B2B Business Document Definition Implementation Guide

Self-Bill Credit Memo

(EANCOM – INVOIC)

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1 INTRODUCTION

1.1 Document Purpose & Use

For the implementation of the M&S EDI business documents (messages) we have provided an Implementation Guide to help you through your adoption of the M&S B2B EDI solution.

Provided for you is the Implementation Guide itself detailing the EDI messages and the business context and the circumstances in which they will be passed between yourself and M&S.

Also provided for you is the EDI Business Document Definition; this definition specifies the structure and content of the EDI message that M&S will exchange with you. At M&S we have adopted an Industry compliant EDI data standard to ensure ease of adoption for our Trading Partners. The standard adopted is EANCOM; it is an EDIFACT compliant data standard, and forms the basis of our Business Document Definitions.

In addition we have provided a Testing Compliance Specification, along with example testing files to ensure that your implementation is successful and compliant with what M&S will expect to exchange with you.

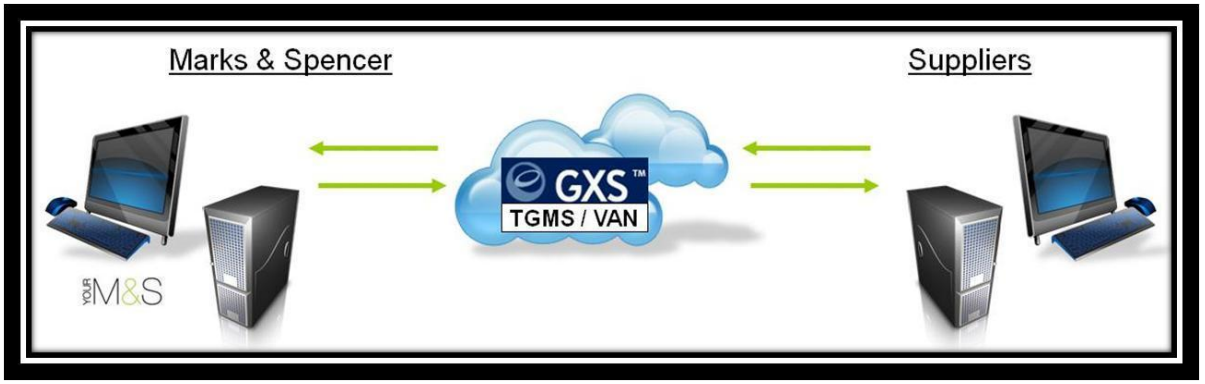
Together this information, the Implementation Guide, the Business Document Definition, and the Testing Compliance specification, will provide you with all the information you need to successfully and smoothly transition onto the M&S B2B EDI solution.

1.2 EDI Communication & Transmission

The M&S B2B EDI solution will enable M&S and you as a Trading Partner of ours to implement a fully automated, end-to-end B2B EDI solution.

This solution is supported for trading partners who have an existing EDI solution, or, who are transitioning to an EDI solution, and can send and receive the EDI messages into their business systems.

We have partnered with GXS to provide a leading-class B2B solution that enables us to seamlessly exchange business documents with you. The following diagram provides a high-level summary to this solution:



1.3 M&S EDI Business Document Definition

M&S have adopted the EDIFACT compliant EANCOM standard for its B2B EDI messages; all EDI messages sent and received must be encoded with this data standard as detailed in section EDI Business Document Definition.

Each of the specified Business Documents (or EDI messages) is defined by the Business Document Definitions, and forms the "data contract" between M&S and you our Trading Partner – as defined within this document.

The Business Document Definition provides you with the following information:

- The EANCOM data object to be utilised for each Business Document
- The EANCOM message segments and elements within those to be transmitted as part of any data exchange

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- Implementation rules for each of the segments and elements
- The business definition of each element to be used
- The elements that are mandatory and those which are optional i.e. may NOT be passed
- The format of the data to be passed for each element

As part of your transition process onto the M&S B2B solution, GXS, our partner for this solution will assist you with any queries you may have regarding this implementation guide and Business Document Definition itself, or your implementation of those definitions. .

1.4 EANCOM Standard

M&S specify that for EDI communication the EANCOM standard MUST be utilised as the supported data standard and therefore MUST be supported by the Trading Partner (either directly or through 3rd party service).

For all new EDI Trading Partners to M&S, it is expected that EANCOM will be utilised. Trading Partners whom have existing EDI with M&S these communications will continue to be supported regardless of the information standard utilised. Where the opportunity provides it these non-supported information standards MUST be migrated to the EANCOM standard.

The definition of support is as follows:

- Any information exchange MUST relate to an EANCOM defined data model as listed by EANCOM 2002 Syntax 4
- Any data model utilised MUST conform to the EANCOM definition both schematically i.e. structure and semantically i.e. data format. This includes use of mandatory segments and elements, and adhering to data types and data representations
- Business level responses MUST be agreed to by M&S and the each Trading Partner and will be specified as part of the MS Message Implementation Guide (this document). Where utilised they MUST align to those specified by the EANCOM standard e.g. PROINQ and PRODAT
- Technical acknowledgements ARE expected to be exchanged for each information exchange (**see Technical Acknowledgement – CONTRL Implementation Guide**)

1.5 Message Flows

As part of the M&S to supplier trading process, as of the date of this Message Implementation Guide, M&S will utilise the following business documents for its Supplier Trading Partner transactions:

