



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

IN810 (4010)

Invoice

Inbound

Version: 2.7 Jul-24, 2020

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DOCUMENT REVISION HISTORY

Version	Date	Name	Modification Details
1.0	Nov-18, 2016	SAP Ariba	Initial Draft
1.1	Feb-16, 2017	SAP Ariba	Summary Invoice supported
1.2	Mar-13, 2107	SAP Ariba	TXI – Sugar Tax (Sugar fee) supported
1.3	Apr-10, 2017	SAP Ariba	TDS – Usage description updated
1.4	May-05, 2017	SAP Ariba	355 Unit or Basis for Measurement Code (UOM) - Update of Code List
1.5	Jun-06, 2017	SAP Ariba	IT1 235/234 – Classification Code for Service Item added (C3)
1.6	Aug-24, 2017	SAP Ariba	N1*RB – Wire Receiving Bank added NTE*REG/*CBH, N1/PER*RG – Legal Information added IT1 235/234 – Allow Product/Service ID's in any order IT1/REF*MA – Ship Notice Line Number added IT1/SAC*C*H850/TXI10 – Tax Point Date added SAC*C*H850/TXI10 – Tax Point Date added 355 Unit or Basis for Measurement Code (UOM) - Update of Code List
1.7	Sep-22, 2017	SAP Ariba	TDS – Gross Amount and Subtotal Amount exchanged AMT*1 / AMT*N and AMT*BAP – Amounts added AMT03 – Optional Credit/Debit Flag Code removed
1.8	Oct-06, 2017	SAP Ariba	ITD14 – Payment Method added IT1/REF*KK – Delivery Note Number added
1.9	Jan-05, 2018	SAP Ariba	N405 + N406 – State Code for countries other than US or CA added 355 Unit or Basis for Measurement Code (UOM) - Update of Code List Supplier Guideline "Notes" updated (Page 4 – types of invoices) BIG – Credit Memo/Debit Memo additions
2.0	Apr-06, 2018	SAP Ariba	Format globalization edits – Multiple enhancements: BIG07 – Line level Debit Memo (640=DC) added (restricted use) BIG08 – Transaction Set Purpose Code "Delete" now supported REF*CR – Customer Reference Number added REF*RV – Receiving Advice Number added REF*4N – Payment Proposal Number added N1/REF*ME – Postal Address or ID added DTM*050 – Receiving Advice Date added IT1/PAM****GW – Total Charges Amount added IT1/PAM****EC – Total Allowances Amount added IT1/PAM****ZZ – Total Amount Without Tax added (reserved) IT1/REF*FL – Usage extended (Parent Item Information) IT1/REF*RV – Receiving Advice Number and Line Number added IT1/REF*PD – Promotional Deal Number added IT1/REF*ACE – Service Entry Number added IT1/REF*L1 – Detail Item Comments added YNQ – Return Item and ad-hoc Item Indicator added IT1/DTM*472 – Service Entry Date added IT1/SAC12 – Method of Handling Codes extended N1/REF*ME – Postal Address or ID added
2.1	Jun-22, 2018	SAP Ariba	PAM****ZZ – Total Amount Without Tax added
2.2	Sep-28, 2018	SAP Ariba	SAC/TXI – Alternate tax amount added IT1/SAC/TXI – Alternate tax amount added AMT – Additional alternate amounts added
2.3	Oct-11, 2018	SAP Ariba	ITD01 – Changed to "Optional" ITD02 – Changed to "Optional" ITD04 – Discount due date added IT1 235/234 – U.P.C. Consumer Package Code added (UP)
2.4	Dec-10, 2018	SAP Ariba	TXI01 – Tax category "ZZ" added
2.5	Dec-23, 2019	SAP Ariba	CUR03 – Tax exchange rate mapping added N1*BK – Receiving correspondent bank added IT1/REF*BT – Supplier batch id added IT1/REF*FL – Item type "lean" added
2.6	Jun-25, 2020	SAP Ariba	SAC02 – Service, Promotion, Allowance, or Charge Codes extended IT1/SAC02 – Service, Promotion, Allowance, or Charge Codes extended
2.7	Jul-24, 2020	SAP Ariba	BIG03-04 – Added comment on multiple PO scenario REF – Added comment on multiple PO scenario

