Business Message Documentation

Application Type	**EDI Business Message (EBM)**
M3 version	**BE15**
M3 Business Message	**DA - Dispatch Advice**
Message Direction	**Inbound**
Message Application	**X12 945 4010**

Map name	**M3BE15_DA_In_X12_945_4010**

Introduction

This document is a Message Implementation Guideline (MIG) for an EDI Business Message (EBM) used in Infor's enterprise application, M3. It defines in detail the collaboration logic between an EDI message specification and the M3 system. This logic is implemented in an EBM, which is a component in the M3 EDI solution.

The MIG supplied by Infor is usually based on a standard MIG from an EDI implementation standardization organization such as EANCOM, Odette or VICS, and is a subset of the standard MIG, based on the business functionality in M3.

This document consists of two major sections: Elements Used and Element Documentation. The section Elements Used provides an overall view of all EDI elements used in this MIG. The section Element Documentation provides detailed specifications of each and every group, segment, composite and element implemented in the EBM. The element information is presented in the order in which the elements are defined in the standard EDI message.

Elements Used

This section contains a summary of all elements used in this message application, that is, the elements that have documentation attached. Group number, segment name, composite name (if applicable), element name and description are provided for these elements. The elements are listed in message structure order.

Group	Segment	Composite /Element	Element	Description
0 M 1				
	N9 C 10			N9 - Reference Identification
			0127 C	Reference Identification
			0128 M	Reference Identification Qualifier
	SE M 1			SE - Transaction Set Trailer
			0096 M	Number of Included Segments
	ST M 1			ST - Transaction Set Header
			0143 M	Transaction Set Identifier Code
	W06 M 1			W06 - Warehouse Shipment Identification
			0145 C	Shipment Identification Number
			0373 C	Date
			0514 M	Reporting Code
1 C 10				Loop Id N1
	N1 M 1			N1 - Name
			0067 C	Identification Code
			0098 M	Entity Identifier Code
4 C 9999999				Loop Id W12
	N9 C 200			N9 - Reference Identification
			0127 C	Reference Identification
			0128 M	Reference Identification Qualifier

Group	Segment	Composite /Element	Element	Description
4 **C 9999999**				Loop Id W12
	W12 **C 1**			W12 - Warehouse Item Detail
			0081 **C**	Weight
			0187 **C**	Weight Qualifier
			0234 **C**	Product/Service ID
			0235 **C**	Product/Service ID Qualifier
			0368 **M**	Shipment/Order Status Code
			0382 **C**	Number of Units Shipped

Element Documentation

This section is based on the same structure as the section Elements Used, but here you see all the available descriptions, sequence numbers (in the complete message) for segments and elements (within parentheses). It also includes M3 application documentation and the XPath for the corresponding XML element (XML is one of the technologies that is used for EBM applications), which specifies the position of the element in the message structure. M3 application documentation, as well as the corresponding XPath, can exist on a group, segment, composite and/or element level. Most common is the element level.

M3 application documentation consists of three sections: M3 Application Description, M3 Application Data Translation and M3 Application Specification.

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M3 Application Description
This section provides a general description in "business process language" and describes how the element is used in relation to the M3 logic, for example, which qualifiers are used and which M3 data is used.

M3 Application Data Translation
This section specifies whether or not the data can be translated between M3 and the message. Data translation is used, for example, to translate unit of measure ("STK" to "PCS"), currency codes ("PND" to "GBP") and qualifiers ("BY" to "BU"). Data translations are managed by the M3 program "Business Message Data Translation. Display" (CRS881) and the program "Business Message Data. Translate" (CRS882). The key used in (CRS881) for the element's data translation is provided.

M3 Application Specifiation
This section contains the specification that constitutes the base for the EBM. It describes whether the element uses data from or transfers data to a M3 API, uses calculated data and/or fixed data. It also describes how and when to make the M3 API calls, which input and output fields to use, etc. Additional information may also be given, such as conditions or notes to clarify specific logic used.