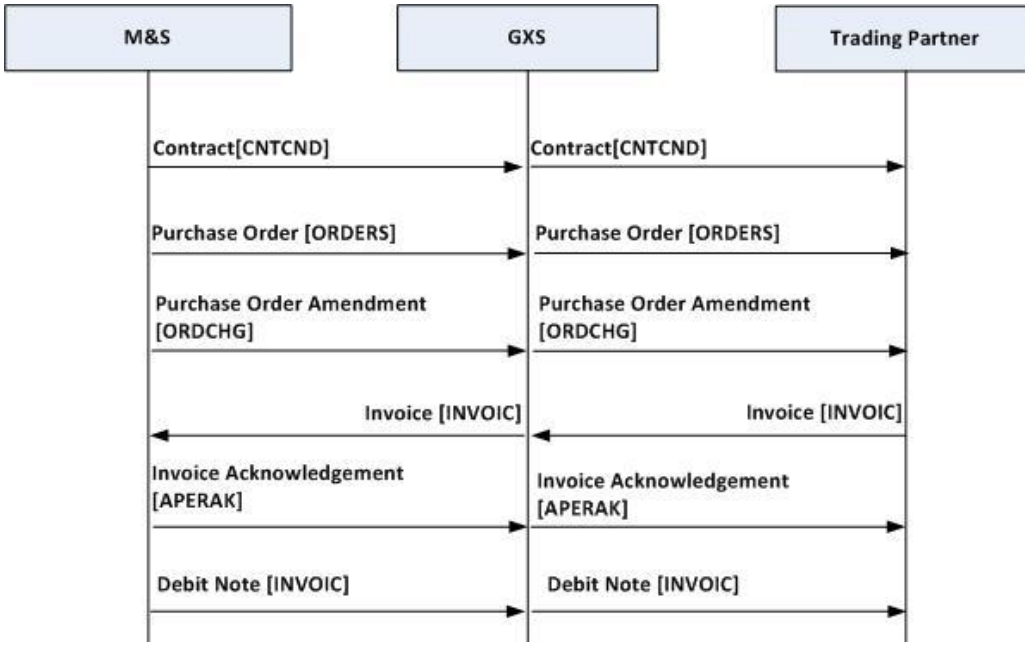
Business Document	Direct Supplier	FSV Core Product Only	FSV Outlet Product	FSV Int'l Direct Deliveries
Contract	✓	✓	✓	✓
Purchase Order	✓		✓	✓
Purchase Order Amendment	✓		✓	✓
Invoice	✓			✓
Invoice Acknowledgement	✓			✓
Debit Note	✓			✓
Self-Bill Invoice			✓	
Self-Bill Credit Note			✓	

1.5.1 Direct Suppliers / FSV for International Deliveries

The following business documents will be used for Direct Suppliers and Full Service Vendors (FSVs) for International Deliveries.

- Contracts (CNTCND)
- Purchase Order (ORDERS)
- Purchase Order Amendments (ORDCHG)
- Invoice (INVOIC)
- Invoice Acknowledgement (APERAK)
- Debit Note (INVOIC)

The following provides reference to the information exchanges detailed previously:



1.5.2 FSV Core Product Only

The following business documents will be used for Full Service Vendors (FSVs) who manage core product only:

- Contracts (CNTCND)

1.5.3 FSV to Outlets

The following business documents will be used for Full Service Vendors (FSVs) to Outlets.

- Contracts (CNTCND)
- Purchase Order (ORDERS)
- Purchase Order Amendments (ORDCHG)
- Self-Bill Invoice (INVOIC)
- Self-Bill Credit Note (INVOIC)

The following provides reference to the information exchanges detailed previously:

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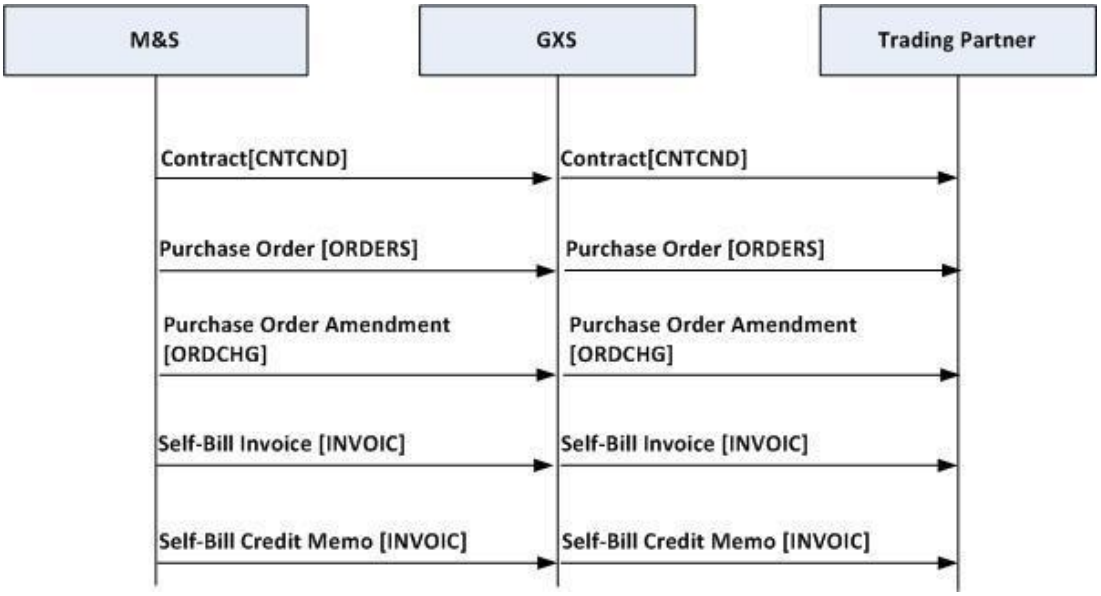

1.6 Acknowledgements

1.6.1 Technical Acknowledgements

The following provides summary to the use of EANCOM technical acknowledgements:

- Technical acknowledgements ARE expected to be exchanged for each information exchange – this requirement is to provide clear demarcation of data ownership and to support the process of exception reporting.
- An acknowledgement of this type MUST only be exchanged when the exchange being acknowledged is a business document; a technical acknowledgement is NOT to be sent in response to another technical OR functional acknowledgement
- A technical acknowledgement SHOULD detail both positive and negative acceptance of each information exchange
- The technical acknowledgement is to relate to the information exchange (data file) level i.e. a single acknowledgement for each data file exchanged. Where exceptions exist within a individual data record within the file the acknowledgement MUST specify this level of granularity
- The CONTRL data model MUST be used for ALL technical acknowledgements

