCSS tooling, the customer needs to have exactly one of the M3 BE releases stated above installed, with no fixes for standard or countries/industry manually applied. If a customer has modifications in a component that is affected by an MCE, a manual merge is required. The tool will signal the need for such manual operations, which are done using M3 Adaptation Kit (MAK).

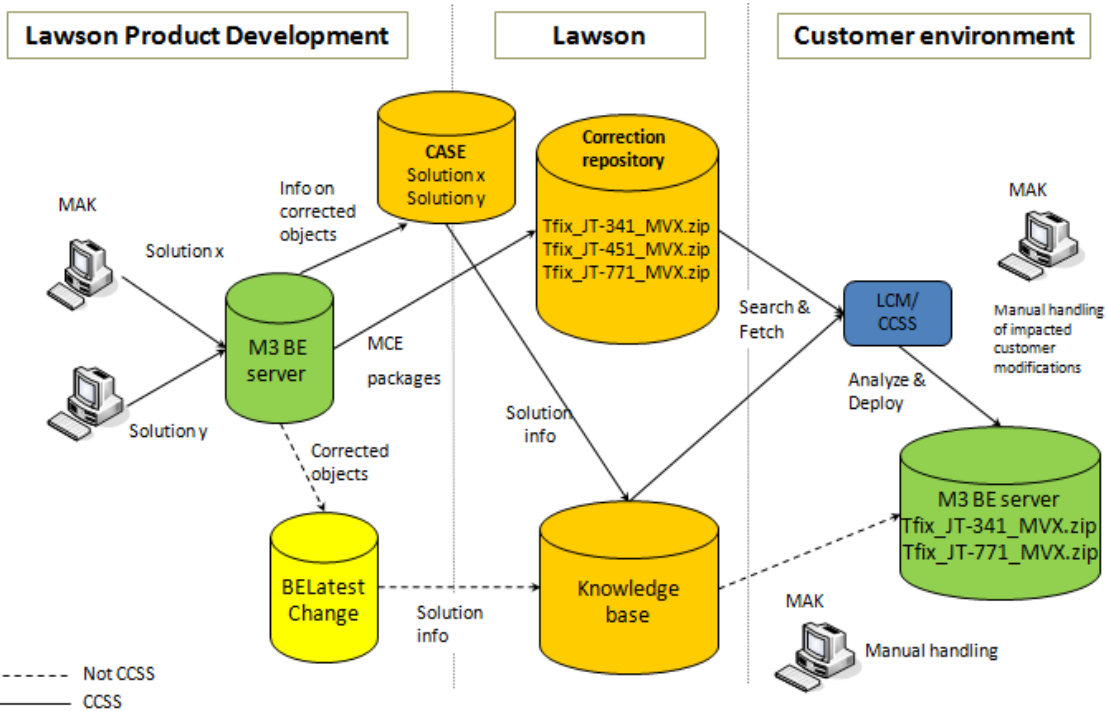
# Fixes

## How to find fixes

CCSS is not the tool for searching for fixes. That is instead done in tools provided by Lawson Global Support (LGS), for example the Knowledge Base or CASE.



Overview of the workflow used to find fixes.



On a more detailed level, this describes the tools, servers and processes used to enable the single fixes from Lawson Product Development to the customer environment.

## Critical Notifications

Fixes that Lawson Product Development believes are critical for all customers are published as Critical Notifications on My Lawson. You can find the Critical Notifications in Get Support> Critical Notifications. Define the following filter to find notifications for M3 Business Engine.

