M3 Business Engine BODs Installation Guide

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About this Guide

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This guide provides information on installing M3 BE Business Object Documents (M3 BE BODs) for the BOD-based integration between M3 and Infor applications using ION.

Knowledge Prerequisites

Installing and configuring M3 BE BODs should be performed by consultants who have previous experience in the following products (listed in the order of priority):

- configuring messages in M3 Enterprise Collaborator (MEC)
- using MEC Partner Administration Tool
- installing and configuring applications in the Infor ION Grid
- installing and configuring the M3 Business Engine and M3 Foundation

Overview

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What is M3 BE BODs?

M3 Business Engine Business Object Documents (M3 BE BODs) is a solution that is designed to achieve a standardized interoperability between systems within a company's infrastructure. M3 BE BODs are based on an Infor standardized subset of the architecture set by Open Application Group Integration Specification (OAGIS). A BOD contains a pre-defined business message structure as well as information to tell the receiver what data that is included. The BOD structure also allows for a standardized two-way communication between sender and receiver to be able to communicate status and error conditions. Thanks to the use of this global architecture, Infor achieves a common understanding of both usage and content of the created BODs. Systems that has adopted the standard can easily be integrated to each other without the need for the, otherwise normally needed, modifications and projects to create the technical integration.

An Infor system, that has adopted this standard, uses Infor ION as the common mechanism to transport BODs throughout the company infrastructure. This means that any system connected to ION can listen to BODs sent by any other system, and in this way it can be synchronized easily with the item information which is controlled by another system (that is the System Of Record (SOR)). Thanks to the use of the standardized transportation, none of the systems that consume or create BODs need to be aware of the other participants of the infrastructure. This none-awareness not only eliminates a large hurdle in achieving an integration that otherwise requires a large project to solve, but also simplifies the effort to integrate systems.

M3 BE BODs use Event Hub to trigger and receive data from M3 Business Engine to M3 Enterprise Collaborator (MEC). MEC uses the event data to create BODs that are sent to ION. BODs sent from ION are detected in MEC and sent to M3 BE via API transactions. M3 BE BODs are using the M3 BE CONO number as tenant and M3 BE DIVI is the accounting entity. Both CONO and DIVI can be translated in CRS881/CRS882.

System Requirements

The following software components must be installed before installing this product. For the complete list of required software components and fixes, refer to the *M3 Business Engine BODs Release Notes*.

Component	Notes
M3 Business Engine	For detailed information, refer to *M3 Business Engine and M3 Foundation Installation Guide*.
M3 Foundation	For detailed information, refer to *M3 Business Engine and M3 Foundation Installation Guide*.
Infor ION Grid	For detailed information, refer to *Infor ION Grid Installation Guide*.
Event Hub	For detailed information, refer to *Infor ION Grid Extensions Installation Guide*.
M3 Enterprise Collaborator	For detailed information, refer to *M3 Enterprise Collaborator Server and Client Tools Installation Guide*.

Process Overview

Use this check-list as a guide to the required steps for installing M3 BE BODs.

___**1** Go through the Pre-Installation checklist

___**2** Download the software package as described in Downloading M3 BE BODs

___**3** Install the M3 BE BODs as described in "Installing M3 BE BODs in LifeCycle Manager " on page 8

___**4** Install rulespack archive as described in Installing the rulespack archive

___**5** Import M3 BE BODs in the MEC Partner Administration Tool as described in Importing M3 BE BODs

___**6** Complete the additional settings in M3 BE as described in "Post Installation" on page 13.

Installing M3 Business Engine BODs

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Pre-Installation checklist

Use the following verification checklist before start installing M3 BE BODs in the M3 Enterprise Collaborator (MEC) Mapping Manager.

- Verify your Partner Administration Tool. For further information, refer to the *M3 Enterprise Collaborator Server and Client Tools Installation Guide*.
- Verify that you have EventHub 2.0 installed. For restrictions on EventHub, refer to the *M3 Business Engine BODs Release Notes*.

