Business Message Documentation

Application Type	**EDI Business Message (EBM)**
M3 version	**BE15**
M3 Business Message	**DA - Dispatch Advice**
Message Direction	**Outbound**
Message Application	**X12 856 4060 Pick and Pack**

Map name	**M3BE15_DA_Out_X12_856_4060_Pick_and_Pack**

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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
			1005 C	Hierarchical Structure Code
	CTT C 1			CTT - Transaction Totals
			0354 M	Number of Line Items
	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
	DTM C 10			DTM - Date/Time Reference
			0337 C	Time
			0373 C	Date
			0374 M	Date/Time Qualifier
			0623 C	Time Code
	FOB C 1			FOB - F.O.B. Related Instructions
			0146 M	Shipment Method of Payment

Group	Segment	Composite /Element	Element	Description
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
	LIN C 1			LIN - Item Identification
			0234 M	Product/Service ID
			0235 M	Product/Service ID Qualifier
	MAN C 9999999			MAN - Marks and Numbers Information
			0087 M	Marks and Numbers
			0088 M	Marks and Numbers Qualifier
	PAL C 1			PAL - Pallet Type and Load Characteristics
			0065 C	Height
			0082 C	Length
			0189 C	Width
			0355 C	Unit or Basis for Measurement Code
			0356 C	Pack
			0883 C	Pallet Type Code
	PO4 C 1			PO4 - Item Physical Details
			0065 C	Height
			0082 C	Length

Group	Segment	Composite /Element	Element	Description
1 C 200000				Loop Id HL
	PO4 C 1			PO4 - Item Physical Details
			0103 C	Packaging Code
			0189 C	Width
			0355 C	Unit or Basis for Measurement Code
			0356 C	Pack
			0384 C	Gross Weight per Pack
	PRF C 1			PRF - Purchase Order Reference
			0324 M	Purchase Order Number
	REF C 9999999			REF - Reference Information
			0127 C	Reference Identification
			0128 M	Reference Identification Qualifier
	SN1 C 1			SN1 - Item Detail (Shipment)
			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
			0081 C	Weight
			0103 C	Packaging Code
			0183 C	Volume
			0187 C	Weight Qualifier

Group	Segment	Composite /Element	Element	Description
1 C 200000				Loop Id HL
	TD1 C 20			TD1 - Carrier Details (Quantity and Weight)
			0355 C	Unit or Basis for Measurement Code
	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
			0133 C	Routing Sequence Code
2 C 12				Loop Id TD3
	TD3 C 1			TD3 - Carrier Details (Equipment)
			0040 C	Equipment Description Code
			0206 C	Equipment Initial
			0207 C	Equipment Number
5 C 200				Loop Id N1
	N1 C 1			N1 - Party Identification
			0098 M	Entity Identifier Code
	N2 C 2			N2 - Additional Name Information
			0093 C	Name
	N3 C 2			N3 - Party Location
			0166 M	Address Information

Group	Segment	Composite /Element	Element	Description
5 C 200				Loop Id N1
	N4 C 1			N4 - Geographic Location
			0019 C	City Name
			0026 C	Country Code
			0116 C	Postal Code
			0156 C	State or Province 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 Output field: MessageTime **XPath** *X12856/BSN/e04_0337*	Time MBMInit Output field: MessageTime
0353	M AN **M3 Application Description** '00' = Original or '07' = Duplicate **M3 Application Specification** Condition: MessageCopy equals '0' Fixed data: "00" Condition: MessageCopy equals '1' Fixed data: "07" **XPath** *X12856/BSN/e01_0353*	Transaction Set Purpose Code
0373	M AN 8 **M3 Application Description** Message date as Date **M3 Application Specification** MBMInit Output field: MessageDate **XPath** *X12856/BSN/e03_0373*	Date
0396	M AN 30 **M3 Application Description** Delivery number as Shipment identification **M3 Application Specification** MBMInit Output field: DLIXe **XPath** *X12856/BSN/e02_0396*	Shipment Identification

