Business Message Documentation

Application Type	**EDI Business Message (EBM)**
M3 version	**BE15**
M3 Business Message	**DA - Dispatch Advice**
Message Direction	**Outbound**
Message Application	**MercedesBenz X12 856 3050**

Map name	**M3BE15_DA_Out_MercedesBenz_X12_856_3050**

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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				
	BSN M 1			BSN - Beginning Segment for Ship Notice
			0337 M	Time
			0353 M	Transaction Set Purpose Code
			0373 M	Date
			0396 M	Shipment Identification
	CTT C 1			CTT - Transaction Totals
			0354 M	Number of Line Items
	DTM C 10			DTM - Date/Time Reference
			0337 C	Time
			0373 C	Date
			0374 M	Date/Time Qualifier
	ST M 1			ST - Transaction Set Header
			0143 M	Transaction Set Identifier Code
			0329 M	Transaction Set Control Number
1 C 200000				Loop Id HL
	HL M 1			HL - Hierarchical Level
			0628 M	Hierarchical ID Number
			0734 C	Hierarchical Parent ID Number
			0735 M	Hierarchical Level Code

Group	Segment	Composite /Element	Element	Description
1 C 200000				Loop Id HL
	LIN C 1			LIN - Item Identification
			0234 M	Product/Service ID
			0235 M	Product/Service ID Qualifier
	MEA C 40			MEA - Measurements
		C001 C		C001 - Composite Unit of Measure
		* 0355 C		C001 - Composite Unit of Measure
			0738 C	Measurement Qualifier
			0739 C	Measurement Value
	REF C 9999999			REF - Reference Numbers
			0127 C	Reference Number
			0128 M	Reference Number Qualifier
	SN1 C 1			SN1 - Item Detail (Shipment)
			0350 C	Assigned Identification
			0355 M	Unit or Basis for Measurement Code
			0382 M	Number of Units Shipped
	TD1 C 20			TD1 - Carrier Details (Quantity and Weight)
			0080 C	Lading Quantity
			0103 C	Packaging Code

Group	Segment	Composite /Element	Element	Description
1 C 200000				Loop Id HL
	TD3 C 12			TD3 - Carrier Details (Equipment)
			0040 M	Equipment Description Code
			0206 C	Equipment Initial
			0207 C	Equipment Number
	TD5 C 12			TD5 - Carrier Details (Routing Sequence/Transit Time)
			0066 C	Identification Code Qualifier
			0067 C	Identification Code
			0091 C	Transportation Method/Type Code
4 C 200				Loop Id N1
	N1 C 1			N1 - Name
			0066 C	Identification Code Qualifier
			0067 C	Identification Code
			0093 C	Name
			0098 M	Entity Identifier Code

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: BSN	**M 1**	BSN - Beginning Segment for Ship Notice
0337	M AN 8 **M3 Application Description** Message time as Time **M3 Application Specification** MBMInit/Time **XPath** *X12856/BSN/e04_0337*	Time
0353	M AN 2 **M3 Application Description** '00' = Original, '05' = Replace **M3 Application Specification** Condition: MBMInit/MessageCopy equal '0' Fixed data: "00" Condition: MBMInit/MessageCopy equal '1' Fixed data: "05" **XPath** *X12856/BSN/e01_0353*	Transaction Set Purpose Code
0373	M AN 6 **M3 Application Description** Message date as Date **M3 Application Specification** MBMInit/Date **XPath** *X12856/BSN/e03_0373*	Date
0396	M AN 30 **M3 Application Description** Delivery number as Shipment identification **M3 Application Specification** MBMInit/DLIX **XPath** *X12856/BSN/e02_0396*	Shipment Identification

