



**Documentation of
Digital Data Interchange
via
ANSI X.12 Standard**

PO850 (4010)

Purchase Order

Outbound

Version: 2.5 May-04, 2021

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	3
PREFACE.....	5
INTRODUCTION	5
NOTES.....	5
USING THIS GUIDELINE.....	5
SEGMENT SUMMARY	6
DETAILED SEGMENT DESCRIPTION	11
DOCUMENTED EXAMPLE.....	124
APPENDIX – BRANCHING DIAGRAM	128
APPENDIX – CODELISTS.....	137

DOCUMENT REVISION HISTORY

Version	Date	Name	Modification Details
1.0	Nov-18, 2016	SAP Ariba	Initial Draft
1.1	Feb-14, 2017	SAP Ariba	PO1/REF*LT – Buyer Batch Number added
1.2	May-05, 2017	SAP Ariba	Update of code list 355 Unit or Basis for Measurement Code (UOM)
1.3	May-29, 2017	SAP Ariba	Change item identification numbers into variable order (PO1 + SLN)
1.4	Jun-30, 2017	SAP Ariba	REF*CT – Contract Number added DTM*171 – Revision Date added N9*U2 – Terms and Condition added N9*KD – Control keys/Special Instructions added PO1/REF*CO – Customer Order Number added PO1/REF*S1 – Engineering Specification Number added PO1/REF*ZG – Sales Order Number added
1.5	Jul-26, 2017	SAP Ariba	REF*Q1 – Quote Number added PO1/SCH/REF*CT – Contract Number added Update of code list 355 Unit or Basis for Measurement Code (UOM)
1.6	Nov-20, 2017	SAP Ariba	N1/REF*ME - Additional Postal Address Information added Update of code list 355 Unit or Basis for Measurement Code (UOM)
1.7	Jan-17, 2018	SAP Ariba	N405 + N406 – addition of State Code for countries other than US or CA
1.8	Jan-22, 2018	SAP Ariba	N9*43 - External Document Reference added PO1/REF*KQ - itemCategory values added PO1/N9*ACC - return item added PO1/N9*KD – Control keys/Special Instructions added
1.9	Apr-11, 2018	SAP Ariba	REF*ZZ – Mutually defined information added N9*ZZ – removed
1.10	May-11, 2018	SAP Ariba	N9*ZZ – Mutually defined information added
1.11	June-15, 2018	SAP Ariba	N9*URL – URL information added PO1/PID – Configurable material information added PO1/REF*18 – Planning type information added PO1/REF*IP – Number of inspection days added PO1/REF*SE – Serial Number added PO1/N9*PRT – Detailed item characteristic information added
1.12	July-27, 2018	SAP Ariba	BEG/353 – Delete and Replace added
1.13	Sep-07, 2018	SAP Ariba	PO1/N9*SE – Indicator whether serial numbers are required added
1.14	Oct-12, 2018	SAP Ariba	REF*PD – Promotion/Deal Number added FOB/309 – Destination and Origin added SAC/1300 – Mutually Defined code added ITD/352 – Payment Terms Description added PO1 235/234 – U.P.C. Consumer Package Code added PO1/SAC/1300 – Mutually Defined code added
1.15	Jan-11, 2019	SAP Ariba	TXI/325 – Custom Tax Category added
1.16	Jul-01, 2019	SAP Ariba	FOB/335 – Incoterms codes from higher ANSI X12 version added.
2.0	Feb-07,2020	SAP Ariba	Format parity edits – Multiple enhancements: REF – Restructured on header due to new content REF*RPP – Priority sequence added REF*VN – Supplier order number added PER – Purchasing Legal Entity and Organizational Unit added N9 – Restructured on header due to new content N9*KD – Further control key information added N1/TD5 – Segment corrections, shipping instructions added N1/TD4 – Carrier identification added, moved from TD5 PO1/PID – restructured on line due to new content PO1/PID*F*12 – Material or service classification added PO1/REF – Restructured on header due to new content PO1/REF*FL – Item type “lean” added PO1/REF*QJ – Return authorization number added PO1/REF*CT – Agreement line number added PO1/SCH – Segment corrections, ship-to name (SCH04) added PO1/N9 – Restructured on header and line due to new content PO1/N9*ACE – Indicator “requiresServiceEntry” added PO1/N9*BT – Indicator “requiresBatch” added PO1/N9*LS – Indicator “isHUMandatory” added

Version	Date	Name	Modification Details
			PO1/N9*SU – Indicator “requiresRealTimeConsumption” added PO1/N9*KD – Further control key information added PO1/N9*0L – Additional document references added PO1/N9*H6 – Quality information added PO1/N1/TD5 – Segment corrections, shipping instructions added PO1/N1/TD4 – Carrier identification added, moved from TD5 PO1/SLN02 – Link to schedule line number added PO1/SLN/N9*BT – Component supplier batch number added PO1/SLN/N9*LT – Component buyer batch number added PO1/SLN/N9*SU – Indicator “materialProvisionIndicator” added
2.1	Jul-07, 2020	SAP Ariba	PO1/SDQ – Packaging distribution added. PO1/N9*ACC – delivery complete item added PO1/N9*KD – Control keys/OC quantity and price tolerances added PO1/N9*KD – Control keys/ASN quantity and time tolerances added
2.2	Sep-02, 2020	SAP Ariba	PO1/DTM*150 – Service period start date added. PO1/DTM*151 – Service period end date added.
2.3	Jan-04, 2021	SAP Ariba	PO1/SLN/N9*4C – Storage location number added
2.4	Jan-28, 2021	SAP Ariba	N9*L1 – comment type added PO1/N9*L1 – comment type added
2.5	May-04, 2021	SAP Ariba	Country codes including X12 version 7040 added

PREFACE

This document outlines the requirements for digital data interchange using the ANSI X.12 format. Initially the uses segments and their meaning within a message are described. The example files used in this guide are examples only. In the following chapter all segments are described in detail. Additionally, you will find a document example as well as a branching diagram.

This documentation focuses on an explicit version, i.e. the segments are documented as they would possibly occur in practice. Thus, the maximum number of repetitions of the individual segments is limited to the ones which are actually used. This does, however, not constitute a limitation, but rather a more detailed description of the example used.

INTRODUCTION

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment.

The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services.

NOTES

Ariba Network receives Purchase Orders from Ariba Buyer in the form of cXML OrderRequest documents. Suppliers are able to select their preferred method of receiving Purchase Orders.

As a service to Suppliers preferring to transact via EDI, Ariba Network maps to the ANSI X12 004010 850 Purchase Order document. Suppliers can select EDI as their preferred method for receiving Purchase Orders.

Ariba Network does not require or accept interchange acknowledgements (TA1), but does require a 997 to be returned for each functional group received (other than type FA).

USING THIS GUIDELINE

The DETAILED SEGMENT DESCRIPTION shows the Standard X12 Rules, defined in 004010, and the User Rules, recommended by Ariba Network.

Unused segments are not shown.

The codes defining in detail Segment and Element usages are:

Status	X12 Standard	SAP Ariba Usage
M	Mandatory	Must Use / Required by Ariba Network
C	Conditional	Conditional
O	Optional	Optional
X	Not Used	Not Used

Descriptions for segments have been provided alongside and detailed explanation will follow in a future release.

SEGMENT SUMMARY

Below you will find a description of the used segments within the application and their interdependence.

SegID	SegNo	Name
ISA	0	Interchange Control Header
GS	0	Functional Group Header
ST	10	Transaction Set Header
BEG	20	Beginning Segment for Purchase Order
CUR	40	Currency
REF	50	References
REF	50	References - Promotional Deal Number
REF	50	References - Priority
REF	50	References - Additional Information
REF	50	References - Mutually Defined References
PER	60	Purchasing Legal Entity and Organizational Unit
FOB	80	F.O.B. Related Instructions
CSH	110	Sales Requirements
SAC	LOOP 120	Service, Promotion, Allowance or Charge Information
SAC	120	Service, Promotion, Allowance or Charge Information
CUR	125	Currency
SAC	LOOP 120	Service, Promotion, Allowance or Charge Information
SAC	120	Modifications
CUR	125	Currency
ITD	130	Terms of Sale
DTM	150	Date/Time
PID	190	Shipping Instructions
TXI	285	Tax Information
N9	LOOP 295	Reference Identification - Purchasing Card Information
N9	295	Reference Identification - Purchasing Card Information
DTM	297	Date/Time
N9	LOOP 295	Reference Identification - Additional Information
N9	295	Reference Identification - Additional Information
MSG	300	Free-Form Message Text
N9	LOOP 295	Reference Identification - External Document Information
N9	295	Reference Identification - External Document Information
MSG	300	Free-Form Message Text
N9	LOOP 295	Reference Identification - Comments and Attachments
N9	295	Reference Identification - Comments and Attachments
MSG	300	Free-Form Message Text
N9	LOOP 295	Reference Identification - Control keys
N9	295	Reference Identification - Control keys
N9	LOOP 295	Reference Identification - Mutually Defined References
N9	295	Reference Identification - Mutually Defined References
MSG	300	Message Text
N1	LOOP 310	Party Identification
N1	310	Party Name
N2	320	Party Additional Name Information

SegID	SegNo	Name
N3	330	Party Address Information
N4	340	Party Geographic Location
REF	350	Party Reference
PER	360	Administrative Communications Contact
TD5	390	Carrier Details - Transport Information
TD4	410	Carrier Details - Carrier Identification
PO1	LOOP 10	Line Item
PO1	10	Line Item Data
CUR	20	Currency
PO3	30	Additional Item Detail
CTP	LOOP 40	Pricing Details
CTP	40	Pricing Information
CTP	LOOP 40	Line Item Amount/Unit Price
CTP	40	Line Item Amount/Unit Price
CUR	43	Currency
MEA	49	Measurements
PID	LOOP 50	Product/Item Description
PID	50	Product/Item Description
PID	LOOP 50	Product/Item Shipping Instructions
PID	50	Product/Item Shipping Instructions
PID	LOOP 50	Product/Item Configuration
PID	50	Product/Item Configuration
PID	LOOP 50	Product/Item Material or Service Classification
PID	50	Product/Item Material or Service Classification
PID	LOOP 50	Product/Item Classification
PID	50	Product/Item Classification
REF	100	References
REF	100	References - Additional Information
REF	100	References - Fine Line Classification
REF	100	References - Item Category
REF	100	References - Mutually Defined References
SAC	LOOP 130	Service, Promotion, Allowance or Charge Information
SAC	130	Service, Promotion, Allowance or Charge Information
CUR	135	Currency
SAC	LOOP 130	Service, Promotion, Allowance or Charge Information
SAC	130	Modifications
CUR	135	Currency
FOB	180	F.O.B. Related Instructions
SDQ	190	Destination Quantity - Packaging Distribution
DTM	210	Date/Time
TXI	291	Tax Information
QTY	LOOP 293	Quantity
QTY	293	Range Maximum/Minimum

SegID	SegNo	Name
SCH	LOOP 295	Line Item Schedule
SCH	295	Line Item Schedule
REF	300	References
PKG	LOOP 305	Packaging Details
PKG	305	Marking, Packaging, Loading
MEA	310	Measurements
N9	LOOP 330	Reference Identification - Characteristics
N9	330	Reference Identification - Characteristics
MSG	340	Free-Form Message Text
N9	LOOP 330	Reference Identification - Special Indicators
N9	330	Reference Identification - Special Indicators
N9	LOOP 330	Reference Identification - Quality Information
N9	330	Reference Identification - Quality Information
MSG	340	Message Text
N9	LOOP 330	Reference Identification - Additional Document References
N9	330	Reference Identification - Additional Document References
N9	LOOP 330	Reference Identification - Comments
N9	330	Reference Identification - Comments
MSG	340	Free-Form Message Text
N9	LOOP 330	Reference Identification - Item URL
N9	330	Reference Identification - Item URL
MSG	340	Free-Form Message Text
N9	LOOP 330	Reference Identification - Control keys
N9	330	Reference Identification - Control keys
N9	LOOP 330	Reference Identification - Mutually Defined References
N9	330	Reference Identification - Mutually Defined References
MSG	340	Message Text
N1	LOOP 350	Party Identification
N1	350	Party Name
N2	360	Party Additional Name Information
N3	370	Party Address Information
N4	380	Party Geographic Location
REF	390	Party Reference
PER	400	Administrative Communications Contact
TD5	430	Carrier Details - Transport Information
TD4	450	Carrier Details - Carrier Identification
SLN	LOOP 470	Subcontracting Components
SLN	470	Subcontracting Components
MSG	475	Message Text
DTM	515	Date/Time
N9	LOOP 523	Reference Identification
N9	523	Reference Identification
N9	LOOP 523	Material Provision Indicator - Subcontracting Type

SegID	SegNo	Name
N9	523	Material Provision Indicator - Subcontracting Type
CTT	LOOP 10	Transaction Totals
CTT	10	Transaction Totals
AMT	20	Monetary Amount
SE	30	Transaction Set Trailer
GE	0	Functional Group Trailer
IEA	0	Interchange Control Trailer

DETAILED SEGMENT DESCRIPTION

Below you will find an exact description of the used segment.

ISA M 1 Interchange Control Header

Standard X12				SAP Ariba Usage, allowed Codes			
01	I01	Authorization Information Qualifier	M	ID 2/2	M	ID 2/2	<i>00 No Authorization Information Present (No Meaningful Information in I02)</i>
02	I02	Authorization Information	M	AN 10/10	M	AN 10/10	10 empty spaces must be entered here as the ISA segment is space sensitive.
03	I03	Security Information Qualifier	M	ID 2/2	M	ID 2/2	<i>00 No Security Information Present (No Meaningful Information in I04)</i>
04	I04	Security Information	M	AN 10/10	M	AN 10/10	10 empty spaces must be entered here as the ISA segment is space sensitive.
05	I05	Interchange ID Qualifier	M	ID 2/2	M	ID 2/2	Qualifier to designate the system/method of code structure used to designate the sender ID element being qualified. E. g. <i>ZZ Mutually Defined</i>
06	I06	Interchange Sender ID	M	AN 15/15	M	AN 15/15	Sender identification number
07	I05	Interchange ID Qualifier	M	ID 2/2	M	ID 2/2	Qualifier to designate the system/method of code structure used to designate the receiver ID element being qualified. E.g. <i>ZZ Mutually Defined</i>
08	I07	Interchange Receiver ID	M	AN 15/15	M	AN 15/15	Receiver identification number
09	I08	Interchange Date	M	DT 6/6	M	DT 6/6	Date of Interchange, format YYMMDD
10	I09	Interchange Time	M	TM 4/4	M	TM 4/4	Time of Interchange, format HHMM
11	I10	Interchange Control Standards Identifier	M	ID 1/1	M	ID 1/1	<i>U U.S. EDI Community of ASC X12, TDCC, and UCS</i>
12	I11	Interchange Control Version Number	M	ID 5/5	M	ID 5/5	<i>00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</i>
13	I12	Interchange Control Number	M	N0 9/9	M	N0 9/9	A control number assigned by the interchange sender.
14	I13	Acknowledgment Requested	M	ID 1/1	M	ID 1/1	<i>0 No Acknowledgment Requested</i>
15	I14	Usage Indicator	M	ID 1/1	M	ID 1/1	<i>T Test Data</i> <i>P Production Data</i>
16	I15	Component Element Separator	M	AN 1/1	M	AN 1/1	Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data separator and the segment terminator <i>></i>

Example: `ISA*00* *00* *ZZ*SenderID *ZZ*ReceiverID *160104*0930*U*00401*000000001*0*T*>`

To start and identify an interchange of one or more functional groups and interchange-related control segments.

GS C 1 Functional Group Header

Standard X12				SAP Ariba Usage, allowed Codes		
01	479	Functional Identifier Code	M	ID 2/2	M	ID 2/2 <i>PO Purchase Order (850)</i>
02	142	Application Sender's Code	M	AN 2/15	M	AN 2/15 Sender identification number
03	124	Application Receiver's Code	M	AN 2/15	M	AN 2/15 Receiver identification number
04	373	Date	M	DT 8/8	M	DT 8/8 Date expressed as format CCYYMMDD
05	337	Time	M	TM 4/8	M	TM 4/8 Time expressed in 24-hour clock time as format HHMMSS
06	28	Group Control Number	M	N0 1/9	M	N0 1/9 Assigned number originated and maintained by the sender, start with 1 and increment by 1 for each subsequent GS segment.
07	455	Responsible Agency Code	M	ID 1/2	M	ID 1/2 <i>X Accredited Standards Committee X12</i>
08	480	Version / Release / Industry Identifier Code	M	AN 1/12	M	AN 1/12 <i>004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997</i>

Example: GS*PO*SenderID*ReceiverID*20160104*093059*1*X*004010~

To indicate the beginning of a functional group and to provide control information.

ST **M 1** **Transaction Set Header**

Standard X12				SAP Ariba Usage, allowed Codes		
01	143	Transaction Set Identifier Code	M ID 3/3	M ID 3/3	850	Purchase Order
02	329	Transaction Set Control Number	M AN 4/9	M AN 4/9	Identifying control number that must be unique within the transaction set.	
Example: ST*850*0001~ To indicate the start of a transaction set and to assign a control number.						

BEG **M 1** **Beginning Segment for Purchase Order**

Standard X12				SAP Ariba Usage, allowed Codes			
01	353	Transaction Set Purpose Code	M	ID 2/2	M	ID 2/2	00 Original 03 Delete* 05 Replace*
02	92	Purchase Order Type Code	M	ID 2/2	M	ID 2/2	BK Blanket Order DS Dropship NE New Order RL Release Order To specify a release blanket purchase order from an existing Master Agreement/Contract. RO Rush Order
03	324	Purchase Order Number	M	AN 1/22	M	AN 1/22	Purchase order number
04	328	Release Number	O	AN 1/30	O	AN 1/30	Release number
05	373	Date	M	DT 8/8	M	DT 8/8	Purchase order date Date expressed as format CCYYMMDD
Example: BEG*00*DS*PurchaseOrderID*ReleaseID*20160104~							
This segment is used to identify and specify a message.							
*Note that the 850 supports "replace" and "delete" option here only if 860 is not used.							

CUR **O 1** **Currency**

Standard X12				SAP Ariba Usage, allowed Codes	
01	98	Entity Identifier Code	M ID 2/3	M ID 2/3	<i>BY</i> <i>Buying Party (Purchaser)</i>
02	100	Currency Code	M ID 3/3	M ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Ariba sends the default currency for the order. This currency specifically represents the total amount of the order found in AMT. Currency coded, e.g. <i>USD</i> <i>US Dollar</i>
03	280	Exchange Rate	O R 4/10	O R 4/10	Exchange Rate
04	98	Entity Identifier Code	O ID 2/3	O ID 2/3	<i>SE</i> <i>Selling Party</i>
05	100	Currency Code	O ID 3/3	O ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. <i>EUR</i> <i>Euro</i>
Example: CUR*BY*USD*0.900*SE*EUR~ To specify the currency used in a transaction.					

REF **O >1** **References**

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	<div>06System ID Number</div> <div>AECGovernment Registration Number</div> <div>CRCustomer Reference Number</div> <div>CTContract Number</div> <div>D2Supplier Document Identification Number</div> <div>DDDocument Identification Code</div> <div>POPurchase Order Number</div> <div>PPPurchase Order Revision Number</div> <div>Q1Quote Number</div> <div>RQPurchase Requisition Number</div> <div>VNVendor Order Number</div> <div>ZBUltimate Consignee</div>
02	127	Reference Identification	C	AN 1/30	C	AN 1/30	Identification number

Example: REF*VN*Supplier Order ID~

To specify identifying information.

Examples:

REF*06*System ID~

REF*AEC*Government Reg ID~

REF*CR*Customer Reference ID~

REF*CT*Contract ID~

REF*D2*Supplier Document Ref ID~

REF*DD*DocumentName~

REF*PO*Purchase Order ID~

REF*PP*Order Version~

REF*Q1*Quote ID~

REF*RQ*Purchase Requisition ID~

REF*VN*Supplier Order ID~

REF*ZB*Ultimate Customer Reference ID~

REF O 1 References - Promotional Deal Number

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M	ID 2/3	<i>PD Promotion/Deal Number</i>
02	127	Reference Identification	C AN 1/30	C	AN 1/30	Identification number
03	352	Description	C AN 1/80	C	AN 1/80	Description
Example: REF*PD*Promotional Deal ID*Promotional Deal Description~ To specify the promotional deal number and/or description.						

REF O 1 References - Priority

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M	ID 2/3	<i>RPP</i> <i>Relative Priority</i>
02	127	Reference Identification	C AN 1/30	C	AN 1/30	Priority level, an integer from 1 to 5
03	352	Description	C AN 1/80	C	AN 1/80	Priority description
C040		Reference Identifier	O	O		
	128	Reference Identification Qualifier	M ID 2/3	M	ID 2/3	<i>RPP</i> <i>Relative Priority</i>
	127	Reference Identification	M AN 1/30	M	AN 1/30	Sequence identification number A unique secondary order number for prioritizing items with the same priority level. Two items with the same priority level are not allowed to have the same sequence number.
Example: REF*RPP*1*High Priority*RPP>Sequence ID~ To specify the priority of orders for the suppliers.						

REF **O >1** **References - Additional Information**

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M ID 2/3	M	ID 2/3	0L <i>Referenced By (specific Usage)</i> 2I <i>Tracking Number</i> 8X <i>OrderType</i> AH <i>Agreement Number</i> BO <i>Parent Agreement Number</i> *UserNote (REF - Additional Information)	
02	127	Reference Identification	C AN 1/30	C	AN 1/30	Identification type or specifying value *UserNote (REF - Additional Information)	
03	352	Description	C AN 1/80	C	AN 1/80	Identification number	
<p>Example: REF*0L*FOB05*MyOwnTermsTransportTerms~ To specify additional information.</p> <p>*UserNote (REF - Additional Information): These segments are reserved for specific usage as described below:</p> <p>REF*0L is used in conjunction with REF02="FOB05" to specify the customer value for transport terms in REF03.</p> <p>Example: REF*0L*FOB05*MyOwnTransportTerms~</p> <hr/> <p>REF*2I is used in conjunction with REF02 for the domain to specify the tracking identification number in REF03.</p> <p>Example: REF*2I*UPS*Tracking ID~</p> <hr/> <p>REF*8X is used in conjunction with REF02="orderType" to specify the customer purchase order document type in REF03.</p> <p>REF*AH is used to specify the agreement identification number in REF03 when the orderType (REF*8X) is "release", while REF*BO is used to specify the parent agreement identification number in REF03 when the orderType (REF*8X) is "blanket" to indicate the parent blanket order. REF02 is not used here.</p> <p>Examples: REF*8X*orderType*regular~ or REF*8X*orderType*release~ REF*AH**Agreement ID~ or REF*8X*orderType*blanket~ REF*BO**Parent Agreement ID~</p>							

REF **O** >1 **References - Mutually Defined References**

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	ZZ	<i>Mutually Defined</i>
02	127	Reference Identification	C AN 1/30	C AN 1/30		Mutually defined identification name
03	352	Description	C AN 1/80	C AN 1/80		Mutually defined identification
Example: REF*ZZ*MutuallyDefinedIDName*Mutually Defined Identification~ To specify mutually defined identifying information. REF*ZZ contains information mutually defined by the trading partners. In this case REF02 is used as an identification to specify the mutually defined identification provided in REF03. Please note REF03 is not required. For various business cases it is sufficient to transmit only the mutually defined name identification by itself. Examples: REF*ZZ*MutuallyDefinedIDName*Mutually Defined Identification~ REF*ZZ*MutuallyDefinedIDName~						

PER O 3 Purchasing Legal Entity and Organizational Unit

Standard X12				SAP Ariba Usage, allowed Codes		
01	366	Contact Function Code	M ID 2/2	M ID 2/2	ZZ	Mutually Defined
02	93	Name	O AN 1/60	O AN 1/60	Identification number	
03	365	Communication Number Qualifier	C ID 2/2	X		
04	364	Communication Number	C AN 1/80	X		
05	365	Communication Number Qualifier	C ID 2/2	X		
06	364	Communication Number	C AN 1/80	X		
07	365	Communication Number Qualifier	C ID 2/2	X		
08	364	Communication Number	C AN 1/80	X		
09	443	Contact Inquiry Reference	O AN 1/20	O AN 1/20		

Example: PER*ZZ*CompanyCode ID***CompanyCode~**

To specify the purchasing company code, purchasing unit and purchasing group from the buyer system.