Group: 0	M 1	Segment Group: 0
Segment: BSN	**M 1**	BSN - Beginning Segment for Ship Notice
1005	C AN 4	Hierarchical Structure Code
	M3 Application Description '0001' = Shipment, Order, Packaging, Item **M3 Application Specification** Fixed data: "0001" **XPath** *X12856/BSN/e05_1005*	
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 UserFunction 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: 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	**M 1**	ST - Transaction Set Header
0329	M AN 9	Transaction Set Control Number

M3 Application Description

Transaction set control number

M3 Application Specification

Fixed data: "0001"

Create userfunction MBMInit

Output field MessageCopy: MovexBusinessMessageInitiator/MessageCopy

Output field MessageDate: MovexBusinessMessageInitiator/MessageDate

Output field MessageTime: MovexBusinessMessageInitiator/MessageTime

Output field CONO: MovexBusinessMessageInitiator/MessagKeys/MessageKey/Value1

Output field DIVI: MovexBusinessMessageInitiator/MessagKeys/MessageKey/Value2

Output field DLIX : MovexBusinessMessageInitiator/MessagKeys/MessageKey/Value3

XPath

X12856/ST/e02_0329

Group: 1	C 200000	Segment Group: 1
Segment: DTM	**C 10**	DTM - Date/Time Reference
0337	C AN 8	Time

M3 Application Description

'011' = Shipped

M3 Application Specification

HLS loop:

API dataMI program: MWS410MI Transaction: GetHead Field: SHTM

XPath

X12856/LOOP_HL_g001/DTM/e03_0337

Group: 1	C 200000	Segment Group: 1
Segment: DTM	**C 10**	DTM - Date/Time Reference
0373	C AN 8	Date
	M3 Application Description '011' = Requested departure date as Shipped **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetHead Field: SHD4 **XPath** *X12856/LOOP_HL_g001/DTM/e02_0373*	
0374	M AN 3	Date/Time Qualifier
	M3 Application Description '011' = Shipped **M3 Application Specification** HLS loop: Fixed data: "011" **XPath** *X12856/LOOP_HL_g001/DTM/e01_0374*	
0623	C AN 2	Time Code
	M3 Application Description Time zone as Time code **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetHead Field: TIZO **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/DTM" Data element: "e04_0623" Movex table: "OOHEAD" Movex field: "OATIZO" **XPath** *X12856/LOOP_HL_g001/DTM/e04_0623*	

Group: 1	C 200000	Segment Group: 1
Segment: FOB	**C 1**	FOB - F.O.B. Related Instructions
0146	M AN 2	Shipment Method of Payment
	M3 Application Description Delivery terms as Shipment method of payment **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: GetHead Field: TEDL **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/FOB" Data element: "e01_0146" Movex table: "OOHEAD" Movex field: "OATEDL" **XPath** *X12856/LOOP_HL_g001/FOB/e01_0146*	
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, HLO, HLT, HLP, HLI. Calculated data: Counter, start value 1 Some additional information about the loop levela and loop control: HLS is controlled by DLIX. HLO is controlled by CUOR. HLT is controlled by PAII. HLP is controlled by PANR. HLI is controlled by ITNO. **XPath** *X12856/LOOP_HL_g001/HL/e01_0628*	

Group: 1	C 200000	Segment Group: 1
Segment: HL 0734	**M 1** C AN 12 **M3 Application Description** Hierarchical parent ID number **M3 Application Specification** HLS loop: Not applicable HLO loop: Fixed data: "1" HLT loop: Calculated data: e01_628-value of corresponding HLO-segment. HLP loop: Condition: HLT loop present Calculated data: e01_628-value of corresponding HLT-segment. Condition: no HLT loop present Calculated data: e01_628-value of corresponding HLO-segment. HLI loop: Condition: HLP loop present Calculated data: e01_628-value of corresponding HLP-segment. Condition: no HLP loop present Calculated data: e01_628-value of corresponding HLO-segment. **XPath** *X12856/LOOP_HL_g001/HL/e02_0734*	HL - Hierarchical Level Hierarchical Parent ID Number

