



M3 Business Engine BOD User Guide

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Chapter 1

Introduction M3 Business Engine BOD

- ["What is an M3 BE BOD?" on page 4](#)
- ["About M3 BE BOD User Guide" on page 4](#)
- ["Knowledge Prerequisites" on page 4](#)

What is an M3 BE BOD?

M3 Business Engine Business Object Document (M3 BE BOD) is a solution that is designed to achieve a standardized interoperability between systems used within a company's infrastructure. M3 BE BOD's 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 an information to tell the receiver what information 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 BOD's. 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.

Infor systems, that has adopted this standard, uses Infor ION as the common mechanism to transport BOD's throughout the company infrastructure. This means that any system connected to ION can listen to BOD's sent by any other system, and in this way can be synchronized easily with the item information, for instance, controlled by another system, that is the System Of Record (SOR). Thanks to the use of the standardized transportation, none of the systems that consumes or creates BOD's need to be aware of the other participants of the infrastructure. This none-awareness eliminates a large hurdle in achieving an integration that otherwise requires a large project to solve and thus further simplifies the work to integrate systems.

About M3 BE BOD User Guide

This guide provides information on partner agreement set up for M3 BE Business Object Documents (M3 BE BODs), including configuration guidelines for incoming and outgoing partner agreements.

For information on installation procedures and post-installation steps, refer to the *M3 BE BOD Installation Guide* available on the download site.

Knowledge Prerequisites

M3 BE BOD configuration should be performed by consultants who have the following knowledge and experience:

- Have experience configuring messages in M3 Enterprise Collaborator and are familiar with the MEC Mapping Manager and the Partner Administration Tool (PAT).
- Have experience configuring the M3 Business Engine and M3 Foundation.
- Have experience configuring applications in the Lawson Grid.

Chapter 2

Preparatory Settings for M3 Business Engine BODs

- ["Creating XML Targets" on page 6](#)
- ["Creating XML Target Group" on page 8](#)
- ["Setting Receive Channel Objects" on page 8](#)
- ["Managing EventHub Subscriptions " on page 11](#)

M3 BE BOD mappings are configured in the M3 Enterprise Collaborator (MEC) Partner Admin Tool. The Partner Admin Tool manages the MEC server communication channels, detections, envelopes, flat file definitions, XML mappings, XSLT definitions, and other similar functions.

Before you start

- Set up an API reference as described in *M3 Enterprise Collaborator Partner Admin Tool User Guide*. Verify that the user defined in API reference is a valid M3 BE user in MNS150.
- Verify that the following Receive and Send Protocols are set in Partner Admin Tool:

- **IONDbIn**

This channel polls for ION messages from the ConnectionURL specified.

Property	Default Value	Description
BatchSize	50	Number of messages to read in each inbox poll.
BodTypes		A comma separated list of BodTypes to handle in this instance
ConnectionUri	path to jdbc	The JDBC connection uri.
DelayTime	10000	Time between inbox polls in milliseconds.
DriverClass		The JDBC driver class
UserName		Database user
Password		Database password

- **IONDbOut**

Protocol:	IONDbOut
Send Class:	com.intentia.ec.communication.IONDbOut
UI Class:	com.intentia.ec.partnerdamin.swt.manage.IONDbOutPanel

For further information, refer to the *M3 Enterprise Collaborator Partner Admin Tool User Guide*.

Creating XML Targets

To add new XML targets in Partner Admin Tool, follow these steps:

1. In Partner Admin Tool, click Manage > Detections.
2. Navigate to Targets tab > XML tab > New.
3. On Create new target window, enter a unique Name, Description, and Path information.
For recommended target names and path information, see tables below.
4. Enter the Path for the XML element (starting with "/")
5. Click OK to save your new XML target. The new XML target is now listed in the XML tab contents.

Create the following XML targets according to the steps above:

hub:1_publisher

Name	hub:1_publisher
-------------	-----------------

Description	Event Hub event publisher
Path	/EventData/Publisher
Default Namespace URI	

hub:2_documentname

Name	hub:2_documentname
Description	Event Hub event document name
Path	/EventData/DocumentName
Default Namespace URI	

hub:4_elementname01

Note: hub:3_ is saved for future use. Default Namespace URI should be left blank.

Name	hub:4_elementname01
Description	Event Hub event document element name #01
Path	/EventData/Document/ElementData/Name[1]
Default Namespace URI	

hub:5_elementvalue01

Name	hub:5_elementvalue01
Description	Event Hub event document element value #01
Path	/EventData/Document/ElementData/Value[1]
Default Namespace URI	

To set up further XML targets, define elements and their values in a numeric order.

Example for setting up further XML targets

Name	hub:6_elementname02
Description	Event Hub event document element name #02
Path	/EventData/Document/ElementData/Name[2]
Default Namespace URI	

Name	hub:7_elementvalue02
Description	Event Hub event document element value #02
Path	/EventData/Document/ElementData/Value[2]
Default Namespace URI	

Creating XML Target Group

Use this procedure to create XML target group.