*UserNote (PER*ZZ):

PER*ZZ is used in conjunction with
PER09="CompanyCode" to specify the legal entity/company code in PER02.

Example:
PER*ZZ*CC123*****CompanyCode~

PER*ZZ is used in conjunction with
PER09="PurchasingOrg" to specify the purchasing organization/unit in PER02.

Example:
PER*ZZ*PURORG123*****PurchasingOrg~

PER*ZZ is used in conjunction with
PER09="PurchasingGroup" to specify the purchasing group in PER02.

Example:
PER*ZZ*PURGROUP123*****PurchasingGroup~

FOB O >1 F.O.B. Related Instructions

Standard X12				SAP Ariba Usage, allowed Codes	
01	146	Shipment Method of Payment	M ID 2/2	M ID 2/2	Shipment method of payment Please refer to APPENDIX - CODELISTS 146 Shipment Method of Payment.
02	309	Location Qualifier	C ID 1/2	C ID 1/2	<i>DE Destination (Shipping)</i> <i>OF Other Unlisted Free On Board (FOB) Point</i> <i>OR Origin (Shipping Point)</i> <i>ZZ Mutually Defined</i>
03	352	Description	O AN 1/80	O AN 1/80	Description
04	334	Transportation Terms Qualifier Code	O ID 2/2	O ID 2/2	<i>ZZ Transport Terms</i>
05	335	Transportation Terms Code	C ID 3/3	C ID 3/3	Code identifying the trade terms which apply to the shipment transportation responsibility. E. g. <i>CAF Cost and Freight</i> <i>CIF Cost, Insurance, and Freight</i> <i>CIP Carriage and Insurance Paid To</i> <i>CPT Carriage Paid To</i> <i>DAF Delivered at Frontier</i> <i>DAP Delivered At Place*</i> <i>DAT Delivered At Terminal*</i> <i>DDP Delivered Duty Paid</i> <i>DDU Deliver Duty Unpaid</i> <i>DEQ Delivered Ex Quay</i> <i>DES Delivered Ex Ship</i> <i>EXW Ex Works</i> <i>FAS Free Alongside Ship</i> <i>FCA Free Carrier</i> <i>FOB Free on Board</i> <i>ZZZ Mutually Defined</i> *UserNote (Incoterms)
06	309	Location Qualifier	C ID 1/2	C ID 1/2	<i>ZZ Shipping Payment Method</i>
07	352	Description	O AN 1/80	O AN 1/80	A free-form description to specify the related data elements and their content. Transport description and terms of delivery description can be specified in this element. Both will be concatenated together. Transport description will be prefixed by @TP and terms of delivery description will be prefixed by @TOD. E.g.: @TPTransport description @TODDelivery at the doorstep.
Example: FOB*DF*ZZ*Description*ZZ*EXW*ZZ*@TPTransport description@TODDelivery at the doorstep~ To specify transportation instructions relating to shipment. *UserNote (Incoterms) Ariba Network supports codes from higher ANSI X12 versions, e.g. 006040.					

CSH **O 5** **Sales Requirements**

Standard X12				SAP Ariba Usage, allowed Codes				
01	563	Sales Requirement Code	O	ID 1/2	O	ID 1/2	SC	Ship Complete
Example: CSH*SC~								
To specify general conditions or requirements of the sale.								

SAC	O 25	Service, Promotion, Allowance or Charge Information
SAC	M 1	Service, Promotion, Allowance or Charge Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	248	Allowance or Charge Indicator	M ID 1/1	M ID 1/1	C	Charge	
					N	No Allowance or Charge	
02	1300	Service, Promotion, Allowance, or Charge Code	C ID 4/4	C ID 4/4	G830	Shipping and Handling	
					F050	Other	
03	559	Agency Qualifier Code	C ID 2/2	C ID 2/2	ZZ	Mutually Defined	
04	1301	Agency Service, Promotion, Allowance, or Charge Code	C AN 1/10	X			
05	610	Amount	O N2 1/15	O N2 1/15		Monetary amount	
06	378	Allowance/Charge Percent Qualifier	C ID 1/1	X			
07	332	Percent	C R 1/6	X			
08	118	Rate	O R 1/9	X			
09	355	Unit or Basis for Measurement Code	C ID 2/2	X			
10	380	Quantity	C R 1/15	X			
11	380	Quantity	O R 1/15	X			
12	331	Allowance or Charge Method of Handling Code	O ID 2/2	X			
13	127	Reference Identification	C AN 1/30	C AN 1/30		Shipping cost: Tracking ID	
						Price type: Example type values might be MSRP, ListPrice, Actual, AverageSellingPrice, CalculationGross, BaseCharge, AverageWholesalePrice, ExportPrice, AlternatePrice, ContractPrice, etc.	
14	770	Option Number	O AN 1/20	X			
15	352	Description	C AN 1/80	C AN 1/80		Free-form description	
16	819	Language Code	O ID 2/3	O ID 2/3		This is the language code attribute sent to describe the language used for the comment. The code is ISO 639 compliant. Note that this code is optional and can be supplied in lower case. E.g. EN English	
<p>Example: SAC*C*G830***4680*****SAC-Reference ID**SAC-Description*EN~</p> <p>Note: Special combination of elements shown here are examples.</p> <p>Shipping Cost: This represents a shipping cost in the order to the supplier. There can be one of these for the entire order, or one per line item.</p> <p>Example : SAC*C*G830***4680*****Tracking ID**SAC-Description*EN~ CUR*BY*USD*0.9*SE*EUR~</p> <hr/> <p>Original Price: This represents an original price. There can be one of these for the entire order, or one per line item.</p> <p>Example: SAC*N*F050*ZZ**4680*****ListPrice**Original Price*EN~ CUR*BY*USD~</p>							

SAC	O 25	Service, Promotion, Allowance or Charge Information
CUR	O 1	Currency

Standard X12					SAP Ariba Usage, allowed Codes		
01	98	Entity Identifier Code	M	ID 2/3	M	ID 2/3	BY Buying Party (Purchaser)
02	100	Currency Code	M	ID 3/3	M	ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. USD US Dollar
03	280	Exchange Rate	O	R 4/10	O	R 4/10	Exchange rate
04	98	Entity Identifier Code	O	ID 2/3	O	ID 2/3	SE Selling Party
05	100	Currency Code	O	ID 3/3	O	ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. EUR Euro
Example: CUR*BY*USD*0.9*SE*EUR~ To specify the currency used in a transaction.							

SAC	O 25	Service, Promotion, Allowance or Charge Information
SAC	M 1	Modifications

Standard X12				SAP Ariba Usage, allowed Codes			
01	248	Allowance or Charge Indicator	M ID 1/1	M ID 1/1	C	Charge	
					A	Allowance	
02	1300	Service, Promotion, Allowance, or Charge Code	C ID 4/4	C ID 4/4	A040	Access Charge	
					A050	AccountNumberCorrectionCharge	
					A060	AcidBattery	
					A170	Adjustment	
					A960	Carrier	
					A520	Charge	
					B660	Contract Allowance	
					C310	Discount	
					C300	Discount-Special	
					D240	Freight	
					D180	FreightBasedOnDollarMinimum	
					D500	Handling	
					D980	Insurance	
					G580	Royalties	
					G821	Shipping	
					G830	ShippingAndHandling	
					H970	Allowance	
					I530	Volume Discount	
					ZZZZ	Mutually Defined	
03	559	Agency Qualifier Code	C ID 2/2	C ID 2/2	ZZ	Mutually Defined	
04	1301	Agency Service, Promotion, Allowance, or Charge Code	C AN 1/10	X			
05	610	Amount	O N2 1/15	O N2 1/15		Monetary amount	
06	378	Allowance/Charge Percent Qualifier	C ID 1/1	C ID 1/1	6	Base Price Amount	
07	332	Percent	C R 1/6	C R 1/6		Percent	
08	118	Rate	O R 1/9	X			
09	355	Unit or Basis for Measurement Code	C ID 2/2	X			
10	380	Quantity	C R 1/15	X			
11	380	Quantity	O R 1/15	X			
12	331	Allowance or Charge Method of Handling Code	O ID 2/2	X			
13	127	Reference Identification	C AN 1/30	C AN 1/30		Could be AMT_PRI	
14	770	Option Number	O AN 1/20	O AN 1/20	1	Used if SAC05 value is amount	
					2	Used if SAC05 value is price	
15	352	Description	C AN 1/80	C AN 1/80		Free-form description	
16	819	Language Code	O ID 2/3	O ID 2/3		This is the language code attribute sent to describe the language used for the comment. The code is ISO 639 compliant. Note that this code is optional and can be supplied in lower case. E.g.	
					EN	English	

SAC	M 1	Modifications
------------	------------	----------------------

Example: SAC*A*B660*ZZ4680*6*0.12*****AMT_PRI*1*SAC-Description*EN~**

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge.

Example 1: Discount

In this example, a 5% discount representing 5.77 Dollars is being offered.

SAC*A*D310*ZZ**577*6*5~

Example 2: Special Handling Charge

In this example, a 20.00 Euro special handling fee is being charged.

SAC*C*D500*ZZ**2000*****Special Handling Description*EN~

SAC	O 25	Service, Promotion, Allowance or Charge Information
CUR	O 1	Currency

Standard X12				SAP Ariba Usage, allowed Codes	
01	98	Entity Identifier Code	M ID 2/3	M ID 2/3	<i>BY</i> <i>Buying Party (Purchaser)</i>
02	100	Currency Code	M ID 3/3	M ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. <i>USD</i> <i>US Dollar</i>
03	280	Exchange Rate	O R 4/10	X	
04	98	Entity Identifier Code	O ID 2/3	X	
05	100	Currency Code	O ID 3/3	X	
06	669	Currency Market/Exchange Code	O ID 3/3	X	
07	374	Date/Time Qualifier	C ID 3/3	C ID 3/3	<i>196</i> <i>Start</i>
08	373	Date	O DT 8/8	O DT 8/8	Start date Date expressed as CCYYMMDD
09	337	Time	O TM 4/8	O TM 4/8	Start time Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)
10	374	Date/Time Qualifier	C ID 3/3	C ID 3/3	<i>197</i> <i>End</i>
11	373	Date	C DT 8/8	C DT 8/8	End date Date expressed as CCYYMMDD
12	337	Time	C TM 4/8	C TM 4/8	End time Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)
Example: CUR*BY*USD*****196*20160104*1010*197*20160104*1011~ To specify the currency used in a transaction.					

ITD O >1 Terms of Sale

Standard X12				SAP Ariba Usage, allowed Codes			
01	336	Terms Type Code	O ID 2/2	O ID 2/2	05	Discount Not Applicable	
					52	Discount with Prompt Pay	
02	333	Terms Basis Date Code	O ID 1/2	O ID 1/2	3	Invoice Date	
03	338	Terms Discount Percent	O R 1/6	O R 1/6		Discount percentage	
04	370	Terms Discount Due Date	C DT 8/8	X			
05	351	Terms Discount Days Due	C N0 1/3	C N0 1/3		Discount days due	
06	446	Terms Net Due Date	O DT 8/8	X			
07	386	Terms Net Days	O N0 1/3	O N0 1/3		Penalty terms days	
08	362	Terms Discount Amount	O N2 1/10	O N2 1/10		Total amount of terms discount	
09	388	Terms Deferred Due Date	O DT 8/8	X			
10	389	Deferred Amount Due	C N2 1/10	X			
11	342	Percent of Invoice Payable	C R 1/5	X			
12	352	Description	O AN 1/80	O AN 1/80		Payment terms description	
13	765	Day of Month	C N0 1/2	X			
14	107	Payment Method Code	O ID 1/2	X			
15	954	Percent	O R 1/10	O R 1/10		Penalty terms percentage	

Example: ITD*05*3***30*****PaymentTermsDescription***15~**

To specify terms of sale.

Ariba Orders currently supports payment terms only by the number of days from the invoice date, and a discount and/or premium. You can put the discount and/or late penalty in the same ITD segment, or use multiple ITD segments.

A discount uses ITD03 and ITD05. A penalty uses ITD07 and ITD15. ITD12 is optional for both terms.

ITD01: Optional to identify the type of terms you are defining.

ITD02: All payment terms are based on the Invoice Date.

ITD03: Required for discount terms (ITD01=52). Must be used in combination with ITD05. This value is read as a percentage. If you mean 2.25% then ITD03=2.25, not 0.0225.

ITD05: Required for discount terms [ITD01=52]. Must be used in combination with ITD03. This is the number of days from the Invoice Date (ITD02=3, BIG01).

ITD07: Required for penalty terms (ITD01=05). Must be used in combination with ITD15. This is the number of days from the Invoice Date after which penalty terms apply.

ITD12: Optional for discount and penalty terms (ITD01=05 or 52). Used to provide payment terms description.

ITD15: Required for penalty terms (ITD01= 05). Must be used in combination with ITD07. This is the penalty terms percentage to be applied ITD07 days after the Invoice Date (ITD02=3).

Example 1: Penalty (ITD01=05)

No discount offered, but a 15% penalty if they're over 30 days.

ITD*05*3*****30*****15~

You should use this code if no discount is offered, but a late payment penalty exists. Note that ITD07 and ITD15 become mandatory.

Example 2: Discount (ITD01=52)

2% discount for prompt payment in < 10 days

ITD*52*3*2**10~

ITD03 and ITD05 are required.

DTM **O 10** **Date/Time**

Standard X12				SAP Ariba Usage, allowed Codes			
01	374	Date/Time Qualifier	M ID 3/3	M	ID 3/3	002 <i>Delivery Requested</i> 004 <i>Purchase Order</i> 007 <i>Effective</i> 036 <i>Expiration</i> 070 <i>Scheduled for Delivery (After and Including)</i> 073 <i>Scheduled for Delivery (Prior to and Including)</i> 118 <i>Requested Pick-up</i> 171 <i>Revision</i>	
02	373	Date	C DT 8/8	C	DT 8/8	Date expressed as format CCYYMMDD	
03	337	Time	C TM 4/8	C	TM 4/8	Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59).	
04	623	Time Code	O ID 2/2	O	ID 2/2	Code identifying the time zone Please refer to APPENDIX - CODELISTS 623 Time Code.	
Example: DTM*004*20160104*093059*CT~ To specify pertinent dates and times.							

PID **O 200** **Shipping Instructions**

Standard X12				SAP Ariba Usage, allowed Codes		
01	349	Item Description Type	M ID 1/1	M ID 1/1	<i>F</i>	<i>Free-form</i>
02	750	Product/Process Characteristic Code	O ID 2/3	O ID 2/3	<i>93</i>	<i>Shipping Instructions</i>
03	559	Agency Qualifier Code	C ID 2/2	X		
04	751	Product Description Code	C AN 1/12	X		
05	352	Description	C AN 1/80	C AN 1/80		Shipping instruction text
06	752	Surface/Layer/Position Code	O ID 2/2	X		
07	822	Source Subqualifier	O AN 1/15	X		
08	1073	Yes/No Condition or Response Code	O ID 1/1	X		
09	819	Language Code	O ID 2/3	O ID 2/3		This is the language code attribute sent to describe the language used for the comment. The code is ISO 639 compliant. Note that this code is optional and can be supplied in lower case. <i>EN</i> <i>English</i>
Example: PID*F*93***Shipping Instruction Text****EN~ To describe a product or process in coded or free-form format. This segment is used for shipping instructions in addition to TD508 of the subsequent TD5 segment. Example: PID*F*93***Shipping Instruction Text****EN~ N1*ST*Ship-To Name~ TD5*Z*ZZ*Shipping Contract ID*J***ZZ*Shipping Instruction Text~						

TXI **O >1** **Tax Information**

Standard X12				SAP Ariba Usage, allowed Codes			
01	963	Tax Type Code	M ID 2/2	M ID 2/2	GS	Goods and Services Tax	
					ST	State Sales Tax	
					TX	All Taxes	
					VA	Value Added Tax	
					ZZ	Mutually Defined	
02	782	Monetary Amount	C R 1/18	C R 1/18		Tax amount	
03	954	Percent	C R 1/10	C R 1/10		Tax percentage	
04	955	Tax Jurisdiction Code Qualifier	C ID 2/2	C ID 2/2	CD	Customer defined	
05	956	Tax Jurisdiction Code	C AN 1/10	C AN 1/10		Tax location	
06	441	Tax Exempt Code	C ID 1/1	C ID 1/1	0	Exempt (For Export)	
					2	No (Not Tax Exempt)	
07	662	Relationship Code	O ID 1/1	X		Taxable amount	
08	828	Dollar Basis For Percent	O R 1/9	O R 1/9			
09	325	Tax Identification Number	O AN 1/20	O AN 1/20		Custom tax category Used for providing custom tax categories to override the standard tax categories on TXI01.	
10	350	Assigned Identification	O AN 1/20	O AN 1/20		Tax description	
Example: TXI*ZZ*10.00*10.00*CD*TaxLoc*0**100.00*CU*Description~ To specify tax information. Example: TXI*TX*10.00~ TXI*ZZ*10.00*10.00*CD*TaxLoc*0**100.00*CU*Description~							

N9	O 1	Reference Identification - Purchasing Card Information
N9	M 1	Reference Identification - Purchasing Card Information

Standard X12				SAP Ariba Usage, allowed Codes		
01 128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	<i>PSM</i> <i>Credit Card</i>
02 127	Reference Identification	C	AN 1/30	C	AN 1/30	Purchasing card identification number
03 369	Free-form Description	C	AN 1/45	C	AN 1/45	Purchasing card name
Example: N9*PSM*0000000000000000*VISA~ To transmit identifying information as specified by the Reference Identification Qualifier. This segment is used for purchasing card information, such as card number and expiration date. It allows buying organizations to charge PCards after they approve invoices. Example: N9*PSM*0000000000000000*VISA~ DTM*036****2021-03-12~						

N9	O 1	Reference Identification - Purchasing Card Information
DTM	O 1	Date/Time

Standard X12				SAP Ariba Usage, allowed Codes		
01 374	Date/Time Qualifier	M	ID 3/3	M	ID 3/3	<i>036 Expiration</i>
02 373	Date	C	DT 8/8	X		
03 337	Time	C	TM 4/8	X		
04 623	Time Code	O	ID 2/2	X		
05 1250	Date Time Period Format Qualifier	C	ID 2/3	C	ID 2/3	<i>UN Unstructured</i>
06 1251	Date Time Period	C	AN 1/35	C	AN 1/35	Expiration date Date can be expressed as format CCYY-MM-DD.
Example: DTM*036****UN*2021-03-12~ To specify pertinent dates and times.						

N9	O 1000	Reference Identification - Additional Information
N9	M 1	Reference Identification - Additional Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M ID 2/3	M	ID 2/3	0L Referenced By U2 Terms and Condition *UserNote (N9 - Additional Information)	
02	127	Reference Identification	C AN 1/30	X			
03	369	Free-form Description	C AN 1/45	C	AN 1/45	Information type *UserNote (N9 - Additional Information)	
Example: N9*U2**Terms~ To transmit identifying information as specified by the Reference Identification Qualifier. *UserNote (N9 - Additional Information): These segments are reserved for specific usage as described below: N9*0L is used in conjunction with N903="TransportComments" for transport comments or with N903="TODComments" for terms of delivery comments in MSG. Examples: N9*0L**TransportComments~ MSG*Transport Text~ N9*0L**TODComments~ MSG*Terms Of Delivery Text~ N9*U2 is used in conjunction with N903="Terms" for customer terms in MSG. Multiline comments are also possible. For intentional linefeeds, simply multiple MSG segments are present. If a single comment line is longer than 264 chars, another MSG with MSG02=LC is used. Examples: N9*0L**Terms~ MSG*Terms Text~ or N9*0L**Terms~ MSG*Terms Text1*LC~ MSG*Terms Text2~							

N9	O 1000	Reference Identification - Additional Information
MSG	O 1000	Free-Form Message Text

Standard X12				SAP Ariba Usage, allowed Codes		
01	933	Free-Form Message Text	M AN 1/264	M	AN 1/264	Free-form message text
02	934	Printer Carriage Control Code	C ID 2/2	C	ID 2/2	A field to be used for the control of the line feed of the receiving printer If a line was broken by the limitation of MSG01, and a new segment is created for continuation, then MSG02="LC", otherwise it is not used. <i>LC Line Continuation</i>
Example: MSG*Text*LC~ To provide a free-form format that allows the transmission of text information.						

N9	O 1	Reference Identification - External Document Information
N9	M 1	Reference Identification - External Document Information

Standard X12				SAP Ariba Usage, allowed Codes		
01 128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	43 External Document
02 127	Reference Identification	C	AN 1/30	C	AN 1/30	"External Document Reference"
03 369	Free-form Description	C	AN 1/45	C	AN 1/45	External document type
<p>Example: N9*43*External Document Reference*ERP Doc Type~ To transmit identifying information as specified by the Reference Identification Qualifier.</p> <p>This segment is used for the external document. It contains information about a document managed in an external system, such as an ERP. It can be sent with an order to distinguish different business transactions uniquely.</p> <p>N9*43 is used in conjunction with N902="External Document Reference" to specify the external document type in N903 and the description in MSG.</p> <p>Multiline comments are also possible. For intentional linefeeds, simply multiple MSG segments are present. If a single comment line is longer than 264 chars, another MSG with MSG02=LC is used.</p> <p>Examples: N9*43*External Document Reference*ERP Doc Type~ MSG*Text~ or N9*43*External Document Reference*ERP Doc Type~ MSG*Text1*LC~ MSG*Text2~</p>						

N9	O 1	Reference Identification - External Document Information
MSG	O 1000	Free-Form Message Text

Standard X12				SAP Ariba Usage, allowed Codes		
01	933	Free-Form Message Text	M AN 1/264	M	AN 1/264	Free-form message text
02	934	Printer Carriage Control Code	C ID 2/2	C	ID 2/2	A field to be used for the control of the line feed of the receiving printer If a line was broken by the limitation of MSG01, and a new segment is created for continuation, then MSG02="LC", otherwise it is not used. <i>LC Line Continuation</i>
Example: MSG*External Document Text*LC~ To provide a free-form format that allows the transmission of text information.						