Group: 1	C 200000	Segment Group: 1
Segment: HL 0735	**M 1** M AN 2 **M3 Application Description** 'S' = Shipment 'O' = Order 'T' = Tare 'P' = Package 'I' = Item **M3 Application Specification** Condition: HLS loop Fixed data: "S" Condition: HLO loop Fixed data: "O" Condition: HLT loop Fixed data: "T" Condition: HLP loop Fixed data: "P" Condition: HLI loop Fixed data: "I" **XPath** *X12856/LOOP_HL_g001/HL/e03_0735*	HL - Hierarchical Level Hierarchical Level Code
Segment: LIN 0234	**C 1** M AN 48 **M3 Application Description** HLI loop: 'SA' = Item number as Vendor's item number **M3 Application Specification** HLI loop: API dataMI program: MWS410MI Transaction: LstItem Field: ITNO, output from sorting structure. **XPath** *X12856/LOOP_HL_g001/LIN/e03_0234* **XPath** *X12856/LOOP_HL_g001/LIN/e05_0234*	LIN - Item Identification Product/Service ID

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

'EN' = EAN

'UP' = UPC

'IN' = Buyer's item number

M3 Application Specification

HLI loop:

Condition: ALWT equals "02" and AWQ equals "EA13" or "EA08" or "DU14"

Fixed data: "EN"

Condition: ALWT equals "02" and AWQ equals "UPC"

Fixed data: "UP"

Condition: ALWT equals "06"

Fixed data: "IN"

XPath

X12856/LOOP_HL_g001/LIN/e04_0235

M3 Application Description

HLI loop:

'VN' = Vendor's item number as Product/Service ID qualifier

M3 Application Specification

HLI loop:

Fixed data: "VN"

XPath

X12856/LOOP_HL_g001/LIN/e02_0235

Group: 1	C 200000	Segment Group: 1
Segment: MAN	**C 9999999**	MAN - Marks and Numbers Information
0087	M AN 48	Marks and Numbers

M3 Application Description

HLT loop:

SSCC or package number for outer package as Marks and numbers

HLP loop:

SSCC or package number for inner package as Marks and numbers

M3 Application Specification

HLT-loop:

Condition: SSCC not equals blank

API dataMI program: MWS410MI Transaction: GetPackage Field: SSCC

Else

PAII, output from sorting structure.

HLP-loop:

Condition: SSCC not equals blank

API dataMI program: MWS410MI Transaction: LstItemPackages Field: SSCC, output from sorting structure.

Else

PANR, output from sorting structure.

XPath

X12856/LOOP_HL_g001/MAN/e02_0087

Group: 1	C 200000	Segment Group: 1
Segment: MAN	C 9999999	MAN - Marks and Numbers Information
0088	M AN 2	Marks and Numbers Qualifier
	M3 Application Description HLT loop: 'AA' = SSCC-18 'ZZ' = Mutally defined HLP loop: 'AA' = SSCC-18 'ZZ' = Mutally defined	
	M3 Application Specification HLT-loop: API call: MWS410MI/GetPackage Input field CONO: CONO Input field DLIX: DLIX Input field: PANR: PAII, output from sorting structure. Condition: SSCC equals blank Fixed data: "ZZ" Else Fixed data "AA" HLP-loop: Use output from sorting structure Condition: SSCC equals blank Fixed data: "ZZ" Else Fixed data "AA"	
	XPath *X12856/LOOP_HL_g001/MAN/e01_0088*	