1. In Partner Admin Tool, click Manage > Detections.
2. Navigate to Targets Groups tab > XML tab > Create group.
3. Create the following Target Groups:

AnalyticsHubValue01

AnalyticsHubValue02

4. Click Create to store the new XML target groups in the MEC database.

Use the navigation pane for *Unused targets/ Targets for selected group* to add the following XML targets to the XML target groups:

AnalyticsHubValue01

- hub:1_publisher
- hub:2_documentname
- hub:4_elementname01
- hub:5_elementvalue01

AnalyticsHubValue02

- hub:1_publisher
- hub:2_documentname
- hub:4_elementname01
- hub:5_elementvalue01
- hub:6_elementname02
- hub:7_elementvalue02

IMPORTANT The Target Group hierarchy has to be the same as the Path defined for the XML targets, see [Creating XML Targets](#).

Setting Receive Channel Objects

To set up receive channel objects, navigate to Manage > Communication > Receive tab > New in Partner Admin Tool.

Set the following properties for each M3 BE BOD receive channel object below.

NOTE The name of the receive channel is used later in partner agreement set up. Add a unique, descriptive name to the receive channel.

Receive channel settings for EventHub Initial Load channels

Name	MEC-M3_In_[BE Env Name]_InitialLoad
Protocols	EventHub Subscriber
DetectionOverride Indicates if a channel is fixed to a particular detection group.	Default value: 0
Ordered Activates message ordering.	Default value: 0
PersistFlag Activates persistence.	Default value: 0
Priority Sets the Prioritization of messages received into this channel (1-3)	5
RunOnHost Set to which host to run the channel.	Default value: any
SetVariationId Set a variation id on all incoming messages	Default value: 1
StopTimeOut Number of milliseconds MEC waits during a stop before terminating the channel	Default value: 0 (disables this feature)
ionMessageID	InitialLoadShow

Receive channel settings for EventHub Subscriber channels

Name	MEC-M3_In_[BE Env Name]_Ordered	MEC-M3_In_[BE Env Name]_NonOrdered
Protocols	EventHub Subscriber	EventHub Subscriber
DetectionOverride Indicates if a channel is fixed to a particular detection group.	Default value: 0	Default value: 0
Ordered Activates message ordering.	Default value: 1	Default value: 0
PersistFlag Activates persistence.	Default value: 1	Default value: 1
Priority Sets the Prioritization of messages received into this channel (1-3)	3	3

Name	MEC-M3_In_[BE Env Name]_Ordered	MEC-M3_In_[BE Env Name]_NonOrdered
RunOnHost Set to which host to run the channel.	Default value: any	Default value: any
SetVariationId Set a variation id on all incoming messages	Default value: 1	Default value: 0
StopTimeOut Number of milliseconds MEC waits during a stop before terminating the channel	Default value: 0 (disables this feature)	Default value: 0 (disables this feature)

When created, click OK on the dialog and mark the Enabled checkbox to make the channels available for further edit.

Receive channel settings for IONDbIn channels

Name	ION_In_[BE Env Name]_Ordered	ION_In_[BE Env Name]_NonOrdered
Protocols	IONDbIn	IONDbIn
BatchSize The maximum number of messages to process at each run Default value: 50	10	Default value: 50
BODTypes A comma separated list of Bod types to handle in this instance	All inbound BODs with variation ID <i>Sync.BillOfMaterials</i>	All inbound NonSync BODs <i>Process.ItemMaster</i> <i>Process.CustomerPartyMaster</i> <i>Acknowledge.BillOfMaterials</i> <i>Show.BillOfMaterials</i>
ConnectionUri	The JDBC connection uri	The JDBC connection uri
DelayTime Default value: 10000	5000	5000
DriverClass	The JDBC driver class	The JDBC driver class
Ordered Indicates if a channel processes messages in an ordered way (0 or 1)	1	0
Password	Database password	Database password
Username	Database user	Database user

When created, click OK on the dialog and mark the Enabled checkbox to make the channels available for further edit.

Managing EventHub Subscriptions

Use this procedure to set up EventHub Subscriptions and to define the order MEC should handle the incoming BODs.

For complete list of M3 BE BOD Nouns, see "[M3 BE BOD Nouns - 10.2.0.0](#)" on page 34 as a reference.

1. In Partner Admin Tool, navigate to Manage > EventHub Subscriptions > New and set up the following EventHub Subscriptions for M3 BE BODs.

NOTE The name of the EventHub Subscriptions must match the name in the rule.