Taken together, the sections M3 Application Description and M3 Application Specification define the functionality of the EBM.

Group: 0	M 1	Segment Group: 0

Segment: **N9**	**C 10**	N9 - Reference Identification
0127	C AN 30	Reference Identification

M3 Application Description
Reference Identification as Picking list suffix

M3 Application Specification
Condition: e01_0128 equals "PK"

API dataMI program: MHS850MI Transaction: AddCOReceipt Field:
PLSX

XPath
X12945/N9/e02_0127

0128	M AN 3	Reference Identification Qualifier

M3 Application Description
'PK' = Packing List Number

M3 Application Specification
Fixed data: "PK"

XPath
X12945/N9/e01_0128

Segment: **SE**	**M 1**	SE - Transaction Set Trailer
0096	M N0 10	Number of Included Segments

M3 Application Specification

Add UserFunction Manifest_Update
setManifestInfo("map:keyField1", "CONO");
setManifestInfo("map:keyValue1", CONO);
setManifestInfo("map:keyField2", "DIVI");
setManifestInfo("map:keyValue2", DIVI);
setManifestInfo("map:keyField3", "DLIX");
setManifestInfo("map:keyValue3", DLIX);

XPath
X12945/SE/e01_0096

Group: 0	M 1	Segment Group: 0

Segment: ST	M 1	ST - Transaction Set Header
0143	M AN 3	Transaction Set Identifier Code

M3 Application Description
Transaction set identifier code as Message type

M3 Application Specification
API dataMi program: MHS850MI Transaction: AddCOPick Field: E065

API Call: OIS100MI/GetUserInfo
Output field: ZDCONO: CONO
Output field: ZDDIVI: DIVI

XPath
X12945/ST/e01_0143

Segment: W06	M 1	W06 - Warehouse Shipment Identification
0145	C AN 30	Shipment Identification Number

M3 Application Description
Shipment Identification Number as Delivery index

M3 Application Specification
API dataMI program: MHS850MI Transaction: AddCOPick Field: DLIX

XPath
X12945/W06/e04_0145

0373	C AN 8	Date

M3 Application Description
Date as Date generated

M3 Application Specification
API dataMI program: MHS850MI Transaction: AddCOPick Field: GEDT

XPath
X12945/W06/e03_0373

Group: 0	M 1	Segment Group: 0
Segment: **W06**	**M 1**	W06 - Warehouse Shipment Identification
0514	M AN 1	Reporting Code

M3 Application Description
'F' = Full detail

M3 Application Specification
Condition: e01_0514 equals "F" = Full detail else terminate transaction

M3 Data Translation
Message standard: "X12" Version: "4010" Message: "945" Parent elements: "g000/W06" Data element: "e01_0514" Movex table: "n/a" Movex field: "n/a"

XPath
X12945/W06/e01_0514

Group: 1	C 10	Segment Group: 1
Segment: **N1**	**M 1**	N1 - Name
0067	C AN 80	Identification Code

M3 Application Description
Identification code as Customer or Warehouse

M3 Application Specification
Condition: e01_0098 equals "ST"

API dataMI program: MHS850MI Transaction: AddCOPick Field: CUNO

Condition: e01_0098 equals "SF"

API dataMI program: MHS850MI Transaction: AddCOPick Field: WHLO

API dataMI program: MHS850MI Transaction: AddCOPick Field: E0PA Note: untranslated

M3 Data Translation
Condition:e01_0098 equals "ST"

Message standard: "X12" Version: "4010" Message: "945" Parent elements: "g001/N1" Data element: "e04_0067" Condition element: "e01_0098" Condition data: "ST" Movex table: "OCUSMA" Movex field: "OKCUNO"

Condition:e01_0098 equals "SF"