<b>Product Line</b> <input type="checkbox"/> All Product Lines <input type="checkbox"/> SHCM <input checked="" type="checkbox"/> M3 <input type="checkbox"/> S3	<b>Platform</b> <input type="checkbox"/> All Platforms <input checked="" type="checkbox"/> iSeries / System i <input checked="" type="checkbox"/> UNIX <input checked="" type="checkbox"/> Windows	<b>Product Suites</b> <input type="checkbox"/> All Product Suites <input type="checkbox"/> Business Process Platform <input checked="" type="checkbox"/> Customer Sales & Service <input checked="" type="checkbox"/> Enterprise Asset Mgmt <input checked="" type="checkbox"/> Financials <input type="checkbox"/> Human Capital Mgmt <input checked="" type="checkbox"/> Manufacturing Operations	<input type="checkbox"/> Mobility <input type="checkbox"/> PLM <input type="checkbox"/> Retail <input type="checkbox"/> Services Mgmt <input checked="" type="checkbox"/> Supply Chain Mgmt <input type="checkbox"/> Technology <input type="checkbox"/> User Productivity Platform
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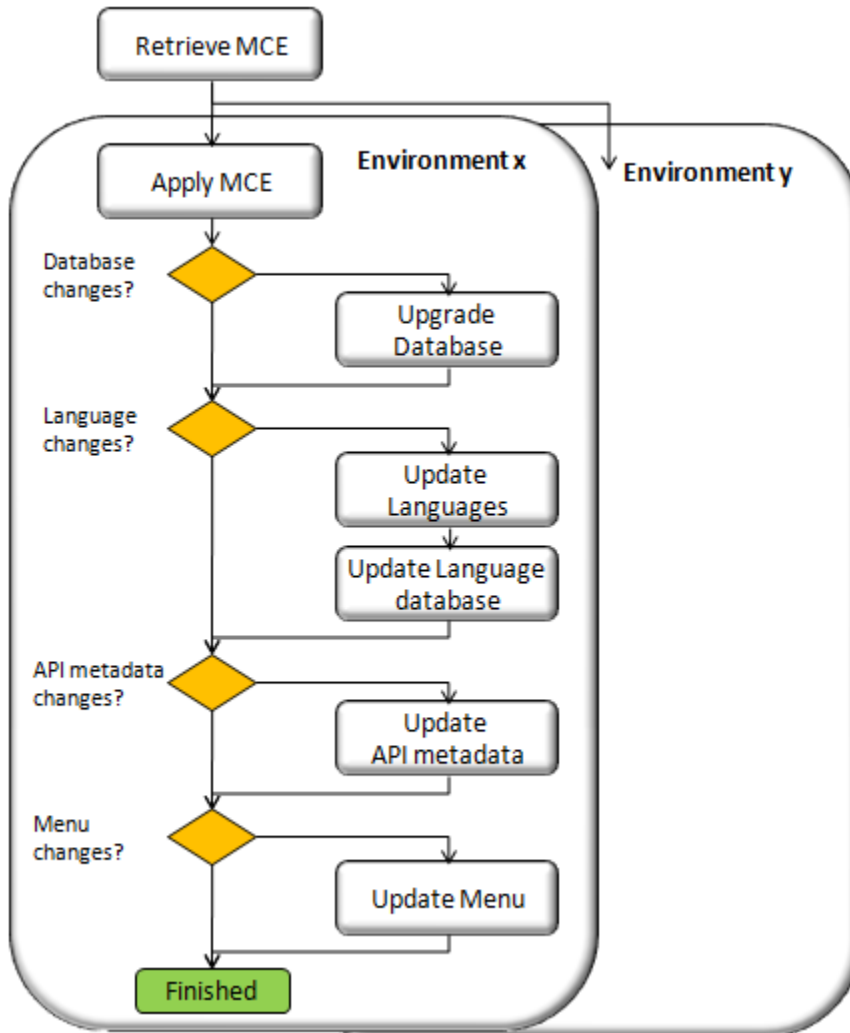
|

Release Date	Number	Title	Type	Product	Platform
Oct 23, 2009	CN_M3BE_13107_20091023	Generic extension tables that are MANDATORY to install for all installations that are using Customer Correction Self-Service (CCSS)	Critical Patch Notification	Customer Sales & Service, Enterprise Asset Management, Financials, Manufacturing Operations, Supply Chain Management	iSeries (System i), UNIX, Windows
Nov 4, 2009	CN_M3BE_1412_20091104	Disappearing lines in Material Plan (MMS080)	Critical Patch Notification	Customer Sales & Service, Manufacturing Operations, Supply Chain Management	iSeries (System i), UNIX, Windows
Nov 9, 2009	CN_M3BE_12431618_20091109	Generic extension tables that are MANDATORY to install for all installations that are using Customer Correction Self-Service (CCSS)	Critical Patch Notification	Customer Sales & Service, Enterprise Asset Management, Financials, Manufacturing Operations, Supply Chain Management	iSeries (System i), UNIX, Windows

Note that you can sign up to receive e-mail notifications when new Critical Notifications are posted.

# How to Install a single MCE

The installation of MCEs is divided into the following steps:



Below you will find a description of these steps. Details for each step are found in the *M3 BE xx.x* and *M3 Foundation Product Documentation* (the notation xx.x refers to the current version of the M3 Business Engine).