1.6.2 Functional Acknowledgements

The following provides summary to the use of EANCOM functional acknowledgements:

- Functional acknowledgements ARE recommended to be exchanged for each information exchange – this requirement MUST be agreed to by each Trading Partner and specified by the DOMD.
- An acknowledgement of this type MUST only be exchanged when the exchange being acknowledged is a business document; a functional acknowledgement is NOT to be sent in response to another functional acknowledgement
- A functional acknowledgement SHOULD detail both positive and negative functional acceptance of each information exchange
- The functional acknowledgement SHOULD relate to the information exchange (data file) level i.e. a single acknowledgement for each data file exchanged
- The APERAK data model MUST be used for ALL functional acknowledgements

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- If an information exchange utilises a business level response e.g. ORDERS and ORDRSP then NO functional response is expected to be utilised

1.7 Interface Definitions

The following provides reference and explanation to the interface definitions:

Property	***Explanation***
Communication Direction	Details the direction in which the information will be transmitted: M&S to 3rd Party – M&S will be the sender of the data 3rd Party to M&S – M&S will be the receiver of the data
EANCOM Version	The version of the EANCOM standard that is to be utilised. All documents will refer to the following version: EANCOM® 2002 Syntax 4 (based on UN/EDIFACT D.01B Syntax 4)
EANCON Document Name	The business name of the EANCOM document to be used as part of the information exchange
EANCOM Document	The EANCOM short name for the business document to be used as part of the information exchange
EANCOM Document Version	The version of the business document to be used
Document Scope	The scope of the data to be passed as part of the information exchange. This will be either Full Record. All data elements associated to the business document will be passed regardless of whether those elements have changed. Changed Elements Only. Only the key elements and those which have changed will be transmitted.
Transmission Frequency	The frequency of when the business documents will be sent and expected to be received Real-time. A document will be sent and processed end-to-end in real-time, or near real-time Daily. Any document sent or received by M&S will be once per day. If more than 1 document is sent or received during that daily period, all documents will done so at the same time
Data Object Definition Reference	Reference to the data object definition within the Information Exchange Data Definition Document.

1.8 Assuring your implementation

Once you have finalised your implementation of the M&S Business Document Definition, GXS will be on-hand to test both compliance of your implementation, along with ensuring that you can successfully connect to your secure mailbox. GXS will work with you to ensure your on-boarding is a success and resolve and issues you encounter with your implementation.

Once these final checks and testing have been completed you will be ready to start exchanging EDI messages with M&S electronically and soon start realising the benefits of using our electronic trading solution.

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1.9 M&S Electronic trading solution Support

During the exchange of business documents between M&S and yourself there may be circumstances where the documents are not successfully transmitted, or the data received is not accepted / compliant to that which is expected by either of our systems.

Where business documents failed to be processed by M&S, we will notify you immediately either through automated acknowledgements detailing what the technical or data problem was, or via our business support team who will contact your designated business representative.

If you encounter any problems receiving business documents from M&S, you can contact our support service.

IMPORTANT: If you have any queries regarding the receipt and processing of the business document, please ensure that the technical acknowledgement (CONTRL) message has been sent / received by your company. The support team will request the unique acknowledgement identification number for the transaction to ensure that we can properly investigate the reported problem.

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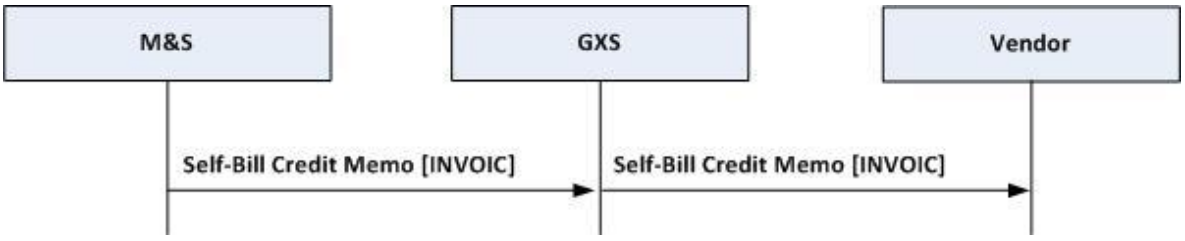
2 MESSAGE DEFINITION

The sections that follow detail the specification of the business document that is the subject of this Message Implementation Guide that M&S will support for electronic information exchange.

2.1 Message Data Flow Summary

The Self-Bill Credit Memo EDI Business Document will enable you our Trading Partners to receive adjustments to invoices from M&S electronically. As detailed by the definition in this section, the Self-Bill Credit Memo will contain:

- The Invoice Number and date specified by the Trading Partner
- The Trading Partner VAT Registration No (if UK VAT registered company)
- Reference to the M&S Purchase Order
- General information about the buyer and supplier including unique identifiers
- The items from the Invoice being adjusted
  - : Reference to the Invoice line item.
  - : Reference to the adjustment
  - : Reference to the reason for the adjustment



2.2 Message Use-Cases

The Self Bill Credit Memo message will be used for the following:

- Self Bill Credit Memo from M&S to Trading Partner

  For full service vendors (FSVs) M&S will send Trading Partners a self bill credit memo for adjustments to previous invoices.

2.3 Message Specification Reference Guide

2.3.1 Self Credit Memo - INVOIC

The following table provides summary detail to this business document – trading partner must ensure that the correct version of the EANCOM message template is used for its implementation.