N9	O 1000	Reference Identification - Comments and Attachments
N9	M 1	Reference Identification - Comments and Attachments

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	<i>L1</i> <i>Letters or Notes</i> <i>URL</i> <i>Uniform Resource Locator</i>
02	127	Reference Identification	C	AN 1/30	C	AN 1/30	N9*L1: This is the language code attribute sent to describe the language used for the comment. The code is ISO 639 compliant. Note that this code is optional and can be supplied in lower case. E.g. <i>EN</i> <i>English</i> N9*URL: "URL"
03	369	Free-form Description	C	AN 1/45	C	AN 1/45	N9*L1: "Comments" N9*URL: URL reference
04	373	Date	O	DT 8/8	X		
05	337	Time	C	TM 4/8	X		
06	623	Time Code	O	ID 2/2	X		
C040		Reference Identifier	O		O		
128		Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	<i>L1</i> <i>Letters or Notes</i>
127		Reference Identification	M	AN 1/30	M	AN 1/30	Type of comments (only used for N9*L1)

Example: N9*L1*EN*Comments**L1>Reason~**

To transmit identifying information as specified by the Reference Identification Qualifier.

N9*L1 is used for general comments in MSG where N902 represents the language code and N903 indicates it as "Comments".

Multiline comments are also possible.
For intentional linefeeds, simply multiple MSG segments are present.
If a single comment line is longer than 264 chars, another MSG with MSG02=LC is used.

Examples:
N9*L1*EN*Comments~
MSG*Text~
or
N9*L1*EN*Comments~
MSG*Text1*LC~
MSG*Text2~

Type of comments can be provided also.
It can contain an additional information about the specification of comments.

Examples:
N9*L1*EN*Comments****L1>Reason~
MSG*Text~

N9*URL is used for the attachment URL related to comments in MSG where N902 indicates it as "URL" and N903 represents the URL reference if available.

Comments can attach external files to augment purchase orders.
The segment contains only a reference to the external MIME part of the attachment.
All attachments should be sent in a single multipart transmission with the OrderRequest document.
Attachment contains a single URL with scheme "cid:".

Example:
N9*L1*EN*Comments~
MSG*Please see attached image for my idea of what this should look like~
N9*URL*URL~
MSG*cid: uniqueCID@cxml.org~

N9	O 1000	Reference Identification - Comments and Attachments
MSG	O 1000	Free-Form Message Text

Standard X12				SAP Ariba Usage, allowed Codes		
01	933	Free-Form Message Text	M AN 1/264	M	AN 1/264	Free-form message text
02	934	Printer Carriage Control Code	C ID 2/2	C	ID 2/2	A field to be used for the control of the line feed of the receiving printer If a line was broken by the limitation of MSG01, and a new segment is created for continuation, then MSG02="LC", otherwise it is not used. <i>LC Line Continuation</i>
Example: MSG*Text*LC~ To provide a free-form format that allows the transmission of text information.						

N9	O 1000	Reference Identification - Control keys
-----------	---------------	--

N9	M 1	Reference Identification - Control keys
-----------	------------	--

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>KD</i>	<i>Control Key/Special Instruction</i>
02	127	Reference Identification	C AN 1/30	C AN 1/30	Control key/Special instruction identifier*	
03	369	Free-form Description	C AN 1/45	C AN 1/45	Control key/Special instruction value*	

N9 **M 1** **Reference Identification - Control keys**

Example: N9*KD*OCValue*allowed~

To transmit identifying information as specified by the Reference Identification Qualifier.

*Note: This segmentgroup N9*KD is used to inform Purchase Order related control keys in form of special instructions for further steps in the process chain.

Order confirmation instructions:

Supported values in N903 in combination with N902="OCValue" are:

"allowed" - Order confirmation is allowed

"notAllowed" - Order confirmation is not allowed

"requiredBeforeASN" - Order confirmation is required before a ship notice

Example:

N9*KD*OCValue*allowed~

Order confirmation time tolerances:

N903 specifies the time tolerance of an Order Confirmation in days, where N902="OCLowerTimeToleranceInDays" is used to define a lower limit and N902="OCUpperTimeToleranceInDays" an upper limit.

Examples:

N9*KD*OCLowerTimeToleranceInDays*1~

N9*KD*OCUpperTimeToleranceInDays*30~

Ship notice instructions:

Supported values in N903 in combination with N902="ASNValue" are:

"allowed" - Ship notice is allowed

"notAllowed" - Ship notice is not allowed

Example:

N9*KD*ASNValue*allowed~

Invoice instructions:

Supported values in N903 in combination with N902="INVValue" are:

"isERS" - The order or line item is flagged for Evaluated Receipt Settlement, indicating that the system will post an invoice for it automatically based on goods receipts.

"isNotERS" - The order or line item is not flagged for Evaluated Receipt Settlement.

"allowed" - Invoice is allowed

"notAllowed" - Invoice is not allowed

Example:

N9*KD*INVValue*isERS~

Invoice verification types:

The only supported value in N903 in combination with N902="INVVerification" is:

"goodsReceipt" - Indicates that invoice verification for this item is based on the goods receipt.

The invoice item can then be matched up uniquely with the goods receipt item.

Goods-receipt-based invoice verification makes sense when you expect a delivery to be made and posted in several parts.

Example:

N9*KD*INVVerification*goodsReceipt~

Invoice and/or Service sheet unit price update options:

Specifies whether a buyer or supplier is allowed to update the unit price while creating an invoice.

Supported values in N903 in combination with

N902="INV_unitPriceEditable" for the invoice or

N902="SES_UnitPriceEditable" for the service sheet are:

"yes" - The buyer or supplier is allowed to edit unit price. The new price must be within price tolerance.

"no" - The unit price is not editable regardless of transaction rules defined in the network hub.

Examples:

N9*KD*INV_unitPriceEditable*yes~

N9*KD*SES_UnitPriceEditable*no~

N9

M 1

Reference Identification - Control keys

Service sheet instructions:

Supported values in N903 in combination with N902="SESValue" are:

"allowed" - Service sheet is allowed

"notAllowed" - Service sheet is not allowed

Example:

N9*KD*SESValue*allowed~

N9	O 1000	Reference Identification - Mutually Defined References
N9	M 1	Reference Identification - Mutually Defined References

Standard X12				SAP Ariba Usage, allowed Codes		
01 128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	ZZ .
02 127	Reference Identification	C	AN 1/30	X		
03 369	Free-form Description	C	AN 1/45	C	AN 1/45	Mutually defined identification name
<p>Example: N9*ZZ**MutuallyDefinedIDName~</p> <p>To transmit identifying information as specified by the Reference Identification Qualifier.</p> <p>This segment is used to specify mutually defined identifying information.</p> <p>N9*ZZ contains information mutually defined by the trading partners. In this case N903 is used as an identification to specify the mutually defined identification provided in MSG. If the content is longer than 264 chars, another MSG with MSG02=LC is used. Please note MSG is not required. For various business cases it is sufficient to transmit only the mutually defined name identification by itself.</p> <p>Examples: N9*ZZ**MutuallyDefinedIDName1~ MSG*Mutually Defined Identification1 Text~ or N9*ZZ**MutuallyDefinedIDName2~ MSG*Mutually Defined Identification2 Text1~ MSG*Mutually Defined Identification2 Text2*LC~ or N9*ZZ**MutuallyDefinedIDName3~</p>						

N9	O 1000	Reference Identification - Mutually Defined References
MSG	O 1000	Message Text

Standard X12				SAP Ariba Usage, allowed Codes		
01	933	Free-Form Message Text	M AN 1/264	M	AN 1/264	Mutually defined identification
02	934	Printer Carriage Control Code	C ID 2/2	C	ID 2/2	A field to be used for the control of the line feed of the receiving printer. If a line was broken by the limitation of MSG01, and a new segment is created for continuation, then MSG02="LC", otherwise it is not used <i>LC Line Continuation</i>
Example: MSG*Mutually Defined Identification*LC~ To provide a free-form format that allows the transmission of text information.						

N1	M 200	Party Identification
N1	M 1	Party Name

Standard X12				SAP Ariba Usage, allowed Codes	
01	98	Entity Identifier Code	M ID 2/3	M ID 2/3	<i>60 Salesperson</i> <i>7X Tax Representative</i> <i>A9 Sales Office</i> <i>AP Buyer Master Account</i> <i>B4 Buyer Corporate</i> <i>BF Billed From</i> <i>BT Bill-to-Party</i> <i>BY Buying Party (Purchaser)</i> <i>CA Carrier</i> <i>DA Delivery Address</i> <i>EN End User</i> <i>FR Message From</i> <i>KY Technical Support</i> <i>MA Ultimate Customer</i> <i>MJ Supplier Master Account</i> <i>NG Administrator</i> <i>OB Buyer Account</i> <i>PD Purchasing Agent</i> <i>RI Remit To</i> <i>SE Supplier Account</i> <i>SF Ship From</i> <i>SO Sold To</i> <i>ST Ship To</i> <i>SU Supplier</i> <i>ZZ Mutually Defined</i>
02	93	Name	C AN 1/60	C AN 1/60	Party name
03	66	Identification Code Qualifier	C ID 1/2	C ID 1/2	<i>1 D-U-N-S Number, Dun & Bradstreet</i> <i>2 Standard Carrier Alpha Code (SCAC)</i> <i>4 International Air Transport Association (IATA)</i> <i>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix</i> <i>92 Assigned by Buyer or Buyer's Agent</i>
04	67	Identification Code	C AN 2/80	C AN 2/80	Party identification number
Example: N1*BT*Bill-To Name*92*Bill-To ID~ This segment is used to identify the trading partners involved in the message. N101 = BT: Bill to party is required.					

N1	M 200	Party Identification
N2	O 2	Party Additional Name Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	93	Name	M	AN 1/60	M	AN 1/60	Party postal address name 1
02	93	Name	O	AN 1/60	O	AN 1/60	Party postal address name 2
Example: N2*Bill-To Addr Name 1*Bill-To Addr Name 2~							
If a Postal Address Name via N2 segment is used, then one Street (N301), the City (N401) and the two-char ISO-3166 Country Code (N404) are all required.							
Therefore, N3 and N4 become mandatory.							

N1	M 200	Party Identification
N3	O 2	Party Address Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	166	Address Information	M	AN 1/55	M	AN 1/55	Party street 1
02	166	Address Information	O	AN 1/55	O	AN 1/55	Party street 2
Example: N3*Bill-To Street 1*Bill-To Street 2~ To specify the location of the named party.							
If a Postal Address Street via N3 segment is used, then the City (N401) and the two-char ISO-3166 Country Code (N404) are both required. Therefore, N4 becomes mandatory.							

N1	M 200	Party Identification
N4	O >1	Party Geographic Location

Standard X12				SAP Ariba Usage, allowed Codes	
01	19	City Name	O AN 2/30	O AN 2/30	Party city
02	156	State or Province Code	O ID 2/2	O ID 2/2	Party state or province code* For addresses in the United States or Canada, use the two letter digraph recognized by the United States Postal Service or Canada Post. Please refer to APPENDIX - CODELISTS 156 State or Province Code. *UserNote (State or province code)
03	116	Postal Code	O ID 3/15	O ID 3/15	Party postal code Zip codes will be either five or nine digits with no separator. Canadian postal codes must be formatted A9A9A9, with no separator
04	26	Country Code	O ID 2/3	O ID 2/3	Party country code Identification of the name of the country or other geographical entity, use ISO 3166 two alpha country code. Please refer to APPENDIX - CODELISTS 26 Country Code.
05	309	Location Qualifier	C ID 1/2	C ID 1/2	<i>SP State/Province*</i> *UserNote (State or province code)
06	310	Location Identifier	O AN 1/30	O AN 1/30	Party state or province code* For addresses except in the United States or Canada. *UserNote (State or province code)
<p>Example: N4*Bill-To City**ZIP*AU*SP*NSW~</p> <p>To specify the geographic place of the named party.</p> <p>If a Postal Address City or the two-char ISO-3166 Country Code via N4 segment is used, then one Street (N301) is required. Therefore, N3 becomes mandatory.</p> <p>*UserNote (State or Province Code)</p> <p>If the country code (N404) is US or CA, then the state or province code (N402) is also required and must be a valid state or province digraph.</p> <p>If the country code (N404) is not US or CA, then the state or province code must not be used on (N402). In that case the state or province code can optional be specified by using N406, always in combination with N405="SP".</p> <p>Examples: N4*City*CA*ZIP*US~ N4*City**ZIP*AU*SP*NSW~</p>					

N1	M 200	Party Identification
REF	O 12	Party Reference

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	01	ABA Routing Number	
					02	SWIFT Identification Number	
					03	CHIPS Participant Identification Number	
					11	Account Identification Number	
					12	Account Payable Identification Number	
					14	IBAN Identification Number	
					3L	Bank Branch Identification Number	
					4B	Loading Point	
					4C	Storage Location	
					4G	Provincial Tax Identification Number	
					8W	Bank National Identification Number	
					9S	Transportation Zone	
					9X	Account Type	
					ACT	Account Name	
					AEC	Government Registration Number	
					AP	Accounts Receivable Identification Number	
					BAA	Supplier Tax Identification Number	
					BAD	State Tax Identification Number	
					BR	Contact Department Identification Number	
					D2	Supplier Reference Number	
					DD	Document Name	
					DNS	D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
					DUN	D-U-N-S Number, Dun & Bradstreet	
					DP	Department Name	
					F8	Additional Reference Number	
					GT	GST Registration Identification Number	
					KK	cRADCRS Indicator	
					LU	Buyer Location Identification Number	
					ME	Additional Postal Address Information	
					PB	Payer's Bank Account Identification Number	
					PY	Payee's Bank Account Identification Number	
					RT	Payee's Bank Routing Identification Number	
					SA	Contact Person	
					TJ	Federal Tax Identification Number	
					TX	Tax Exemption Identification Number	
					VX	VAT Identification Number	
					YD	Buyer Additional Identification Number	
					ZA	Supplier Additional Identification Number	
02	127	Reference Identification	C AN 1/30	X			
03	352	Description	C AN 1/80	C AN 1/80		Identification number	

REF	O 12	Party Reference
------------	-------------	------------------------

Example: REF*APAccounts receivable ID~**

To specify identifying information.

All reference identifiers are optional, and most all can be used.
Special cases are shown as below.

REF*AP: The Accounts Receivable Identification Number should only be used for the Buyer (N1*BY) / Bill To (N1*BT) / Sold To (N1*SO) and / or Ship To Party (N1*ST).

Example:

N1*BY*Buyer Name~

REF*AP*Buyer Accounts Receivable ID~

REF*PB: The Payer's Bank Account Identification Number should only be used for the Buyer (N1*BY) / Bill To (N1*BT) and / or Sold To Party (N1*SO).

Example:

N1*SO*Sold To Name~

REF*AP*Sold To Bank Account ID~

REF*BAA: The Supplier Tax Identification Number should only be used for the Remit To Party (N1*RI).

REF*RT and REF*PY: Payee's Bank Routing Identification Number (financial institution) and

Payee's Bank Account Identification Number should be paired and are recommended for the Remit To Party (N1*RI), but allowed at all parties.

Example:

N1*RI*Remit To Name~

REF*BAA*Supplier Tax ID~

REF*RT*Payees Bank Routing ID~

REF*PY*Payees Bank Account ID~

REF*4B, REF*4C, REF*9S and REF*KK: The Loading Point, Storage Location, Transportation Zone and cRADCRS Indicator should only be used for the Sold To (N1*SO) and / or Ship To Party (N1*ST).

Example:

N1*ST*Ship To Name~

REF*4B*1234~

REF*4C*5678~

REF*9S*ABCD~

REF*KK*RAD~

REF*YD: The Buyer Additional Identification Number should only be used for the Buyer Party (N1*BY).

REF*ZA: The Supplier Additional Identification Number should only be used for the Supplier Party (N1*SU).

Example:

N1*BY*Buyer Name~

REF*YD*Buyer Additional ID~

N1*SU*Supplier Name~

REF*ZA*Supplier Additional ID~

N1	M 200	Party Identification
PER	O >1	Administrative Communications Contact

Standard X12				SAP Ariba Usage, allowed Codes			
01	366	Contact Function Code	M ID 2/2	M ID 2/2	AP	Accounts Payable Department	
					CN	General Contact	
					RE	Receiving Contact	
02	93	Name	O AN 1/60	O AN 1/60	Party contact name Note: The example here shows a person's name. It is perfectly acceptable to put a category in PER02, such as "work", "mobile", "home", etc.. A suggestion here is that if N102 identifies a person, then categories are appropriate here.		
03	365	Communication Number Qualifier	C ID 2/2	C ID 2/2	EM	Electronic Mail	
					FX	Facsimile	
					TE	Telephone	
					UR	Uniform Resource Locator (URL)	
04	364	Communication Number	C AN 1/80	C AN 1/80	Communication number		
05	365	Communication Number Qualifier	C ID 2/2	C ID 2/2	EM	Electronic Mail	
					FX	Facsimile	
					TE	Telephone	
					UR	Uniform Resource Locator (URL)	
06	364	Communication Number	C AN 1/80	C AN 1/80	Communication number		
07	365	Communication Number Qualifier	C ID 2/2	C ID 2/2	EM	Electronic Mail	
					FX	Facsimile	
					TE	Telephone	
					UR	Uniform Resource Locator (URL)	
08	364	Communication Number	C AN 1/80	C AN 1/80	Communication number		
Example: PER*AP*Contact Name*EM*e-mail Address*TE*Phone ID*UR*URL~							
To identify a person or office to whom administrative communications should be directed.							

N1	M 200	Party Identification
TD5	O 12	Carrier Details - Transport Information

Standard X12				SAP Ariba Usage, allowed Codes		
01	133	Routing Sequence Code	O ID 1/2	O ID 1/2	Z	Mutually Defined
02	66	Identification Code Qualifier	C ID 1/2	C ID 1/2	ZZ	Shipping Contract Number
03	67	Identification Code	C AN 2/80	C AN 2/80	Shipping contract identification number	
04	91	Transportation Method/Type Code	C ID 1/2	C ID 1/2	Transport mode A Air J Motor R Rail S Ocean	
05	387	Routing	C AN 1/35	X	ZZ Shipping Instructions	
06	368	Shipment/Order Status Code	C ID 2/2	X		
07	309	Location Qualifier	O ID 1/2	O ID 1/2		
08	310	Location Identifier	C AN 1/30	C AN 1/30	Shipping instruction Text	
Example: TD5*Z*ZZ*Shipping Contract ID*A***ZZ*Shipping Instruction Text~ To specify the mode, the contract identification number and further shipping instructions related to the transport. Note: Only used if N101="ST"						

N1	M 200	Party Identification
TD4	O 5	Carrier Details - Carrier Identification

Standard X12				SAP Ariba Usage, allowed Codes		
01	152	Special Handling Code	C ID 2/3	C ID 2/3	ZZZ	Mutually Defined
02	208	Hazardous Material Code Qualifier	C ID 1/1	X		
03	209	Hazardous Material Class Code	C AN 1/4	X		
04	352	Description	C AN 1/80	C AN 1/80		Carrier identification
Example: TD4*ZZZ***Carrier Company Name XYZ@companyName~ To specify the carrier identification. The carrier identification presented in this TD4*ZZZ segment includes the related domain after the identification, starting with "@": <ID@domain> Examples: TD4*ZZZ***1234@SCAC~ or TD4*ZZZ***UPS@companyName~ Note: Only used if N101="ST"						

PO1	M 100000 Line Item
PO1	M 1 Line Item Data

Standard X12				SAP Ariba Usage, allowed Codes			
01	350	Assigned Identification	O AN 1/20	M AN 1/20	Line item number Alphanumeric characters assigned for differentiation within a transaction set and recommended in Order Change, Order Confirmation, Ship Notice and Invoice.		
02	330	Quantity Ordered	C R 1/15	M R 1/15	Ordered quantity		
03	355	Unit or Basis for Measurement Code	O ID 2/2	O ID 2/2	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Please refer to APPENDIX - CODELISTS 355 Unit or Basis for Measurement Code (UOM).		
04	212	Unit Price	C R 1/17	C R 1/17	Price per unit of product, service, commodity, etc.		
05	639	Basis of Unit Price Code	O ID 2/2	X			
06	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2	<i>BP Buyer's Part Number</i> <i>C3 Classification</i> <i>EN European Article Number (EAN)</i> <i>MF Manufacturer Name</i> <i>MG Manufacturer's Part Number</i> <i>UP U.P.C. Consumer Package Code (1-5-5-1)</i> <i>VP Vendor's (Seller's) Part Number</i> <i>VS Vendor's Supplemental Item Number</i>		
07	234	Product/Service ID	C AN 1/48	C AN 1/48	Item identification number		
08	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2	<i>BP Buyer's Part Number</i> <i>C3 Classification</i> <i>EN European Article Number (EAN)</i> <i>MF Manufacturer Name</i> <i>MG Manufacturer's Part Number</i> <i>UP U.P.C. Consumer Package Code (1-5-5-1)</i> <i>VP Vendor's (Seller's) Part Number</i> <i>VS Vendor's Supplemental Item Number</i>		
09	234	Product/Service ID	C AN 1/48	C AN 1/48	Item identification number		
10	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2	<i>BP Buyer's Part Number</i> <i>C3 Classification</i> <i>EN European Article Number (EAN)</i> <i>MF Manufacturer Name</i> <i>MG Manufacturer's Part Number</i> <i>UP U.P.C. Consumer Package Code (1-5-5-1)</i> <i>VP Vendor's (Seller's) Part Number</i> <i>VS Vendor's Supplemental Item Number</i>		
11	234	Product/Service ID	C AN 1/48	C AN 1/48	Item identification number		
12	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2	<i>BP Buyer's Part Number</i> <i>C3 Classification</i> <i>EN European Article Number (EAN)</i> <i>MF Manufacturer Name</i> <i>MG Manufacturer's Part Number</i> <i>UP U.P.C. Consumer Package Code (1-5-5-1)</i> <i>VP Vendor's (Seller's) Part Number</i> <i>VS Vendor's Supplemental Item Number</i>		
13	234	Product/Service ID	C AN 1/48	C AN 1/48	Item identification number		
14	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2	<i>BP Buyer's Part Number</i> <i>C3 Classification</i> <i>EN European Article Number (EAN)</i> <i>MF Manufacturer Name</i> <i>MG Manufacturer's Part Number</i>		

PO1 **M 1** **Line Item Data**

Standard X12				SAP Ariba Usage, allowed Codes			
						<i>UP</i>	<i>U.P.C. Consumer Package Code (1-5-5-1)</i>
						<i>VP</i>	<i>Vendor's (Seller's) Part Number</i>
						<i>VS</i>	<i>Vendor's Supplemental Item Number</i>
15	234	Product/Service ID	C AN 1/48	C AN 1/48	Item identification number		
16	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2		<i>BP</i>	<i>Buyer's Part Number</i>
						<i>C3</i>	<i>Classification</i>
						<i>EN</i>	<i>European Article Number (EAN)</i>
						<i>MF</i>	<i>Manufacturer Name</i>
						<i>MG</i>	<i>Manufacturer's Part Number</i>
						<i>UP</i>	<i>U.P.C. Consumer Package Code (1-5-5-1)</i>
						<i>VP</i>	<i>Vendor's (Seller's) Part Number</i>
						<i>VS</i>	<i>Vendor's Supplemental Item Number</i>
17	234	Product/Service ID	C AN 1/48	C AN 1/48	Item identification number		
18	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2		<i>BP</i>	<i>Buyer's Part Number</i>
						<i>C3</i>	<i>Classification</i>
						<i>EN</i>	<i>European Article Number (EAN)</i>
						<i>MF</i>	<i>Manufacturer Name</i>
						<i>MG</i>	<i>Manufacturer's Part Number</i>
						<i>UP</i>	<i>U.P.C. Consumer Package Code (1-5-5-1)</i>
						<i>VP</i>	<i>Vendor's (Seller's) Part Number</i>
						<i>VS</i>	<i>Vendor's Supplemental Item Number</i>
19	234	Product/Service ID	C AN 1/48	C AN 1/48	Item identification number		
20	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2		<i>BP</i>	<i>Buyer's Part Number</i>
						<i>C3</i>	<i>Classification</i>
						<i>EN</i>	<i>European Article Number (EAN)</i>
						<i>MF</i>	<i>Manufacturer Name</i>
						<i>MG</i>	<i>Manufacturer's Part Number</i>
						<i>UP</i>	<i>U.P.C. Consumer Package Code (1-5-5-1)</i>
						<i>VP</i>	<i>Vendor's (Seller's) Part Number</i>
						<i>VS</i>	<i>Vendor's Supplemental Item Number</i>
21	234	Product/Service ID	C AN 1/48	C AN 1/48	Item identification number		
Example: PO1*10*100*EA*0.64**VP*Supplier Part ID*BP*Buyer Part ID*VS*Supplier Supplemental Part ID*MG*Manufacturer Part ID*MF*Manufacturer Name*C3*Classification*EN*EAN Part ID*UP*UPC Package ID~							
To specify basic and most frequently used line item data.							
The minimum information is the Quantity Ordered. You can receive that in a single PO1 segment and nothing more. Additional details are optionally.							