Message standard: "X12" Version: "4010" Message: "945" Parent elements: "g001/N1" Data element: "e04_0067" Condition element: "e01_0098" Condition data: "SF" Movex table: "MITWHL" Movex field: "MWWHLO"

XPath
X12945/LOOP_N1_g001/N1/e04_0067

Group: 1	C 10	Segment Group: 1
Segment: **N1**	M 1	N1 - Name
0067	C AN 80	Identification Code

M3 Application Description
Identification code as Customer or Warehouse

M3 Application Specification
Condition: e01_0098 equals "ST"

API dataMI program: MHS850MI Transaction: AddCOPick Field:
CUNO

Condition: e01_0098 equals "SF"

API dataMI program: MHS850MI Transaction: AddCOPick Field:
WHLO

API dataMI program: MHS850MI Transaction: AddCOPick Field:
E0PA Note: untranslated

M3 Data Translation
Condition:e01_0098 equals "ST"

Message standard: "X12" Version: "4010" Message: "945" Parent
elements: "g001/N1" Data element: "e04_0067" Condition element:
"e01_0098" Condition data: "ST" Movex table: "OCUSMA" Movex
field: "OKCUNO"

Condition:e01_0098 equals "SF"

Message standard: "X12" Version: "4010" Message: "945" Parent
elements: "g001/N1" Data element: "e04_0067" Condition element:
"e01_0098" Condition data: "SF" Movex table: "MITWHL" Movex field:
"MWWHLO"

XPath
X12945/LOOP_N1_g001/N1/e04_0067

0098	M AN 3	Entity Identifier Code

M3 Application Description
'ST' = Ship To
'SF' = Ship From
'DE' = Depositor

M3 Application Specification
Fixed data: "ST" or "SF" or "DE"

XPath
X12945/LOOP_N1_g001/N1/e01_0098

Group: 4	C 9999999	Segment Group: 4
Segment: **N9**	**C 200**	N9 - Reference Identification
0127	C AN 30	Reference Identification

M3 Application Description
Reference Identification as Order number or Order line Location number

M3 Application Specification
Condition: e01_0128 equals "PO"

API dataMI program: MHS850MI Transaction: AddCOPick Field: RIDN

Condition: e01_0128 equals "LI"

API dataMI program: MHS850MI Transaction: AddDOReceipt Field: RIDL

Condition: e01_0128 equals "PS"

API dataMI program: MHS850MI Transaction: AddCOPick Field: RIDI

Condition: e01_0128 equals "LU"

API dataMI program: MHS850MI Transaction: AddCOPick Field: WHSL

API call: MHS850MI/AddCOPick
Input field CONO: MHS850MI/GetUserinfo Output Field: CONO
Input field PRFL: Fixed data "*EXE"

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/N9/e02_0127

0128	M AN 3	Reference Identification Qualifier

M3 Application Description
'PO' = Purchase Order number
'LI' = Line item identifier
'LU' = Location number

M3 Application Specification
Fixed data: "PO" or "LI" or "LU"

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/N9/e01_0128

Group: 4	C 9999999	Segment Group: 4
Segment: **W12**	**C 1**	W12 - Warehouse Item Detail
0081	C N 10	Weight

M3 Application Description
Weight as Gross weight

M3 Application Specification
Condition: e11_0187 equals "G"

API dataMI program: MHS850MI Transaction: AddCOPick Field: GRWE

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e10_0081

M3 Application Specification
Condition: e14_0187 equals "G"

API dataMI program: MHS850MI Transaction: AddCOPick Field: GRWE

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e13_0081

0187	C AN 2	Weight Qualifier

M3 Application Description
'G' = Gross weight

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e11_0187

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e14_0187

Group: 4	C 9999999	Segment Group: 4

Segment: **W12**	**C 1**	W12 - Warehouse Item Detail
0234	C AN 48	Product/Service ID