Version	Date	Name	Modification Details
			IT1/REF – Added comment on multiple PO scenario IT1/REF*PO – Line level Purchase Order Number information added to accommodate multiple PO scenario

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 Invoice Transaction Set (810) 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 billing for goods and services provided.

NOTES

Ariba Network allows suppliers to send invoices to buying organizations in the form of cXML InvoiceDetailRequest documents.

As a service to suppliers preferring to transact via EDI, Ariba Network accepts the ANSI X12 004010 810 (Invoice) transaction set and translates it to a cXML InvoiceDetailRequest. Because the 810 implementation ultimately maps to an InvoiceDetailRequest, it must conform to its rules. On receiving an 810 (documented here), Ariba Network validates the EDI content, returns a 997 to the Supplier, and then converts it to the cXML InvoiceDetailRequest. The final cXML document is internally posted to process the actual invoice.

810 documents must strictly conform to these implementation guidelines. The 810 is implemented using ANSI X12 Version 004010.

There are two layout templates for invoices: Detailed (Regular Invoice) and Header Invoice. A Detailed Invoice addresses the line items of one purchase order. A Header Invoice covers many purchase orders without listing specific line items.

There are three types of invoices: Standard, Credit Memo and Debit Memo. Each layout template and invoice type have particular requirements (content that must be present in order to be valid). There are also some content requirements for 810 itself to be satisfied.

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	Standard X12	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
BIG	20	Beginning Segment for Invoice
NTE	30	Note/Special Instruction
CUR	40	Currency
REF	50	Reference
REF	50	Reference - Mutually Defined References
N1	LOOP 70	Party Identification
N1	70	Party Name
N2	80	Party Additional Name Information
N3	90	Party Address Information
N4	100	Party Geographic Location
REF	110	Reference
REF	110	Reference - Mutually Defined References
REF	110	Reference - Shipment Identification
REF	110	Reference - Additional Carrier Identification
PER	120	Administrative Communications Contact
ITD	130	Terms of Sale
DTM	140	Date/Time
N9	LOOP 240	Reference Identification - Comments
N9	240	Letter or Notes
MSG	250	Free-Form Message Text
IT1	LOOP 10	Baseline Item Data
IT1	10	Baseline Item Data
CUR	20	Currency
CTP	50	Pricing Information
PAM	55	Period Amount
PID	LOOP 60	Product/Item Description
PID	60	Product/Item Description
REF	120	Reference
REF	120	Reference - Line Item Comments
REF	120	Reference - Mutually Defined References
YNQ	125	Yes/No Question - Return Item Indicator
YNQ	125	Yes/No Question - Ad-Hoc Item Indicator
DTM	150	Date/Time Reference
SAC	LOOP 180	Service, Promotion, Allowance or Charge Information
SAC	180	Service, Promotion, Allowance or Charge Information
TXI	190	Tax Information
TXI	190	Tax Detail Information
SAC	LOOP 180	Discount, Shipping/Special Handling Charge and Distribution
SAC	180	Discount, Shipping/Special Handling Charge and Distribution