## Retrieve MCE

To retrieve a single MCE, filter on Solution no. Solution no is part of the MCE file name (MCE naming standard is: TFix\_<solution\_no>\_<component>.zip). For example, if the MCE file name is **TFix\_JT-167984\_MVX.zip** the solution number **JT-167984** should be specified.

The screenshot shows the 'Retrieve MCE' application window. The title bar reads 'Retrieve MCE'. The main heading is 'Retrieve Maintenance Corrections Entities'. Below this is a 'Solution Overview' section with the instruction 'Select solution to see more details'. The filter section includes input fields for 'Solution' and 'Description', and dropdown menus for 'Component' (set to 'MVX'), 'Show' (set to 'ALL'), and 'View' (set to '100'). On the right, there are 'Action' buttons for 'Search' and 'Retrieve'. Below the filters is a table with the following data:

Solution	Severity	Compo...	Description	Retrieved
<input type="checkbox"/> JT-189901		MVX	Manually entered Harbor value is not accepted in PPS220/...	✗
<input type="checkbox"/> JT-189876		MVX	AP Accounting option - VRNO not cleared, causing wrong ...	✗
<input type="checkbox"/> JT-189864		MVX	Changed offset calculation at forward planning	✗
<input type="checkbox"/> JT-189817		MVX	Planned WOs Lead time offset calculation modified part 2	✗

## Apply MCE

To apply a single MCE, filter on Solution number (see above) or Name (MCE file name).

The screenshot shows the 'Manage Fixes - TST' application window. The title bar reads 'Manage Fixes - TST'. The main heading is 'Fix(es) overview' with the instruction 'Select a fix to see more details'. The filter section includes input fields for 'Name' and 'Solution', a 'Description' field, and dropdown menus for 'Component' (set to 'ALL') and 'Show' (set to 'ALL'). There are also input fields for 'Applied By' and 'Applied Date'. On the right, there are 'Action' buttons for 'Search', 'Clear', 'Apply', and 'Remove'. Below the filters is a table with the following data:

Name	Solution	Description	Status	Appli...	Appli...	Applied Date
<input type="checkbox"/> TFix_JT-136288_MVX	JT-136288	CA103 - To split GST and PST amo...	✗			
<input type="checkbox"/> TFix_JT-149956_MVX	JT-149956	CLONE -MMS301MI - Upgraded t...	✗			
<input type="checkbox"/> TFix_JT-152369_MVX	JT-152369	Enhancement Request to Include It...	✗			
<input type="checkbox"/> TFix_JT-162307_MVX	JT-162307	WARNING MI TRANS - MMS301MI...	✗			

## Upgrade Database

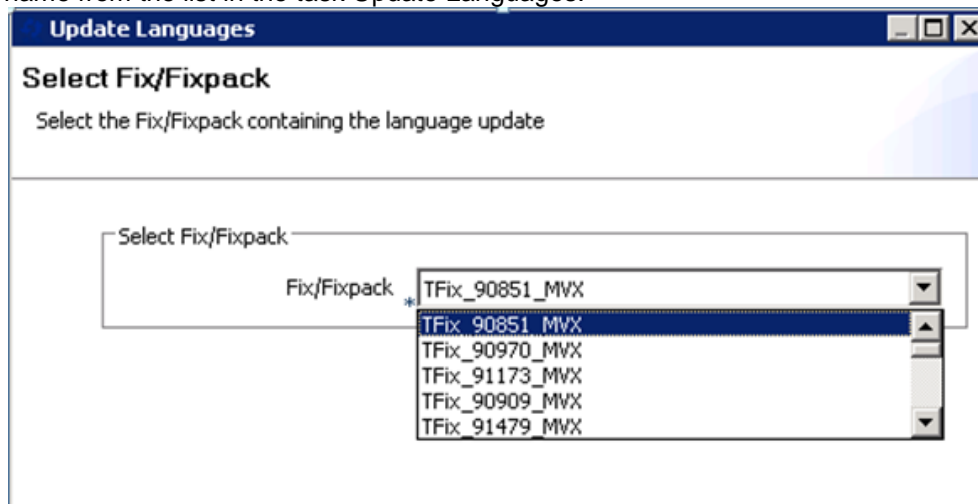
If the MCE includes database changes the task Upgrade database with Fix/Fixpack is used to read all table interfaces in the Fix structure and upgrade or add new or changed tables. All database changes are published as Critical Notifications on My Lawson (see separate chapter about Critical Notification) and mandatory to install for all customers.