  For further information on EventHub installation, refer to the Grid Extensions Installation and Administration Guide, available on InforXtreme.
- Verify that the M3 user **SVCM3BOD** is created and has user access to all M3 BE Company, Division, Warehouse and Facilities information. To add user access to **SVCM3BOD**, choose Related Options > Update user in M3 BE.
- It is required that M3 BE, MEC, EventHub are installed on the same Grid Instance and are in status Started.

Downloading M3 BE BODs

The following components available on the download page will be required for your installation.

Important: All content files in current version will be removed during the installation.

Download page	Product name	Contains
M3 Business Engine BODs	M3BE_BODs_Content_[ver].zip	M3BE_BODs_rulespack_archive_[ver].zip M3BE_BODs_MEC_data_[ver].agr overrides.xml
	M3BE_BODs_[ver].zip	LCM package including M3BODProcessor

Note: You need to unzip the Content file before proceeding with the installation.

Installing M3 BE BODs in LifeCycle Manager

Use these instructions to install the M3 BE BODs package created for LCM 10.x.

The M3 BE BODs package contains the Grid application M3BODProcessor and enables the installation of rulespack archive into Event Analytics. The M3BODProcessor subscribes on events from Event Analytics, enhances and publishes them via Event Hub to MEC. The rulespack archive (part of the M3BE_BODs_Content file) filters events that are valid as BODs.

Tip: For a complete description of data flow, refer to the *M3 Business Engine BODs Configuration Guide*.

Before you start To use the installation wizards, the user running LifeCycle Manager Client must be a member of the LifeCycle Manager administrator's group.

❑ Upload the installation file to LifeCycle Manager

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

___**2** On the LifeCycle Manager menu, click Admin > Upload Products.

___**3** On the Manage Products page, click Upload.

___**4** Locate the folder containing the downloaded product package and select the installation zip.

___**5** Click Open. A dialog box appears showing the progress.

___**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 dialog box appears. Click OK.

___**8** When prompted, click Yes to update your client.

___**9** When the update is done, click OK to restart the client.

___**10** Log on again.

❑ Install the file

___**1** In LifeCycle Manager, locate the Grid instance where you want to install the product.

___**2** Right-click the Grid instance > Install Product.

___**3** On the Install window, select the product version and click Next.

___**4** On the **Location** window,

- select the Grid instance where you want to install M3 BE BODs

  Important: It is recommended to install the product on the same Grid instance as M3 Business Engine, MEC, and EventHub.

- add any available **HTTPS port** number to the selected Grid host
- choose **Validate SVCM3BOD user** and enter the name and the password for any MNS150 user to complete the validation.
- if the M3 BE is not started, mark the M3 BE Environment checkbox.

Click **Next**.

___**5** On the Summary page, review the information and click Finish.

___**6** When the installation is successfully completed, click OK or click View log.

Once installation is done, the product should appear in status Started in the list of Grid applications.

Installing the rulespack archive

Proceed with the following steps to install rules packages in Event Analytics.

Important: Already existing rules will be overwritten by this process.

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

___**2** Locate the Grid instance where EventAnalytics is installed.

___**3** Right click the EventAnalytics installation and select **M3 BE BODs [version] > Install Rules Packages**.

___**4** In the **Tasks** dialog, select **Upload a rules pack archive to the LifeCycle Manager Server** and click **Next**.

___**5** On the **Local rules pack archive** dialog, click **Select** and browse to the M3BE_BODs_rulespack_archive_[ver].zip file to upload it to the LifeCycle Manager Server. Click **Open** and click **Next**.

___**6** On the **Verifying package** dialog, choose **Yes** to register the rules pack archive file on the LifeCycle Manager Server.

___**7** Click **OK** when the **Registration successful** dialog appears.

___**8** On the **Rules pack archive information** dialog, select the M3BE_BODs_rulespack_archive_[ver].zip rules pack archive from the drop down list. Click **Next**.

___**9** On the Summary page, review the information and click **Finish**.

___**10** When the installation is successfully completed, click **OK** or click **View log**.

Important: The rules sessions are stopped by default. You need to start the rules session when you want to use it.

Importing M3 BE BODs

You can export and import partner agreements and components related to the agreements from MEC. The M3 BE BODs use export to create a MEC data file that can be imported into the MEC Partner Administration Tool.