Group: 1	C 200000	Segment Group: 1
Segment: PAL	C 1	PAL - Pallet Type and Load Characteristics
0065	C N 8	Height
	M3 Application Description HLT-loop: Packaging height as Height **M3 Application Specification** HLT-loop: API dataMI program: MWS410MI Transaction: GetPackage Field: PACH **XPath** *X12856/LOOP_HL_g001/PAL/e09_0065*	
0082	C N 8	Length
	M3 Application Description HLT-loop: Packaging length as Length **M3 Application Specification** HLT-loop: API dataMI program: MWS410MI Transaction: GetPackage Field: PACL **XPath** *X12856/LOOP_HL_g001/PAL/e07_0082*	
0189	C N 8	Width
	M3 Application Description HLT-loop: Packaging width as Width **M3 Application Specification** HLT-loop: API dataMI program: MWS410MI Transaction: GetPackage Field: PACW **XPath** *X12856/LOOP_HL_g001/PAL/e08_0189*	

Group: 1	C 200000	Segment Group: 1
Segment: PAL	**C 1**	PAL - Pallet Type and Load Characteristics
0355	C AN 2	Unit or Basis for Measurement Code
	M3 Application Description HLT loop: Unit or basis for measurement code **M3 Application Specification** HLT loop: Fixed data: "MR" **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/PAL" Data element: "e10_0355" Movex table: "n/a" Movex field: "n/a" **XPath** *X12856/LOOP_HL_g001/PAL/e10_0355*	
0356	C N0 6	Pack
	M3 Application Description Number of packages as Pack **M3 Application Specification** Condition: HLT-loop API call: MWS410MI/LstPackages Input field CONO: CONO Input field DLIX: DLIX Input field PACO: "0" API dataMI program: MWS410MI Transaction: LstPackages Field: NUPA **XPath** *X12856/LOOP_HL_g001/PAL/e04_0356*	

Group: 1	C 200000	Segment Group: 1
Segment: **PAL**	**C 1**	PAL - Pallet Type and Load Characteristics
0883	C AN 2	Pallet Type Code
	M3 Application Description HLT loop: Packaging as Pallet type code **M3 Application Specification** HLT-loop: API call: MWS410MI/GetPackage Input field CONO: CONO Input field DLIX: DLIX Input field: PANR: PAII, output from sorting structure. API dataMI program: MWS410MI Transaction: GetPackage Field: PACT **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/PAL" Data element: "e01_0883" Movex table: "MITPAC" Movex field: "M4PACT" **XPath** *X12856/LOOP_HL_g001/PAL/e01_0883*	
Segment: **PO4**	**C 1**	PO4 - Item Physical Details
0065	C N 8	Height
	M3 Application Description HLP loop: Package height as Height **M3 Application Specification** HLP loop: API dataMI program: MWS410MI Transaction: GetPackage Field: PACH **XPath** *X12856/LOOP_HL_g001/PO4/e12_0065*	

Group: 1	C 200000	Segment Group: 1
Segment: PO4	C 1	PO4 - Item Physical Details
0082	C N 8	Length
	M3 Application Description HLP loop: Packaging length as Length **M3 Application Specification** HLP loop: API call: MWS410MI/GetPackage Input field CONO: CONO Input field DLIX: DLIX Input field PANR: PANR, output from sorting structure. API dataMI program: MWS410MI Transaction: GetPackage Field: PACL **XPath** *X12856/LOOP_HL_g001/PO4/e10_0082*	
0103	C AN 5	Packaging Code
	M3 Application Description HLP loop: Packaging as Packaging code **M3 Application Specification** HLP loop: API dataMI program: MWS410MI Transaction: LstItemPackages Field: PACT, output from sorting structure. **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/PO4" Data element: "e04_0103" Movex table: "MITPAC" Movex field: "M4PACT" **XPath** *X12856/LOOP_HL_g001/PO4/e04_0103*	
0189	C N 8	Width
	M3 Application Description HLP loop: Package width as Width **M3 Application Specification** HLP loop: API dataMI program: MWS410MI Transaction: GetPackage Field: PACW **XPath** *X12856/LOOP_HL_g001/PO4/e11_0189*	