## Update Languages

Software Integrated Texts (SITs) are components that are visible to end-users, and are thus subject to translation. Examples of SITs are information messages, field headings and help texts.

Language components included in a single MCE are only delivered in language U.S. English (language code GB).

If the MCE includes language components the **lng** file must be updated by selecting the MCE file name from the list in the task Update Languages.



### Translation

Periodically the changed language components are translated to all supported languages. The translations are delivered as one or several MCEs. The ID for a Translation MCE is published as a Critical Notification (see separate chapter about Critical Notification). To update the language components with the translations the step above is run for the Translation MCE file name.

Language components can also be translated manually using the Language Editor in the M3 Adaptation Kit (MAK). See *M3 Adaptation Kit User Guide* for detailed instructions.

### Update Language Database (Import XML to Database)

If the MCE includes language components the language table must also be updated. This is done by selecting the MCE file name in the task Import XML to database.

### Translation

Translations are updated in the same way by selecting the Translation MCE file name.



## Update API Metadata

If changes in an Application Program Interface (API) program include changes in the transaction layout, the API metadata must be updated manually. Changes in the transaction layout are indicated by the MCE description that starts with “**WARNING MI-TRANS**”. An API is sometimes also referred to as an M3 Interface Program (MI) program.

There are two ways of delivering API metadata:

- The old way, MCEs created up to and including November 22, 2010, API metadata is found on Product Download, see details below.
- The new way, MCEs created November 23, 2010 and later, API metadata is included in the MCE package, see details below.

**Please note that regardless of how API metadata is delivered any new transaction layout will replace the already existing. This means that any customer modification to standard API metadata transactions will be lost.**

The easiest way to determine if the old or new way has been used is to look in the Fix Details view and search for a program starting with MI\_. If it is found, the new way has been used.

The screenshot shows the SAP Manage Fixes interface. The top navigation bar includes 'Retrieve MCE' and 'Manage Fixes - 1412\_ENVIRONMENT'. The main area is titled 'Fix(es) overview' and contains a filter section with fields for Name, Solution (194220), Description, Component (ALL), Applied By, Show (ALL), and Applied Date. Action buttons for Search, Clear, Apply, and Remove are on the right. Below the filter is a table with columns: Name, Solution, Description, Status, and Applied As. One row is highlighted: 'TFix\_JT-194220\_MVX' with solution 'JT-194220' and description 'WARNING MI-TRANS: MWS420MI/UpdPickHead doesn't allow ...'. The 'Fix(es) Details' section below shows a file list for the selected fix:

File	Modified	Status
TFix_JT-194220_MVX	2010-11-24 08:08:40.823	✓ Applied
mvx/app/pgm/ML_JT194220_01	2010-11-24 at 09.08	✓ Applied
mvx/app/pgm/MWS420MI	2010-11-24 at 09.07	✓ Applied
TFix_JT-193697_MVX	2010-11-22 11:35:57.200	✓ Superseded
TFix_IT-180320_MVX	2010-10-08 10:36:07.658	✓ Superseded

### Old way - MCEs created up to and including November 22, 2010

For MCEs created up to and including November 22, 2010, the metadata is delivered as a self-installing executable available on Product Download.

The API metadata patches are found on Product Download under product Business Engine – M3 10.1.

[-] Business Engine - M3 10.1
[-] Business Engine - API metadata patches
All supported platforms - Business Engine - API metadata patches
<a href="#">14.1.2.0</a>
[+] M3 Business Engine (standard base)
[+] M3 Business Engine Country Version - Argentina
[+] M3 Business Engine Country Version - Australia
[+] M3 Business Engine Country Version - Austria
[+] M3 Business Engine Country Version - Belgium

Download the RepFix package, and execute for the environment.

### New way - MCEs created November 23, 2010 and later

For MCEs created November 23, 2010 and later, the API metadata is packaged in an MI Data Extraction Program (MDEP). The MDEP is a normal BE Java Batch program (similar to a fix program) that is delivered within the MCE.

There is thus no need to fetch API metadata patches from Product Download.

The naming standard for an MDEP is **MI\_<solution>\_nn**.