Example: Event \$OOHEAD_Create = new Event("SyncSalesOrder", EventOperation.CREATE);

Name	M3 [Noun].Show
Description	M3 Show[Noun]
Subscription	EventAnalytics:Show[Noun]

Name	M3 [Noun].Sync
Description	M3 Sync[Noun]
Subscription	EventAnalytics:Sync[Noun]

Name	M3 [Noun].Acknowledge
Description	M3 Acknowledge[Noun]
Subscription	EventAnalytics:Acknowledge[Noun]

Name	M3 [Noun].Process
Description	M3 Process[Noun]
Subscription	EventAnalytics:Process[Noun]

For detailed instructions about EventHub subscription channel set up, refer to the *M3 Enterprise Collaborator Partner Admin Tool User Guide*.

2. Double-click on the EventHub subscriptions to assign them to the correct receive channel.

IMPORTANT Each subscription should be associated with one subscriber channel only. See recommended settings below.

EventHub subscription	Channel Assignment
M3 [Noun].Show	MEC-M3_In_[BE environment name]_InitialLoad
M3 [Noun].Sync	MEC-M3_In_[BE environment name]_Ordered
M3 [Noun].Acknowledge M3 [Noun].Process	MEC-M3_In_[BE environment name]_NonOrdered

Chapter 3

Creating Partner Agreement Folder Structure

- ["Creating Partner Agreement Folder Structure" on page 12](#)

Creating Partner Agreement Folder Structure

Use this procedure to create and manage the structure for M3 BE BOD messages in Partner Admin tool.

1. In the Partner Admin Tool, navigate to Agreement View tab.
2. Right-click the Agreement area or the node within which you want to create a new node. Click Insert Group and name the newly created folder.

It is recommended to set up the following folder structure:

- M3BE
 - InitialLoadAgreements - for partner agreements used for initial load agreements.
 - ION - for partner agreements where the System of Records is M3 BE
 - Application - for partner agreements where the System of Records is the application (and not M3 BE)

3. Specify group control properties:

	Control Properties Name	Value
InitialLoadAgreements	ionToLogicalId	Change Value to the lid for the receiving application. Value is according to ION connection set up. lid://infor.[application name].[environment name]
ION	ionFromLogicalid	lid://infor.m3be.[BE environment name]
Application	ionToLogicalid	Value is according to ION connection set up lid://infor.[application name].[environment name]

4. Right-click a node within which you want to create a new agreement and click Insert Agreement. The newly created agreement appears on the right panel.

Insert the following partner agreements for the ION and other, application specific folder:

Folder	Partner agreements
InitialLoadAgreements	M3BE_Out_Show[Noun]
ION	M3BE_Out_Sync[Noun] M3BE_In_Process[Noun] M3BE_Out_Acknowledge[Noun]
Application specific	M3BE_In_Sync[Noun] M3BE_Out_Process[Noun] M3BE_In_Acknowledge[Noun]

For complete list of M3 BE BOD Nouns, see "[M3 BE BOD Nouns - 10.2.0.0](#)" on page 34 as a reference.

Chapter 4

Generic Partner Agreement Configuration Settings

- ["Partner Agreement Configuration Settings: M3 BE is SOR"](#) on page 14
- ["Partner Agreement Configuration Settings: M3 BE is not SOR"](#) on page 16
- ["Partner Agreement Configuration Settings for Process BODs"](#) on page 19

Partner Agreement Configuration Settings: M3 BE is SOR

Use these settings below as a reference to configure the partner agreements where the System of Record is M3 BE.

For complete list of applicable M3 BE BOD Nouns, see ["M3 BE BOD Nouns - 10.2.0.0"](#) on page 34 as a reference.

Basic

Name	Name of the mapping, see "M3 BE BOD Nouns - 10.2.0.0" on page 34.
Description	Description for the agreement (Optional)
Creator	Creator of the agreement (Optional)
Email	General information (Optional)

Detection

Choose Target Group *AnalyticsHubValue01* and specify the following values:

Target Name	Target XPath	Target Value
hub:1_publisher	/EventData/Publisher	EventAnalytics
hub:2_documentname	/EventData/DocumentName	[Verb][Noun]
hub:4_elementname01	/EventData/Document/ElementData/Name[1]	CONO
hub:5_elementvalue01	/EventData/Document/ElementData/Value[1]	M3 BE Company number

IMPORTANT If you leave an empty target value, the agreement will not be detected.