Property	***Value***
Communication Direction	M&S to Trading Partner
EANCOM Version	EANCOM® 2002 Syntax 4
EDIFACT Version Reference	UN/EDIFACT D 2001B Syntax
EANCON Document Name	Self Bill Credit Memo

Property	*Value*
EANCOM Document	INVOIC
EANCOM Document Version	001
Document Scope (Full Record/Changed Elements Only)	Full Record
Transmission Frequency	Every Friday

2.4 Message Definition Summary

Each Business Document Data Definition guide provides the following information:

- Chg Flag. The Chg Flag provides identification of any changes from version to version. Y = Field has changed, N = No Change
- Segment. The EANCOM segment within which the field to populated exists.
- Field/Element Reference. The EANCOM field name to be populated and exchanged.
- Business Description. Business description of the field / element to be used by M&S.
- Min-Max. The number of occurrences of the field being populated.
- Data Type and Length. The data type of the field of the field being populated and the maximum length of the data that is to be expected for the specified field.
- Example Values. Any example values that will be populated by M&S or that M&S would expect to receive in the case where the message is sent by the trading partner.

2.5 Message Definition Guide - INVOIC

2.5.1 EANCOM Interchange Header

Every EANCOM message will require an EANCOM Interchange Header. The interchange MAY contain one or more EANCOM messages of the same type.

This segment is used to envelope the interchange, as well as to identify both, the party to whom the interchange is sent and the party who has sent the interchange. The principle of the UNB segment is the same as a physical envelope which covers one or more letters or documents, and which details, both the address where delivery is to take place and the address from where the envelope has come.

The Interchange Header is defined in the table that follows:

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N	**UNB**			**INTERCHANGE HEADER**	**1-1**		
		S001		Syntax identifier			
N		0001	M a4	Syntax identifier	1-1	UNOA	Definitions the ISO encoding standard of the data.
N		0002	M an1	Syntax version number	1-1	4	
N	**UNB**	**S002**		**INTERCHANGE SENDER**	**1-1**		
N		0004	M an..35	Interchange sender identification	1-1	00098765 4321	Unique Company EDI Identifier
N		0007	C an..4	Identification code qualifier	1-1	14	EAN GLN value

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N	**UNB**	**S003**		**INTERCHANGE RECEIVER**	**1-1**		
N		0010	M an..35	Interchange recipient identification	1-1	00012345 6789	Unique Company EDI Identifier
N		0007	C an..4	Identification code qualifier	1-1	14	EAN GLN value
N	**UNB**	**S004**		**INTERCHANGE CONTROL REFERENCE**	**1-1**		
N		0017	M an..35	Date of Interchange	1-1	0090903	CCYYMMDD
N		0019	C an..4	Time of Interchange	1-1	1032	HHMM
N	**UNB**			**INTERCHANGE CONTROL REFERENCE**	**1-1**		
N		0020	M an..14	Unique reference identifying the interchange. Created by the interchange sender.	1-1	00000000 000161	Unique message interchange identifier.
N	**UNB**			**APPLICATION REFERENCE**	**1-1**		
Y		0026	C an..14	Message identification if the interchange contains only one type of message.	1-1	SBCNINVO IC	Reference of the EANCOM business document

An example of the Interchange Header is provided for reference:

UNB+UNOA:4+000987654321:EAN+000123456789:EAN+20090903:1032+00000000000161++SBCNINVOIC'

2.5.2 EANCOM Business Document Definition

The Self Bill Credit Memo message is implemented using the EANCOM INVOIC data template. Further information regarding the base template can be found at the following location:

http://www.gs1.se/eancom_2002/ean02s4/experts/index.htm

The M&S usage of that template is defined below:

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N	**UNH**			**HEADER**	**1-1**		
N		0062	AN 14	Message reference number	1-1		
N		**S009**		**MESSAGE IDENTIFIER**	**1-1**		
N		0065	AN 6	Message type	1-1	INVOIC	
N		0052	AN 3	Message version number	1-1	D	
N		0054	AN 3	Message release number	1-1	01B	
N		0051	AN 3	Controlling agency, coded	1-1	UN	
N		0057	AN 6	Association assigned code	1-1	EAN010	

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N	**BGM**			**BEGINNGING OF MESSAGE**	**1-1**		
N		**C002**		**DOCUMENT/MESSAGE NAME**	**1-1**		
N		1001	AN 3	Document name code	1-1	261	261 – Self Bill Credit Note
N		**C106**		**DOCUMENT/MESSAGE IDENTIFICATION**	**1-1**		
N		1004	An 35	Invoice Document Reference identifier	1-1		This the trading partner Invoice Number
N		1225	AN 3	Message function code	1-1	9 7	9 = Original 7 = Duplicate
N	**DTM**	**C507**		**DATE/TIME/PERIOD**	**1-1**		**Invoice Date**
N		2005	AN 3	Date or time or period function code qualifier	1-1	137	Default = 137 (Document/message date/time)
N		2380	AN 35	Invoice Date or time or period value	1-1	20091225	Invoice Date
N		2379	AN 3	Date or time or period format code	1-1	102	Default = 102 (CCYYMMDD)
N	**FTX**			**Free Text**	**1-1**		
N		4451	C n 3	Text subject code qualifier. General Information	1-1	AAI	
N		**C108**		**TEXT REFERENCE**	**1-1**		
N		4440	AN 512	Free text	1-1	DEBIT MEMO	
N	**RFF**	**C506**		**REFERENCE**	**0-1**		
N		1153	AN 3	User Defined Reference code qualifier	1-1	DM	Default = DM (Unique Document Reference)
N		1154	AN 70	Unique ID for traceability purposes	1-1	0000000001517731	
N	**SG2**			**SG2-NAD-FII-SG3-SG5**	**1-1**		**Supplier Identifier and Address Information**
N	**NAD**			**Name and address**			
N		3035	AN 3	Party function code qualifier	1-1	SU	Default = SU (Supplier)
N	**NAD**	**C082**		**PARTY IDENTIFICATION DETAILS**			
N		3039	AN 35	Supplier Party identifier	1-1		Supplier Series Number Identifier
N		3055	AN 3	Code list responsible agency code	1-1	9	Default = 9