❑ Before you start

___**1** In MEC Partner Administration Tool, go to **Manage > Communication > M3 API** and create a valid M3 API reference to the M3 BE environment to get metadata from M3 Business Engine.

Name this M3 API reference as 'Import Use'. This instance will be used only during the import.

___**2** The import file contains detections when CONO = 001. To detect BODs from another company number, you can

- make edits manually after import is completed for all agreements, or
- edit the overrides.xml and change **`<value>replace me</value>`** to the desired CONO value in the following line:

  `<name>hub:5_elementvalue01</name>`

  `<value>replace me</value>`

  `<mandatory>true</mandatory>`

  Important: CONO value for noun Person must be 0 and should not be changed.

❑ Importing M3 BE BODs

The M3 BE BODs can be imported to the root or to any available folder in the Agreement View of the MEC Partner Administration Tool.

___**1** Select or Create the folder where you want to import the M3 BE BODs

___**2** Right - click the folder and select **Import agreement/group**.

___**3** Browse to the M3BE_BODs_MEC_data_[ver].agr file in the M3BE_BODs_Content file and click **Open**.

___**4** When the question 'Apply Agreement Overrides' prompted, choose **Yes**.

___**5** Browse for the overrides.xml file. Click **Open**.

___**6** In the **Import Agreement** dialog, review the information and click **Ok**.

❑ Update and Validate after Import

Proceed with the following steps in the MEC Partner Administration Tool when importing M3 BE BODs are completed:

Update and validate the M3 API reference used in the XML transform process

___**1** Go to **Manage > Communications > M3 API tab** and select the M3 API reference used in M3 BE BODs agreements *(M3BE_<m3be_env_name>)*.

___**2** Update Name, Host, Port, User and Password

Update and validate send channel for IONDbOut

___**3** Go to **Manage > Communications > Send tab** and select the send channel to be used for the ION outbox configuration *(ION_Out_<m3be_env_name>)*

___**4** Update Name, Description, Connection URI, Username, Password, from Logical Id and tenant ID.

Update and validate receive channels for IONDbIn and EventHub Subscriber

___**5** Go to **Manage > Communications > Receive tab** and select the receive channel to be modified for

- ION_In_<m3be_env_name>_NonOrdered
- ION_In_<m3be_env_name>_Ordered
- M3_In_<m3be_env_name>_NonOrdered
- M3_In_<m3be_env_name>_Ordered

___**6** • For channel type **Event Hub Subscriber** only the name should be updated.

- For channel type IONDbIn the following properties should be updated

Name	
ConnectionUri	Update username, password, host, port and database name.

RemoveAfterImport

___**7** Remove the agreements in the folder **removeAfterImport**.

___**8** When completed, remove the folder **removeAfterImport** as well.

Update the Control Properties on folder level

___**9**

Applicable for Folders	Control Properties Name	Value
InitialLoad Agreements Application	ionToLogicalId	Change Value to the lid for the receiving application. Value is according to ION Connection Point lid://infor.[application name].[environment name] **Important:** This value is case sensitive and must exactly match the Logical ID value in ION Connect.
InitialLoad Agreements ION	ionFromLogicalid	lid://infor.m3be.[BE environment name]

Update detection on all inbound partner agreements

___**10** Update all agreement in **Application** folder and each agreement starting with M3BE_In in the **ION** folder with correct tenantID on Target Value for Detection.

___**11** To update a detection, select a partner agreement and go to the **Detection** tab.

❑ Review Detection Order

When importing M3 BE BODs are completed, the detections are added to the bottom of the detection order. To make sure the agreements are detected in the required order, go to **Manage > Detection > Detection Order** in MEC Partner Administration Tool and rearrange the detections.

Post Installation

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Additional M3 Business Engine Settings

❑ Additional Settings for Customer master data BODs

Complete the following steps in order to receive and process the following partner agreements:

- M3BE_In_ProcessCustomerPartyMaster
- M3BE_In_ShipToPartyMaster
- M3BE_In_BillToPartyMaster
- M3BE_In_PayFromPartyMaster

___**1** In M3 BE, create the new customer IONCUST in **CRS610** with the following settings:

Customer Type = 0

___**2** Fill in all mandatory fields and make sure that status is set to 20.

Important: Do not add an Invoice recipient (INRC) or Payer (PYNO) in CRS610/J-panel.