Processes

Process Name	Notes
Check Order	<p>Click Add and insert the following value for the first Primary Key Xpath: /EventData/Document/ElementData[1]/Value</p> <p>To differentiate each BOD, add as many Primary Key Xpath to the Partner agreement as the number of key fields in the corresponding master table in M3 BE: /EventData/Document/ElementData[2]/Value /EventData/Document/ElementData[3]/Value /EventData/Document/ElementData[4]/Value</p>
Archive	Archives a message in the MEC Archive folder (highly recommended).
XML transform	<p>API Reference: set to API reference for M3 BE environment</p> <p>Schema Location: enter the schema location for the mapping (see table below)</p> <hr/> <p>IMPORTANT Mark the Delete empty elements during transformation checkbox</p> <hr/> <p>Mapping: enter the file name for the mapping (see table below)</p>
Apply Envelope	<p>Envelope template: XML Declaration</p> <p>Envelope encoding: UTF-8</p>
Archive	Archives a message in the MEC Archive folder (highly recommended).
Validate	This process will validate the outgoing XML-file with the schema in the XML transform step (optional).
Send	<p>Compress Outbound: false</p> <p>Encoding: UTF-8</p> <p>Routing: IONDb_Out_[BE environment]</p>

Name	Content	Applicable processes in order
M3BE_Out_Sync[Noun]	<p>Schema Location: http://schema.infor.com/2.6.3/InforOAGIS/BODs/Developer/Sync[Noun].xsd</p> <p>Mapping name: M3BE14_[M3 BE Suite name]_Out_ION_Sync[Noun]_2_6_3</p>	<ol style="list-style-type: none"> 1. Check Order 2. Archive 3. XML transform 4. Apply Envelope 5. Archive 6. Validate 7. Send

Name	Content	Applicable processes in order
M3BE_Out_Show[Noun]	Schema Location: http://schema.infor.com/2.6.3/InforOAGIS/BODs/Developer/Show[Noun].xsd Mapping name: M3BE14_[M3 BE Suite name]_Out_ION_Show[Noun]_2_6_3	1. Archive 2. XML transform 3. Apply Envelope 4. Archive 5. Send
M3BE_In_Process[Noun]	Schema Location: http://schema.infor.com/2.6.3/InforOAGIS/BODs/Developer/Process[Noun].xsd Mapping name: M3BE14_[M3 BE Suite name]_Out_ION_Process[Noun]_2_6_3	For settings instructions, see " Partner Agreement Configuration Settings for Process BODs " on page 19
M3BE_Out_Acknowledge[Noun]	Schema Location: http://schema.infor.com/2.6.3/InforOAGIS/BODs/Developer/Acknowledge[Noun].xsd Mapping name: M3BE14_[M3 BE Suite name]_Out_ION_Acknowledge[Noun]_2_6_3	1. Archive 2. XML transform 3. Apply Envelope 4. Archive 5. Validate 6. Send

Error Handling

Not applicable for outgoing partner agreements.

When the partner agreement setup is completed, reload the MEC in Grid > MEC Management Pages > Reload.

Partner Agreement Configuration Settings: M3 BE is not SOR

Use these settings below as a reference to configure the partner agreements where the System of Record is not M3 BE.

For complete list of applicable M3 BE BOD Nouns, see "[M3 BE BOD Nouns - 10.2.0.0](#)" on page 34 as a reference.

Before you start

1. In Partner Admin Tool, go to Manage > Detections > Targets tab > XML tab > New > Create new target and specify the following targets:

Name	ION:[Verb][Noun]AccountingEntityId
Description	ION BOD [Verb][Noun] Accounting Entity
Path	/[Verb][Noun]/DataArea/[Noun]/[Noun]Header/DocumentID/ ID[@accountingEntity]
Default Namespace URI	http://schema.infor.com/InforOAGIS/2

Name	ION:[Verb][Noun]TenantId
Description	ION BOD [Verb][Noun] TenantID
Path	/[Verb][Noun]/DataArea/Sync/TenantID
Default Namespace URI	http://schema.infor.com/InforOAGIS/2

2. Go to Target Groups tab and create the *ION[Verb][Noun]* Target Group. Add the previously created targets to this group.
 3. Add Target Group *ION[Verb][Noun]* to the list of available detections under Detection Order tab.
-

Basic

Name	Name of the mapping, see " M3 BE BOD Nouns - 10.2.0.0 " on page 34.
Description	Description for the agreement (Optional)
Creator	Creator of the agreement (Optional)
Email	General information (Optional)

Detection

Choose Target Group *ION[Verb][Noun]* and specify the following values:

Target Name	Target XPath	Target Value
ION:Sync[Noun]AccountingEntityId	/[Verb][Noun]/DataArea/[Noun]/ [Noun]Header/DocumentID/ ID[@accountingEntity]	M3 BE Division
ION:Sync[Noun]TenantId	/[Verb][Noun]/DataArea/Sync/TenantID	M3 BE Company number

IMPORTANT If you leave an empty target value, the agreement will not be detected.