M3 Application Description

'VN' = Vendor's item number as Item number

'EN' = European Article Number as Alias number

'UP' = UPC Consumer Package Code as Alias number

'UC' = UPC Suffix as Alias number

M3 Application Specification

Condition: e07_0235 equals "VN"

API dataMI program: MHS850MI Transaction: AddCOPick Field: ITNO

Condition: e07_0235 equals "EN"

API dataMI program: MHS850MI Transaction: AddCOPick Field: POPN

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWT = "02"

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWQ = "EA13"

Condition: e07_0235 equals "UP" or "UC"

API dataMI program: MHS850MI Transaction: AddCOPick Field: POPN

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWT = "02"

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWQ = "UPC"

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e08_0234

Group: 4	C 9999999	Segment Group: 4
Segment: **W12**	**C 1**	W12 - Warehouse Item Detail
0234	C AN 48	Product/Service ID

M3 Application Description

'VN' = Vendor's item number as Item number

'EN' = European Article Number as Alias number

'UP' = UPC Consumer Package Code as Alias number

'UC' = UPC Suffix as Alias number

M3 Application Specification

Condition: e17_0235 equals "VN"

API dataMI program: MHS850MI Transaction: AddCOPick Field: ITNO

Condition: e17_0235 equals "EN"

API dataMI program: MHS850MI Transaction: AddCOPick Field: POPN

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWT = "02"

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWQ = "EA13"

Condition: e17_0235 equals "UP" or "UC"

API dataMI program: MHS850MI Transaction: AddCOPick Field: POPN

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWT = "02"

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWQ = "UPC"

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e18_0234

Group: 4	C 9999999	Segment Group: 4
Segment: **W12**	**C 1**	W12 - Warehouse Item Detail
0234	C AN 48	Product/Service ID

M3 Application Description

'VN' = Vendor's item number as Item number

'EN' = European Article Number as Alias number

'UP' = UPC Consumer Package Code as Alias number

'UC' = UPC Suffix as Alias number

M3 Application Specification

Condition: e21_0235 equals "VN"

API dataMI program: MHS850MI Transaction: AddCOPick Field: ITNO

Condition: e21_0235 equals "EN"

API dataMI program: MHS850MI Transaction: AddCOPick Field: POPN

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWT = "02"

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWQ = "EA13"

Condition: e21_0235 equals "UP" or "UC"

API dataMI program: MHS850MI Transaction: AddCOPick Field: POPN

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWT = "02"

API dataMI program: MHS850MI Transaction: AddCOPick Field: ALWQ = "UPC"

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e22_0234

0235	C AN 2	Product/Service ID Qualifier

M3 Application Description

'VN' = Vendor's item number

'EN' = European Article Number

'UP' = UPC Consumer Package Code

'UC' = UPC Suffix

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e07_0235

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e17_0235

Group: 4	C 9999999	Segment Group: 4
Segment: W12	C 1	W12 - Warehouse Item Detail
0235	C AN 2	Product/Service ID Qualifier

M3 Application Description
'VN' = Vendor's item number

'EN' = European Article Number

'UP' = UPC Consumer Package Code

'UC' = UPC Suffix

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e21_0235

0368	M AN 2	Shipment/Order Status Code

M3 Application Description
'CC' = Shipment complete

M3 Application Specification
Fixed data: "CC"

Condition: e01_0368 equals "CC" API dataMI program: MHS850MI
Transaction: AddCOPick Field: OEND = "1" else OEND = "0"

M3 Data Translation
Message standard: "X12" Version: "4010" Message: "945" Parent
elements: "g004/W12" Data element: "e01_0368" Movex table: "n/a"
Movex field: "n/a"

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e01_0368

0382	C N 10	Number of Units Shipped

M3 Application Description
Number of units shipped as Quantity Picked

M3 Application Specification

API dataMI program: MHS850MI Transaction: AddCOPick Field: QTYP

XPath
X12945/LOOP_LX_g003/LOOP_W12_g004/W12/e03_0382