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	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N	**NAD**	**C080**		**PARTY NAME**			
N		3036	AN 35	Supplier Party Name	1-1		
N	**NAD**	**C059**		**STREET**			
N		3042	AN 35	Name and address description	0-1		
N		3164	AN 35	City Name	0-1	LONDON	
N		3251	AN 17	Postal Code	0-1	SW11 9LA	
N		3207	AN 3	Country Name Code	0-1	GB	
N	**RFF**	**C506**		**SUPPLIER VAT REFERENCE**	**0-1**		**Only present if UK VAT Registered**
N		1153	AN 3	VAT Registration. User Defined Reference code qualifier	1-1	VA	VA = VAT Reference
N		1154	AN 70	Supplier VAT Registration Number	1-1		
N	**SG2**			**SG2-NAD-FII-SG3-SG5**	**1-1**		**M&S Identifier and Address Information**
N	**NAD**			**Name and address**			
N		3035	AN 3	Party function code qualifier	1-1	BY	Default = BY (Buyer)
N	**NAD**	**C082**		**PARTY IDENTIFICATION DETAILS**			
N		3039	AN 35	M&S identifier	1-1		M&S Series Number Identifier
N		3055	AN 3	Code list responsible agency code	1-1	9	Default = 9
N	**NAD**	**C080**		**PARTY NAME**			
N		3036	AN 35	M&S Party Name	1-1	MARKS & SPENCER PLC	
N		3036	AN 35	M&S Party Name	0-1		
N	**NAD**	**C059**		**STREET**			
N		3042	AN 35	Name and address description	0-1	WATERSIDE HOUSE	
N		3164	AN 35	City Name	0-1	LONDON	
N		3251	AN 17	Postal Code	0-1	W2 1NW	
N		3207	AN 3	Country Name Code	0-1	GB	
N	**RFF**	**C506**		**M&S VAT REFERENCE**	**0-1**		**Only present if UK VAT Registered**
N		1153	AN 3	VAT Registration. User Defined Reference code qualifier	1-1	VA	VA = VAT Reference

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	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N		1154	AN 70	M&S VAT Registration Number	1-1	GB232128 892	
N	**SG6 TAX**			**TAX-MOA**	**1-1**		**TAX IN INVOICE CURRENCY**
N		5283	M an..3	Duty or tax or fee function code qualifier	1-1	7	7 = Tax
N		**C241**		**DUTY/TAX/FEE TYPE**	**1-1**		
Y		5152	C n..35	Duty or tax or fee type name	1-1	OUTSIDE THE SCOPE OF VAT	
N		**C243**		**DUTY/TAX/FEE DETAIL**	1-1		
N		5279	C an..7	VAT indicator	1-1		
N		5278	C an..17	VAT rate	1-1		
N	**MOA**	**C516**		**MONETARY AMOUNT**	**1-1**		
N		5025	M an..3	Monetary identifier	1-1	124	124 = Taxable Amount
N		5004	C n..35	Tax amount in document currency	1-1		
N	**SG6 TAX**			**TAX-MOA**	**0-1**		**ONLY PRESENT IF INVOICE CURRENCY NOT GBP – THIS WILL BE GBP VALUE**
N		5283	M an..3	Duty or tax or fee function code qualifier	1-1	7	7 = Tax
N		**C241**		**DUTY/TAX/FEE TYPE**	**1-1**		
Y		5152	C n..35	Duty or tax or fee type name	1-1	OUTSIDE THE SCOPE OF VAT	
N		**C243**		**DUTY/TAX/FEE DETAIL**	1-1		
N		5279	C an..7	VAT indicator	1-1		
N		5278	C an..17	VAT rate	1-1		
N	**MOA**	**C516**		**MONETARY AMOUNT**	**0-1**		
N		5025	M an..3	Monetary identifier	1-1	36	36=Converted Amount
N		5004	C n..35	Tax amount in document currency	1-1	14.50	Value in GBP
N		6345	C an3	Currency identification code	1-1	GBP	
N	**SG7 - CUX**	**C504**		**CURRENCY DETAILS**	**1-1**		**Currency of the Invoice**
N		6347	M an…3	Currency usage code qualifier	1-1	2	2 = Reference currency
N		6345	C an…3	Currency identification code	1-1	USD	
N		6343	C an…3	Currency type code	1-1	4	4=Invoicing Currency

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	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
				qualifier			
N	**SG7 - CUX**	**C504**		**CURRENCY DETAILS**	**0-1**		**M&S Book Currency of the Invoice.**
N		6347	M an...3	Currency usage code qualifier	1-1	3	3 = Target currency
N		6345	C an...3	Currency identification code	1-1	GBP	
N		6343	C an...3	Currency type code qualifier	1-1	4	4=Invoicing Currency
N	**SG7 - CUX**				**1-1**		
N		5402	C n...12	Exchange rate value	1-1	0.625	Exchange rate for the M&S book currency to the invoice currency
N	**SG26**			**Line Items**			
N	**SG26-LIN**			**Line item**	**1-n**		**This set of segment will repeat for each line item on the Invoice.**
N		1082	AN 6	Line item identifier	1-1	00010	
N	**LIN**	**C212**		**ITEM NUMBER IDENTIFICATION**			
N		7140	AN 35	UPC Item identifier	0-1	1000007	M&S UPC Number
N		7143	AN 3	Item type identification code	0-1	SRV	Default = SRV
N	**PIA**						
N		4347	M an..3	Product identifier code qualifier	1-1	5	5 = Product identification
N		7143	C an..3	Item type identification code	1-1		
N		3055	C an..3	Code list responsible agency code	0-1	92	92 = Assigned by buyer or buyer's agent
N		7140	C n..35	Item identifier	0-1		
N	**SG26-IMD**			**Item description**	**1-1**		**Item Description from the PO**
N		**C273**		**ITEM DESCRIPTION**			
N		7008		Generic / Variant Item description (Stroke / Colour)	1-1	1103F - Stripe Tie Cardi Black Mix Y4 - BLACK MIX	Description taken from the PO
N	**SG26-QTY**	**C186**		**QUANTITY DETAILS**	**1-1**		
N		6063	AN 3	Quantity type code qualifier	1-1	47	47 = Invoiced quantity