Processes

Process Name	Notes
Check Order	<p>Default Namespace: http://schema.infor.com/InforOAGIS/2</p> <p>Default Namespace Prefix: dns</p> <p>Specify the following Xpaths</p> <p>Click Add and insert the following value for the first Primary Key Xpath:</p> <ul style="list-style-type: none"> <p>Xpath: /dns:Sync[Noun]/dns:DataArea/dns:Sync/dns:TenantID</p> <p>No Attribute Existing: Leave blank</p> <p>Xpath: /dns:Sync[Noun]/dns:DataArea/dns:[Noun]/dns:[Noun]Header/dns:DocumentID/dns:ID</p> <p>No Attribute Existing: schemeName</p> <p>Xpath: /dns:Sync[Noun]/dns:DataArea/dns:[Noun]/dns:[Noun]Header/dns:DocumentID/dns:ID[@location]</p> <p>No Attribute Existing: schemeName</p> <p>Xpath: /dns:Sync[Noun]/dns:DataArea/dns:[Noun]/dns:[Noun]Header/dns:DocumentID/dns:ID[@accountingEntity]</p> <p>No Attribute Existing: schemeName</p> <p>VID Xpath: /dns:Sync[Noun]/dns:DataArea/dns:[Noun]/dns:[Noun]Header/dns:DocumentID/dns:ID[@variationID]</p> <p>VID No Attribute Existing: schemeName</p> <p>/EventData/Document/ElementData[1]/Value</p> <p>To differentiate each BOD, add as many Primary Key Xpath to the Partner agreement as the number of key fields in the corresponding master table in M3 BE:</p> <p>/EventData/Document/ElementData[2]/Value</p> <p>/EventData/Document/ElementData[3]/Value</p> <p>/EventData/Document/ElementData[4]/Value</p>
Archive	Archives a message in the MEC Archive folder (highly recommended).
XML transform	<p>API Reference: set to API reference for M3 BE environment</p> <p>Schema Location: not specified</p> <p>Mapping: enter the file name for the mapping (see table below)</p>

Name	Content	Applicable processes in order
M3BE_In_Sync[Noun]	Schema Location http://schema.infor.com/2.6.3/InforOAGIS/BODs/Developer/Sync[Noun].xsd Mapping name M3BE14_[M3 BE Suite name]_In_ION_Sync[Noun]_2_6_3	1. Check Order 2. Archive 3. XML transform
M3BE_Out_Process[Noun]	Schema Location http://schema.infor.com/2.6.3/InforOAGIS/BODs/Developer/Process[Noun].xsd Mapping name M3BE14_[M3 BE Suite name]_Out_ION_Process[Noun]_2_6_3	For settings instructions, see " Partner Agreement Configuration Settings for Process BODs " on page 19
M3BE_In_Acknowledge[Noun]	Schema Location http://schema.infor.com/2.6.3/InforOAGIS/BODs/Developer/Acknowledge[Noun].xsd Mapping name M3BE14_[M3 BE Suite name]_In_ION_Acknowledge[Noun]_2_6_3	1. Archive 2. XML transform

Error Handling

NOTE These settings are not applicable for outgoing partner agreements.

Order	Process Name	Notes
1	Crt ConfirmBOD	
2	Send	Compress Outbound: false Encoding: UTF-8 Routing: IONDb_Out_[BE environment]

When the partner agreement setup is completed, reload the MEC in Grid > MEC Management Pages > Reload.

Partner Agreement Configuration Settings for Process BODs

Use these settings below as a reference to configure the process partner agreements.

For complete list of applicable M3 BE BOD Nouns, see "[M3 BE BOD Nouns - 10.2.0.0](#)" on page 34 as a reference.

Basic

Name	Name of the mapping, see " M3 BE BOD Nouns - 10.2.0.0 " on page 34.
Description	Description for the agreement (Optional)
Creator	Creator of the agreement (Optional)
Email	General information (Optional)

Detection

For M3BE_Out_Process[Noun], set up the following detection:

Choose Target Group *AnalyticsHubValue01* and specify the following values:

Target Name	Target XPath	Target Value
hub:1_publisher	/EventData/Publisher	EventAnalytics
hub:2_documentname	/EventData/DocumentName	Process[Noun]_update
hub:4_elementname01	/EventData/Document/ElementData/Name[1]	CONO
hub:5_elementvalue01	/EventData/Document/ElementData/Value[1]	M3 BE Company number

For M3BE_In_Process[Noun], set up the following detection:

Choose Target Group *IONProcess[Noun]* and specify the following values:

Target Name	ION:Process[Noun]TenantID
Target XPath	/Process[Noun]/DataArea/Process/TenantID
Target Value	M3 BE Company number

IMPORTANT If you leave an empty target value, the agreement will not be detected.