Group: 1	C 200000	Segment Group: 1
Segment: PO4	**C 1**	PO4 - Item Physical Details
0189	C N 8	Width
	M3 Application Description HLP loop: Package width as Width **M3 Application Specification** HLP loop: API dataMI program: MWS410MI Transaction: GetPackage Field: PACW **XPath** *X12856/LOOP_HL_g001/PO4/e11_0189*	
0355	C AN 2	Unit or Basis for Measurement Code
	M3 Application Description HLP loop: Unit of measurement **M3 Application Specification** HLP loop: Fixed data: "MR" **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/PO4" Data element: "e13_0355" Movex table: "n/a" Movex field: "n/a" **XPath** *X12856/LOOP_HL_g001/PO4/e13_0355*	
	M3 Application Description Unit of measurement **M3 Application Specification** HLP loop: Fixed data: "KG" **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/PO4" Data element: "e07_0355" Movex table: "n/a" Movex field: "n/a" **XPath** *X12856/LOOP_HL_g001/PO4/e07_0355*	

Group: 1	C 200000	Segment Group: 1
Segment: PO4	**C 1**	PO4 - Item Physical Details
0356	C N0 6	Pack
	M3 Application Description HLP loop: Fixed data "1" as Number of eaches **M3 Application Specification** HLP loop: Fixed data "1" **XPath** *X12856/LOOP_HL_g001/PO4/e01_0356*	
0384	C N 9	Gross Weight per Pack
	M3 Application Description Gross weight as Gross weight per pack **M3 Application Specification** HLP loop: API dataMI program: MWS410MI Transaction: LstItemPackages Field: GRWE, output from sorting structure. **XPath** *X12856/LOOP_HL_g001/PO4/e06_0384*	

Group: 1	C 200000	Segment Group: 1
Segment: PRF	**C 1**	PRF - Purchase Order Reference
0324	M AN 22	Purchase Order Number

M3 Application Description

HLO loop:

Customer's order number as Purchase order number

M3 Application Specification

HLO loop:

API call: Mws410MI/LstItem

Input field CONO: CONO

Input field DLIX: DLIX

Input field ITDE: "2"

For each record received from LstItem

API call: Mws410MI/LstItemPackages

Input field CONO: CONO

Input field DLIX: DLIX

Input field ITNO: ITNO, output from LstItem.

Input field ITDE: "2"

Input field CUOR: CUOR

Input field PASO: "1"

Add result to sorting strucure.

Read sorting structure sorted on CUOR PAII PANR ITNO.

CUOR controls HLO loop

PAII and PANR controls subloop HLT/HLP

ITNO controls subloop HLO/HLT/HLP/HLI

API dataMI program: MWS410MI Transaction: LstItem Field: CUOR

XPath

X12856/LOOP_HL_g001/PRF/e01_0324

Group: 1	C 200000	Segment Group: 1
Segment: REF	**C 9999999**	REF - Reference Information
0127	C AN 50	Reference Identification
	M3 Application Description HLO loop: 'VN' = Vendor order number 'IV' = Seller's invoice number **M3 Application Specification** HLO loop: Condition e01_0128 equals "VN" API call: MWS410MI/LstPackageLine Input field CONO: CONO Input field DLIX: DLIX Input field PDSO: "3" Input field PANR: PANR, output from sorting structure. API dataMI program: MWS410MI Transaction: LstPackageLine Field: RIDN Condition e01_0128 equals "IV" API dataMI program: MWS410MI Transaction: GetHead Field: IVNO **XPath** *X12856/LOOP_HL_g001/REF/e02_0127*	
0128	M AN 3	Reference Identification Qualifier
	M3 Application Description HLO loop: 'VN' = Vendor order number 'IV' = Seller's invoice number **M3 Application Specification** HLO loop: Fixed data: "VN" or "IV" **XPath** *X12856/LOOP_HL_g001/REF/e01_0128*	

Group: 1	C 200000	Segment Group: 1
Segment: SN1	**C 1**	SN1 - Item Detail (Shipment)
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, output from sorting structure.