❑ Additional Settings for Incoming Sync BODs

Complete the following steps in order to receive and process M3BE_In_SyncBODs

Important: These settings are only valid for the following BODs:

- M3BE_In_SyncReceiveDelivery
- M3BE_In_SyncShipment
- M3BE_In_SyncInventoryHold
- M3BE_In_SyncInventoryAdjustment

___**1** In M3 BE, create a message partner in **MMS865/B**.

Whs	Leave blank
Msg	Set to I
Partner	Set to the application id of the system that sends the BOD, e.g. WM

Select **Options > Create**.

___**2** In **MMS865/E**, populate **300 Partner manager** with a valid user entry.

___**3** In MEC Partner Admin Tool, go to partner agreement for the specific M3BE_In_Sync BODs.

In **Basic tab > Control Properties**, click **Add** and create the Control Properties: **m3beWarehouseInterfaceProcessFlag** with the following values:

Value	Description
*AUT	Message is executed in an asynchronous mode via a batch job. This setting is recommended for high volume environments. Users can find, correct and re-execute failed messages in MHS850 and can also use the mailbox functionality in M3 BE to be notified when a message fails. **Note:** Error messages are not be returned by the API.
*EXE	Message is executed interactively in M3 BE.

Important: Control properties enable messages to be executed online or via batch jobs in M3 BE. Leaving the control properties value blank means that the user must manually execute the messages via option 21 in MHS850/MMS850.

___**4** Click **Save**.

❑ Additional Settings for LoadAdvanceShipNotice

Complete the following steps in order to receive and process M3BE_In_LoadAdvanceShipNotice.

Important: These settings only valid for M3BE_In_ LoadAdvanceShipNotice.

___**1** In M3 BE, create a message partner in **MMS865/B**.

Whs	Leave blank
Msg	Set to I

Partner	Set to the name of the system that sends the LoadAdvanceShipNotice. Currently, only SW is valid.
Msg type	Set to SW

Select **Options > Create**.

___**2** In **MMS865/E**, populate **300 Partner manager** with a valid user entry.

Msg direction	I-Input
Partner	SW
Msg type	SW

___**3** In MEC Partner Admin Tool, go to partner agreement for M3BE_In_LoadAdvanceShipNotice.

In **Basic tab > Control Properties**, click **Add** and create the Control Properties: **m3beWarehouseInterfaceProcessFlag** with the following values:

Value	Description
*AUT	AdvanceShipNotice is created in an asynchronous mode via a batch job. This setting is recommended for high volume environments. Users can find, correct and re-execute failed messages in MHS850 and can also use the mailbox functionality in M3 BE to be notified when a message fails. **Note:** Error messages are not be returned by the API.
*EXE	MHS850MI is executed and the AdvanceShipNotice is created in M3 BE.

Important: Control properties enable messages to be executed online or via batch jobs in M3 BE. Leaving the control properties value blank means that the user must manually execute the messages via option 21 in MHS850.

___**4** Click **Save**.

❑ Additional Settings for ProcessItemMaster

Complete the following steps in order to receive and process M3BE_In_ProcessItemMaster.

Important: These steps are only valid for M3BE_In_ProcessItemMaster.

___**1** In M3 BE, create an item type in CRS040.

Create Template Item (MMS001/MMS002/MMS003) and Item Numbering rule (MWS050 and MWS051) with valid data. The item type should be set with status 10 in CRS040/E

Important: The field **Item interface controlled** has to be enabled in CRS040/E.

___**2** In **MMS865/B**, use the following settings:

Whs	Leave blank
Msg	Set to I
Partner	The value should be set to the Infor application id (retrieved from the logical id) in upper case. For example if the Logical id is: infor.plmprocess.sestw481, the application id will be plmprocess in upper case (PLMPROCESS).
Msg type	Set to BOD

Select **Options > Create**.