Group: 0	M 1	Segment Group: 0
Segment: BSN	**M 1**	BSN - Beginning Segment for Ship Notice
0396	M AN 30	Shipment Identification
Segment: CTT	**C 1**	CTT - Transaction Totals
0354	M N0 6	Number of Line Items
	M3 Application Description Number of line items (HL segments) **M3 Application Specification** Calculated data: Count number of HL segments. Add user function Manifest_Update setManifestInfo("map:keyField1", "CONO") setManifestInfo("map:keyValue1", CONO), MBMInit output field CONO setManifestInfo("map:keyField2", "DIVI") setManifestInfo("map:keyValue2", DIVI), MBMInit output field DIVI setManifestInfo("map:keyField3", "DLIX") setManifestInfo("map:keyValue3", DLIX), MBMInit output field DLIX **XPath** *X12856/CTT/e01_0354*	
Segment: DTM	**C 10**	DTM - Date/Time Reference
0337	C AN 8	Time
	M3 Application Description Requested departure time as Time **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetHead Field: SHTM Note !! HHMM **XPath** *X12856/DTM/e03_0337*	

Group: 0	M 1	Segment Group: 0
Segment: DTM	**C 10**	DTM - Date/Time Reference
0373	C AN 6	Date
	M3 Application Description Requested departure date as Date **M3 Application Specification** API dataMI program: MWS410MI Transaction: GetHead Field: SHD4 Note !! YYMMDD API call: MWS410MI/GetHead Input field CONO: CONO Input field DLIX: DLIX **XPath** *X12856/DTM/e02_0373*	
0374	M AN 3	Date/Time Qualifier
	M3 Application Description '011' = Shipped **M3 Application Specification** Fixed data: "011" **XPath** *X12856/DTM/e01_0374*	
Segment: ST	**M 1**	ST - Transaction Set Header
0143	M AN 3	Transaction Set Identifier Code
	M3 Application Description '856' = Ship notice/Manifest **M3 Application Specification** Fixed data: "856" **XPath** *X12856/ST/e01_0143*	

Group: 0	M 1	Segment Group: 0
Segment: ST 0329	**M 1** M AN 9 **M3 Application Description** Transaction set control number **M3 Application Specification** Fixed data: "0001" Create userfunction MBMInit Output field MessageCopy: MovexBusinessMessageInitator/MessageCopy Output field MessageDate: MovexBusinessMessageInitator/MessageDate Output field MessageTime: MovexBusinessMessageInitator/MessageTime Output field CONO: MovexBusinessMessageInitator/MessageKeys/MessageKey/Value1 Output field DIVI: MovexBusinessMessageInitator/MessageKeys/MessageKey/Value2 Output field DLIX: MovexBusinessMessageInitator/MessageKeys/MessageKey/Value3 **XPath** *X12856/ST/e02_0329*	ST - Transaction Set Header Transaction Set Control Number

Group: 1	C 200000	Segment Group: 1
Segment: HL	**M 1**	HL - Hierarchical Level
0628	M AN 12	Hierarchical ID Number

M3 Application Description

Counter value as Hierachical ID number

M3 Application Specification

HL-segment loop sequence is: HLS, HLT , HLI.

Calculated data: Counter, start value 1

Some additional information about the loop level and loop control:
HLS is controlled by DLIX.
HLT is controlled by Package level "0" where NUPA not equal "0"
HLI is controlled by ITNO/CUOR.

API call: MWS410MI/LstPackages
Input field CONO: CONO
Input field DLIX: DLIX
Input field PACO: "0"
Input field PASO: "3"

API call: MWS410MI/LstItem
nput field CONO: CONO
Input field DLIX: DLIX
nput field ITDE: "2" (ITNO/CUOR)

Condition: MWS410MI/LstPackages/NUPA equal "0"
Input field PAII: ""
Input field PANR: MWS410MI/LstPackages Output field: PANR

Condition: MWS410MI/LstPackages/NUPA not equal "0"
Input field PAII: MWS410MI/LstPackages Output field: PANR
Input field PANR: ""