PO1 **M 100000 Line Item****CUR** **O 1 Currency**

Standard X12				SAP Ariba Usage, allowed Codes		
01	98	Entity Identifier Code	M ID 2/3	M ID 2/3	BY	Buying Party (Purchaser)
02	100	Currency Code	M ID 3/3	M ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. USD US Dollar	
03	280	Exchange Rate	O R 4/10	O R 4/10	Exchange rate	
04	98	Entity Identifier Code	O ID 2/3	O ID 2/3	SE	Selling Party
05	100	Currency Code	O ID 3/3	O ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. EUR Euro	
Example: CUR*BY*USD*0.900*SE*EUR~ To specify the currency used in a transaction.						

PO1 **M 100000 Line Item****PO3** **O 25 Additional Item Detail**

Standard X12				SAP Ariba Usage, allowed Codes			
01	371	Change Reason Code	M	ID 2/2	M	ID 2/2	ZZ Mutually Defined
02	373	Date	O	DT 8/8	X		
03	236	Price Identifier Code	C	ID 3/3	X		
04	212	Unit Price	O	R 1/17	X		
05	639	Basis of Unit Price Code	C	ID 2/2	C	ID 2/2	ST Standard
06	380	Quantity	M	R 1/15	M	R 1/15	Quantity
07	355	Unit or Basis for Measurement Code	M	ID 2/2	M	ID 2/2	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Please refer to APPENDIX - CODELISTS 355 Unit or Basis for Measurement Code (UOM).
Example: PO3*ZZ****ST*100*EA~ To specify additional item related data.							

PO1	M 100000	Line Item
CTP	O >1	Pricing Details
CTP	M 1	Pricing Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	687	Class of Trade Code	O ID 2/2	O	ID 2/2	PY WS	Private Label User
02	236	Price Identifier Code	C ID 3/3	X			
03	212	Unit Price	C R 1/17	X			
04	380	Quantity	C R 1/15	C	R 1/15	Quantity	
C001		Composite Unit of Measure	C	C			
355		Unit or Basis for Measurement Code	M ID 2/2	M	ID 2/2	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Please refer to APPENDIX - CODELISTS 355 Unit or Basis for Measurement Code (UOM).	
06	648	Price Multiplier Qualifier	O ID 3/3	O	ID 3/3	CSD	Cost Markup Multiplier - Original Cost
07	649	Multiplier	C R 1/10	C	R 1/10	Conversion Factor	
Example: CTP*WS***100*EA*CSD*0.7~ To specify pricing information.							

PO1	M 100000	Line Item
CTP	O >1	Line Item Amount/Unit Price
CTP	M 1	Line Item Amount/Unit Price

Standard X12				SAP Ariba Usage, allowed Codes			
01	687	Class of Trade Code	O ID 2/2	O ID 2/2	TR	General Trade	
02	236	Price Identifier Code	C ID 3/3	C ID 3/3	MAX	Maximum Order Quantity Price	
					MIN	Minimum Order Quantity Price	
					UPC	Unit Cost Price	
03	212	Unit Price	C R 1/17	C R 1/17	Unit price or amount		
Example: CTP*TR*MAX*1000.00~							
To specify line item amount and unit price information.							
Example:							
Line item amount (maximum amount)							
CTP*TR*MAX*1000.00~							
Example:							
Line item amount (minimum amount)							
CTP*TR*MIN*881.00~							
Example:							
Unit price							
CTP*TR*UCP*10.00~							

PO1	M 100000	Line Item
CTP	O >1	Line Item Amount/Unit Price
CUR	O 1	Currency

Standard X12				SAP Ariba Usage, allowed Codes	
01	98	Entity Identifier Code	M ID 2/3	M ID 2/3	<i>BY</i> <i>Buying Party (Purchaser)</i>
02	100	Currency Code	M ID 3/3	M ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. <i>USD</i> <i>US Dollar</i>
03	280	Exchange Rate	O R 4/10	O R 4/10	Exchange rate
04	98	Entity Identifier Code	O ID 2/3	O ID 2/3	<i>SE</i> <i>Selling Party</i>
05	100	Currency Code	O ID 3/3	O ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. <i>EUR</i> <i>Euro</i>
Example: CUR*BY*USD*0.9*SE*EUR~ To specify the currency used in a transaction.					

PO1	M 100000 Line Item
MEA	O 40 Measurements

Standard X12				SAP Ariba Usage, allowed Codes			
01	737	Measurement Reference ID Code	O	ID 2/2	O	ID 2/2	<i>PD</i> <i>Physical Dimensions</i>
02	738	Measurement Qualifier	O	ID 1/3	O	ID 1/3	<i>G</i> <i>Gross Weight</i> <i>GW</i> <i>Gross Weight, Maximum</i> <i>HT</i> <i>Height</i> <i>LN</i> <i>Length</i> <i>N</i> <i>Actual Net Weight</i> <i>S</i> <i>State Weight</i> <i>VOL</i> <i>Volume</i> <i>VWT</i> <i>Volume Weight</i> <i>WD</i> <i>Width</i> <i>WT</i> <i>Weight</i>
03	739	Measurement Value	C	R 1/20	C	R 1/20	Measurement value
C001		Composite Unit of Measure	C		C		
355		Unit or Basis for Measurement Code	M	ID 2/2	M	ID 2/2	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Please refer to APPENDIX - CODELISTS 355 Unit or Basis for Measurement Code (UOM).
Example: MEA*PD*G*100.00*KG~ To specify physical measurements.							

PO1	M 100000	Line Item
PID	O 1000	Product/Item Description
PID	M 1	Product/Item Description

Standard X12				SAP Ariba Usage, allowed Codes			
01	349	Item Description Type	M ID 1/1	M ID 1/1	<i>F</i>	<i>Free-form</i>	
02	750	Product/Process Characteristic Code	O ID 2/3	O ID 2/3	<i>GEN</i>	<i>General Description</i>	
03	559	Agency Qualifier Code	C ID 2/2	X			
04	751	Product Description Code	C AN 1/12	X			
05	352	Description	C AN 1/80	C AN 1/80			Description Text
06	752	Surface/Layer/Position Code	O ID 2/2	X			
07	822	Source Subqualifier	O AN 1/15	X			
08	1073	Yes/No Condition or Response Code	O ID 1/1	X			
09	819	Language Code	O ID 2/3	O ID 2/3			This is the language code attribute sent to describe the language used for the comment. The code is ISO 639 compliant. Note that this code is optional and can be supplied in lower case. E.g. <i>EN</i> <i>English</i>
Example: PID*F*GEN***Free-Form-Description-Text****EN~ To describe a product or process in coded or free-form format. This segment can be used for short and long free text descriptions. The short description is indicated via PID02=GEN. Examples: PID*F*GEN***Short Name Description****EN~ PID*F****Description****EN~							

PO1	M 100000	Line Item
PID	O 1000	Product/Item Shipping Instructions
PID	M 1	Product/Item Shipping Instructions

Standard X12				SAP Ariba Usage, allowed Codes			
01	349	Item Description Type	M ID 1/1	M ID 1/1	F	Free-form	
02	750	Product/Process Characteristic Code	O ID 2/3	O ID 2/3	93	Shipping Instructions	
03	559	Agency Qualifier Code	C ID 2/2	X			
04	751	Product Description Code	C AN 1/12	X			
05	352	Description	C AN 1/80	C AN 1/80		Shipping instruction text	
06	752	Surface/Layer/Position Code	O ID 2/2	X			
07	822	Source Subqualifier	O AN 1/15	X			
08	1073	Yes/No Condition or Response Code	O ID 1/1	X			
09	819	Language Code	O ID 2/3	O ID 2/3		This is the language code attribute sent to describe the language used for the comment. The code is ISO 639 compliant. Note that this code is optional and can be supplied in lower case. E.g. EN English	
Example: PID*F*93***Shipping Instruction Text****EN~ To describe a product or process in coded or free-form format. This segment is used for shipping instructions in addition to TD508 of the subsequent TD5 segment. Example: N1*ST*Ship-To Name~ TD5*Z*ZZ*Shipping Contract ID*J***ZZ*Shipping Instruction Text~							

PO1	M 100000	Line Item
PID	O 1000	Product/Item Configuration
PID	M 1	Product/Item Configuration

Standard X12				SAP Ariba Usage, allowed Codes			
01	349	Item Description Type	M ID 1/1	M	ID 1/1	F	Free-form
02	750	Product/Process Characteristic Code	O ID 2/3	O	ID 2/3	21	Forming
03	559	Agency Qualifier Code	C ID 2/2	X			
04	751	Product Description Code	C AN 1/12	X			
05	352	Description	C AN 1/80	C	AN 1/80	"Configurable Material"	
Example: PID*F*21***Configurable Material~ To describe a product or process in coded or free-form format. This segment is only used to indicate that the item is defined as a configurable material and therefore has product characteristics.							

PO1	M 100000	Line Item
PID	O 1	Product/Item Material or Service Classification
PID	M 1	Product/Item Material or Service Classification

Standard X12				SAP Ariba Usage, allowed Codes		
01	349	Item Description Type	M ID 1/1	M ID 1/1	<i>F</i>	<i>Free-form</i>
02	750	Product/Process Characteristic Code	O ID 2/3	O ID 2/3	<i>12</i>	<i>Type and/or Process</i>
03	559	Agency Qualifier Code	C ID 2/2	X		
04	751	Product Description Code	C AN 1/12	X		
05	352	Description	C AN 1/80	C AN 1/80		Material or service classification type
Example: PID*F*12***material~ To describe a product or process in coded or free-form format. This segment is only used to specify whether the current line item is material or service. Possible values are: "material" "service" Examples: PID*F*12***material~ or PID*F*12***service~						

PO1	M 100000	Line Item
PID	O 1000	Product/Item Classification
PID	M 1	Product/Item Classification

Standard X12				SAP Ariba Usage, allowed Codes	
01	349	Item Description Type	M ID 1/1	M ID 1/1	<i>S Structured (From Industry Code List)</i>
02	750	Product/Process Characteristic Code	O ID 2/3	O ID 2/3	<i>MAC Material Classification</i>
03	559	Agency Qualifier Code	C ID 2/2	C ID 2/2	<i>UN United Nations (UN)</i> <i>AS Assigned by Seller</i>
04	751	Product Description Code	C AN 1/12	C AN 1/12	Item classification
05	352	Description	C AN 1/80	X	
06	752	Surface/Layer/Position Code	O ID 2/2	X	Item classification domain
07	822	Source Subqualifier	O AN 1/15	O AN 1/15	

Example: PID*S*MAC*UN*451215*SPSC~**

To describe a product or process in coded or free-form format.

This segment is typically used for the UNSPSC (United Nations Standard Products and Services Code) commodity code for each selected item.

These codes are used by backend systems within buyer and supplier organizations for accounting and report generation.

For the list of UNSPSC codes, see www.unspsc.org.

UNSPSC commodity codes are identified by PID03="UN" and PID09="SPSC".

Any other classification is identified by PID03="AS" and PID09 as the related domain.

Examples:

PID*S*MAC*UN*451215***SPSC~

PID*S*MAC*AS*123***LineOfBusiness~

PID*S*MAC*AS*ClassID***NotAvailable~

PO1	M 100000 Line Item
REF	O >1 References

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	<i>BT</i> Supplier Batch Number <i>CO</i> Customer Order Number <i>CT</i> Agreement Line Item Number <i>LT</i> Buyer Batch Number <i>S1</i> Engineering Specification Number <i>SE</i> Serial Number <i>QJ</i> Return Material Authorization Number <i>RQ</i> Purchase Requisition Number <i>ZA</i> Supplier Number
02	127	Reference Identification	C	AN 1/30	C	AN 1/30	Identification number
03	352	Description	C	AN 1/80	C	AN 1/80	Supplier Identification domain

Example: REF*ZA*Supplier ID*DUNS~

To specify identifying information.

Note that REF03 is only used with REF*ZA as the domain specifying the supplier identification number in REF02.

Examples:

REF*BT*Supplier Batch ID~

REF*CO*Customer Order ID~

REF*CT*Agreement Line Item ID~

REF*LT*Buyer Batch ID~

REF*QJ*Return authorizarion ID~

REF*RQ*Purchase Requisition ID~

REF*S1*Engineering Specification ID~

REF*SE*Serial ID~

REF*ZA*Supplier DUNS ID*DUNS~

PO1	M 100000 Line Item
REF	O >1 References - Additional Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	0L <i>Referenced By (specific Usage)</i> 18 <i>Planning Type</i> 2I <i>Tracking Number</i> AH <i>Agreement Number</i> IP <i>Inspection Days</i> *UserNote (REF - Additional Information)
02	127	Reference Identification	C	AN 1/30	C	AN 1/30	Identification type or specifying value *UserNote (REF - Additional Information)
03	352	Description	C	AN 1/80	C	AN 1/80	Identification number

Example: REF*0L*FOB05*MyOwnTermsTransportTerms~
To specify additional information.

*UserNote (REF - Additional Information):
These segments are reserved for specific usage as described below:

REF*0L is used in conjunction with
REF02="FOB05" to specify the customer value for transport terms in REF03.

Example:
REF*0L*FOB05*MyOwnTransportTerms~

REF*2I is used in conjunction with
REF02 for the domain to specify the tracking identification number in REF03.

Example:
REF*2I*UPS*Tracking ID~

REF*18 is used in conjunction with
REF02="Planning Type" to specify the planning strategy in REF03.

Possible values are:
"MTO" - Make to Order
"MTS" - Make to Stock
"ATO" - Assemble to Order
"CTO" - Configure to Order

Example:
REF*18*Planning Type*CTO~

REF*AH is used to specify the agreement identification number in REF03.
REF02 is not used in this case.

Example:
REF*AH**Agreement ID~

REF*IP is used in conjunction with
REF02="Inspection Days" to provide the number of days the buyer schedules for the inspection of goods after receiving them in REF03.

Example:
REF*IP*Inspection Days*5~

PO1 **M 100000 Line Item****REF** **O 1** **References - Fine Line Classification**

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M	ID 2/3	<i>FL</i> <i>Fine Line Classification</i>
02	127	Reference Identification	C AN 1/30	C	AN 1/30	Parent line number *UserNote (Item type)
03	352	Description	C AN 1/80	C	AN 1/80	Item type *UserNote (Item type)

Example: REF*FLlean~**

To specify the item type.

*UserNote (Item type)
The item type specifies whether the line item is a grouped item having child items or an independent line item.

Possible values are:

"composite": Identifies an item group.

"item": Identifies an independent line item. REF02 indicates the line number of the corresponding parent line item.
This is a mandatory field and applicable only for a line item with itemType="item".

"lean": Indicates that no child item is expected for the line.

Examples:

LIN*10~
REF*FL**composite~
LIN*20~
REF*FL*10*item~
LIN*30~
REF*FL*10*item~
LIN*40~
REF*FL**lean~

PO1	M 100000	Line Item
REF	O >1	References - Item Category

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	KQ	Item Category
02	127	Reference Identification	C AN 1/30	C AN 1/30		Item category
<p>Example: REF*KQ*consignment~ To specify identifying information.</p> <p>This segment is used to specify how a component or material is procured.</p> <p>Possible values are:</p> <p>"materialUnknown" - Refers to procuring a material without specifying the material number.</p> <p>"text" - Refers to procuring a free-form text item.</p> <p>"stockTransfer" - Refers to transfer of stock from one plant to another.</p> <p>"materialGroup" - Refers to procuring a material without specifying the value or quantity.</p> <p>"subcontract" - Procuring a material by providing component information to a contract manufacturer that makes the finished product.</p> <p>"consignment" - Managing a material through a special process where the payment to supplier is withheld until the material or service is consumed by the buyer.</p> <p>"thirdParty" - Procuring a material from a third-party vendor.</p> <p>Example: REF*KQ*thirdParty~</p>						

PO1 **M 100000 Line Item****REF** **O >1 References - Mutually Defined References**

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	ZZ	Mutually Defined
02	127	Reference Identification	C AN 1/30	C AN 1/30	Mutually defined identification name	
03	352	Description	C AN 1/80	C AN 1/80	Mutually defined identification	

Example: REF*ZZ*MutuallyDefinedIDName*Mutually Defined Identification~
To specify mutually defined identifying information.

REF*ZZ contains information mutually defined by the trading partners.
In this case REF02 is used as an identification to specify the mutually defined identification provided in REF03.
Please note REF03 is not required.
For various business cases it is sufficient to transmit only the mutually defined name identification by itself.

Examples:
REF*ZZ*MutuallyDefinedIDName*Mutually Defined Identification~
REF*ZZ*MutuallyDefinedIDName~

PO1	M 100000	Line Item
SAC	O 25	Service, Promotion, Allowance or Charge Information
SAC	M 1	Service, Promotion, Allowance or Charge Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	248	Allowance or Charge Indicator	M ID 1/1	M ID 1/1	C N	Charge No Allowance or Charge	
02	1300	Service, Promotion, Allowance, or Charge Code	C ID 4/4	C ID 4/4	G830 B840 F050	Shipping and Handling Customer Account Identification Other	
03	559	Agency Qualifier Code	C ID 2/2	C ID 2/2	ZZ	Mutually Defined	
04	1301	Agency Service, Promotion, Allowance, or Charge Code	C AN 1/10	X			
05	610	Amount	O N2 1/15	O N2 1/15		Monetary amount	
06	378	Allowance/Charge Percent Qualifier	C ID 1/1	X			
07	332	Percent	C R 1/6	X			
08	118	Rate	O R 1/9	X			
09	355	Unit or Basis for Measurement Code	C ID 2/2	X			
10	380	Quantity	C R 1/15	X			
11	380	Quantity	O R 1/15	X			
12	331	Allowance or Charge Method of Handling Code	O ID 2/2	X			
13	127	Reference Identification	C AN 1/30	C AN 1/30		Shipping cost: Tracking ID Price type: Example type values might be MSRP, ListPrice, Actual, AverageSellingPrice, CalculationGross, BaseCharge, AverageWholesalePrice, ExportPrice, AlternatePrice, ContractPrice, etc.	
14	770	Option Number	O AN 1/20	O AN 1/20		Sequence for distribution (only used for Distribution accounting)	
15	352	Description	C AN 1/80	C AN 1/80		Free-form description	
16	819	Language Code	O ID 2/3	O ID 2/3		This is the language code attribute sent to describe the language used for the comment. The code is ISO 639 compliant. Note that this code is optional and can be supplied in lower case. E.g. EN English	

SAC **M 1** **Service, Promotion, Allowance or Charge Information**

Example: SAC*C*G830***4680*****SAC-Reference ID**SAC-Description*EN~

Note: Special combination of elements shown here are examples.

Shipping Cost:

This represents a shipping cost in the order to the supplier. There can be one of these for the entire order, or one per line item.

Example:

SAC*C*G830***4680*****Tracking ID**SAC-Description*EN~
CUR*BY*USD*0.9*SE*EUR~

Original Price:

This represents an original price. There can be one of these for the entire order, or one per line item.

Example:

SAC*N*F050*ZZ**4680*****ListPrice**Original Price*EN~
CUR*BY*USD~

Accounting distribution:

Here the buyer has requested a two way split on the charges. The buyer's account number is comprised of four segments. For reference purposes, Ariba Network expands the account number with the account segment names in the description element, SAC15, as space allows. The Option Number element, SAC14, shows the sequential occurrence of Distributions. Out of the \$125 total, \$98 is to be charged to one account and \$27 to another. The account number segmentation is implied by the buyer's internal system.

Buyers can optionally specify a list of accounts showing how they want the charges for this line item distributed on their invoice. If present, suppliers are expected to invoice according to these accounting guidelines.

Example:

SAC*N*B840***9800*****07-D84-422-E11*1*Project: 07, Cost Center: D84, Department: 422, Account: E11*EN~
SAC*N*B840***2700*****07-G18-422-E11*2*Project: 07, Cost Center: G18, Department: 422, Account: E11*EN~

PO1	M 100000	Line Item
SAC	O 25	Service, Promotion, Allowance or Charge Information
CUR	O 1	Currency

Standard X12					SAP Ariba Usage, allowed Codes		
01	98	Entity Identifier Code	M	ID 2/3	M	ID 2/3	BY Buying Party (Purchaser)
02	100	Currency Code	M	ID 3/3	M	ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. USD US Dollar
03	280	Exchange Rate	O	R 4/10	O	R 4/10	Exchange rate
04	98	Entity Identifier Code	O	ID 2/3	O	ID 2/3	SE Selling Party
05	100	Currency Code	O	ID 3/3	O	ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. EUR Euro
Example: CUR*BY*USD*0.9*SE*EUR~ To specify the currency used in a transaction.							