Processes

Process Name	Notes
Archive	Archives a message in the MEC Archive folder (highly recommended).
XML transform	<p>API Reference: set to API reference for M3 BE environment</p> <p>Schema Location: enter the schema location for the mapping (see table below)</p> <hr/> <p>IMPORTANT Mark the Delete empty elements during transformation checkbox</p> <hr/> <p>Mapping: enter the file name for the mapping (see table below)</p>

Process Name	Notes
Apply Envelope	Envelope template: XML Declaration Envelope encoding: UTF-8
Archive	Archives a message in the MEC Archive folder (highly recommended).
Send	Compress Outbound: false Encoding: UTF-8 Routing: IONDb_Out_[BE environment]

Name	Content	Applicable processes in order
M3BE_In_ Process[Noun] (SOR: M3 BE)	Schema Location: http://schema.infor.com/2.6.3/InforOAGIS/BODs/ Developer/Process[Noun].xsd Mapping name: M3BE14_[M3 BE Suite name]_In_ION_ Process[Noun]_2_6_3	1. Archive 2. XML transform
M3BE_Out_ Process[Noun] (SOR is not M3 BE)	Schema Location: http://schema.infor.com/2.6.3/InforOAGIS/BODs/ Developer/Process[Noun].xsd Mapping name: M3BE14_[M3 BE Suite name]_Out_ION_ Process[Noun]_2_6_3	1. Archive 2. XML transform 3. Apply Envelope 4. Archive 5. Send

Error Handling

NOTE These settings are not applicable for outgoing partner agreements.

Order	Process Name	Notes
1	Crt ConfirmBOD	
2	Send	
3	XML transform	API Reference: set to API reference for M3 BE environment Schema Location: not specified Mapping: M3BE14_[M3 BE Suite name]_Error_Out_ Acknowledge[Noun]_2_6_3
4	Apply Envelope	Envelope template: XML Declaration Envelope encoding: UTF-8

Order	Process Name	Notes
5	Send	Compress Outbound: false Encoding: UTF-8 Routing: IONDb_Out_[BE environment]

When the partner agreement setup is completed, reload the MEC in Grid > MEC Management Pages > Reload.

Chapter 5

M3 Business Message Data Translations Settings

- ["Generic Header Data" on page 23](#)
- ["Generic Data Translation" on page 24](#)
- ["M3 BE Data Translation Settings for SyncBillOfMaterials" on page 25](#)
- ["M3 BE Data Translation Settings for SyncItemMaster" on page 26](#)
- ["M3 BE Data Translation Settings for SyncCustomerPartyMaster" on page 28](#)
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M3 Business Message Data Translations is a tool that will translate M3 BE data, for example language codes, to standards that can be understood by external systems, in this case by ION. In M3 BE, language codes can be set up arbitrarily. ION though requires language codes to be presented according to ISO-standard 639-1.

M3 Business Message Data Translations are set up in CRS881 and CRS882 in M3 BE.

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

Generic Header Data

Run the MEC client tool `MBMTRnUpdate.cmd` to populate CRS881 with correct header data. The table below displays all possible records generated from the delivered BODs.

Msg standard	Version	Message	I/O	Parent element	Data element
ION	1	Generic	I	Generic	UOMCode
ION	1	Generic	O	Generic	CountryCode
ION	1	Generic	O	Generic	Currency
ION	1	Generic	O	Generic	UOMCode
ION	1	Generic	O	Generic	languageCode
ION	262	BillOfMaterials	I	BillOfMaterialsHeader/status	Code
ION	262	BillOfMaterials	I	BillOfMaterialsLine/quantity	unitcode

Msg standard	Version	Message	I/O	Parent element	Data element
ION	262	BillOfMaterials	O	BillOfMaterialsHeader/status	Code
ION	262	BillOfMaterials	O	BillOfMaterialsLine/quantity	unitcode
ION	262	BillOfMaterials	O	BillOfMaterialsLine/status	Code
ION	262	ItemMaster	O	ItemLocation/ItemStatus	Code
ION	262	ItemMaster	O	ItemLocation/ItemStatus	Description
ION	262	ItemMaster	O	ItemMasterHeader/ ItemStatus	Code
ION	262	ItemMaster	O	ItemMasterHeader/ ItemStatus	Description
ION	263	CustomerPartyMaster	I	Customer/Status	Code
ION	263	CustomerPartyMaster	O	SalesOrderHeader/ LocationStatus	Code
ION	263	SalesOrder	O	SalesOrderHeader/ LocationStatus	Code
ION	263	SalesOrder	O	SalesOrderHeader/ ShipToParty/L	Codeion/Status
ION	263	SalesOrder	O	SalesOrderHeader/Status	Code
ION	263	SalesOrder	O	SalesOrderLine/Status	Code
ION	263	Shipment	O	ShipmentHeader	Status
ION	263	ShipmentDelivery	O	ShipmentHeader	Status

Generic Data Translation

Translation Data must be entered manually in CRS882. For data that is

- valid for the entire M3 BE company, data must be entered in company / *blank division.
- different per division, data must be entered in specific company / division.

IMPORTANT The translation data must be entered for the correct company/division.

To enter or edit translation data, follow these steps:

1. Open CRS881 and select a business message
2. Right-click a business message and choose Related Options > Translate CTRL+11
3. In CRS882/B1, enter the M3 BE data and Message Data
4. 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 ISO 639-1 standard.

For **Translation 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.
5. In CRS882/E, enter the Name and Description. Press Next.
 6. Repeat these steps for each translation data.