The nn is a sequence number starting with 01 (used if several API programs are changed using the same solution), e.g. MI\_JT194220\_01.

The API metadata is then updated by executing the MDEP from the Server View or Grid Monitor.

**MainBranch, Local - ServerView: LR95Y5H**  
Local Server Time Mon Apr 11 17:02:49 CEST 2011

**MainBranch, Local -> Run Job**

News Log Files Find Job Run Job Properties Tools Customize Abo

**Run Job @LR95Y5HA/10.20.185.3:55143**

Program:

User:

Company:

Divison:

Type:

After pressing run, check the JVM log to make sure that the job has finished normally.

JVM Log Levels Concepts DynaTrace Filters

**JVM Log**

Time	Thread	Level	Message
2010-11-25 13:57:05	14176	I	Movex Java N/A.200910 9.0.4.0 2009-10-06 (MF_92791)
2010-11-25 13:57:12	14176	I	M3 Business Engine started.
2010-11-25 13:57:20	13276	I	Starting MI_JT194220_01 10.20.2.2.15 : 6100_0-0
2010-11-25 13:57:27	13276	I	Finished MI_JT194220_01 10.20.2.2.15 : 6100_0-0

## Update StreamServe Layouts

### Instructions for StreamServe 4.

When the MCE has been deployed in the LCM, the StreamServe v4 components are placed on the StreamServe server. In order to run the delivered \*.dux files in the StreamServe Control Center service, see to that the TFix folder is listed in the start.arg file. Alternatively if you have another working directory, replace old \*.dux files with the new ones.

### Instructions for StreamServe 5.

When the MCE has been deployed in the LCM, the StreamServe v5 components are placed on the StreamServe server. Now runtime objects for the StreamServe components need to be created on the StreamServe server. First every MCE layout needs to be exported using StreamServe Design Center. Then every MCE layout needs to be deployed using StreamServe Control Center. You will find instructions for this in the StreamServe v5 M3 BE Layouts Installation Guide.

## Update Menu

If the MCE includes new menu items (new functions), these must be added manually.

### Lawson Smart Office

The Lawson Smart Office (LSO) Navigator retrieves its M3 menu from the settings in function MNS111 every time the user logs on to M3 BE. Therefore, changes in MNS111 will only be applied the next time LSO is started. Every user will have their unique menu, depending on the security settings and which Menu version the user is connected to.

New functions are first added in M3 BE 'Function. Open' (MNS110) by copying an existing function and changing Constant and Program. Then the user must position on the Menu name (where the function should be added) and use Related option 12 (Menu) to start MNS111. The new function is then added to the appropriate Menu versions (normally several).

### M3 Workplace

For information about how to enable this in M3 Workplace, see *M3 Workplace Administration Guide*.

## How to install Group MCE

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The steps necessary to install a Group MCE (GMCE) are very similar to installing a single MCE, but are performed for the GMCE instead of a single MCE. The GMCE reduces the number of manual steps and the time required to complete the installation.

For each GMCE, a ReadMe document is published on Knowledge Base to describe and support the installation.

### Retrieve GMCE

To retrieve a GMCE, filter on Solution no. The Solution no is part of the GMCE file name (GMCE naming standard is: TFix\_GMCE<YYYYMMDD-nn>\_MVX.zip). For example, if the MCE file name is **TFIX\_GMCE20101112-01\_MVX.ZIP** the solution number **GMCE20101112-01** should be specified.

The GMCE file name is found in the ReadMe document.

### Apply GMCE

Apply a GMCE filter on Solution no (see above) or Name (MCE file name).

### Upgrade Database

The same process as for a single MCE applies. A list of changed or new tables is included in the ReadMe document.

### Update Languages

The language components are updated by selecting the GMCE file name from the list in the task Update Languages. The available translations are included in the GMCE so there is no need to make updates for the Translation MCEs. Additional translations (not included in the GMCE) must be done manually for each language.

### Update Language Database (Import XML to Database)

The language table is updated by selecting the GMCE file name in the task Import XML to database. The available translations are included in the GMCE so there is no need to make updates for the Translation MCEs.

## Update API Metadata

Unlike the single MCE process there is no need to fetch API metadata patches from Product Download. The API metadata is instead packaged into one single MI Data Extraction Program (MDEP). This MDEP is executed in the same way as the MDEP for a single MCE.

The naming standard for an MDEP is **MI\_<YYYYMMDD>\_nn**.