SegID	SegNo	Name
SAC	LOOP 180	Tax Information
SAC	180	Service, Promotion, Allowance or Charge Information
TXI	190	Tax Detail Information
TXI	190	Tax Detail Information - Alternative Tax Amount
N1	LOOP 240	Party Identification
N1	240	Party Name
N2	250	Party Additional Name Information
N3	260	Party Address Information
N4	270	Party Geographic Location
REF	280	Reference
REF	280	Reference - Mutually Defined References
REF	280	Reference - Shipment Identification
REF	280	Reference - Additional Carrier Identification
PER	290	Administrative Communications Contact
TDS	10	Total Monetary Value Summary
AMT	35	Monetary Amount
SAC	LOOP 40	Service, Promotion, Allowance or Charge Information
SAC	40	Service, Promotion, Allowance or Charge Information
TXI	50	Tax Total Information
TXI	50	Tax Detail Information
SAC	LOOP 40	Discount, Shipping and Special Handling Charge
SAC	40	Discount, Shipping and Special Handling Charge
SAC	LOOP 40	Tax Information
SAC	40	Service, Promotion, Allowance or Charge Information
TXI	50	Tax Detail Information
TXI	50	Tax Detail Information - Alternative Tax Amount
CTT	70	Transaction Totals
SE	80	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 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>

ISA M 1 Interchange Control Header

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.

This Guideline describes the content of one message from ST-SE.

Please note that Ariba Network supports multi-message handling along with more than one ST-SE per ISA-IEA and/or GS-GE loop.

Example:

ISA*00* *00* *ZZ*SenderID *ZZ*ReceiverID *160111*1314*U*00401*000000001*0*T*>~

GS*SH*SenderID*ReceiverID*20160111*1314*1*X*004010~

ST*856*0001~

...

SE*...*0001~

...

ST*856*0002~

...

SE*...*0002~

GE*2*1~

GS*IN*SenderID*ReceiverID*20160111*1314*2*X*004010~

ST*810*0003~

...

SE*...*0003~

GE*1*2~

IEA*2*000000001~

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>IN Invoice Information (810)</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 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)
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*IN*SenderID*ReceiverID*20160104*0930*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	810 Invoice	
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*810*0001~ To indicate the start of a transaction set and to assign a control number.						

BIG M 1 Beginning Segment for Invoice

Standard X12				SAP Ariba Usage, allowed Codes		
01	373	Date	M DT 8/8	M DT 8/8	Invoice date	Date expressed as format CCYYMMDD
02	76	Invoice Number	M AN 1/22	M AN 1/22	Invoice number	
03	373	Date	O DT 8/8	O DT 8/8	Purchase order date	Date expressed as format CCYYMMDD *Should match BEG05 from a received 850. Must be null in case of multiple PO scenario *UserNote [PO Scenarios]
04	324	Purchase Order Number	O AN 1/22	O AN 1/22	Purchase order number	*Should match BEG03 from a received 850. Must be null in case of multiple PO scenario *UserNote [PO Scenarios] Hardcode to "NONPO" if the invoice refer to an external purchase order *UserNote [NONPO]
05	328	Release Number	O AN 1/30	X		
06	327	Change Order Sequence Number	O AN 1/8	X		
07	640	Transaction Type Code	O ID 2/2	O ID 2/2	CN	Line Level Credit Memo
					CR	Credit Memo
					DC	Line Level Debit Memo*
					DI	Debit Invoice
					DR	Debit Memo
					FD	Summary Invoice
						*UserNote [DC]
08	353	Transaction Set Purpose Code	O ID 2/2	O ID 2/2	00	Original
					03	Delete
09	306	Action Code	O ID 1/2	O ID 1/2	NA	No Action Required

BIG **M 1** **Beginning Segment for Invoice**

Example: BIG*20170103*InvoiceID*20151230*PurchaseOrderID***DI*00*NA~

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates.

There are two layout templates of invoices: Regular and Header.

A Regular Invoice addresses the line items of one purchase order. A Header Invoice covers many purchase orders without listing specific line items.

There are three types of invoices: Standard [BIG07=DI/FD], Credit Memo [BIG07=CR/CN] and Debit Memo [BIG07=DR/DC]. Summary Invoices can use only the Regular layout template. A Credit Memo submitted in Regular form is called "Line Level Credit Memo", a Debit Memo submitted in Regular form is called "Line Level Debit Memo". Both include item details.