M3 Data Translation

Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/SN1" Data element: "e03_0355" Movex table: "OOLINE" Movex field: "OBALUN"

XPath

X12856/LOOP_HL_g001/SN1/e03_0355

Group: 1	C 200000	Segment Group: 1
Segment: SN1	**C 1**	SN1 - Item Detail (Shipment)
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: LstItemPackages Field: DLQA, output from sorting structure. **XPath** *X12856/LOOP_HL_g001/SN1/e02_0382*	
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: Number of packages per package type and package level 0. **XPath** *X12856/LOOP_HL_g001/TD1/e02_0080*	
0081	C N 10	Weight
	M3 Application Description HLS loop: Aggregated gross weight as Gross weight **M3 Application Specification** HLS loop: Aggregated GRWE from sorting structure (summarized GRWE per packaging) **XPath** *X12856/LOOP_HL_g001/TD1/e07_0081*	

Group: 1	C 200000	Segment Group: 1
Segment: TD1	**C 20**	TD1 - Carrier Details (Quantity and Weight)
0103	C AN 5	Packaging Code
	M3 Application Description HLS-loop: Packaging as Packaging code **M3 Application Specification** HLS-loop: API call: MWS410MI/LstPackages Input field CONO: CONO Input field DLIX: DLIX Input field PACO: "0" Input field PASO: "4" Add result to sorting structure For each record received from LstPackages API call: MWS410MI/GetPackage Input field CONO: CONO Input field DLIX: DLIX Input field PANR: PANR, output from LstPackages. Write one TD1 record per unique PACT, summarize gross weight for each package type. Output: PACT **M3 Data Translation** Condition: e03_0735 equals "S" Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/TD1" Data element: "e01_0103" Condition element: "e03_0375" Condition data: "S" Movex table: "MITPAC" Movex field: "M4PACT" **XPath** *X12856/LOOP_HL_g001/TD1/e01_0103*	

Group: 1	C 200000	Segment Group: 1
Segment: TD1	**C 20**	TD1 - Carrier Details (Quantity and Weight)
0183	C N 8	Volume
	M3 Application Description HLS loop: Aggregated volume as Volume **M3 Application Specification** HLS loop: Aggregated VOL3 from sorting structure (summarized VOL3 per packaging) **XPath** *X12856/LOOP_HL_g001/TD1/e09_0183*	
0187	C AN 2	Weight Qualifier
	M3 Application Description 'G' = Gross weight **M3 Application Specification** HLS loop: Fixed data: "G" **XPath** *X12856/LOOP_HL_g001/TD1/e06_0187*	
0355	C AN 2	Unit or Basis for Measurement Code
	M3 Application Description 'CR' = Cubic meter **M3 Application Specification** Fixed data: "CR" **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/TD1" Data element: "e10_0355" Movex table: "OOLINE" Movex field: "OBALUN" **XPath** *X12856/LOOP_HL_g001/TD1/e10_0355*	

Group: 1	C 200000	Segment Group: 1
Segment: TD1	**C 20**	TD1 - Carrier Details (Quantity and Weight)
0355	C AN 2	Unit or Basis for Measurement Code
	M3 Application Description 'KG' = Kilograms **M3 Application Specification** Fixed data: "KG" **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/TD1" Data element: "e08_0355" Movex table: "OOLINE" Movex field: "OBALUN" **XPath** *X12856/LOOP_HL_g001/TD1/e08_0355*	
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" **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g001/TD5" Data element: "e02_0066" Movex table: "n/a" Movex field: "n/a" **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 80	Identification Code
	M3 Application Description HLS loop: Forwarding agent as Identification code **M3 Application Specification** HLS loop: API call: Mws410MI/GetHead Input field CONO: CONO Input field DLIX: DLIX API dataMI program: MWS410MI Transaction: GetHead Field: FWNO **M3 Data Translation** Message standard: "X12" Version: "4060" 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: "4060" 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: 1	C 200000	Segment Group: 1
Segment: TD5	**C 12**	TD5 - Carrier Details (Routing Sequence/Transit Time)
0133	C AN 2	Routing Sequence Code
	M3 Application Description HLS loop: 'B' = Origin/delivery carrier **M3 Application Specification** HLS loop: Fixed data: "B" **XPath** *X12856/LOOP_HL_g001/TD5/e01_0133*	