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	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N		6060	AN 35	Invoiced Quantity	1-1	100	
N		6411	AN 3	Unit Measurement Code	1-1	EA	
N	**SG26-DTM**	**C507**		**DATE**	**1-1**		**Goods Receipt Date**
N		2005	M an..3	Indicate the date is goods receipt date	1-1	50	50 = Goods receipt date/time
		2380	C n..35	Goods receipt date	1-1	20091124	
N		2379	C an..3	Date code	1-1	102	102 = CCYYMMDD
N	**FTX**			**Free Text**	**0-1**		
N		4451	C n 3	Text subject code qualifier. General Information	1-1	LIN	LIN=Line Item
N		**C108**		**TEXT REFERENCE**	**1-1**		
N		4440	AN 512	Transaction description	1-1	T69	Department
N	**SG26-MOA**	**C516**		**MONETARY AMOUNT**	**1-1**		**Line Item Amount**
N		5025	M an..3	Monetary identifier	1-1	203	203 = Line item amount
N		5004	C n..35	Net Item Amount / Taxable amount	1-1		
N	**SG26-MOA**	**C516**		**MONETARY AMOUNT**	**1-1**		**Net Item Amount**
N		5025	M an..3	Monetary identifier	1-1	125	125 = Taxable amount
N		5004	C n..35	Net Item Amount / Taxable amount	1-1		
N	**SG29**			**PRI-APR**	**1-1**		
N	**SG29-PRI**	**C509**			**1-1**		
N		5125	M an..3	Reference Qualifier	1-1	AAA	AAA = Calculation net
N		5118	C n..15	Price net of VAT	1-1		Unit Price Value
N		5284	C an..3	Price unit, e.g. "1" for single	1-1		
N		6411	C an..3	Price Unit, e.g. "EA" for each	1-1	EA	EA = Each
N	**SG30-RFF**	**C506**		**PO REFERENCE**	**1-1**		
N		1153	M an..3	Reference to the original PO Number	1-1	ON	ON = Order number (buyer)
N		1154	C an..70	Reference Identifier. Purchase order number	1-1	2040000010	Purchase Order number from original PO
N		1156	C an..6	PO Line Item Number	1-1	00010	PO Line Item Number
N	**LOC**	**C507**		**LOCATION**	**1-1**		
N		3227	M an..3	Location Identifier	1-1	18	18 = Warehouse
N		3225	C an..25	Location Reference	1-1	5306	
N	**SG34**			**TAX-MOA**	**1-1**		
N	**SG34-TAX**				1-1		

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	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N		5283	M an..3	Duty or tax or fee function code qualifier	1-1	7	7 = Tax
N		**C243**		**DUTY/TAX/FEE DETAIL**	1-1		
N		5279	C an…3	Tax code	1-1	W2	
N		5278	C an..17	VAT rate (UK vendors only) or local tax rate	1-1	15.00	
N	**SG34-MOA**	**C516**		**MONETARY AMOUNT**	**1-1**		
N		5025	M an..3	Monetary identifier	1-1	150	150 = value added tax
N		5004	C n..35	Tax amount of the line	1-1	11.99	
N	**TOD**	**C100**		**DELIVERY TERMS**	**0-1**		
N		4055	C an..3	Delivery or transport terms function code	1-1	6	6 = Delivery condition
N		4053	C an..3	Delivery or transport terms description code	1-1	DPP	
N	**UNS**						
N		0081	M a1	Section identification	1-1	S	
N	**CNT**	C270			**1-1**		
N		6069	M an..3	Value qualifier	1-1	2	2 = Number of line items in message
N		6066	M n..18	Number of line items	1-1		
N	**SG50**			**MONETARY AMOUNTS**	**1-1**		
N	**MOA**	**C516**		**TOTAL GROSS INVOICE AMOUNT**	**1-1**		
N		5025	M an..3	Monetary identifier	1-1	77	77 = Invoice amount
N		5004	C n..35	Total amount of the Invoice	1-1		
N		6345	C n…3	Currency	1-1	GBP	
N	**MOA**	**C516**		**TOTAL NET INVOICE AMOUNT**	**1-1**		
N		5025	M an..3	Net total value of the invoice	1-1	125	125 = Taxable amount
N		5004	C n..35	Total Taxable / Net Amount	1-1	11.99	
N		6345	C n…3	Currency	1-1	GBP	
N	**MOA**	**C516**		**TOTAL TAX AMOUNT**	**1-1**		
N		5025	M an..3	Monetary identifier	1-1	150	150 = value added tax
N		5004	C n..35	Tax amount of the Invoice	1-1	11.99	
N		6345	C n…3	Currency	1-1	GBP	
N	**UNT**			**Message trailer**	**1-1**		
N		0074	N 10	Number of segments in a message	1-1	Calculated value	Calculated value

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	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N		0062	AN 14	Message reference number	1-1	Message ID	Message ID

An example of the Interchange Detail segments is provided for in Section 4 Understanding EDIFACT / EANCOM for reference.

2.5.3 EANCOM Interchange Trailer

Every EANCOM message will require an EANCOM Interchange Trailer. The UNZ segment is used to provide the trailer of an interchange.

The Interchange Trailer is defined in the table that follows:

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N	**UNZ**			**INTERCHANGE TRAILER**	**1-1**		
N		0074	M n..6	Number of messages or functional groups within an interchange.	1-1	1	
N		0002	M an14	Interchange control reference	1-1	00000000 000161	Identical to DE 0020 in UNB segment

An example of the Interchange Header is provided for reference:

UNZ+1+00000000000161'

2.6 Guidance Notes

3 COMPLIANCE TESTING

3.1 Test Cases

The following test cases are required for the testing of this EDI Business Document.