*UserNote [DC]: "Line Level Debit Memo" feature must be enabled in Ariba Network.

Header Invoices reference one whole Purchase Order on each line item of the invoice. The line items of each Purchase Order are not detailed. Each Purchase Order requires an occurrence of the IT1 Group.

Regular Invoices are identified by specifying order and/or master agreement identifications at the invoice header level. Used with BIG07=DI (Standard Invoice), BIG07=FD (Standard Summary Invoice), BIG07=CN (Line Level Credit Memo) and BIG07=DC (Line Level Debit Memo).

Header Invoices are identified by NOT specifying any order and/or master agreement identifications at the invoice header level and the usage of IT1 where 235=PO/VO. Specifically, BIG03-04 must be null. Header level REF segments identifying orders or master agreements must not be present. Used with BIG07=DI (Standard Invoice), BIG07=CR (Credit Memo) and BIG07=DR (Debit Memo).

In case the 810 is a Credit Memo or Line Level Credit Memo, Ariba Network will default all amounts to negative. Please refer to CTP (Pricing Information) for additional information regarding Line Level Credit Memo (Price or quantity adjustments).

*UserNote [PO Scenarios]: Single and Multiple Purchase Order (PO) Scenarios

Single PO Scenario - Header level PO related references BIG03-04 and REF*PO or REF*AH or REF*VN must be provided. Line level PO related reference (IT1/REF*PO/AH/VN) must be null.

Multiple PO Scenario - BIG03-04 must be null. Additionally PO related references (REF*PO/AH/VN) at header must also be null. Only line level PO related references (IT1/REF*PO/AH/VN) will be considered.

*UserNote [NONPO]: External Purchase Order related invoice

It is allowed to send non-PO Invoice or Credit/Debit Memo transactions without specific order reference. This can be any external purchase order that was not routed through Ariba Network. Suppliers must ensure that the value "NONPO" is specified in BIG04.

Example: Standard Invoice (Regular form)

BIG*20170102*Invoice ID*20151230*PurchaseOrderID***DI*00*~

...

IT1*1*50*EA*10.00**VP*Supplier Part ID~

Example: Credit Memo (Header form)

BIG*20170102*Credit Note ID*****CR*00~

...

REF*I5*Invoice ID~

...

IT1*1*ZZ*-100.00**PO*Purchase Order ID*VO*Supplier Order ID~

Example: Line Level Credit Memo (Regular form)

BIG*20170102*Credit Note ID*20151230*PurchaseOrderID***CN*00*~

...

REF*I5*Invoice ID~

...

IT1*1*50*EA*10.00**VP*Supplier Part ID~

BIG	M 1	Beginning Segment for Invoice
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<p>Example: External Purchase Order related invoice (Regular form) BIG*20170102*InvoiceID**NONPO***DI*00~ ... IT1*1*50*EA*10.00**VP*Supplier Part ID~</p>

NTE **O 100** **Note/Special Instruction**

Standard X12				SAP Ariba Usage, allowed Codes			
01	363	Note Reference Code	O ID 3/3	O	ID 3/3	CBH Monetary Amount Description	
						REG Registered Activity	
02	352	Description	M AN 1/80	M	AN 1/80	[NTE*REG] Legal form	
						[NTE*CBH] Share capital	
Example: NTE*REG*Inc~ To transmit information in a free-form format, if necessary, for comment or special instruction. Under fiscal dematerialization, the NTE segments are compulsory in order to show the company legal form and share capital of the supplier/message sender [N1*FR]. NTE*REG represents the legal form of the business of the supplier, such as as Inc., Ltd., S.A., S.A.S, GmbH or other. NTE*CBH represent supplier's company capital amount and currency on the invoice. It is mandatory that the share capital must have same format as example shown below. Example: NTE*REG*GmbH~ NTE*CBH*1000000 EUR~							