NOTE Data translation is not needed when the M3 BE data is entered according to standards.

M3 BE Data Translation Settings for SyncBillOfMaterials

Use these settings below to set up data translation for SyncBillOfMaterials in CRS882.

Data Translation for Messages Sent to M3

Msg standard: ION

Business msg: BillOfMaterials

Parent element: BillOfMaterialsHeader/Status/

Data element: Code

M3 BE data	Message data	Name
10	Pending	Preliminary
10	Inactive	Preliminary
20	Active	Released
20	Open	Released
90	Deleted	Blocked

Data Translation for Messages Sent from M3

Msg standard: ION

Business msg: BillOfMaterials

Parent element: BillOfMaterialsHeader/Status/

Data element: Code

M3 BE data	Message data	Name
10	Inactive	Preliminary

M3 BE data	Message data	Name
20	Active	Released
90	Deleted	Blocked

M3 BE Data Translation Settings for SyncItemMaster

Use these settings below to set up data translation for SyncItemMaster in CRS882.

ItemMasterHeader/ItemStatus/Code

Msg standard: ION

Business msg: ItemMaster

Parent element: ItemMasterHeader/ItemStatus

Data element: Code

M3 BE data	Message data	Name	Description
10	Pending	Preliminary Itm	Preliminary Item
15	Pending	Replacement Itm	Replacement Item
20	Open	Released Item	Released Item
30	Open	Alternate Item	Alternate Item
40	Open	Low Turnover It	Low Turnover Item
50	DoNotReorder	Discontinued	Discontinued Item
80	Obsolete	Not Carried	Not stocked, returns are allowed
90	Obsolete	No Longer Stock	No Longer Stocked
99	Deleted	Itm No. Changed	Item Number Changed

ItemMasterHeader/ItemStatus/Description

Msg standard: ION

Business msg: ItemMaster

Parent element: ItemMasterHeader/ItemStatus

Data element: Description

M3 BE data	Message data	Name	Description
10	Preliminary Item	Preliminary Itm	Preliminary Item
15	Replacement Item	Replacement Itm	Replacement Item
20	Released Item	Released Item	Released Item

M3 BE data	Message data	Name	Description
30	Alternate Item Avialable	Alternate Item	Alternate Item Avialable
40	Low Turnover Item	Low Turnover It	Low Turnover Item
50	Discontinued Item	Discontinued	Discontinued Item
80	Not Carried	Not Carried	Not stocked, returns are allowed
90	No Longer Stocked	No Longer Stock	No Longer Stocked
99	Item Number Changed	Itm No. Changed	Item Number Changed

ItemLocation/ItemStatus/Code

Msg standard: ION

Business msg: ItemMaster

Parent element: ItemLocation/ItemStatus

Data element: Code

M3 BE data	Message data	Name	Description
5	Pending	Template Item	Template Item
10	Pending	Preliminary Itm	Preliminary Item
20	Open	Released Item	Released Item
50	DoNotReorder	Discont. Item	Discontinued Item
80	Obsolete	Not Carried	No Longer Carried
90	Deleted	Not Stocked	Not Stocked

ItemLocation/ItemStatus/Description

Msg standard: ION

Business msg: ItemMaster

Parent element: ItemLocation/ItemStatus

Data element: Description

NOTE Use the value of the Message data as Name and Description.

M3 BE data	Message data
5	Template Item
10	Preliminary Item
20	Released Item
50	Discontinued Item

M3 BE data	Message data
80	Not Carried
90	Not Stocked

M3 BE Data Translation Settings for SyncCustomerPartyMaster

Use these settings below to set up data translation for SyncCustomerPartyMaster in CRS882.

Customer/Status

Msg standard: ION

Business msg: CustomerPartyMaster

Parent element: Customer/Status

Data element: Code

NOTE Use the value of the Message data as Name and Description.

M3 BE data	Message data
10	Hold
10	Pending
10	Prospect
10	Rejected
20	Approved
20	Open
90	Closed
90	Deleted

M3 BE Data Translation Settings for SyncSalesOrder

Use these settings below to set up data translation for SyncSalesOrder in CRS882.

SalesOrderHeader/LocationStatus

Msg standard: ION

Business msg: SalesOrder

Parent element: SalesOrderHeader/LocationStatus

Data element: Code

NOTE Use the value of the Message data as Name and Description.

M3 BE data	Message data
10	Pending
11	Pending
12	Pending
20	Open
90	Closed

SalesOrderHeader/ShipToParty/L

Msg standard: ION

Business msg: SalesOrder

Parent element: SalesOrderHeader/ShipToParty/L

Data element: Code

NOTE Use the value of the Message data as Name and Description.