3.1.1 SELFCREDITMEMO_INVOIC_001

This test condition is to test ensure the implementation compliance for the Self Bill Credit Memo creation functional use case – M&S sends Self Bill Credit Memo to Trading Partner. Your implementation must be able to create the Invoice aligned to the example test file.

Property	***Definition / Reference***
Test Case Reference	SELFCREDITNOTE_INVOIC_001
Business Context	Create Self Bill Credit Memo
Functional Requirement	The creation of Self Bill Credit Memo for a UK based FSV Supplier – Full Delivery of PO.
Applies To	FSV Outlet
Test Case Definition	Self Bill Credit Memo sent to Vendors via GXS by Vendor Number based on goods received. Self Bill Credit Memo contains the following information: - Vendor Name, Address and Number - Vendor VAT registration number - Invoice and Ship To Address and VAT registration number - Invoice Number & Date, Tax code, Despatch date and Currency - PO Number & Issue Date, Dept & Delivery Note - Product Info, Units, Price and Amount
Outcome	Self Bill Credit Memo sent to Vendors via GXS by Vendor Number based on Good Received. Technical acknowledgement is received from the Vendor acknowledging successful delivery of the message to the Vendor.
Test File Reference	SELFCREDITMEMO_INVOIC _001.edi SELFCREDITMEMO_INVOIC_001.edi

4 UNDERSTANDING EDIFACT / EANCOM

4.1 WHAT IS EDIFACT?

UN/EDIFACT: United Nation's Directories for Electronic Data Interchange for Administration, Commerce and Transport. They comprise a set of internationally agreed standards, directories and guidelines for the electronic interchange of structured data, particular as related to trade in goods and services, between independent, computerised information systems.

All EANCOM® 2002 messages used by Marks and Spencer are based on the UN/EDIFACT directory D.01B which was released by UN/CEFACT in 2001.

4.2 EANCOM Message Structure

Each EANCOM message will have the following structure:

- Interchange / Envelope Header (UNB)
- Message Header Section (UNH)
- Detail Section (Any)
- Summary Section (UNT)
- Interchange / Envelope Trailer (UNZ)

The structure is shown the figure that follows:

Each data segment has a specific place within the sequence of segments in the message. They may occur in any of the following three sections of the message:

- Heading section - A segment occurring in this section relates to the entire message
- Detail section - A segment occurring in this section relates to the detail information only and will contain the business data i.e. contract, purchase order etc.
- Summary section - Only segments containing totals or control information may occur in the summary section, e.g. invoice total amount, number of lines in a purchase order

4.2.1 Segments and Segment Groups

The same segment type may occur in more than one of the message sections, for example in the header and in the detail section, and/or more than once in the same section.

Some segments may be repeated a certain number of times at their specific location in the message. The status, Mandatory or Conditional, and the maximum number of repetitions of segment types are indicated in the message structure.

Within a message, specific groups of functionally related segments may be repeated; these groups are referred to as "segment groups". The maximum number of repetitions of a particular segment group at a specific location is included in the message definition.

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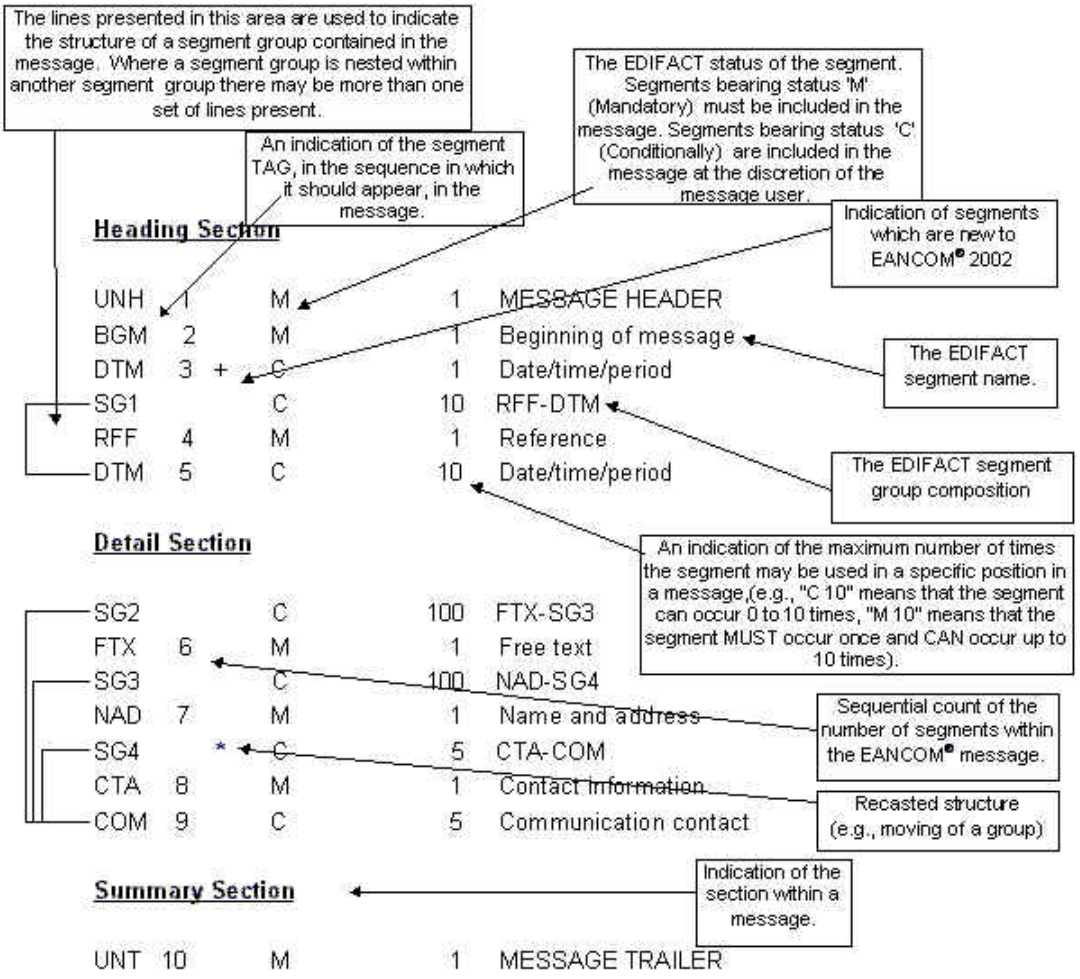
A segment group may be nested within other segment groups, provided that the inner segment group terminates before any outer segment group terminates. The following taken from the EANCOM standard itself provides reference to the message structure with segments and segment groups.