Add to Sorting Structure SS_HL

SS_HL control LOOP_HL_g001

XPath

X12856/LOOP_HL_g001/HL/e01_0628

Group: 1	C 200000	Segment Group: 1
Segment: HL	**M 1**	HL - Hierarchical Level
0734	C AN 12 **M3 Application Description** Hierarchical parent ID number **M3 Application Specification** HLS loop: Not applicable HLT loop: Fixed data: "1" HLI loop: Condition: HLT loop present Calculated data: e01_0628-value of corresponding HLT-segment. Condition: no HLT loop present Fixed data: "1" **XPath** *X12856/LOOP_HL_g001/HL/e02_0734*	Hierarchical Parent ID Number
0735	M AN 2 **M3 Application Description** 'S' = Shipment 'T' = Tare 'I' = Item **M3 Application Specification** Condition: HLS loop Fixed data: "S" Condition: HLT loop Fixed data: "T" Condition: HLI loop Fixed data: "I" **XPath** *X12856/LOOP_HL_g001/HL/e03_0735*	Hierarchical Level Code

Group: 1	C 200000	Segment Group: 1
Segment: LIN	**C 1**	LIN - Item Identification
0234	M AN 40	Product/Service ID
	M3 Application Description HLI loop: Alias number as Buyer part number **M3 Application Specification** HLI loop: Condition: MWS410MI Transaction: LstItem Field: POPN not equal blank and MWS410MI Transaction: LstItem Field: ALWT equal "06 API dataMI program: MWS410MI Transaction: LstItem Field: POPN ---------- Condition: MWS410MI Transaction: LstItem Field: POPN equal blank or MWS410MI Transaction: LstItem Field: ALWT not equal "06 API call: MWS410MI/GetAdr nput field CONO: CONO Input field DLIX: DLIX Input field ADRT: "02" API call: MMS025MI/GetAlias nput field CONO: CONO Input field ALWT: "06" Input field ITNO: MWS410MI Transaction: LstItem Field: ITNO Input field E0PA: MWS410MI Transaction: GetAdr Field: CONA API dataMI program: MMS025MI Transaction: GetAlias Field: POPN **XPath** *X12856/LOOP_HL_g001/LIN/e03_0234* **XPath** *X12856/LOOP_HL_g001/LIN/e05_0234* **XPath** *X12856/LOOP_HL_g001/LIN/e07_0234*	

Group: 1	C 200000	Segment Group: 1
Segment: LIN	**C 1**	LIN - Item Identification
0235	C AN 2	Product/Service ID Qualifier
	M3 Application Description 'EC' = Engineering change level **M3 Application Specification** HLI loop: Fixed data: "EC" **XPath** *X12856/LOOP_HL_g001/LIN/e06_0235*	
	M3 Application Description 'ON' = Customer order number **M3 Application Specification** HLI loop: Fixed data: "ON" **XPath** *X12856/LOOP_HL_g001/LIN/e04_0235*	
	M3 Application Description HLI loop: 'BP' = Buyer part number as Product/Service ID qualifier **M3 Application Specification** HLI loop: Fixed data: "BP" **XPath** *X12856/LOOP_HL_g001/LIN/e02_0235*	
Segment: MEA	**C 40**	MEA - Measurements
C001	C	C001 - Composite Unit of Measure
** 0355	C AN 2	C001 - Composite Unit of Measure
	M3 Application Description HLS-loop: 'KG' = Kilogram as Unit or Basis for Measurement Code **M3 Application Specification** HLS-loop: Fixed data: "KG" **XPath** *X12856/LOOP_HL_g001/MEA/cmp01/e01_0355*	

Group: 1	C 200000	Segment Group: 1
Segment: MEA	**C 40**	MEA - Measurements
0738	C AN 3	Measurement Qualifier
	M3 Application Description HLS-loop: 'G' = Gross Weight, 'N' = Actual Net Weight as Measurement Qualifier **M3 Application Specification** HLS-loop: Fixed data: "G" or "N" **XPath** *X12856/LOOP_HL_g001/MEA/e02_0738*	
0739	C N 20	Measurement Value
	M3 Application Description HLS-loop: Gross Weight, Net Weight as Measurement value **M3 Application Specification** HLS-loop: Condition: e02_0738 equal 'G' API dataMI program: MWS410MI Transaction: GetHead Field: GRW2 Condition: e02_0738 equal 'N' API dataMI program: MWS410MI Transaction: GetHead Field: NEW2 **XPath** *X12856/LOOP_HL_g001/MEA/e03_0739*	