The YYYYMMDD is a date and nn is a sequence number starting with 01, e.g. MI\_20101112\_01.

The MDEP name is found in the ReadMe document along with a list of changed API programs.

## Update StreamServe Layouts

The same process as for a single MCE applies.

## Update Menu

The same process as for single MCE applies. A list of new menu items is included in the ReadMe document.

## How to Detect that a Group MCE is Installed

The easiest way to detect that a GMCE is installed in a specific environment is to use the Find Class functionality in Server View or Grid Monitor and search for the MDEP name.

Navigation: [Foundation: M3BE 14.1.2-SST HB201005](#) • [Subsystem: Subsystem:A](#) • [Find Class](#) • [Results for 'MI\\_20101112\\_01'](#)

**Results for 'MI\_20101112\_01'**

Used entry		
grid://NG_ROOT/env/SST_HB201005/Fix/MVX/TFix/bindbg/mvx/app/pgm/MI_20101112_01.class		
Class/Superclass	Version	Unique ID
mvx.app.pgm.MI_20101112_01	N/A	N/A
mvx.app.common.Batch	/tags/fnd-9.1.6.0.3/foundation/src/main/java/mvx/app/common/Batch.java	N/A
mvx.app.common.MvxCoreFunc	/tags/fnd-9.1.6.0.3/foundation/src/main/java/mvx/app/common/MvxCoreFunc.java	N/A
mvx.app.common.Modification	/tags/fnd-9.1.6.0.3/foundation/src/main/java/mvx/app/common/Modification.java	N/A
mvx.app.common.MvxInd	/tags/fnd-9.1.6.0.3/foundation/src/main/java/mvx/app/common/MvxInd.java	N/A
mvx.app.common.MvxEnv	/tags/fnd-9.1.6.0.3/foundation/src/main/java/mvx/app/common/MvxEnv.java	N/A
mvx.app.common.MvxLang	/tags/fnd-9.1.6.0.3/foundation/src/main/java/mvx/app/common/MvxLang.java	N/A
java.lang.Object	N/A	N/A

## How to install a SITs MCE English

The steps required to install a SITs (Software Integrated Texts) MCE English (SMCE) are very similar to installing a single MCE with a relation to a delivery unit for Language components, but are performed for the SMCE instead of a single MCE. The SMCE reduces the number of manual steps and the required time to complete the installation.

## Retrieve SMCE

To retrieve an SMCE, filter on Solution no. and search for **SIT-GB**. All SMCEs are listed in chronological order. The Solution no. is part of the SMCE file name. For example, if the MCE file

name is **TFIX\_SIT-GB20111112-01\_MVX.ZIP** the solution number **SIT-GB20111112-01** should be specified.

As indicated above, the SMCE naming standard is TFix\_SIT-GB<YYYYMMDD-nn>\_MVX.zip

## **Apply SMCE**

To apply an SMCE, filter on Solution no. and search for the SMCE that you have retrieved.

## **Update Languages**

The language components are updated by selecting the SMCE file name from the list in the task Update Languages. The SMCE only contains language English (GB), therefore translations must be done manually for all other languages.

## **Update Language Database (Import XML to Database)**

The language table is updated by selecting the SMCE file name in the task Import XML to database.

# Country Specific and Business Functionality

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The primary use of MCEs is delivery of fixes, but MCEs are also used to deliver updates to Country Specific functionality and new Business functionality.

## Country Specific Functionality

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Country specific functionality (CSF) can normally be related to requirements generated by law, infrastructure in the country or other country specific rules/tradition in the country. This is often referred to as Regulatory and Statutory (R&S) requirements. CSF can either be included as code in base, or in a separate country component (library). Country components were earlier known as "market modifications".

For supported countries, critical legal updates are delivered continuously since new laws may require changes throughout the year.

The code changes are done in both **base** and **country components**.

## Business Functionality

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New business functionality is delivered within the Enrichment Package (EP) concept. The concept means that new functionality is delivered separated from fixes and Regulatory and Statutory changes. Customers will be able to make use of new functionality without changing their core system.

The new functionality is developed and maintained in new industry components, following the exact same principle as today's country components.

All functionality that is delivered in the industry component is grouped by a Business Functionality ID. The activation of functionality is decoupled from the installation process by the Business Functionality Switch (in MNS096).

Note that business functionality contained within an Industry Component might need separate licensing.