PO1	M 100000	Line Item
SAC	O 25	Service, Promotion, Allowance or Charge Information
SAC	M 1	Modifications

Standard X12				SAP Ariba Usage, allowed Codes			
01	248	Allowance or Charge Indicator	M ID 1/1	M ID 1/1	C	Charge	
					A	Allowance	
02	1300	Service, Promotion, Allowance, or Charge Code	C ID 4/4	C ID 4/4	A040	Access Charge	
					A050	AccountNumberCorrectionCharge	
					A060	AcidBattery	
					A170	Adjustment	
					A960	Carrier	
					A520	Charge	
					B660	Contract Allowance	
					C310	Discount	
					C300	Discount-Special	
					D240	Freight	
					D180	FreightBasedOnDollarMinimum	
					D500	Handling	
					D980	Insurance	
					G580	Royalties	
					G821	Shipping	
					G830	ShippingAndHandling	
					H970	Allowance	
					I530	Volume Discount	
					ZZZZ	Mutually Defined	
03	559	Agency Qualifier Code	C ID 2/2	C ID 2/2	ZZ	Mutually Defined	
04	1301	Agency Service, Promotion, Allowance, or Charge Code	C AN 1/10	X			
05	610	Amount	O N2 1/15	O N2 1/15		Monetary amount	
06	378	Allowance/Charge Percent Qualifier	C ID 1/1	C ID 1/1	6	Base Price Amount	
07	332	Percent	C R 1/6	C R 1/6		Percent	
08	118	Rate	O R 1/9	X			
09	355	Unit or Basis for Measurement Code	C ID 2/2	X			
10	380	Quantity	C R 1/15	X			
11	380	Quantity	O R 1/15	X			
12	331	Allowance or Charge Method of Handling Code	O ID 2/2	X			
13	127	Reference Identification	C AN 1/30	C AN 1/30		Could be AMT_PRI	
14	770	Option Number	O AN 1/20	O AN 1/20	1	Used if SAC05 value is amount	
					2	Used if SAC05 value is price	
15	352	Description	C AN 1/80	C AN 1/80		Free-form description	
16	819	Language Code	O ID 2/3	O ID 2/3		This is the language code attribute sent to describe the language used for the comment. The code is ISO 639 compliant. Note that this code is optional and can be supplied in lower case. E.g.	
					EN	English	

SAC	M 1	Modifications
------------	------------	----------------------

Example: SAC*C*D240*ZZ4680*6*0.12*****AMT_PRI*1*SAC-Description*EN~**

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge.

Example 1: Discount

In this example, a 5% discount representing 5.77 Dollars is being offered.

SAC*A*D310*ZZ**577*6*5~

Example 2: Special Handling Charge

In this example, a 20.00 Euro special handling fee is being charged.

SAC*C*D500*ZZ**2000*****Special Handling Description*EN~

PO1	M 100000	Line Item
SAC	O 25	Service, Promotion, Allowance or Charge Information
CUR	O 1	Currency

Standard X12				SAP Ariba Usage, allowed Codes	
01	98	Entity Identifier Code	M ID 2/3	M ID 2/3	<i>BY</i> <i>Buying Party (Purchaser)</i>
02	100	Currency Code	M ID 3/3	M ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified Currency coded, e.g. <i>USD</i> <i>US Dollar</i>
03	280	Exchange Rate	O R 4/10	X	
04	98	Entity Identifier Code	O ID 2/3	X	
05	100	Currency Code	O ID 3/3	X	
06	669	Currency Market/Exchange Code	O ID 3/3	X	
07	374	Date/Time Qualifier	C ID 3/3	C ID 3/3	<i>196</i> <i>Start</i>
08	373	Date	O DT 8/8	O DT 8/8	Start date Date expressed as CCYYMMDD
09	337	Time	O TM 4/8	O TM 4/8	Start time Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).
10	374	Date/Time Qualifier	C ID 3/3	C ID 3/3	<i>197</i> <i>End</i>
11	373	Date	C DT 8/8	C DT 8/8	End date Date expressed as CCYYMMDD
12	337	Time	C TM 4/8	C TM 4/8	End time Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)
Example: CUR*BY*USD*****196*20160104*1010*197*20160104*1011~ To specify the currency used in a transaction.					

PO1	M 100000 Line Item
------------	---------------------------

FOB	O >1 F.O.B. Related Instructions
------------	--

Standard X12				SAP Ariba Usage, allowed Codes		
01	146	Shipment Method of Payment	M ID 2/2	M ID 2/2		Shipment method of payment Please refer to APPENDIX - CODELISTS 146 Shipment Method of Payment.
02	309	Location Qualifier	C ID 1/2	C ID 1/2	<i>OF</i> <i>Other Unlisted Free On Board (FOB) Point</i> <i>ZZ</i> <i>Mutually Defined</i>	
03	352	Description	O AN 1/80	O AN 1/80		Description
04	334	Transportation Terms Qualifier Code	O ID 2/2	O ID 2/2	<i>01</i> <i>Incoterms</i>	
05	335	Transportation Terms Code	C ID 3/3	C ID 3/3		Code identifying the trade terms which apply to the shipment transportation responsibility. E. g. <i>CAF</i> <i>Cost and Freight</i> <i>CIF</i> <i>Cost, Insurance, and Freight</i> <i>CIP</i> <i>Carriage and Insurance Paid To</i> <i>CPT</i> <i>Carriage Paid To</i> <i>DAF</i> <i>Delivered at Frontier</i> <i>DAP</i> <i>Delivered At Place*</i> <i>DAT</i> <i>Delivered At Terminal*</i> <i>DDP</i> <i>Delivered Duty Paid</i> <i>DDU</i> <i>Deliver Duty Unpaid</i> <i>DEQ</i> <i>Delivered Ex Quay</i> <i>DES</i> <i>Delivered Ex Ship</i> <i>EXW</i> <i>Ex Works</i> <i>FAS</i> <i>Free Alongside Ship</i> <i>FCA</i> <i>Free Carrier</i> <i>FOB</i> <i>Free on Board</i> <i>ZZZ</i> <i>Mutually Defined</i> *UserNote (Incoterms)
06	309	Location Qualifier	C ID 1/2	C ID 1/2	<i>ZZ</i> <i>Shipping payment method</i>	
07	352	Description	O AN 1/80	O AN 1/80		Description A free-form description to specify the related data elements and their content Transport description and terms of delivery description can be specified in this element. Both will be concatenated together. Transport description will be prefixed by @TP and terms of delivery description will be prefixed by @TOD. E.g.: @TPTransport description @TODDelivery at the doorstep.
Example: FOB*DF*ZZ*Description*01*EXW*ZZ*@TPTransport description@TODDelivery at the doorstep~ To specify transportation instructions relating to shipment. *UserNote (Incoterms) Ariba Network supports codes from higher ANSI X12 versions, e.g. 006040.						

PO1 **M 100000 Line Item****SDQ** **O 500 Destination Quantity - Packaging Distribution**

Standard X12				SAP Ariba Usage, allowed Codes		
01	355	Unit or Basis for Measurement Code	M ID 2/2	M ID 2/2		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Please refer to APPENDIX - CODELISTS 355 Unit or Basis for Measurement Code (UOM).
02	66	Identification Code Qualifier	O ID 1/2	O ID 1/2	54	Warehouse
03	67	Identification Code	M AN 2/80	M AN 2/80		Store number
04	380	Quantity	M R 1/15	M R 1/15		Quantity to be delivered
Example: SDQ*EA*54*Store ID*100~ To provide packaging distribution information between stores.						

PO1	M 100000 Line Item
DTM	O 10 Date/Time

Standard X12				SAP Ariba Usage, allowed Codes			
01	374	Date/Time Qualifier	M ID 3/3	M	ID 3/3	002 Delivery Requested 010 Requested Ship 150 Service Period Start 151 Service Period End LEA Master agreement date	
02	373	Date	C DT 8/8	C	DT 8/8	Date expressed as format CCYYMMDD	
03	337	Time	C TM 4/8	C	TM 4/8	Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59).	
04	623	Time Code	O ID 2/2	O	ID 2/2	Code identifying the time zone Please refer to APPENDIX - CODELISTS 623 Time Code.	
Example: DTM*002*20160111*101059*CT~ To specify pertinent dates and times.							

PO1 **M 100000 Line Item****TXI** **O >1 Tax Information**

Standard X12				SAP Ariba Usage, allowed Codes			
01	963	Tax Type Code	M ID 2/2	M ID 2/2	GS	Goods and Services Tax	
					ST	State Sales Tax	
					TX	All Taxes	
					VA	Value Added Tax	
					ZZ	Mutually Defined	
02	782	Monetary Amount	C R 1/18	C R 1/18	Tax amount		
03	954	Percent	C R 1/10	C R 1/10	Tax percentage		
04	955	Tax Jurisdiction Code Qualifier	C ID 2/2	C ID 2/2	CD	Customer defined	
05	956	Tax Jurisdiction Code	C AN 1/10	C AN 1/10	Tax location		
06	441	Tax Exempt Code	C ID 1/1	C ID 1/1	0	Exempt (For Export)	
					2	No (Not Tax Exempt)	
07	662	Relationship Code	O ID 1/1	X	Taxable amount		
08	828	Dollar Basis For Percent	O R 1/9	O R 1/9			
09	325	Tax Identification Number	O AN 1/20	O AN 1/20	Custom tax category Used for providing custom tax categories to override the standard tax categories on TXI01.		
10	350	Assigned Identification	O AN 1/20	O AN 1/20	Tax description		
Example: TXI*ZZ*10.00*10.00*CD*TaxLoc*0**100.00*CU*Description~ To specify tax information. Example: TXI*TX*10.00~ TXI*ZZ*10.00*10.00*CD*TaxLoc*0**100.00**Description~							

PO1	M 100000	Line Item
QTY	O >1	Quantity
QTY	M 1	Range Maximum/Minimum

Standard X12				SAP Ariba Usage, allowed Codes			
01	673	Quantity Qualifier	M	ID 2/2	M	ID 2/2	7D Range Maximum 7E Range Minimum
02	380	Quantity	C	R 1/15	C	R 1/15	Range maximum / minimum
Example: QTY*7D*100~ To specify quantity information.							

PO1	M 100000	Line Item
SCH	O 200	Line Item Schedule
SCH	M 1	Line Item Schedule

Standard X12				SAP Ariba Usage, allowed Codes			
01	380	Quantity	M R 1/15	M R 1/15	Quantity		
02	355	Unit or Basis for Measurement Code	M ID 2/2	M ID 2/2	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Please refer to APPENDIX - CODELISTS 355 Unit or Basis for Measurement Code (UOM).		
03	98	Entity Identifier Code	O ID 2/3	O ID 2/3	<i>ST Ship To</i>		
04	93	Name	C AN 1/60	C AN 1/60	Ship-to name		
05	374	Date/Time Qualifier	M ID 3/3	M ID 3/3	<i>002 Delivery Requested</i>		
06	373	Date	M DT 8/8	M DT 8/8	Date expressed as format CCYYMMDD		
07	337	Time	O TM 4/8	O TM 4/8	Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59).		
08	374	Date/Time Qualifier	C ID 3/3	C ID 3/3	<i>010 Requested Ship</i>		
09	373	Date	C DT 8/8	C DT 8/8	Date expressed as format CCYYMMDD		
10	337	Time	C TM 4/8	C TM 4/8	Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59).		
11	326	Request Reference Number	O AN 1/45	O AN 1/45	Schedule line number Refers to SLN02 of the subsequent SLN segment.		
12	350	Assigned Identification	O AN 1/20	O AN 1/20	Schedule delivery window This is the Delivery requested date, increased by the number of days of the delivery window. Date expressed as format CCYYMMDD		
Example: SCH*100*EA*ST*Ship-To Name*002*20160111*083059*010*20160113*183159*001*20160113~ To specify data for scheduling a specific line-item. Example: SCH*10*EA*ST*Ship-To Name*002*20160111*083059*010*20160114*083059*001*20160214~ SCH*90*EA*ST*Ship-To Name*002*20160211*083059*010*20160214*083059*002*20160214~							

PO1	M 100000	Line Item
SCH	O 200	Line Item Schedule
REF	O >1	References

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	CT	Contract Number
02	127	Reference Identification	C AN 1/30	C AN 1/30	Identification number	
Example: REF*CT*Contract ID~ To specify identifying information.						

PO1	M 100000	Line Item
PKG	O 200	Packaging Details
PKG	M 1	Marking, Packaging, Loading

Standard X12				SAP Ariba Usage, allowed Codes	
01	349	Item Description Type	C ID 1/1	C ID 1/1	<i>F Free-form</i>
02	753	Packaging Characteristic Code	O ID 1/5	O ID 1/5	<i>01 Casing Type</i>
03	559	Agency Qualifier Code	C ID 2/2	C ID 2/2	<i>ZZ Mutually Defined</i>
04	754	Packaging Description Code	C AN 1/7	C AN 1/7	Packing description code
05	352	Description	C AN 1/80	C AN 1/80	Free-form description
Example: PKG*F*01*ZZ*Code*Packaging Description~ To describe marking, packaging, loading and unloading requirements.					

PO1	M 100000	Line Item
PKG	O 200	Packaging Details
MEA	O >1	Measurements

Standard X12				SAP Ariba Usage, allowed Codes			
01	737	Measurement Reference ID Code	O	ID 2/2	O	ID 2/2	<i>PD</i> <i>Physical Dimensions</i>
02	738	Measurement Qualifier	O	ID 1/3	O	ID 1/3	<i>G</i> <i>Gross Weight</i> <i>GW</i> <i>Gross Weight, Maximum</i> <i>HT</i> <i>Height</i> <i>LN</i> <i>Length</i> <i>N</i> <i>Actual Net Weight</i> <i>S</i> <i>State Weight</i> <i>VOL</i> <i>Volume</i> <i>VWT</i> <i>Volume Weight</i> <i>WD</i> <i>Width</i> <i>WT</i> <i>Weight</i>
03	739	Measurement Value	C	R 1/20	C	R 1/20	Measurement value
C001		Composite Unit of Measure	C		C		
355		Unit or Basis for Measurement Code	M	ID 2/2	M	ID 2/2	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Please refer to APPENDIX - CODELISTS 355 Unit or Basis for Measurement Code (UOM).
Example: MEA*PD*G*100.00*KG~ To specify physical measurements.							

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Characteristics
N9	M 1	Reference Identification - Characteristics

Standard X12				SAP Ariba Usage, allowed Codes	
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>PRT</i> <i>Product Type</i>
02	127	Reference Identification	C AN 1/30	C AN 1/30	Item characteristic domain
Example: N9*PRT*size~ To transmit identifying information as specified by the Reference Identification Qualifier. This segment is used to specify item characteristics. It can be used to send material characteristics to support the configurable material process. N9*PRT is used in conjunction with N902 as the domain to specify detailed information in MSG about an item that can be used across several different industries. Examples: N9*PRT*quality~ MSG*A~ N9*PRT*color~ MSG*Black~					

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Characteristics
MSG	O 1000	Free-Form Message Text

Standard X12					SAP Ariba Usage, allowed Codes		
01	933	Free-Form Message Text	M	AN 1/264	M	AN 1/264	Item characteric value
Example: MSG*Large~ To provide a free-form format that allows the transmission of text information.							

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Special Indicators
N9	M 1	Reference Identification - Special Indicators

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	ACC	Status	
					ACE	Service Request Number	
					BT	Batch Number	
					LS	Bar-Coded Serial Number	
					SE	Serial Number	
					SU	Special Processing Code	
					*UserNote (N9 - Special Indicators)		
02	127	Reference Identification	C AN 1/30	C AN 1/30	Identification type or specifying value		
					*UserNote (N9 - Special Indicators)		
03	369	Free-form Description	C AN 1/45	C AN 1/45	Indicator		
					"yes" or empty		
					*UserNote (N9 - Special Indicators)		

N9 **M 1** **Reference Identification - Special Indicators**

Example: N9*ACE*requiresServiceEntry*yes~

To transmit identifying information as specified by the Reference Identification Qualifier.

*UserNote (N9 - Special Indicators):

These segments are reserved for specific usage, indicated by a "yes" in N903, as described below:

N9*ACC is used in conjunction with
N902="return item" to indicate that the item is a return item.

Example:

N9*ACC*return item*yes~

N902="delivery complete" to indicate that this item is considered closed,
and no more deliveries are expected for it, set by the buyer for informative purposes.

Example:

N9*ACC*delivery complete*yes~

N9*ACE is used in conjunction with
N902="requiresServiceEntry" to indicate when the item requires a ServiceEntryRequest service sheet to describe how it was serviced.

Example:

N9*ACE*requiresServiceEntry*yes~

N9*BT is used in conjunction with
N902="requiresBatch" to indicate that this item requires a batch number to be provided by the supplier
in the corresponding ship notice (856) and order confirmation (855) documents.

Example:

N9*BT*requiresBatch*yes~

N9*LS is used in conjunction with
N902="isHUMandatory" to indicate that a handling unit is required for this item.
A handling unit is a physical unit consisting of packaging materials (load carriers/packing material)
and the goods contained on or in it.

Example:

N9*LS*isHUMandatory*yes~

N9*SE is used in conjunction with
N902 as the Serial Number Type* to indicate this item requires a serial number to be provided by the supplier in the corresponding
ship notice (856).

*UserNote (Serial Number Type):

Specifies the type of serial number number.

Possible values are:

"list" - A list of acceptable serial numbers.

"range" - A range of acceptable serial numbers, only valid for numeric ranges.

"profile" - A format of acceptable serial numbers.

Examples:

N9*SE*list*yes~

N9*SE*range*yes~

N9*SU is used in conjunction with
N902="requiresRealTimeConsumption" to indicate that real time consumption is required for this item.

Example:

N9*LS*requiresRealTimeConsumption*yes~

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Quality Information
N9	M 1	Reference Identification - Quality Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	<i>H6</i> <i>Quality Clause</i>
02	127	Reference Identification	C	AN 1/30	C	AN 1/30	Quality process requirement flag Set to "yes" to indicate that this item requires a quality process.
03	369	Free-form Description	C	AN 1/45	C	AN 1/45	Identification number domain Possible values: "Control code" "CertificateType"
04	373	Date	O	DT 8/8	X		
05	337	Time	C	TM 4/8	X		
06	623	Time Code	O	ID 2/2	X		
C040		Reference Identifier	O		O		
	128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	<i>H6</i> <i>Quality Clause</i>
	127	Reference Identification	M	AN 1/30	M	AN 1/30	Identification number

Example: N9*H6*yes*Control code**H6>Control Code ID~**
To transmit identifying information as specified by the Reference Identification Qualifier.

This segment is used to specify quality information (e.g. control code and/or certificate) related to this item.

Examples:
N9*H6*yes*Control code****H6^Control Code ID~
MSG*Control Code Text~
N9*H6*yes*Certificate type****H6^Certificate ID~
MSG*Certificate Text~

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Quality Information
MSG	O 1000	Message Text

Standard X12			SAP Ariba Usage, allowed Codes		
01	933	Free-Form Message Text	M	AN 1/264	Free-form message text
Example: MSG*Control Code Text~ To provide a free-form format that allows the transmission of text information.					

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Additional Document References
N9	M 1	Reference Identification - Additional Document References

Standard X12				SAP Ariba Usage, allowed Codes	
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>OL Referenced By</i>
02	127	Reference Identification	C AN 1/30	C AN 1/30	Document number
03	369	Free-form Description	C AN 1/45	C AN 1/45	Document type
04	373	Date	O DT 8/8	O DT 8/8	Document date Date expressed as format CCYYMMDD
05	337	Time	C TM 4/8	C TM 4/8	Document time Time expressed in 24-hour clock time as follows: HHMMSS, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59).
06	623	Time Code	O ID 2/2	O ID 2/2	Code identifying the time zone Please refer to APPENDIX - CODELISTS 623 Time Code.
C040		Reference Identifier	O	O	
128		Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>LI Line Item Identifier (Seller's)</i>
127		Reference Identification	M AN 1/30	M AN 1/30	Line number
128		Reference Identification Qualifier	C ID 2/3	C ID 2/3	<i>72 Schedule Reference Number</i>
127		Reference Identification	C AN 1/30	C AN 1/30	Schedule line number
Example: N9*OL*PO ID*ProductionOrder*20160130*093059*CT*LI>01>72>001~ To transmit identifying information as specified by the Reference Identification Qualifier. This segment is used to refer to additional documents related to this Purchase Order. Examples: N9*OL*QN ID*QualityNotification*20160110*010000*CT*LI^1^72^11~ N9*OL*SO ID*SalesOrder*20160120*020000*CT*LI^2^72^22~ N9*OL*PO ID*ProductionOrder*20160130*030000*20*CT^3^72^33~					

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Comments
N9	M 1	Reference Identification - Comments

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M ID 2/3	M	ID 2/3	L1	Letters or Notes
02	127	Reference Identification	C AN 1/30	C	AN 1/30	This is the language code attribute sent to describe the language used for the comment. The code is ISO 639 compliant. Note that this code is optional and can be supplied in lower case. E.g. EN English	
03	369	Free-form Description	C AN 1/45	C	AN 1/45	"Comments"	
04	373	Date	O DT 8/8	X			
05	337	Time	C TM 4/8	X			
06	623	Time Code	O ID 2/2	X			
C040		Reference Identifier	O	O			
	128	Reference Identification Qualifier	M ID 2/3	M	ID 2/3	L1	Letters or Notes
	127	Reference Identification	M AN 1/30	M	AN 1/30	Type of comments	

Example: N9*L1*EN*Comments**L1>Reason~**

To transmit identifying information as specified by the Reference Identification Qualifier.

N9*L1 is used for general comments in MSG where N902 represents the language code and N903 indicates it as "Comments".

Multiline comments are also possible.
For intentional linefeeds, simply multiple MSG segments are present.
If a single comment line is longer than 264 chars, another MSG with MSG02=LC is used.

Examples:
N9*L1*EN*Comments~
MSG*Text~
or
N9*L1*EN*Comments~
MSG*Text1*LC~
MSG*Text2~

Type of comments can be provided also.
It can contain an additional information about the specification of comments.

Examples:
N9*L1*EN*Comments****L1>Reason~
MSG*Text~

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Comments
MSG	O 1000	Free-Form Message Text

Standard X12				SAP Ariba Usage, allowed Codes		
01	933	Free-Form Message Text	M AN 1/264	M	AN 1/264	Free-form message text
02	934	Printer Carriage Control Code	C ID 2/2	C	ID 2/2	A field to be used for the control of the line feed of the receiving printer If a line was broken by the limitation of MSG01, and a new segment is created for continuation, then MSG02="LC", otherwise it is not used. <i>LC Line Continuation</i>
Example: MSG*Text*LC~ To provide a free-form format that allows the transmission of text information.						

PO1	M 100000	Line Item
N9	O 1	Reference Identification - Item URL
N9	M 1	Reference Identification - Item URL

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	URL Uniform Resource Locator		
02	127	Reference Identification	C AN 1/30	C AN 1/30	"URL"		
03	369	Free-form Description	C AN 1/45	C AN 1/45	URL reference		

Example: N9*URL*URL*URL Reference~

To transmit identifying information as specified by the Reference Identification Qualifier.