Group: 1	C 200000	Segment Group: 1
Segment: REF	**C 9999999**	REF - Reference Numbers
0127	C AN 30	Reference Number
	M3 Application Description HLS loop: 'BM' Shipment as Bill of Lading 'CN' Delivery document number as Carrier reference 'PK' Delivery note reference as Packing number **M3 Application Specification** HLS loop: Condition e01_0128 equals "BM" API dataMI program: MWS410MI Transaction: GetHead Field: CONN Condition e01_0128 equals "CN" API dataMI program: MWS410MI Transaction: GetHead Field: FDNO Condition e01_0128 equals "PK" API dataMI program: MWS410MI Transaction: GetHead Field: PUSN **XPath** *X12856/LOOP_HL_g001/REF/e02_0127*	
0128	M AN 2	Reference Number Qualifier
	M3 Application Description HLS loop: 'BM' = Bill of Lading 'CN' = Carrier Reference 'PK' = Packing number **M3 Application Specification** HLS loop: Fixed data: "BM" or "CN" or "PK" **XPath** *X12856/LOOP_HL_g001/REF/e01_0128*	

Group: 1	C 200000	Segment Group: 1
Segment: SN1	**C 1**	SN1 - Item Detail (Shipment)
0350	C AN 11	Assigned Identification
	M3 Application Description Counter value as Assigned Identification **M3 Application Specification** HLI loop: Calculated data: Same value as in g001/HL/e01_0628 for corresponding HLI **XPath** *X12856/LOOP_HL_g001/SN1/e01_0350*	
0355	M AN 2	Unit or Basis for Measurement Code
	M3 Application Description Alternate u/m as Unit of measurement **M3 Application Specification** HLI loop: API dataMI program: MWS410MI Transaction: LstItem Field: ALUN **M3 Data Translation** Message standard: "X12" Version: "3050" Message: "856" Parent elements: "g001/SN1" Data element: "e03_0355" Movex table: "OOLINE" Movex field: "OBALUN" **XPath** *X12856/LOOP_HL_g001/SN1/e03_0355*	
0382	M N 10	Number of Units Shipped
	M3 Application Description HLI loop: Delivered quantity as Number of units shipped **M3 Application Specification** HLI loop: API dataMI program: MWS410MI Transaction: LstItem Field: DLQA **XPath** *X12856/LOOP_HL_g001/SN1/e02_0382*	

Group: 1	C 200000	Segment Group: 1
Segment: TD1	**C 20**	TD1 - Carrier Details (Quantity and Weight)
0080	C N0 7	Lading Quantity
	M3 Application Description Number of packages as Lading quantity **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetHead Field: NRUL **XPath** *X12856/LOOP_HL_g001/TD1/e02_0080*	
0103	C AN 5	Packaging Code
	M3 Application Description HLS-loop: "PCE"=Pieces as Packaging code **M3 Application Specification** HLS-loop: Fixed data: "PCE" **XPath** *X12856/LOOP_HL_g001/TD1/e01_0103*	
Segment: TD3	**C 12**	TD3 - Carrier Details (Equipment)
0040	M AN 2	Equipment Description Code
	M3 Application Description HLS loop: Transportation equipment as Equipment description code **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetHead Field: TRCA **M3 Data Translation** Message standard: "X12" Version: "3050" Message: "856" Parent elements: "g001/TD3" Data element: "e01_0040" Movex table: "n/a" Movex field: "n/a" **XPath** *X12856/LOOP_HL_g001/TD3/e01_0040*	