A segment consists of the following:

- A segment tag: identifies the segment type
- Data element separators
- Simple and/or composite data elements,
- A segment terminator

Data elements can be defined as having a fixed or variable length.

A composite data element contains two or more component data elements.

A component data element is a simple data element used in a composite data element.

A data element can be qualified by another data element, the value of which is expressed as a code that gives specific meaning to the data. The data value of a qualifier is a code taken from an agreed set of code values.

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4.3 Example EANCOM Message

Provided for reference is an example EANCOM message – note this is an example only.

UNB+UNOA:4+5012068015509:14+44893672138+20100219:0401+00000000000051++SBCNINVOIC++1'
UNH+00000000000008+INVOIC:D:01B:UN:EAN010'
BGM+261+5100037998+9'
DTM+137:20100216:102'
FTX+AAI+++DEBIT MEMO'
NAD+SU+M08457::9++SUPPLIER NAME++GAZIPUR++1712+BD'
NAD+BY+++MARKS AND SPENCER GROUP PLC+NORTH WHARF ROAD , WATERSIDE HOUSE+LONDON++W2 1NW+GB'

RFF+VA:GB232128892'

TAX+7+:::STANDARD RATED INPUT VAT?: 17.5+++03'
MOA+124:117.18'
CUX+2:USD:4'
LIN+000010++3008638:SRV'
PIA+5+000000022001510001:IN::92'
IMD+++:::8906 GOLF JUMPER 1 LN'
QTY+47:100.000:EA'
DTM+50:20100216:102'
MOA+203:179.76'
MOA+125:179.76'

PRI+AAA:0:::1:EA'
RFF+ON:2040000580:00010'
LOC+18+9221'
TAX+7++++03' MOA+150:0'
LIN+000020++3010037:SRV'
PIA+5+000000022001510002:IN::92'
IMD+++:::8906 GOLF JUMPER 1 LN'
QTY+47:30.000:EA'
DTM+50:20100216:102'
MOA+203:244.92'
MOA+125:179.76'

PRI+AAA:0:::1:EA'
RFF+ON:2040000580:00010'
LOC+18+9221'
TAX+7++++03'
MOA+150:0'
LIN+000030++3013625:SRV'
PIA+5+000000022001510003:IN::92'
IMD+++:::8906 GOLF JUMPER 1 LN'
QTY+47:30.000:EA'
DTM+50:20100216:102'
MOA+203:244.92'
MOA+125:179.76'
PRI+AAA:0:::1:EA'
RFF+ON:2040000580:00010'
LOC+18+9221'
TAX+7++++03'
MOA+150:0' UNS+S'
CNT+2:3'
MOA+125:669.6:USD'

MOA+77:786.78:USD'
MOA+150:117.18:USD'
UNT+52+00000000000008'
UNZ+1+00000000000051'

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Example 2

UNB+UNOA:4+5013546093721:14+5012345678987:14+20110617:1427+00000000000110+PASSWORD+SBCNINVOIC'
UNH+00000000005009+INVOIC:D:01B:UN:EAN010'BGM+261+5100000066+7'
DTM+137:20110512:102'
FTX+AAI+++DUPLICATE INVOICE.'
NAD+SU+M0XXXX::9++JOE BLOGGS LTD+LONDON ROAD+LONDON++W1 3AA+GB'
RFF+VA:GB303383488'
NAD+BY+1000::9++MARKS AND SPENCER PLC+NORTH WHARF ROAD , WATERSIDE HOUSE+LONDON++W2 1NW+GB'
RFF+VA:GB232128892'
TAX+7+:::20% INPUT VAT+++X2:::20.00'
MOA+124:8.59'
CUX+2:GBP:4'
PAT+22++5:3:D:6'PCD+12:0'
LIN+000010++06594060:SRV'PIA+5+000000021215527001:IN:92'
IMD+++:::6129 M GRAS
FLASK A4, 1SIZE'
QTY+47:12.000:EA'
DTM+50:20110505:102'
FTX+LIN+++T34'
MOA+203:42.96'
MOA+125:42.96'
PRI+AAA:3.58:::1:EA'
RFF+ON:2020000107:00010'
RFF+ACD:175078:00010'
RFF+CR:34232:00010'
LOC+18+4459'
TAX+7++++X2:::20.00'
TOD+6++DDP'
UNS+S'
CNT+2:1'
MOA+125:42.96:GBP'
MOA+77:51.55:GBP'
MOA+150:8.59:GBP'
UNT+34+00000000005009'
UNZ+1+00000000000110'

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5 VERSION CONTROL

The following versions of the document have been produced:

Version	*Status*	*Issue Date*	*Author*	*Comments*
1.00	Issued	15/11/2009	M&S	
1.01	Issued	15/02/2010	M&S	Clarification on TAX segment Updated message example
1.02	Issued	14/04/2010	M&S	Update to Message Interchange Header Section, APRF value in UNB segment
1.03	Issued	29/06/2011	M&S	Addition of new example file

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