This segment is used for the item URL in MSG where N902 indicates it as "URL" and N903 represents the URL reference. If ItemDetail is supplied, there is one optional URL the Buyer can send to reference the item. What the URL refers to, if specified, is mapped in N903. The URL itself is mapped to the MSG segment.

Example:
N9*URL*URL*Catalog Entry~
MSG*http://www.thesupplier.com/catalog?itemid=99999~

PO1	M 100000	Line Item
N9	O 1	Reference Identification - Item URL
MSG	O 1000	Free-Form Message Text

Standard X12				SAP Ariba Usage, allowed Codes		
01	933	Free-Form Message Text	M AN 1/264	M AN 1/264	Item URL	A URL (Uniform Resource Locator) as defined by the HTTP/1.1 standard.
Example: MSG*http://www.url/~ To provide a free-form format that allows the transmission of text information.						

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Control keys
N9	M 1	Reference Identification - Control keys

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>KD</i>	<i>Control Key/Special Instruction</i>
02	127	Reference Identification	C AN 1/30	C AN 1/30	Control key/Special instruction identifier*	
03	369	Free-form Description	C AN 1/45	C AN 1/45	Control key/Special instruction value*	

N9 **M 1** **Reference Identification - Control keys****Example: N9*KD*OCValue*allowed~**

To transmit identifying information as specified by the Reference Identification Qualifier.

*Note: This segmentgroup N9*KD is used to inform Purchase Order related control keys in form of special instructions for further steps in the process chain.

Order confirmation instructions:

Supported values in N903 in combination with N902="OCValue" are:

"allowed" - Order confirmation is allowed

"notAllowed" - Order confirmation is not allowed

"requiredBeforeASN" - Order confirmation is required before a ship notice

Example:

N9*KD*OCValue*allowed~

Order confirmation time tolerances:

N903 specifies the time tolerance of an Order Confirmation in days, where N902="OCLowerTimeToleranceInDays" is used to define a lower limit and N902="OCUpperTimeToleranceInDays" an upper limit.

Examples:

N9*KD*OCLowerTimeToleranceInDays*1~

N9*KD*OCUpperTimeToleranceInDays*30~

Order confirmation quantity tolerances:

N903 specifies the quantity tolerance of an Order Confirmation in percent, where N902="OCLowerQtyTolerancePercent" is used to define a lower limit and N902="OCUpperQtyTolerancePercent" an upper limit.

Examples:

N9*KD*OCLowerQtyTolerancePercent*5.0~

N9*KD*OCUpperQtyTolerancePercent*5.0~

Order confirmation price tolerances:

N903 specifies the price tolerance of an Order Confirmation in percent, where N902="OCLowerPriceTolerancePercent" is used to define a lower limit and N902="OCUpperPriceTolerancePercent" an upper limit.

Examples:

N9*KD*OCLowerPriceTolerancePercent*2.0~

N9*KD*OCUpperPriceTolerancePercent*2.0~

Ship notice instructions:

Supported values in N903 in combination with N902="ASNValue" are:

"allowed" - Ship notice is allowed

"notAllowed" - Ship notice is not allowed

Example:

N9*KD*ASNValue*allowed~

Ship notice time tolerances:

N903 specifies the time tolerance of an Ship notice in days, where N902="ASNLowerTimeToleranceInDays" is used to define a lower limit and N902="ASNUpperTimeToleranceInDays" an upper limit.

Examples:

N9*KD*ASNLowerTimeToleranceInDays*1~

N9*KD*ASNUpperTimeToleranceInDays*30~

Ship notice quantity tolerances:

N903 specifies the quantity tolerance of an Ship notice in percent, where N902="ASNLowerQtyTolerancePercent" is used to define a lower limit and N902="ASNUpperQtyTolerancePercent" an upper limit.

Examples:

N9*KD*ASNLowerQtyTolerancePercent*5.0~

N9*KD*ASNUpperQtyTolerancePercent*5.0~

N9	M 1	Reference Identification - Control keys
-----------	------------	--

Invoice instructions:

Supported values in N903 in combination with N902="INVValue" are:

"isERS" - The order or line item is flagged for Evaluated Receipt Settlement, indicating that the system will post an invoice for it automatically based on goods receipts.

"isNotERS" - The order or line item is not flagged for Evaluated Receipt Settlement.

"allowed" - Invoice is allowed

"notAllowed" - Invoice is not allowed

Example:

N9*KD*INVValue*isERS~

Invoice verification types:

The only supported value in N903 in combination with N902="INVVerification" is:

"goodsReceipt" - Indicates that invoice verification for this item is based on the goods receipt.

The invoice item can then be matched up uniquely with the goods receipt item.

Goods-receipt-based invoice verification makes sense when you expect a delivery to be made and posted in several parts.

Example:

N9*KD*INVVerification*goodsReceipt~

Invoice and/or Service sheet unit price update options:

Specifies whether a buyer or supplier is allowed to update the unit price while creating an invoice.

Supported values in N903 in combination with

N902="INV_unitPriceEditable" for the invoice or

N902="SES_UnitPriceEditable" for the service sheet are:

"yes" - The buyer or supplier is allowed to edit unit price. The new price must be within price tolerance.

"no" - The unit price is not editable regardless of transaction rules defined in the network hub.

Examples:

N9*KD*INV_unitPriceEditable*yes~

N9*KD*SES_UnitPriceEditable*no~

Service sheet instructions:

Supported values in N903 in combination with N902="SESValue" are:

"allowed" - Service sheet is allowed

"notAllowed" - Service sheet is not allowed

Example:

N9*KD*SESValue*allowed~

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Mutually Defined References
N9	M 1	Reference Identification - Mutually Defined References

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	ZZ	.
02	127	Reference Identification	C AN 1/30	X		
03	369	Free-form Description	C AN 1/45	C AN 1/45		Mutually defined identification name
Example: N9*ZZ**MutuallyDefinedIDName~ To transmit identifying information as specified by the Reference Identification Qualifier. This segment is used to specify mutually defined identifying information. N9*ZZ contains information mutually defined by the trading partners. In this case N903 is used as an identification to specify the mutually defined identification provided in MSG. If the content is longer than 264 chars, another MSG with MSG02=LC is used. Please note MSG is not required. For various business cases it is sufficient to transmit only the mutually defined name identification by itself. Examples: N9*ZZ**MutuallyDefinedIDName1~ MSG*Mutually Defined Identification1 Text~ or N9*ZZ**MutuallyDefinedIDName2~ MSG*Mutually Defined Identification2 Text1~ MSG*Mutually Defined Identification2 Text2*LC~ or N9*ZZ**MutuallyDefinedIDName3~						

PO1	M 100000	Line Item
N9	O 1000	Reference Identification - Mutually Defined References
MSG	O 1000	Message Text

Standard X12				SAP Ariba Usage, allowed Codes		
01	933	Free-Form Message Text	M AN 1/264	M	AN 1/264	Mutually defined identification
02	934	Printer Carriage Control Code	C ID 2/2	C	ID 2/2	A field to be used for the control of the line feed of the receiving printer. If a line was broken by the limitation of MSG01, and a new segment is created for continuation, then MSG02="LC", otherwise it is not used LC Line Continuation
Example: MSG*Mutually Defined Identification*LC~ To provide a free-form format that allows the transmission of text information.						

PO1	M 100000	Line Item
N1	O 200	Party Identification
N1	M 1	Party Name

Standard X12				SAP Ariba Usage, allowed Codes	
01	98	Entity Identifier Code	M ID 2/3	M ID 2/3	<i>60 Salesperson</i> <i>7X Tax Representative</i> <i>A9 Sales Office</i> <i>AP Buyer Master Account</i> <i>B4 Buyer Corporate</i> <i>BF Billed From</i> <i>BT Bill-to-Party</i> <i>BY Buying Party (Purchaser)</i> <i>CA Carrier</i> <i>DA Delivery Address</i> <i>EN End User</i> <i>FR Message From</i> <i>KY Technical Support</i> <i>MA Ultimate Customer</i> <i>MJ Supplier Master Account</i> <i>NG Administrator</i> <i>OB Buyer Account</i> <i>PD Purchasing Agent</i> <i>RI Remit To</i> <i>SE Supplier Account</i> <i>SF Ship From</i> <i>SO Sold To</i> <i>ST Ship To</i> <i>SU Supplier</i> <i>ZZ Mutually Defined</i>
02	93	Name	C AN 1/60	C AN 1/60	Party name
03	66	Identification Code Qualifier	C ID 1/2	C ID 1/2	<i>1 D-U-N-S Number, Dun & Bradstreet</i> <i>2 Standard Carrier Alpha Code (SCAC)</i> <i>4 International Air Transport Association (IATA)</i> <i>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix</i> <i>92 Assigned by Buyer or Buyer's Agent</i>
04	67	Identification Code	C AN 2/80	C AN 2/80	Party identification number
Example: N1*ST*Shipl-To Name*92*Ship-To ID~					
This segment is used to identify the trading partners involved in the message.					

PO1	M 100000	Line Item
N1	O 200	Party Identification
N2	O 2	Party Additional Name Information

Standard X12				SAP Ariba Usage, allowed Codes		
01	93	Name	M AN 1/60	M	AN 1/60	Party postal address name 1
02	93	Name	O AN 1/60	O	AN 1/60	Party postal address name 2
Example: N2*Ship-To Addr Name 1*Ship-To Addr Name 2~						
If a Postal Address Name via N2 segment is used, then one Street (N301), the City (N401) and the two-char ISO-3166 Country Code (N404) are all required. Therefore, N3 and N4 become mandatory.						

PO1	M 100000	Line Item
N1	O 200	Party Identification
N3	O 2	Party Address Information

Standard X12				SAP Ariba Usage, allowed Codes		
01	166	Address Information	M AN 1/55	M AN 1/55	Party street 1	
02	166	Address Information	O AN 1/55	O AN 1/55	Party street 2	
Example: N3*Ship-To Street 1*Ship-To Street 2~ To specify the location of the named party. If a Postal Address Street via N3 segment is used, then the City (N401) and the two-char ISO-3166 Country Code (N404) are both required. Therefore, N4 becomes mandatory.						

PO1	M 100000	Line Item
N1	O 200	Party Identification
N4	O 1	Party Geographic Location

Standard X12				SAP Ariba Usage, allowed Codes	
01	19	City Name	O AN 2/30	O AN 2/30	Party city
02	156	State or Province Code	O ID 2/2	O ID 2/2	Party state or province code* For addresses in the United States or Canada, use the two letter digraph recognized by the United States Postal Service or Canada Post. Please refer to APPENDIX - CODELISTS 156 State or Province Code. *UserNote (State or province code)
03	116	Postal Code	O ID 3/15	O ID 3/15	Party postal code Zip codes will be either five or nine digits with no separator. Canadian postal codes must be formatted A9A9A9, with no separator
04	26	Country Code	O ID 2/3	O ID 2/3	Party country code Identification of the name of the country or other geographical entity, use ISO 3166 two alpha country code Please refer to APPENDIX - CODELISTS 26 Country Code.
05	309	Location Qualifier	C ID 1/2	C ID 1/2	<i>SP State/Province*</i> *UserNote (State or province code)
06	310	Location Identifier	O AN 1/30	O AN 1/30	Party state or province code* For addresses except in the United States or Canada. *UserNote (State or province code)
<p>Example: N4*Ship-To City**ZIP*AU*SP*NSW~ To specify the geographic place of the named party.</p> <p>If a Postal Address City or the two-char ISO-3166 Country Code via N4 segment is used, then one Street (N301) is required. Therefore, N3 becomes mandatory.</p> <p>*UserNote (State or Province Code) If the country code (N404) is US or CA, then the state or province code (N402) is also required and must be a valid state or province digraph. If the country code (N404) is not US or CA, then the state or province code must not be used on (N402). In that case the state or province code can optional be specified by using N406, always in combination with N405="SP".</p> <p>Examples: N4*City*CA*ZIP*US~ N4*City**ZIP*AU*SP*NSW~</p>					

PO1	M 100000	Line Item
N1	O 200	Party Identification
REF	O 12	Party Reference

Standard X12				SAP Ariba Usage, allowed Codes	
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>01 ABA Routing Number</i> <i>02 SWIFT Identification Number</i> <i>03 CHIPS Participant Identification Number</i> <i>11 Account Identification Number</i> <i>12 Account Payable Identification Number</i> <i>14 IBAN Identification Number</i> <i>3L Bank Branch Identification Number</i> <i>4B Loading Point</i> <i>4C Storage Location</i> <i>4G Provincial Tax Identification Number</i> <i>8W Bank National Identification Number</i> <i>9S Transportation Zone</i> <i>9X Account Type</i> <i>ACT Account Name</i> <i>AEC Government Registration Number</i> <i>AP Accounts Receivable Identification Number</i> <i>BAA Supplier Tax Identification Number</i> <i>BAD State Tax Identification Number</i> <i>BR Contact Department Identification Number</i> <i>D2 Supplier Reference Number</i> <i>DD Document Name</i> <i>DNS D-U-N-S+4, D-U-N-S Number with Four Character Suffix</i> <i>DUN D-U-N-S Number, Dun & Bradstreet</i> <i>DP Department Name</i> <i>F8 Additional Reference Number</i> <i>GT GST Registration Identification Number</i> <i>KK cRADCRS Indicator</i> <i>LU Buyer Location Identification Number</i> <i>ME Additional Postal Address Information</i> <i>PB Payer's Bank Account Identification Number</i> <i>PY Payee's Bank Account Identification Number</i> <i>RT Payee's Bank Routing Identification Number</i> <i>SA Contact Person</i> <i>TJ Federal Tax Identification Number</i> <i>TX Tax Exemption Identification Number</i> <i>VX VAT Identification Number</i> <i>YD Buyer Additional Identification Number</i> <i>ZA Supplier Additional Identification Number</i>
02	127	Reference Identification	C AN 1/30	X	
03	352	Description	C AN 1/80	C AN 1/80	Identification number

REF	O 12	Party Reference
------------	-------------	------------------------

Example: REF*APAccounts receivable ID~**

To specify identifying information.

Not used if N1*DA.

All reference identifiers are optional, and most all can be used.
Special cases are shown as below.

REF*AP: The Accounts Receivable Identification Number should only be used for the Buyer (N1*BY) / Bill To (N1*BT) / Sold To (N1*SO) and / or Ship To Party (N1*ST).

Example:

N1*BY*Buyer Name~

REF*AP*Buyer Accounts Receivable ID~

REF*PB: The Payer's Bank Account Identification Number should only be used for the Buyer (N1*BY) / Bill To (N1*BT) and / or Sold To Party (N1*SO).

Example:

N1*SO*Sold To Name~

REF*AP*Sold To Bank Account ID~

REF*BAA: The Supplier Tax Identification Number should only be used for the Remit To Party (N1*RI).

REF*RT and REF*PY: Payee's Bank Routing Identification Number (financial institution) and Payee's Bank Account Identification Number should be paired and are recommended for the Remit To Party (N1*RI), but allowed at all parties.

Example:

N1*RI*Remit To Name~

REF*BAA*Supplier Tax ID~

REF*RT*Payees Bank Routing ID~

REF*PY*Payees Bank Account ID~

REF*4B, REF*4C, REF*9S and REF*KK: The Loading Point, Storage Location, Transportation Zone and cRADCRS Indicator should only be used for the Sold To (N1*SO) and / or Ship To Party (N1*ST).

Example:

N1*ST*Ship To Name~

REF*4B*1234~

REF*4C*5678~

REF*9S*ABCD~

REF*KK*RAD~

REF*YD: The Buyer Additional Identification Number should only be used for the Buyer Party (N1*BY).

REF*ZA: The Supplier Additional Identification Number should only be used for the Supplier Party (N1*SU).

Example:

N1*BY*Buyer Name~

REF*YD*Buyer Additional ID~

N1*SU*Supplier Name~

REF*ZA*Supplier Additional ID~

PO1	M 100000	Line Item
N1	O 200	Party Identification
PER	O 3	Administrative Communications Contact

Standard X12				SAP Ariba Usage, allowed Codes	
01	366	Contact Function Code	M ID 2/2	M ID 2/2	<i>CN</i> General Contact <i>RE</i> Receiving Contact
02	93	Name	O AN 1/60	O AN 1/60	Party contact name Note: The example here shows a person's name. It is perfectly acceptable to put a category in PER02, such as "work", "mobile", "home", etc.. A suggestion here is that if N102 identifies a person, then categories are appropriate here.
03	365	Communication Number Qualifier	C ID 2/2	C ID 2/2	<i>EM</i> Electronic Mail <i>FX</i> Facsimile <i>TE</i> Telephone <i>UR</i> Uniform Resource Locator (URL)
04	364	Communication Number	C AN 1/80	C AN 1/80	Communication number
05	365	Communication Number Qualifier	C ID 2/2	C ID 2/2	<i>EM</i> Electronic Mail <i>FX</i> Facsimile <i>TE</i> Telephone <i>UR</i> Uniform Resource Locator (URL)
06	364	Communication Number	C AN 1/80	C AN 1/80	Communication number
07	365	Communication Number Qualifier	C ID 2/2	C ID 2/2	<i>EM</i> Electronic Mail <i>FX</i> Facsimile <i>TE</i> Telephone <i>UR</i> Uniform Resource Locator (URL)
08	364	Communication Number	C AN 1/80	C AN 1/80	Communication number
Example: PER*CN*Ship-To Contact Name*EM*e-mail Address*TE*Phone ID*UR*URL~ To identify a person or office to whom administrative communications should be directed.					

PO1	M 100000	Line Item
N1	O 200	Party Identification
TD5	O 12	Carrier Details - Transport Information

Standard X12				SAP Ariba Usage, allowed Codes	
01	133	Routing Sequence Code	O ID 1/2	O ID 1/2	<i>Z</i> <i>Mutually Defined</i>
02	66	Identification Code Qualifier	C ID 1/2	C ID 1/2	<i>ZZ</i> <i>Shipping Contract Number</i>
03	67	Identification Code	C AN 2/80	C AN 2/80	Shipping contract identification number
04	91	Transportation Method/Type Code	C ID 1/2	C ID 1/2	Transport mode <i>A</i> <i>Air</i> <i>J</i> <i>Motor</i> <i>R</i> <i>Rail</i> <i>S</i> <i>Ocean</i>
05	387	Routing	C AN 1/35	X	
06	368	Shipment/Order Status Code	C ID 2/2	X	
07	309	Location Qualifier	O ID 1/2	O ID 1/2	<i>ZZ</i> <i>Shipping Instructions</i>
08	310	Location Identifier	C AN 1/30	C AN 1/30	Shipping instruction Text
Example: TD5*Z*ZZ*Shipping Contract ID*A***ZZ*Shipping Instruction Text- To specify the mode, the contract identification number and further shipping instructions related to the transport. Note: Only used if N101="ST"					

PO1	M 100000	Line Item
N1	O 200	Party Identification
TD4	O 5	Carrier Details - Carrier Identification

Standard X12				SAP Ariba Usage, allowed Codes	
01	152	Special Handling Code	C ID 2/3	C ID 2/3	ZZZ <i>Mutually Defined</i>
02	208	Hazardous Material Code Qualifier	C ID 1/1	X	
03	209	Hazardous Material Class Code	C AN 1/4	X	
04	352	Description	C AN 1/80	C AN 1/80	Carrier identification
Example: TD4*ZZZ***Carrier Company Name XYZ@companyName~ To specify the carrier identification. The carrier identification presented in this TD4*ZZZ segment includes the related domain after the identification, starting with "@": <ID@domain> Examples: TD4*ZZZ***1234@SCAC~ or TD4*ZZZ***UPS@companyName~ Note: Only used if N101="ST"					

PO1	M 100000	Line Item
SLN	O 1000	Subcontracting Components
SLN	M 1	Subcontracting Components

Standard X12				SAP Ariba Usage, allowed Codes		
01	350	Assigned Identification	M AN 1/20	M AN 1/20		Component identification number
02	350	Assigned Identification	O AN 1/20	O AN 1/20		Schedule line number Refers to SCH11 of the preceding SCH segment.
03	662	Relationship Code	M ID 1/1	M ID 1/1	<i>O</i>	<i>Information Only</i>
04	380	Quantity	C R 1/15	C R 1/15		Ordered quantity
C001		Composite Unit of Measure	C	C		
355		Unit or Basis for Measurement Code	M ID 2/2	M ID 2/2		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Please refer to APPENDIX - CODELISTS 355 Unit or Basis for Measurement Code (UOM).
06	212	Unit Price	C R 1/17	X		
07	639	Basis of Unit Price Code	O ID 2/2	X		
08	662	Relationship Code	O ID 1/1	X		
09	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2	<i>BP</i> <i>VP</i> <i>VS</i>	<i>Buyer's Part Number</i> <i>Vendor's (Seller's) Part Number</i> <i>Vendor's Supplemental Item Number</i>
10	234	Product/Service ID	C AN 1/48	C AN 1/48		Item identification number
11	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2	<i>BP</i> <i>VP</i> <i>VS</i>	<i>Buyer's Part Number</i> <i>Vendor's (Seller's) Part Number</i> <i>Vendor's Supplemental Item Number</i>
12	234	Product/Service ID	C AN 1/48	C AN 1/48		Item identification number
13	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2	<i>BP</i> <i>VP</i> <i>VS</i>	<i>Buyer's Part Number</i> <i>Vendor's (Seller's) Part Number</i> <i>Vendor's Supplemental Item Number</i>
14	234	Product/Service ID	C AN 1/48	C AN 1/48		Item identification number
Example: SLN*C10*001*O*10.00*EA****BP*Buyer Component Part ID*VP*Supplier Component Part ID*VS*Supplier Supplemental component Part ID~ To specify the item subcontracting components related to the item schedule lines.						

PO1	M 100000	Line Item
SLN	O 1000	Subcontracting Components
MSG	O >1	Message Text

Standard X12				SAP Ariba Usage, allowed Codes			
01	933	Free-Form Message Text	M AN 1/264	M AN 1/264	Free-form message text		
Example: MSG*Free-Form-Description~ To provide a free-form format that allows the transmission of text information.							

PO1	M 100000	Line Item
SLN	O 1000	Subcontracting Components
DTM	O 10	Date/Time

Standard X12				SAP Ariba Usage, allowed Codes		
01	374	Date/Time Qualifier	M ID 3/3	M ID 3/3	106	Required By
02	373	Date	C DT 8/8	C DT 8/8	Date expressed as format CCYYMMDD	
03	337	Time	C TM 4/8	C TM 4/8	Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).	
04	623	Time Code	O ID 2/2	O ID 2/2	Code identifying the time zone Please refer to APPENDIX - CODELISTS 623 Time Code.	
Example: DTM*106*20160111*1020*CT~ To specify pertinent dates and times.						