Group: 2	C 12	Segment Group: 2
Segment: TD3	**C 1**	TD3 - Carrier Details (Equipment)
0040	C 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: "4060" Message: "856" Parent elements: "g002/TD3" Data element: "e01_0040" Movex table: "n/a" Movex field: "n/a" **XPath** *X12856/LOOP_HL_g001/LOOP_TD3_g002/TD3/e01_0040*	
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: "4060" Message: "856" Parent elements: "g001/TD3" Data element: "e02_0206 Movex table: "n/a" Movex field: "n/a" **XPath** *X12856/LOOP_HL_g001/LOOP_TD3_g002/TD3/e02_0206*	

Group: 2	C 12	Segment Group: 2
Segment: TD3	**C 1**	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: "4060" Message: "856" Parent elements: "g001/TD3" Data element: "e02_0206 Movex table: "n/a" Movex field: "n/a" **XPath** *X12856/LOOP_HL_g001/LOOP_TD3_g002/TD3/e02_0206*	
0207	C AN 15	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/LOOP_TD3_g002/TD3/e03_0207*	

Group: 5	C 200	Segment Group: 5
Segment: N1	**C 1**	N1 - Party Identification
0098	M AN 3	Entity Identifier Code

M3 Application Description

'ST' = Consignor as Ship to

'SH' = Forwarder as Shipper

'BY' = Customer as Buying party

'SU' = Division as Supplier/manufacturer

M3 Application Specification

HLS loop:

API call: MWS410MI/LstAdr

Input field CONO: CONO

Input field DLIX: DLIX

Conditon: If ADRT eq '01' AND e01_0098 equals "SU"

API call: CRS886MI/CvtPtr

Input field CONO: CONO

Input field: PAID: DIVI

Input field PCTG: '01'

API dataMI program: CRS886MI Transaction: CvtPtr Output Field: PAAL

Condition if CRS886MI/CvtPtr/PAAL equal blank or NOK use DIVI

Conditon: If ADRT eq '10' AND e01_0098 equals "BY"

API call: CRS886MI/CvtPtr

Input field CONO: CONO

Input field: PAID: CONA

Input field PCTG: '11'

API dataMI program: CRS886MI Transaction: CvtPtr Output Field: PAAL

Condition if CRS886MI/CvtPtr/PAAL equal blank or NOK use MWS410MI/LstAdr Output field: CONA

Conditon: If ADRT eq '11' AND e01_0098 equals "ST"

API call: CRS886MI/CvtPtr

Input field CONO: CONO

Input field: PAID: CONA

Input field: PAI1: COAA

Input field PCTG: '12'

Input field PAAC: 21'

API dataMI program: CRS886MI Transaction: CvtPtr Output Field: PAAL

Condition if CRS886MI/CvtPtr/PAAL equal blank or NOK use MWS410MI/LstAdr Output field: COAA

Group: 5	C 200	Segment Group: 5
Segment: N1	**C 1**	N1 - Party Identification
0098	M AN 3	Entity Identifier Code

M3 Application Description

'ST' = Consignor as Ship to

'SH' = Forwarder as Shipper

'BY' = Customer as Buying party

'SU' = Division as Supplier/manufacturer

M3 Application Specification

Conditon: If ADRT eq '04' AND e01_0098 equals "SH"