___**3** In **MMS865/E**, use the following settings:

Partner manager	Set to the M3 user that is managing the partner settings for this record
Default Item type	Set to the item type that will control which data is the default per item and how the item numbering is done.

___**4** In MEC Partner Admin Tool, go to partner agreement for ProcessItemMaster.

In **Basic tab > Control Properties**, click **Add** and create the following Control Properties

- **m3beItemInterfaceProcessFlag**

  This Control Property enables messages to be executed online or via batch jobs in M3 BE.

  The available values for **m3beItemInterfaceProcessFlag** are the following:

Value	Description
blank	Data is only added. Validation and import to M3 is done manually.

Value	Description
*VAL	Data is added and validated. Import to M3 is done manually.
*IMP	Data is validated and, if there are no validation errors, imported to M3.
*AUT	Same as *IMP, but the processing is done via auto job MHS250.

- **m3beLotControlMethod**

  This optional control property can be used to set the M3 BE field Lot control method (MITMAS.MMINDI) when creating new items using ProcessItemMaster.

  To use this control property, the incoming BOD must have either <SerialControlIndicator> or <LotControlIndicator> element set to true.

Value	Description
1 or 3	This value will be used if <LotControlIndicator> is set to true, and <SerialControlIndicator> is set to false or missing.
2 or 5	This value will be used if <SerialControlIndicator> is set to true

___**5** Click **Save**.

❑ Additional Settings for ProcessPulseAlert

It is possible to publish the M3 Business Engine Application messages to ION Pulse. Currently, all enabled application messages are published as a PulseAlert.

Important: The M3 BE user, which is the receiver of the application message, must be set up with a valid e-mail address in CRS111.

Complete the following steps in order to enable application messages for ProcessPulseAlert

___**1** In M3 Business Engine, use the following settings in CRS111/B, 'e-mail Address. Open'.

E-mail type 04

E-mail key <m3 be user>

Select **Option** > **Create**

___**2** In CRS111/E, click **Next**.

___**3** In M3 Business Engine CRS424, make sure that the Application Message you want to publish as a Pulse Alert is enabled.

___**4** Log on to Infor Federation Services on Infor ION and go to **Manage > Users > View User Details** and verify that the field **Person** is populated with e-mail address and it is the same e-mail as set up in M3 Business Engine CRS111 for a user.

Important: As the email address for an M3 BE user in CRS111 is published to the BOD element **DataArea\PulseAlert\DistributionPerson\PersonReference\IDs\ID**, the field **Person** for an Infor Federation Services user must match exactly the value in that BOD element.

M3 Business Message Data Translations Settings

M3 Business Message Data Translations is a function that translates soft coded M3 BE data to standards that can be understood by external systems, such as ION.

Note: Data translation is not needed when the M3 BE data is entered according to internationally acknowledged standards (ISO, X-12 EDI, etc.).

You can set M3 Business Message Data Translations in CRS881 and CRS882 in M3 BE.

- CRS881 stores the header data for information that should be translated. This is generated via MBMTRNUpdate in MEC Utilities client, available from your MEC installation.
- CRS882 stores the actual translation data. The date must be manually entered into M3 BE.

Entering or Editing Translation Data

Follow these steps below to set up data translation in CRS882 in M3 BE.

For data that is valid for the entire M3 BE company, data must be entered in company / *blank division. If data is different per division, enter data for specific company / division.

Important: The translation data information must be entered for the correct company/division.

Before you start Set up the ecUtilClient.properties with the connection details towards the MEC DB. For further instructions, refer to the *M3 Enterprise Collaborator Administration Guide*.

___**1** Run the MEC client tool MBMTrnUpdate.cmd for the valid API reference to generate CRS881 with correct header data.