PO1	M	100000	Line Item
SLN	O	1000	Subcontracting Components
N9	O	>1	Reference Identification
N9	M	1	Reference Identification

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	<i>BT</i> Supplier Batch Number <i>LT</i> Buyer Batch Number <i>4C</i> Storage Location
02	127	Reference Identification	C	AN 1/30	X		
03	369	Free-form Description	C	AN 1/45	C	AN 1/45	Identification Number

Example: N9*LTComponent Buyer Batch ID~**

To transmit identifying information as specified by the Reference Identification Qualifier.

Examples:

N9*BT**Component Supplier Batch ID~

N9*LT**Component Buyer Batch ID~

N9*4C**Storage Location ID~

PO1	M	100000	Line Item
SLN	O	1000	Subcontracting Components
N9	O	1	Material Provision Indicator - Subcontracting Type
N9	M	1	Material Provision Indicator - Subcontracting Type

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M ID 2/3	M	ID 2/3	SU Special Processing Code	
02	127	Reference Identification	C AN 1/30	C	AN 1/30	"materialProvisionIndicator"	
03	369	Free-form Description	C AN 1/45	C	AN 1/45	Material provision indicator/Subcontracting type	
Example: N9*SU*materialProvisionIndicator*reworkTo~ To transmit identifying information as specified by the Reference Identification Qualifier. This segment is used for the material provision indicator to identify the subcontracting type of a part for the components. Possible values are: "reworkTo" - Rework material to subcontractor. "reworkFrom" - Rework material from subcontractor. "regular" - Vendor provides stock. Example: N9*SU*materialProvisionIndicator*regular~							

CTT	O 1	Transaction Totals
CTT	M 1	Transaction Totals

Standard X12				SAP Ariba Usage, allowed Codes			
01	354	Number of Line Items	M	N0 1/6	M	N0 1/6	Number of line items
02	347	Hash Total	O	R 1/10	O	R 1/10	Hash total
Example: CTT*1*100~ To transmit a hash total for a specific element in the transaction set.							

CTT	O 1	Transaction Totals
AMT	M 1	Monetary Amount

Standard X12				SAP Ariba Usage, allowed Codes		
01	522	Amount Qualifier Code	M ID 1/3	M ID 1/3	TT	Total Transaction Amount
02	782	Monetary Amount	M R 1/18	M R 1/18	Total transaction amount	
Example: AMT*TT*640.00~ To indicate the total monetary amount. The total amount is a mandatory information.						

SE **M 1** **Transaction Set Trailer**

Standard X12				SAP Ariba Usage, allowed Codes		
01	96	Number of Included Segments	M NO 1/10	M	NO 1/10	Total number of segments included in a transaction set including ST and SE segments.
02	329	Transaction Set Control Number	M AN 4/9	M	AN 4/9	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.
Example: SE*97*0001~ To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).						

GE **C 1** **Functional Group Trailer**

Standard X12				SAP Ariba Usage, allowed Codes		
01	97	Number of Transaction Sets Included	M NO 1/6	M	NO 1/6	Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.
02	28	Group Control Number	M NO 1/9	M	NO 1/9	Assigned number originated and maintained by the sender.
Example: GE*1*1~ To indicate the end of a functional group and to provide control information.						

IEA	M 1	Interchange Control Trailer
------------	------------	------------------------------------

Standard X12				SAP Ariba Usage, allowed Codes		
01	I16	Number of Included Functional Groups	M N0 1/5	M	N0 1/5	A count of the number of functional groups included in an interchange.
02	I12	Interchange Control Number	M N0 9/9	M	N0 9/9	A control number assigned by the interchange sender.
Example: IEA*1*000000001~ To define the end of an interchange of zero or more functional groups and interchange-related control segments.						

DOCUMENTED EXAMPLE

Below you will find an example message.

Note that the examples are for illustrative purposes only, filled with comprehensible dummy values and must not to be understood as real messages.

Example

ISA*00* 00* *ZZ*SenderID *ZZ*ReceiverID *160104*0930*U*00401*000000001*0*T*>
GS*PO*SenderID*ReceiverID*20160104*093059*1*X*004010~
ST*850*0001~
BEG*00*DS*PurchaseOrderID*ReleaseID*20160104~
CUR*BY*USD*0.900*SE*EUR~
REF*VN*Supplier Order ID~
REF*PD*Promotional Deal ID*Promotional Deal Description~
REF*RPP*1*High Priority*RPP>Sequence ID~
REF*OL*FOB05*MyOwnTermsTransportTerms~
REF*ZZ*MutuallyDefinedIDName*Mutually Defined Identification~
PER*ZZ*CompanyCode ID*****CompanyCode~
FOB*DF*ZZ*Description*ZZ*EXW*ZZ* @TPTransport description@TODDelivery at the doorstep~
CSH*SC~
SAC*C*G830***4680*****SAC-Reference ID**SAC-Description*EN~
CUR*BY*USD*0.9*SE*EUR~
SAC*A*B660*ZZ**4680*6*0.12*****AMT_PRI*1*SAC-Description*EN~
CUR*BY*USD*****196*20160104*1010*197*20160104*1011~
ITD*05*3*****30*****PaymentTermsDescription****15~
DTM*004*20160104*093059*CT~
PID*F*93***Shipping Instruction Text****EN~
TXI*ZZ*10.00*10.00*CD*TaxLoc*0**100.00*CU*Description~
N9*PSM*0000000000000000*VISA~
DTM*036****UN*2021-03-12~
N9*U2**Terms~
MSG*Text*LC~
N9*43*External Document Reference*ERP Doc Type~
MSG*External Document Text*LC~
N9*L1*EN*Comments****L1>Reason~
MSG*Text*LC~
N9*KD*OCValue*allowed~
N9*ZZ**MutuallyDefinedIDName~
MSG*Mutually Defined Identification*LC~
N1*BT*Bill-To Name*92*Bill-To ID~
N2*Bill-To Addr Name 1*Bill-To Addr Name 2~
N3*Bill-To Street 1*Bill-To Street 2~
N4*Bill-To City**ZIP*AU*SP*NSW~
REF*AP**Accounts receivable ID~

Example

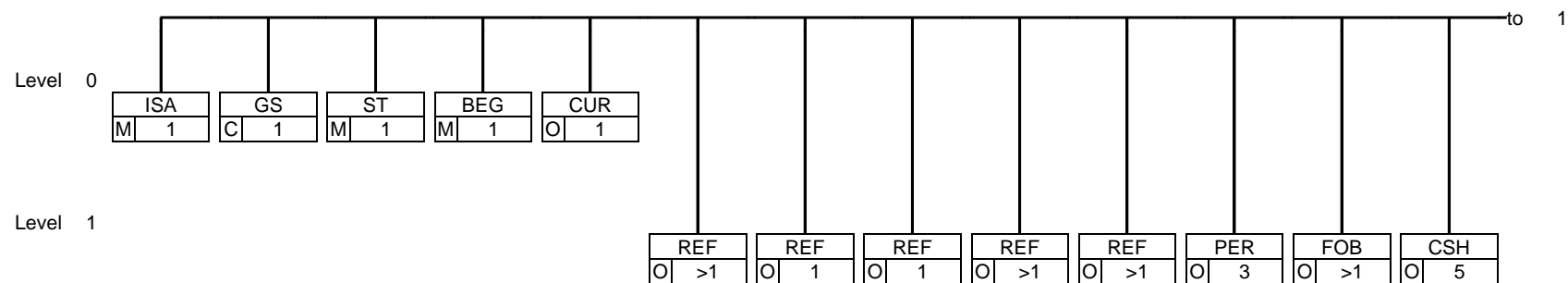
PER*AP*Contact Name*EM*e-mail Address*TE*Phone ID*UR*URL~
TD5*Z*ZZ*Shipping Contract ID*A***ZZ*Shipping Instruction Text~
TD4*ZZZ***Carrier Company Name XYZ@companyName~
PO1*10*100*EA*0.64**VP*Supplier Part ID*BP*Buyer Part ID*VS*Supplier Supplemental Part ID*MG*Manufacturer
Part ID*MF*Manufacturer Name*C3*Classification*EN*EAN Part ID*UP*UPC Package ID~
CUR*BY*USD*0.900*SE*EUR~
PO3*ZZ****ST*100*EA~
CTP*WS***100*EA*CSD*0.7~
CTP*TR*MAX*1000.00~
CUR*BY*USD*0.9*SE*EUR~
MEA*PD*G*100.00*KG~
PID*F*GEN***Free-Form-Description-Text****EN~
PID*F*93***Shipping Instruction Text****EN~
PID*F*21***Configurable Material~
PID*F*12***material~
PID*S*MAC*UN*451215***SPSC~
REF*ZA*Supplier ID*DUNS~
REF*OL*FOB05*MyOwnTermsTransportTerms~
REF*FL**lean~
REF*KQ*consignment~
REF*ZZ*MutuallyDefinedIDName*Mutually Defined Identification~
SAC*C*G830***4680*****SAC-Reference ID**SAC-Description*EN~
CUR*BY*USD*0.9*SE*EUR~
SAC*C*D240*ZZ**4680*6*0.12*****AMT_PRI*1*SAC-Description*EN~
CUR*BY*USD*****196*20160104*1010*197*20160104*1011~
FOB*DF*ZZ*Description*01*EXW*ZZ*@TPTransport description@TODDelivery at the doorstep~
SDQ*EA*54*Store ID*100~
DTM*002*20160111*101059*CT~
TXI*ZZ*10.00*10.00*CD*TaxLoc*0**100.00*CU*Description~
QTY*7D*100~
SCH*100*EA*ST*Ship-To Name*002*20160111*083059*010*20160113*183159*001*20160113~
REF*CT*Contract ID~
PKG*F*01*ZZ*Code*Packaging Description~
MEA*PD*G*100.00*KG~
N9*PRT*size~
MSG*Large~
N9*ACE*requiresServiceEntry*yes~

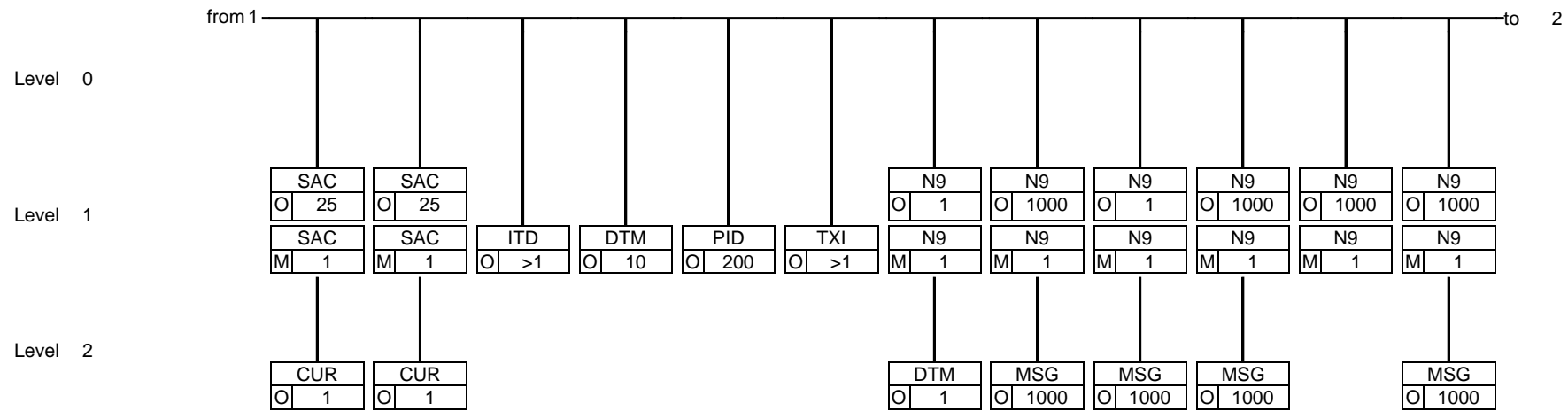
Example

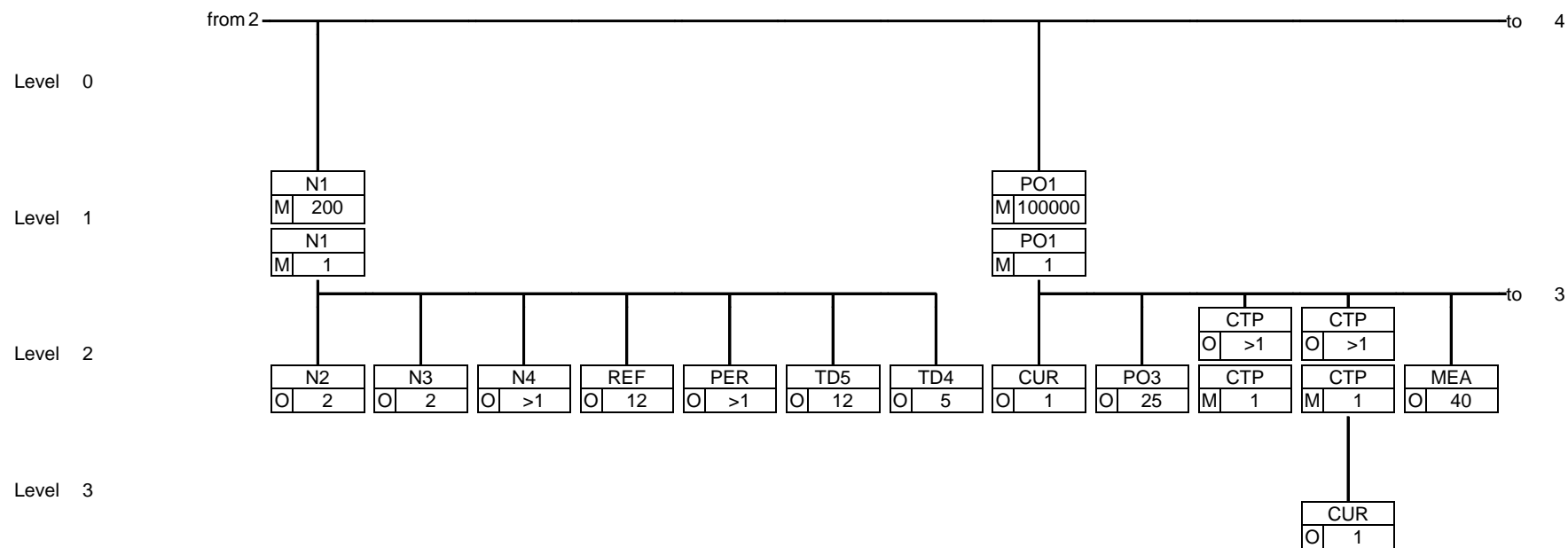
N9*H6*yes*Control code****H6>Control Code ID~
MSG*Control Code Text~
N9*0L*PO ID*ProductionOrder*20160130*093059*CT*LI>01>72>001~
N9*L1*EN*Comments****L1>Reason~
MSG*Text*LC~
N9*URL*URL*URL Reference~
MSG*http://www.url/~
N9*KD*OCValue*allowed~
N9*ZZ**MutuallyDefinedIDName~
MSG*Mutually Defined Identification*LC~
N1*ST*Ship-To Name*92*Ship-To ID~
N2*Ship-To Addr Name 1*Ship-To Addr Name 2~
N3*Ship-To Street 1*Ship-To Street 2~
N4*Ship-To City**ZIP*AU*SP*NSW~
REF*AP**Accounts receivable ID~
PER*CN*Ship-To Contact Name*EM*e-mail Address*TE*Phone ID*UR*URL~
TD5*Z*ZZ*Shipping Contract ID*A***ZZ*Shipping Instruction Text~
TD4*ZZZ***Carrier Company Name XYZ@companyName~
SLN*C10*001*O*10.00*EA****BP*Buyer Component Part ID*VP*Supplier Component Part ID*VS*Supplier Supplemental component Part ID~
MSG*Free-Form-Description~
DTM*106*20160111*1020*CT~
N9*LT**Component Buyer Batch ID~
N9*SU*materialProvisionIndicator*reworkTo~
CTT*1*100~
AMT*TT*640.00~
SE*97*0001~
GE*1*1~
IEA*1*000000001~

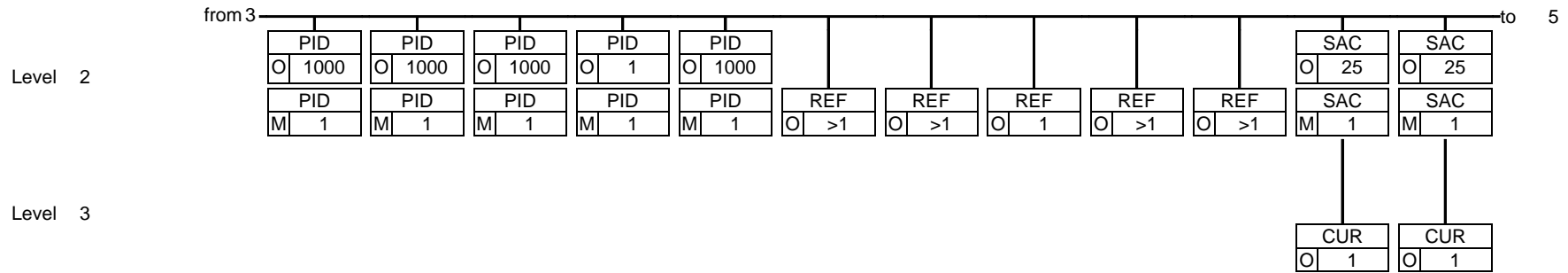
APPENDIX – BRANCHING DIAGRAM

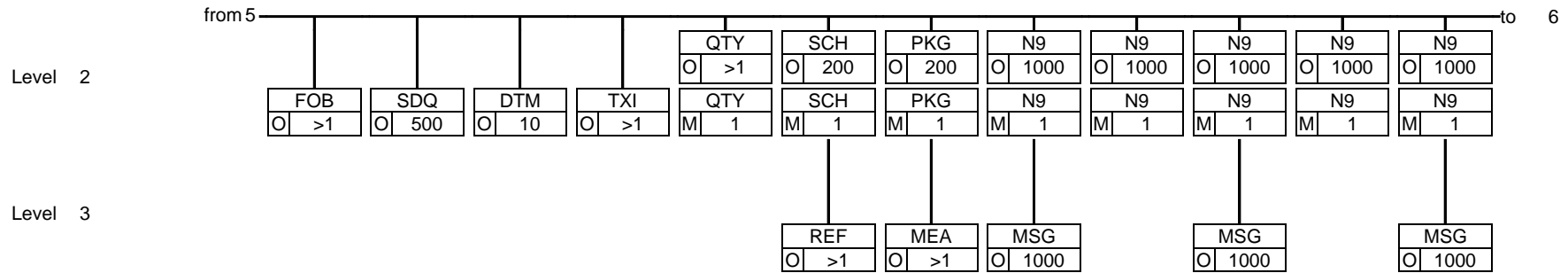
Below you will find a branching diagram for the message which graphically outlines the hierarchical structure and the interdependence between the different segments.

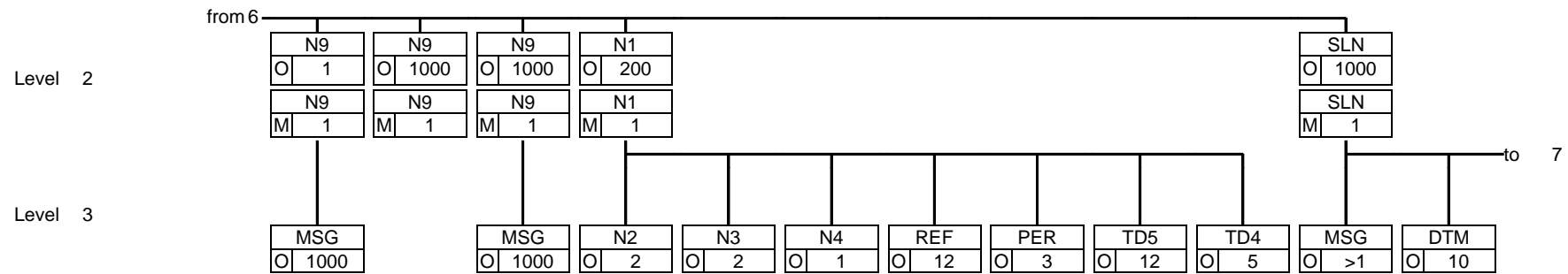


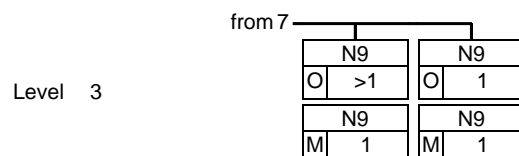


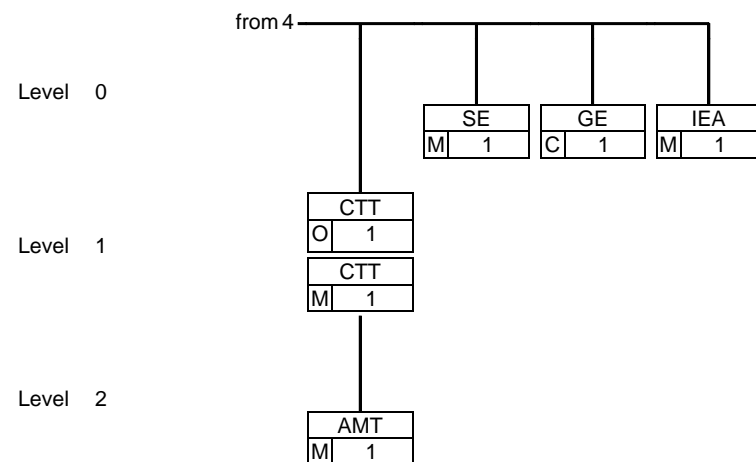












APPENDIX – CODELISTS

26 Country Code	
AF	Afghanistan
AD	Andorra
AE	United Arab Emirates
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antiles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AX	Åland Islands
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BL	Saint BarthÉlemy
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BQ	Bonaire, Sint Eustatius and Saba
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada

26 Country Code	
CC	Cocos (Keeling) Islands
CD	Congo, The Democratic Republic of the
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CW	Curaçao
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom

26 Country Code	
GD	Grenada
GE	Georgia
GF	French Guiana
GG	Guernsey
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IM	Isle of Man
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran, Islamic Republic of
IS	Iceland
IT	Italy
JE	Jersey
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia

26 Country Code	
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libya
MA	Morocco
MC	Monaco
MD	Moldova
ME	Montenegro
MF	Saint Martin (French Part)
MG	Madagascar
MH	Marshall Islands
MK	Macedonia
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macao
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico

26 Country Code	
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PS	Palestine, State of
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Reunion
RO	Romania
RS	Serbia
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden

26 Country Code	
SG	Singapore
SH	Saint Helena, Ascension and Tristan Da Cunha
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
SS	South Sudan
ST	Sao Tome and Principe
SV	El Salvador
SX	Sint Maarten (Dutch Part)
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TL	Timor-Leste
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan, Province of China
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Holy See (Vatican City State)

26 Country Code

VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands, British
VI	Virgin Islands, U.S.
VN	Viet Nam
VU	Vanuatu
WF	Wallis and Futuna
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

146 Shipment Method of Payment

* Note that DF has different meanings and should be used only in conjunction with the description.