API call: CRS886MI/CvtPtr

Input field CONO: CONO

Input field: PAID: SUNO

Input field PCTG: '21'

API dataMI program: CRS886MI Transaction: CvtPtr Output Field: PAAL

Condition if CRS886MI/CvtPtr/PAAL equal blank or NOK use MWS410MI/LstAdr Output field: SUNO

M3 Data Translation

Condition e01_0098 equals "ST"

Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g005/N1" Data element: "e04_0067" Condition element: "e01_0098" Condition data: "ST" Movex table: "OCUSAD" Movex field: "OPADID"

Condition e01_0098 equals "SH"

Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g005/N1" Data element: "e04_0067" Condition element: "e01_0098" Condition data: "SH" Movex table: "CIDVEN" Movex field: "IISUNO"

Condition e01_0098 equals "SU"

Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g005/N1" Data element: "e04_0067" Condition element: "e01_0098" Condition data: "SU" Movex table: "OOHEAD" Movex field: "OADIVI"

Condition e01_0098 equals "BY"

Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g005/N1" Data element: "e04_0067" Condition element: "e01_0098" Condition data: "BY" Movex table: "OOHEAD" Movex field: "OACUNO"

XPath

X12856/LOOP_HL_g001/LOOP_N1_g005/N1/e01_0098

Group: 5	C 200	Segment Group: 5
Segment: N1 0098	**C 1** M AN 3 **M3 Application Description** 'ST' = Consignor as Ship to 'SH' = Forwarder as Shipper 'BY' = Customer as Buying party 'SU' = Division as Supplier/manufacturer **M3 Application Specification** Conditon: If ADRT eq '04' AND e01_0098 equals "SH" API call: CRS886MI/CvtPtr Input field CONO: CONO Input field: PAID: SUNO Input field PCTG: '21' API dataMI program: CRS886MI Transaction: CvtPtr Output Field: PAAL Condition if CRS886MI/CvtPtr/PAAL equal blank or NOK use MWS410MI/LstAdr Output field: SUNO	N1 - Party Identification Entity Identifier Code
Segment: N2 0093	**C 2** C AN 60 **M3 Application Description** Name as Name **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: LstAdr Field: NAME **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g005/N2/e02_0093*	N2 - Additional Name Information Name
Segment: N3 0166	**C 2** M AN 55 **M3 Application Description** Address line 1 as Address information **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: LstAdr Field: ADR1 **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g005/N3/e01_0166*	N3 - Party Location Address Information

Group: 5	C 200	Segment Group: 5
Segment: N3	**C 2**	N3 - Party Location
0166	M AN 55	Address Information
	M3 Application Description Address line 2 as Address information **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: LstAdr Field: ADR2 **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g005/N3/e02_0166*	
Segment: N4	**C 1**	N4 - Geographic Location
0019	C AN 30	City Name
	M3 Application Description Address line 4 as City name **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: LstAdr Field: ADR4 **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g005/N4/e01_0019*	
0026	C AN 3	Country Code
	M3 Application Description Country as Country code **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: LstAdr Field: CSCD **M3 Data Translation** Message standard: "X12" Version: "4060" Message: "856" Parent elements: "g004/N1" Data element: "e04_0026" Movex table: "OOHEAD" Movex field: "OACSCD" **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g005/N4/e04_0026*	

Group: 5	C 200	Segment Group: 5
Segment: N4	**C 1**	N4 - Geographic Location
0116	C AN 15	Postal Code
	M3 Application Description Postal code as Postal code **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: LstAdr Field: PONO **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g005/N4/e03_0116*	
0156	C AN 2	State or Province Code
	M3 Application Description Area/state as State or province code **M3 Application Specification** HLS loop: API dataMI program: MWS410MI Transaction: LstAdr Field: ECAR **XPath** *X12856/LOOP_HL_g001/LOOP_N1_g005/N4/e02_0156*	