___**2** Open CRS881 and filter on **Msg standard** ION to show all possible records generated from the delivered BODs.

Message	I/O	Parent element	Data element
AdvanceShipNotice	I	AdvanceShipNoticeHeader	TransportationMethodCode
AdvanceShipNotice	I	ShippingMaterial	ID
AdvanceShipNotice	O	AdvanceShipNoticeHeader	TransportationMethodCode
BillofMaterials	I	BillOfMaterialsHeader/ status	Code
ChartOfAccounts	O	ChartOfAccounts	DebitCreditFlag
Generic	O	Generic	companyBankAccountFieldType
Generic	I	Generic	UOMCode
Generic	I	Generic	CountryCode
Generic	O	Generic	CountryCode
Generic	O	Generic	Currency
Generic	O	Generic	IncotermsCode
Generic	O	Generic	TenantID
Generic	O	Generic	UOMCode
Generic	O	Generic	accountingEntity
Generic	O	Generic	languageCode

___**3** Select and right-click a business message and choose Related Options > Translate CTRL+11.

CRS882 opens.

___**4** In CRS882/B1, enter the M3 BE data and Message Data

___**5** Click "Create" or select Options > Create

- For **Translation of Language Codes**, add one record for each of the languages you want to translate in CRS882-panel for Company / *blank division.
  - The M3 BE data field should contain the M3 language code.
  - The Message data field should contain the corresponding language code according to RFC 1766 standard (for example en-US).
- For **Translation of Unit Of Measures**, add one record for each of Unit of Measures you want to translate in CRS882-panel for Company / *blank division.
  - The M3 BE data field should contain the M3 BE Unit of Measure.

- The Message data field should contain the corresponding Unit Of Measure Code according to X-12 EDI standard.

Note: Unless all applicable integrated systems are set up to use the same set of Unit Of Measures, data translation settings must be performed for both incoming and outgoing messages

- For **Translation of Country Codes**, add one record for each country code you want to translate in CRS882-panel for Company / *blank division.
  - The M3 BE data field should contain the M3 BE Unit of Measure.
  - The Message data field should contain the corresponding Country Code according to ISO 3166-1 standard.

  Note: Unless all applicable integrated systems are set up to use the same set of Country Codes, data translation settings must be performed for both incoming and outgoing messages

- For **Translation of Currency**, add one record for each Currency you want to translate in CRS882-panel for Company / *blank division.
  - The M3 BE data field should contain the M3 BE Currency.
  - The Message data field should contain the corresponding Currency code according to ISO 4217 standard.

- For **Translation of Transportation Method**, add one record for each of the Transportation Methods you want to translate in CRS882-panel for Company / *blank division.
  - The M3 BE data field should contain the M3 BE Delivery Term (defined in CRS065).
  - The Message data field should contain the corresponding Transportation Method according to Incoterm standard.

    Note: It's recommended to set up the delivery terms according to Incoterms in M3. In that case, no translation is needed. Otherwise data translation settings must be performed for both incoming and outgoing messages.

- For **Translation of Shipping material**, add one record for each of the Shipping Materials you want to translate in CRS882-panel for Company / *blank division.
  - The M3 BE data field should contain the M3 BE Packaging type (defined in MMS050).
  - The Message data field should contain the corresponding Packaging type that should be used when communicating with integrated systems.

  Note: Unless all applicable integrated systems are set up to use the same set of Shipping material, data translation settings must be performed for both incoming and outgoing messages

___**6** In CRS882/E, enter the Name and Description. Press Next.

Repeat these steps for each M3 BE BOD where data translation is applicable.

Settings to Enable Credit and Debit Flag in Outbound Mappings

Complete the following steps to add a credit or debit code (required by ION) in the outbound mapping in M3 Business Engine.

___**1** Open CRS881 and use the following message:

Msg std	Vers	Message	I/O	Parent element	Data element
ION	270	ChartOfAccounts	O	ChartOfAccounts	DebitCreditFlag

___**2** For each account group at level 5 in M3 (both on blank and on DIVI level), add a value for ASSET, LIABILITY, COST, and REVENUE.

Asset and Cost will create DEBIT as value, and Liability and Revenue as CREDIT.

___**3** Select Related options 'Translate' in CRS881 to get to CRS882 to enter the translation.

___**4** To enter field values in CRS882, use the following settings

Sorting order	4-M3 data
M3 data	Enter the account group number
Message data	Enter the translation in capital letters ASSET, LIABILITY, REVENUE, or COST.

Repeat these steps for each account groups where Credit and Debit Flag should be enabled.