11	Rule11Shipment
BP	PaidByBuyer
CA	AdvanceCollect
CC	Collect
CD	CollectOnDelivery
CF	CollectFreightCreditedToPaymentCustomer
DE	PerContract
DF	Account
DF	CashOnDeliveryServiceChargePaidByConsignee
DF	CashOnDeliveryServiceChargePaidByConsignor
DF	DefinedByBuyerAndSeller
DF	InformationCopy-NoPaymentDue
DF	InsuranceCostsPaidByConsignee
DF	InsuranceCostsPaidByConsignor
DF	NotSpecified
DF	PayableElsewhere
DF	Other
FO	FobPortOfCall
HP	HalfPrepaid
MX	Mixed
NC	ServiceFreight-NoCharge
NR	NonRevenue
PA	AdvancePrepaid

146 Shipment Method of Payment

PB	CustomerPick-UpOrBackhaul
PC	PrepaidButChargedToCustomer
PD	PrepaidByProcessor
PE	PrepaidAndSummaryBill
PL	PrepaidLocalCollectOutstate
PO	PrepaidOnly
PP	Prepaid-BySeller
PS	PaidBySupplierOrSeller
PU	Pickup
RC	ReturnContainerFreightPaidByCustomer
RF	ReturnContainerFreightFree
RS	ReturnContainerFreightPaidBySupplier
TP	ThirdPartyPay
WC	WeightCondition

156 State or Province Code

AB	Alberta
AK	Alaska
AL	Alabama
AR	Arkansas
AS	American Samoa
AZ	Arizona
BC	British Columbia
CA	California
CO	Colorado
CT	Connecticut
DC	District of Columbia
DE	Delaware
FL	Florida
FM	Federated States of Micronesia
GA	Georgia
GU	Guam
HI	Hawaii
IA	Iowa
ID	Idaho
IL	Illinois
IN	Indiana
KS	Kansas
KY	Kentucky
LA	Louisiana
MA	Massachusetts
MB	Manitoba
MD	Maryland

156 State or Province Code	
ME	Maine
MH	Marshall Islands
MI	Michigan
MN	Minnesota
MO	Missouri
MP	Northern Mariana Islands
MS	Mississippi
MT	Montana
NB	New Brunswick
NC	North Carolina
ND	North Dakota
NE	Nebraska
NF	Newfoundland
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NS	Nova Scotia
NT	Northwest Territories
NU	Nunavut
NV	Nevada
NY	New York
OH	Ohio
OK	Oklahoma
ON	Ontario
OR	Oregon
PA	Pennsylvania
PE	Prince Edward Island
PR	Puerto Rico
PW	Palau
QC	Quebec
RI	Rhode Island
SC	South Carolina
SD	South Dakota
SK	Saskatchewan
TN	Tennessee
TX	Texas
UT	Utah
VA	Virginia
VI	Virgin Islands
VT	Vermont
WA	Washington
WI	Wisconsin
WV	West Virginia

156 State or Province Code

WY	Wyoming
YT	Yukon

355 Unit or Basis for Measurement Code (UOM)

02	Statute Mile
03	Seconds
08	Heat Lots
10	Group
11	Outfit
12	Packet
13	Ration
14	Shot
15	Stick
16	115 Kilogram Drum
17	100 Pound Drum
18	55 Gallon Drum
19	Tank Truck
20	20 Foot Container
21	40 Foot Container
22	Deciliter per Gram
23	Grams per Cubic Centimeter
24	Theoretical Pounds
25	Grams per Square Centimeter
26	Actual Tons
27	Theoretical Tons
28	Kilograms per Square Meter
29	Pounds per 1000 Square Feet
30	Horsepower Days per Air Dry Metric Tons
31	Catchweight
32	Kilograms per Air Dry Metric Tons
33	Kilopascal Square Meters per Gram
34	Kilopascals per Millimeter
35	Milliliters per Square Centimeter Second
36	Cubic Feet per Minute per Square Foot
37	Ounces per Square Foot
38	Ounces per Square Foot per 0.01 Inch

355 Unit or Basis for Measurement Code (UOM)

40	Milliliter per Second
41	Milliliter per Minute
43	Super Bulk Bag
44	500 Kilogram Bulk Bag
45	300 Kilogram Bulk Bag
46	25 Kilogram Bulk Bag
47	50 Pound Bag
48	Bulk Car Load
53	Theoretical Kilograms
54	Theoretical Tonnes
56	Sitas
57	Mesh
58	Net Kilograms
59	Parts Per Million
60	Percent Weight
61	Parts Per Billion
62	Percent Per 1000 Hours
63	Failure Rate In Time
64	Pounds Per Square Inch Gauge
65	Coulomb
66	Oersteds
67	Siemens
68	Ampere
69	Test Specific Scale
70	Volt
71	Volt-Ampere Per Pound
72	Watts Per Pound
73	Ampere Turn Per Centimeter
74	Milli Pascals
76	Gauss
77	Mil
78	Kilogauss
79	Electron Volt
80	Pounds Per Square Inch Absolute
81	Henry
82	Ohm

355 Unit or Basis for Measurement Code (UOM)

83	Farad
84	Kilo Pounds Per Square Inch (KSI)
85	Foot Pounds
86	Joules
87	Pounds per Cubic Foot
89	Poise
90	Saybold Universal Second
91	Stokes
92	Calories per Cubic Centimeter
93	Calories per Gram
94	Curl Units
95	20,000 Gallon Tankcar
96	10,000 Gallon Tankcar
97	10 Kilogram Drum
98	15 Kilogram Drum
1A	Car Mile
1B	Car Count
1C	Locomotive Count
1D	Caboose Count
1E	Empty Car
1F	Train Mile
1G	Fuel Usage (Gallons)
1H	Caboose Mile
1I	Fixed Rate
1J	Ton Miles
1K	Locomotive Mile
1L	Total Car Count
1M	Total Car Mile
1X	Quarter Mile
2A	Radians Per Second
2B	Radians Per Second Squared
2C	Roentgen
2I	British Thermal Units (BTUs) Per Hour
2J	Cubic Centimeters Per Second
2K	Cubic Feet Per Hour
2L	Cubic Feet Per Minute

355 Unit or Basis for Measurement Code (UOM)

2M	Centimeters Per Second
2N	Decibels
2P	Kilobyte
2Q	Kilobecquerel
2R	Kilocurie
2U	Megagram
2V	Megagrams Per Hour
2W	Bin
2X	Meters Per Minute
2Y	Milliroentgen
2Z	Millivolts
3B	Megajoule
3C	Manmonth
3E	Pounds Per Pound of Product
3F	Kilograms Per Liter of Product
3G	Pounds Per Piece of Product
3H	Kilograms Per Kilogram of Product
3I	Kilograms Per Piece of Product
4A	Bobbin
4B	Cap
4C	Centistokes
4D	Curie
4E	20-Pack
4F	100-Pack
4G	Microliter
4H	Micrometer
4I	Meters Per Second
4J	Meters Per Second Per Second
4K	Milliamperes
4L	Megabyte
4M	Milligrams Per Hour
4N	Megabecquerel
4O	Microfarad
4P	Newtons Per Meter
4Q	Ounce Inch
4R	Ounce Foot

355 Unit or Basis for Measurement Code (UOM)

4S	Pascal
4T	Picofarad
4U	Pounds Per Hour
4V	Cubic Meter Per Hour
4W	Ton Per Hour
4X	Kiloliter Per Hour
5A	Barrels per Minute
5B	Batch
5C	Gallons per Thousand
5E	MMSCF/Day
5F	Pounds per Thousand
5G	Pump
5H	Stage
5I	Standard Cubic Foot
5J	Hydraulic Horse Power
5K	Count per Minute
5P	Seismic Level
5Q	Seismic Line
A8	Dollars per Hours
AA	Ball
AB	Bulk Pack
AC	Acre
AD	Bytes
AE	Amperes per Meter
AF	Centigram
AH	Additional Minutes
AI	Average Minutes Per Call
AJ	Cop
AK	Fathom
AL	Access Lines
AM	Ampoule
AP	Aluminum Pounds Only
AQ	Anti-hemophilic Factor (AHF) Units
AR	Suppository
AS	Assortment
AT	Atmosphere

355 Unit or Basis for Measurement Code (UOM)

AV	Capsule
AW	Powder-Filled Vials
AY	Assembly
AZ	British Thermal Units (BTUs) per Pound
B0	British Thermal Units (BTUs) per Cubic Foot
B1	Barrels per Day
B2	Bunks
B3	Batting Pound
B4	Barrel, Imperial
B5	Billet
B6	Bun
B7	Cycles
B8	Board
B9	Batt
BA	Bale
BB	Base Box
BC	Bucket
BD	Bundle
BE	Beam
BF	Board Feet
BG	Bag
BH	Brush
BI	Bar
BJ	Band
BK	Book
BL	Block
BM	Bolt
BN	Bulk
BO	Bottle
BP	100 Board Feet
BQ	Brake horse power
BR	Barrel
BS	Basket
BT	Belt
BU	Bushel
BV	Bushel, Dry Imperial

355 Unit or Basis for Measurement Code (UOM)

BW	Base Weight
BX	Box
BY	British Thermal Unit (BTU)
BZ	Million BTU&
C0	Calls
C1	Composite Product Pounds (Total Weight)
C2	Carset
C3	Centiliter
C4	Carload
C5	Cost
C6	Cell
C7	Centipoise (CPS)
C8	Cubic Decimeter
C9	Coil Group
CA	Case
CB	Carboy
CC	Cubic Centimeter
CE	Centigrade, Celsius
CF	Cubic Feet
CG	Card
CH	Container
CI	Cubic Inches
CJ	Cone
CK	Connector
CL	Cylinder
CM	Centimeter
CN	Can
CO	Cubic Meters (Net)
CP	Crate
CQ	Cartridge
CR	Cubic Meter
CS	Cassette
CT	Carton
CU	Cup
CV	Cover
CW	Hundred Pounds (CWT)

355 Unit or Basis for Measurement Code (UOM)

CX	Coil
CY	Cubic Yard
CZ	Combo
D3	Square Decimeter
D5	Kilogram Per Square Centimeter
D8	Draize Score
D9	Dyne per Square Centimeter
DA	Days
DB	Dry Pounds
DC	Disk (Disc)
DD	Degree
DE	Deal
DF	Dram
DG	Decigram
DI	Dispenser
DJ	Decagram
DK	Kilometers
DL	Deciliter
DM	Decimeter
DN	Deci Newton-Meter
DP	Dozen Pair
DQ	Data Records
DR	Drum
DS	Display
DT	Dry Ton
DU	Dyne
DX	Dynes per Centimeter
DY	Directory Books
DZ	Dozen
EA	Each
EB	Electronic Mail Boxes
EC	Each per Month
EP	Eleven pack
EQ	Equivalent Gallons
EV	Envelope
F1	Thousand Cubic Feet Per Day

355 Unit or Basis for Measurement Code (UOM)

F9	Fibers per Cubic Centimeter of Air
FA	Fahrenheit
FB	Fields
FC	1000 Cubic Feet
FD	Million Particles per Cubic Foot
FE	Track Foot
FF	Hundred Cubic Meters
FG	Transdermal Patch
FH	Micromolar
FL	Flake Ton
FM	Million Cubic Feet
FO	Fluid Ounce
FP	Pounds per Sq. Ft.
FR	Feet Per Minute
FS	Feet Per Second
FT	Foot
FZ	Fluid Ounce (Imperial)
G2	U.S. Gallons Per Minute
G3	Imperial Gallons Per Minute
G4	Gigabecquerel
G5	Gill (Imperial)
G7	Microfiche Sheet
GA	Gallon
GB	Gallons/Day
GC	Grams per 100 Grams
GD	Gross Barrels
GE	Pounds per Gallon
GG	Great Gross (Dozen Gross)
GH	Half Gallon
GI	Imperial Gallons
GJ	Grams per Milliliter
GK	Grams per Kilogram
GL	Grams per Liter
GM	Grams per Sq. Meter
GN	Gross Gallons
GO	Milligrams per Square Meter

355 Unit or Basis for Measurement Code (UOM)

GP	Milligrams per Cubic Meter
GQ	Micrograms per Cubic Meter
GR	Gram
GS	Gross
GT	Gross Kilogram
GV	Gigajoules
GW	Gallons Per Thousand Cubic Feet
GX	Grain
GY	Gross Yard
GZ	Gage Systems
H1	Half Pages - Electronic
H2	Half Liter
H4	Hectoliter
HA	Hank
HB	Hundred Boxes
HC	Hundred Count
HD	Half Dozen
HE	Hundredth of a Carat
HF	Hundred Feet
HG	Hectogram
HH	Hundred Cubic Feet
HI	Hundred Sheets
HJ	Horsepower
HK	Hundred Kilograms
HL	Hundred Feet - Linear
HM	Miles Per Hour
HN	Millimeters of Mercury
HO	Hundred Troy Ounces
HP	Millimeter H2O
HR	Hours
HS	Hundred Square Feet
HT	Half Hour
HU	Hundred
HW	Hundred Weight (Long)
HY	Hundred Yards
HZ	Hertz

355 Unit or Basis for Measurement Code (UOM)

IA	Inch Pound
IC	Counts per Inch
IE	Person
IF	Inches of Water
II	Column-Inches
IL	Inches per Minute
IM	Impressions
IN	Inch
IP	Insurance Policy
IT	Counts per Centimeter
IU	Inches Per Second (Linear Speed)
IV	Inches Per Second Per Second (Acceleration)
J2	Joule Per Kilogram
JA	Job
JB	Jumbo
JE	Joule Per Kelvin
JG	Joule per Gram
JK	Mega Joule per Kilogram
JM	Megajoule/Cubic Meter
JO	Joint
JR	Jar
JU	Jug
K1	Kilowatt Demand
K2	Kilovolt Amperes Reactive Demand
K3	Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes
K5	Kilovolt Amperes Reactive
K6	Kiloliter
K7	Kilowatt
KA	Cake
KB	Kilocharacters
KC	Kilograms per Cubic Meter
KD	Kilograms Decimal
KE	Keg
KF	Kilopackets
KG	Kilogram

355 Unit or Basis for Measurement Code (UOM)

KH	Kilowatt Hour
KI	Kilograms/Millimeter Width
KJ	Kilosegments
KL	Kilograms/Meter
KP	Kilometers Per Hour
KQ	Kilopascal
KR	Kiloroentgen
KS	1000 Pounds per Square Inch
KT	Kit
KU	Task
KV	Kelvin
KW	Kilograms per Millimeter
KX	Milliliters per Kilogram
L2	Liters Per Minute
LA	Pounds Per Cubic Inch
LB	Pound
LC	Linear Centimeter
LE	Lite
LF	Linear Foot
LG	Long Ton
LH	Labor Hours
LI	Linear Inch
LJ	Large Spray
LK	Link
LM	Linear Meter
LN	Length
LO	Lot
LP	Liquid Pounds
LQ	Liters Per Day
LR	Layer(s)
LS	Lump Sum
LT	Liter
LX	Linear Yards Per Pound
LY	Linear Yard
M0	Magnetic Tapes
M1	Milligrams per Liter

355 Unit or Basis for Measurement Code (UOM)

M3	Mat
M4	Monetary Value
M5	Microcurie
M6	Millibar
M7	Micro Inch
M8	Mega Pascals
M9	Million British Thermal Units per One Thousand Cubic Feet
MA	Machine/Unit
MC	Microgram
MD	Air Dry Metric Ton
ME	Milligram
MF	Milligram per Sq. Ft. per Side
MJ	Minutes
MK	Milligrams Per Square Inch
ML	Milliliter
MM	Millimeter
MN	Metric Net Ton
MO	Months
MP	Metric Ton
MQ	1000 Meters
MR	Meter
MS	Square Millimeter
MT	Metric Long Ton
MU	Millicurie
MV	Number of Mults
N1	Pen Calories
N2	Number of Lines
N3	Print Point
N4	Pen Grams (Protein)
N6	Megahertz
NA	Milligrams per Kilogram
NB	Barge
NC	Car
ND	Net Barrels
NE	Net Liters
NF	Messages

355 Unit or Basis for Measurement Code (UOM)

NG	Net Gallons
NH	Message Hours
NI	Net Imperial Gallons
NJ	Number of Screens
NL	Load
NM	Nautical Mile
NN	Train
NQ	Mho
NR	Micro Mho
NT	Trailer
NU	Newton-Meter
NV	Vehicle
NW	Newton
NX	Parts Per Thousand
NY	Pounds Per Air-Dry Metric Ton
OA	Panel
ON	Ounces per Square Yard
OP	Two pack
OT	Overtime Hours
OZ	Ounce - Av
P0	Pages - Electronic
P1	Percent
P2	Pounds per Foot
P3	Three pack
P4	Four-pack
P5	Five-pack
P6	Six pack
P7	Seven pack
P8	Eight-pack
P9	Nine pack
PA	Pail
PB	Pair Inches
PC	Piece
PD	Pad
PE	Pounds Equivalent
PF	Pallet (Lift)

355 Unit or Basis for Measurement Code (UOM)

PG	Pounds Gross
PI	Pitch
PK	Package
PL	Pallet/Unit Load
PM	Pounds-Percentage
PN	Pounds Net
PO	Pounds per Inch of Length
PP	Plate
PQ	Pages per Inch
PR	Pair
PS	Pounds per Sq. Inch
PT	Pint
PU	Mass Pounds
PV	Half Pint
PW	Pounds per Inch of Width
PX	Pint, Imperial
PY	Peck, Dry U.S.
PZ	Peck, Dry Imperial
Q1	Quarter (Time)
Q2	Pint U.S. Dry
Q3	Meal
QA	Pages - Facsimile
QB	Pages - Hardcopy
QD	Quarter Dozen
QH	Quarter Hours
QK	Quarter Kilogram
QR	Quire
QS	Quart, Dry U.S.
QT	Quart
QU	Quart, Imperial
R1	Pica
R2	Becquerel
R3	Revolutions Per Minute
R4	Calorie
R9	Thousand Cubic Meters
RA	Rack

355 Unit or Basis for Measurement Code (UOM)

RD	Rod (length) - 5.5 Yards
RE	Reel
RG	Ring
RH	Running or Operating Hours
RK	Roll-Metric Measure
RL	Roll
RM	Ream
RN	Ream-Metric Measure
RO	Round
RP	Pounds per Ream
RS	Resets
RT	Revenue Ton Miles
RU	Run
S3	Square Feet per Second
S4	Square Meters per Second
S5	Sixty-fourths of an Inch
S6	Sessions
S7	Storage Units
S8	Standard Advertising Units (SAUs)
S9	Slip Sheet
SA	Sandwich
SB	Square Mile
SC	Square Centimeter
SD	Solid Pounds
SE	Section
SF	Square Foot
SG	Segment
SH	Sheet
SI	Square Inch
SJ	Sack
SK	Split Tanktruck
SL	Sleeve
SM	Square Meter
SN	Square Rod
SO	Spool
SP	Shelf Package

355 Unit or Basis for Measurement Code (UOM)

SQ	Square
SR	Strip
SS	Sheet-Metric Measure
ST	Set
SV	Skid
SW	Skein
SX	Shipment
SY	Square Yard
T0	Telecommunications Lines in Service
T1	Thousand pounds gross
T3	Thousand Pieces
T4	Thousand Bags
T5	Thousand Casings
T6	Thousand Gallons
T7	Thousand Impressions
T8	Thousand Linear Inches
T9	Thousand Kilowatt Hours
TA	Tenth Cubic Foot
TB	Tube
TC	Truckload
TD	Therms
TE	Tote
TF	Ten Square Yards
TG	Gross Ton
TH	Thousand
TI	Thousand Square Inches
TJ	Thousand Sq. Centimeters
TK	Tank
TL	Thousand Feet (Linear)
TM	Thousand Feet (Board)
TN	Net Ton (2,000 LB).
TO	Troy Ounce
TP	Ten-pack
TQ	Thousand Feet
TR	Ten Square Feet
TS	Thousand Square Feet

355 Unit or Basis for Measurement Code (UOM)

TT	Thousand Linear Meters
TU	Thousand Linear Yards
TV	Thousand Kilograms
TW	Thousand Sheets
TX	Troy Pound
TY	Tray
U1	Treatments
U2	Tablet
UA	Torr
UB	Telecommunications Lines in Service - Average
UC	Telecommunications Ports
UD	Tenth Minutes
UE	Tenth Hours
UF	Usage per Telecommunications Line - Average
UH	Ten Thousand Yards
UM	Million Units
UN	Unit
VA	Volt-ampere per Kilogram
VI	Vial
VS	Visit
W2	Wet Kilo
WA	Watts per Kilogram
WB	Wet Pound
WE	Wet Ton
WG	Wine Gallon
WH	Wheel
WI	Weight per Square Inch
WK	Week
WM	Working Months
WP	Pennyweight
WR	Wrap
WW	Milliliters of Water
X1	Chains (Land Survey)
YD	Yard
YL	100 Lineal Yards
YR	Years

355 Unit or Basis for Measurement Code (UOM)

YT	Ten Yards
Z1	Lift Van
Z2	Chest
Z3	Cask
Z4	Hogshead
Z5	Lug
Z6	Conference Points
Z8	Newspaper Agate Line
ZP	Page
ZZ	Used for any other code excluded from this list

623 Time Code

1	Equivalent to ISO P01
2	Equivalent to ISO P02
3	Equivalent to ISO P03
4	Equivalent to ISO P04
5	Equivalent to ISO P05
6	Equivalent to ISO P06
7	Equivalent to ISO P07
8	Equivalent to ISO P08
9	Equivalent to ISO P09
10	Equivalent to ISO P10
11	Equivalent to ISO P11
12	Equivalent to ISO P12
13	Equivalent to ISO M12
14	Equivalent to ISO M11
15	Equivalent to ISO M10
16	Equivalent to ISO M09
17	Equivalent to ISO M08
18	Equivalent to ISO M07
19	Equivalent to ISO M06
20	Equivalent to ISO M05
21	Equivalent to ISO M04
22	Equivalent to ISO M03
23	Equivalent to ISO M02
24	Equivalent to ISO M01
AD	Alaska Daylight Time
AS	Alaska Standard Time
AT	Alaska Time

623 Time Code

CD	Central Daylight Time
CS	Central Standard Time
CT	Central Time
ED	Eastern Daylight Time
ES	Eastern Standard Time
ET	Eastern Time
GM	Greenwich Mean Time
HD	Hawaii-Aleutian Daylight Time
HS	Hawaii-Aleutian Standard Time
MD	Mountain Daylight Time
MS	Mountain Standard Time
MT	Mountain Time
ND	Newfoundland Daylight Time
NS	Newfoundland Standard Time
NT	Newfoundland Time
PD	Pacific Daylight Time
PS	Pacific Standard Time
PT	Pacific Time
TD	Atlantic Daylight Time
TS	Atlantic Standard Time
TT	Atlantic Time
UT	Universal Time Coordinate

© 2017 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries.

Please see <http://global12.sap.com/corporate-en/legal/copyright/index.epx> for additional trademark information and notices.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors.

National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice.

The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality.

All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations.

Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions. should not be relied upon in making purchasing decisions.