M3 BE data	Message data
10	Pending
11	Pending
12	Pending
20	Open
90	Closed

SalesOrderHeader/Status

Msg standard: ION

Business msg: SalesOrder

Parent element: SalesOrderHeader/Status

Data element: Code

NOTE Use the value of the Message data as Name and Description.

M3 BE data	Message data
10	Hold
20	Open
22	Approved
23	Approved
24	Approved

M3 BE data	Message data
26	PartiallyShipped
27	PartiallyShipped
29	Approved
33	Approved
34	Approved
36	PartiallyShipped
37	PartiallyShipped
39	Approved
44	Approved
46	PartiallyShipped
47	PartiallyShipped

M3 BE Data Translation Settings for SyncShipment

Use these settings below to set up data translation for SyncShipment in CRS882.

ShipmentHeader

Msg standard: ION

Business msg: Shipment

Parent element: ShipmentHeader

Data element: Status

NOTE Use the value of the Message data as Name and Description.

M3 BE data	Message data
20	Allocated
40	Staged
60	Shipped
90	Cancelled

SalesOrderHeader/ShipToParty/L

Msg standard: ION

Business msg: ShipmentDelivery

Parent element: ShipmentHeader

Data element: Status

NOTE Use the value of the Message data as Name and Description.

M3 BE data	Message data
01	Open
02	Hold
03	Hold
05	Allocated
50	Released
60	Shipped
90	Cancelled

M3 BE Settings for ProcessItemMaster

In order to receive and process incoming ProcessItemMaster BOD, Partner settings must be configured in MMS865 for M3 BE.

IMPORTANT M3 BOD ProcessItemMaster can only manage creating new items in M3, i.e. action code "Add" in the BOD.

Before you start A valid Item type with Template item and Item numbering rule must be set.

- CRS040 – Item type
The item type should be set with status 10 in CRS040/E
- MMS001/MMS002/MMS003 – Template item
- MWS050 and MWS051 – Item Numbering rule

For further information, refer to the M3 BE Companion help.

Use the following settings on **CRS865/B**:

Whs	Leave blank
Msg	Set to I
Partner	Set to the ION componentID of the system that sends the ProcessItemMaster. Currently, only PLM is valid.
Msg type	Set to BOD

Use the following settings on **CRS865/E**:

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.

Chapter 6

Data Export via M3 M3 Business Engine BODs: Initial Load Scenario

Data Export via M3 BE BODs: Initial Load Scenario

To populate another system connected to ION, use the non-event driven scenario for initial load.

In M3 BE, BE programs create a request event on the master table for the specific noun (see table below). After that, the normal architecture for BODs are used.

To initiate a initial load for a noun, use MI-program – EVS002MI in MI-Test or via M3-API-WS <http://<serveraddress>:port/m3api-rest/execute/EVS002MI/Initiate?FILE=<file>>

To start an export of data, use the command Initiate. This command has the following parameters:

- **FILE:** Mandatory; It is the master table for a specific BOD.
- **NOAL:** Number of actions; It can be used for testing purpose and to limit the number of requests for the FILE.

Noun	FILE
AccountingBookDefinition	CMNDIV
AccountingChart	CSYTAB
AccountingEntity	CMNDIV
AccountingJournal	CSYTAB
CarrierParty	CIDMAS
ChartOfAccounts	FCHACC
CodeDefinitionGeneralCode	CSYTAB
Currency	CSYTAB
CurrencyExchangeRateMaster	CCURRA
CustomerPartyMaster	OCUSMA
FinancialCalendar	CSYPER
InventoryAdjustment	MITTRA
InventoryCount	MITTKV
InventoryHold	MITTRA
ItemMaster	MITMAS
Location	MITWHL

Noun	FILE
SalesOrder	OOHEAD
Shipment	DCONSI
Shipment for Delivery	MHDISH
ShipToPartyMaster	OCUSMA
SourceSystemGLMovement	not applicable
SourceSystemJournalEntry	FGLEDG

Appendix A

List of Available M3 Business Engine BOD Nouns

M3 BE BOD Nouns - 10.2.0.0

Name	Noun	System of Records
M3BE_Out_Sync[Noun] M3BE_Out_Show[Noun]	AccountingBookDefinition AccountingChart AccountingEntity AccountingJournal CarrierParty ChartOfAccounts CodeDefinition ("GeneralCode") Currency CurrencyExchangeRateMaster CustomerPartyMaster FinancialCalendar InventoryAdjustment InventoryCount InventoryHold ItemMaster Location SalesOrder Shipment Shipment("Delivery") ShipToPartyMaster SourceSystemGLMovement SourceSystemJournalEntry SupplierPartyMaster	M3 BE
M3BE_In_Process[Noun] M3BE_Out_Acknowledge[Noun]	CustomerPartyMaster ItemMaster	M3 BE

Name	Noun	System of Records
M3BE_In_Sync[Noun] M3BE_Out_Process[Noun] M3BE_In_Acknowledge[Noun]	BillOfMaterials	not M3 BE