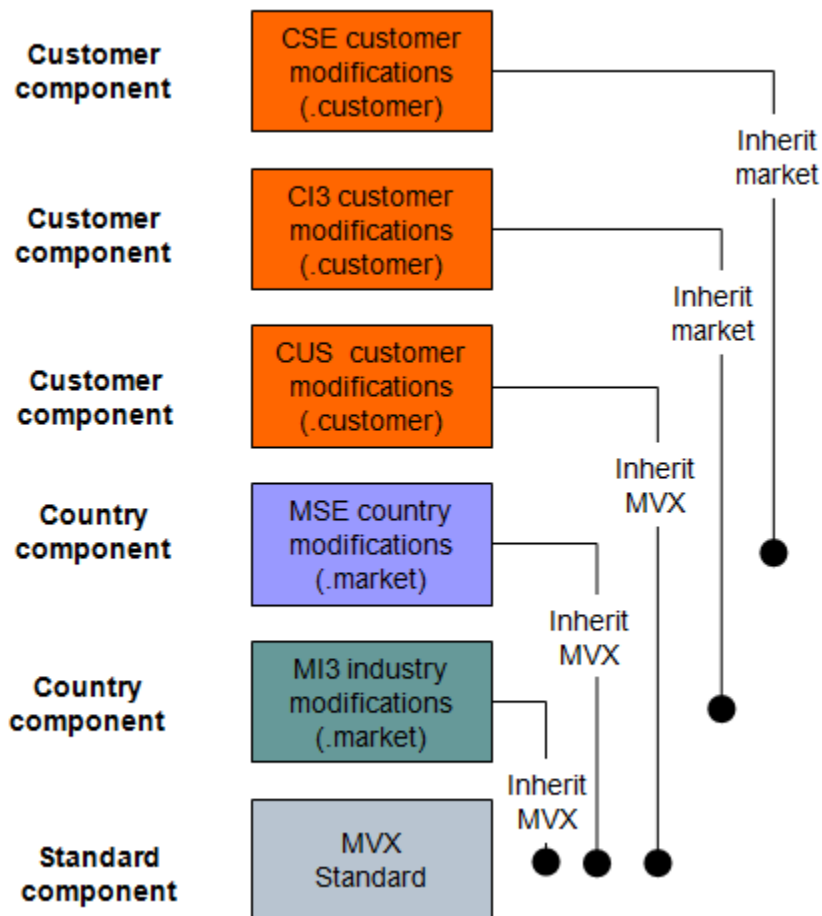
Available business functionality is listed in an EP Overview document found under the Industry Component on Product Download.

The code changes are only done (with a few exceptions) in the **industry components**.

## Relations between Country and Industry Components

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The industry component is always placed last in the load order. Therefore programs that exist in country components are never included in any industry component.



## Country and Business Functionality versus Fixes

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Country and Business functionality differ from regular fixes for the following reasons:

- Can be substantial
- Can include database changes.
- Can include new language components.
- Can include new or changed API programs
- Can include new menu items



# How to install Country and Business Functionality

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All Country and Business functionality are delivered via CCSS as one or many MCEs. In some cases changes are also made to components that are not fully supported by the CCSS tooling e.g. new menu items.

For each Country and Business functionality a ReadMe document is published on Product Download to briefly describe the functionality and support the installation with the MCEs included and what activities to perform.

The ReadMe document can be found on Knowledge Base (only Country specific functionality) and Product Download (only new business functionality).

The ReadMe document may include the following:

## **List of all MCEs needed for a Complete Delivery**

Downloaded and installed as normal MCEs.

## **List of Changed or new StreamServe Layouts**

Included in the MCE, no extra steps needed.

## **List of Changed or new Language Components**

Language: U.S. English (language code GB) included in the MCEs. See chapter “Update Language” and “Upgrade language database” for extra steps.

## **List of Database Changes**

See chapter “Upgrade Database” for extra steps.

## **List of Fix Programs to be run to Utilize the Functionality**

Need to be run manually from the ServerView.

## **List of API Metadata Patches**

See chapter “Update API metadata” for manual steps.

## **List of StreamServe Layouts**

See chapter “Update StreamServe Layouts” for extra steps.

## **List of Related Financial Business Messages**

New or changed Financial Business Messages (FMB) are available on Product Download.

## **List of new Menu Items**

See chapter “Update Menu” for extra steps.