Group: 1	C 200000	Segment Group: 1
Segment: TD3	**C 12**	TD3 - Carrier Details (Equipment)
0206	C AN 4	Equipment Initial
	M3 Application Description HLS loop: Transport identity as Equipment initial **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetHead Field: E0B4 **M3 Data Translation** Message standard: "X12" Version: "3050" Message: "856" Parent elements: "g001/TD3" Data element: "e02_0206 Movex table: "n/a" Movex field: "n/a" **XPath** *X12856/LOOP_HL_g001/TD3/e02_0206*	
0207	C AN 10	Equipment Number
	M3 Application Description HLS loop: Trailer registration number as Equipment number **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetHead Field: E0BH **XPath** *X12856/LOOP_HL_g001/TD3/e03_0207*	
Segment: TD5	**C 12**	TD5 - Carrier Details (Routing Sequence/Transit Time)
0066	C AN 2	Identification Code Qualifier
	M3 Application Description HLS loop: '2' = Standard carrier alpha code **M3 Application Specification** HLS loop: Fixed data: "2" **XPath** *X12856/LOOP_HL_g001/TD5/e02_0066*	

Group: 1	C 200000	Segment Group: 1
Segment: TD5	**C 12**	TD5 - Carrier Details (Routing Sequence/Transit Time)
0067	C AN 20	Identification Code
	M3 Application Description HLS loop: Forwarding agent as Identification code **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetHead Field: FWNO **M3 Data Translation** Message standard: "X12" Version: "3050" Message: "856" Parent elements: "G001/TD5" Data element: "e03_0067" Movex table: "CIDMAS" Movex field: "IDSUNO" **XPath** *X12856/LOOP_HL_g001/TD5/e03_0067*	
0091	C AN 2	Transportation Method/Type Code
	M3 Application Description HLS loop: Delivery method as Transportation method/type code **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetHead Field: MODL **M3 Data Translation** Message standard: "X12" Version: "3050" Message: "856" Parent elements: "g001/TD5" Data element: "e04_0091" Movex table: "OOHEAD" Movex field: "OAMODL" **XPath** *X12856/LOOP_HL_g001/TD5/e04_0091*	

Group: 4	C 200	Segment Group: 4
Segment: N1	**C 1**	N1 - Name
0066	C AN 2	Identification Code Qualifier
	M3 Application Description '92' = Assigned by buyer or buyer's agent **M3 Application Specification** HLS loop: Fixed data: "92" **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g004/N1/e03_0066*	

Group: 4	C 200	Segment Group: 4
Segment: N1	**C 1**	N1 - Name
0067	C AN 20	Identification Code
	M3 Application Description 'SU' = Division as Supplier **M3 Application Specification** HLS loop: API call: CRS886MI/CnvPtr Input field CONO: CONO Input field PCTG: '01' Input field PAID: DIVI Input field PAAC: '21' Condition if API dataMI program: CRS886MI Transaction: CnvPtr Field: PAAL not equal Blank PAAL to e04_0067 else DIVI **M3 Data Translation** Condition e01_0098 equals "SU" Message standard: "X12" Version: "3050" Message: "856" Parent elements: "g004/N1" Data element: "e04_0067" Condition element: "e01_0098" Condition data: "SU" Movex table: "OOHEAD" Movex field: "OADIVI" **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g004/N1/e04_0067*	
0093	C AN 35	Name
	M3 Application Description Name as Name **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetAdr Field: NAME API call: MWS410MI/GetAdr Input field CONO: CONO Input field DLIX: DLIX Input field ADRT: '01' **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g004/N1/e02_0093*	

Group: 4	C 200	Segment Group: 4
Segment: N1	**C 1**	N1 - Name
0093	C AN 35 **M3 Application Description** Name as Name	Name
0098	M AN 2 **M3 Application Description** 'SU' = Supplier **M3 Application Specification** HLS loop: Fixed data: "SU" **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g004/N1/e01_0098*	Entity Identifier Code