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 <i>Buying Party (Purchaser)</i> SE <i>Selling Party</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. E.g. USD <i>US Dollar</i>	
03	280	Exchange Rate	O R 4/10	O	R 4/10	Tax exchange rate	
04	98	Entity Identifier Code	O ID 2/3	O	ID 2/3	BY <i>Buying Party (Purchaser)</i> SE <i>Selling Party</i>	
05	100	Currency Code	O ID 3/3	O	ID 3/3	Specifies the currency for the alternate amount. Code (Standard ISO*) for country in whose alternate currency the charges are specified. E.g. EUR <i>Euro</i>	
Example: CUR*SE*USD*0.980*SE*EUR~ To specify the currency used in a transaction. *UserNote: Unique ISO-4217 standard three-letter currency code.							

REF **O 12** **Reference**

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	AH	Agreement Number	
					BM	Bill of Lading Number	
					CR	Customer Reference Number	
					EU	Ultimate Customer Reference Number	
					I5	Invoice Identification	
					IV	Invoice Number	
					KK	Delivery Note Number	
					MA	Ship Notice/Manifest Number	
					RV	Receiving Advice Number	
					PK	Packing List Number	
					PO	Purchase Order Number*	
					VN	Vendor Order Number	
					06	System ID Number	
					4N	Payment Proposal Number	
					*UserNote [NONPO]		
					*UserNote [PO Scenarios]		
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	[REF*AH] Schedule agreement indicator Used to specify the agreement type to indicate whether the referenced agreement is a scheduling agreement. Otherwise it is not used.		
					1	Schedule Agreement	

REF **O 12** **Reference**

Example: REF*AH*Master Agreement ID*1~

To specify identifying information.

Invoice identification [REF*I5] can be used only with the line level credit memo. Every line level credit memo needs to have an invoice reference. This is used only for referring to an invoice. Inclusion of the referring invoice date is recommended. Use with DTM*003.

If a supplier needs to specify an Invoice Number longer than 22 chars, REF*IV can be used to convey up to 30 chars in REF02. If present, REF02 takes priority over the Invoice Number found in BIG02. This can be used in combination with DTM*003, to provide the full date, time, and zone for the invoice time.

Ship Notice/Manifest Number [REF*MA]:

Shipment ID of an earlier Advance Ship Notice (ASN). This would be BSN02 [396] "Shipment Identifier" from an 856 previously sent. If you are using this, then it is recommended to include a Manifest/Ship Notice Date [DTM*111] which would match its counterpart in BSN03 (date) and BSN04 (time) from the 856.

Receiving Advice Number [REF*RV]

Receipt ID of an earlier Receiving Advice. This would be BRA01 [127] from an 861 previously sent.

Purchase Order Number [REF*PO] can be provided to support order numbers longer than 22 chars.

If REF*PO is present, then REF02 overrides the order number found in BIG04. This can be used in combination with DTM*004.

*UserNote [NONPO]: If BIG04 include "NONPO" (external purchase order related invoice), this reference will be ignored.

Master Agreement Number [REF*AH] is used in conjunction with DTM*LEA. REF03 is used as agreement type indicator.

REF*VN represents Supplier's Order Number. Compare to BAK08 in the 855. This can be used in combination with DTM*008.

*UserNote [PO Scenarios]: Single and Multiple Purchase Order (PO) Scenarios

Single PO Scenario - Header level PO related references BIG03-04 and REF*PO or REF*AH or REF*VN must be provided. Line level PO related reference (IT1/REF*PO/AH/VN) must be null.

Multiple PO Scenario - BIG03-04 must be null. Additionally PO related references (REF*PO/AH/VN) at header must also be null. Only line level PO related references (IT1/REF*PO/AH/VN) will be considered.

REF O 12 Reference - 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 identifying information. REF*ZZ contains information mutually defined by the trading partner. In this case REF02 is used as identification name to specify the mutually defined identification provided in REF03. Please note RFF03 is not required. For various business cases, it is sufficient to transmit only the mutually defined name identification by itself. Example: REF*ZZ*MutuallyDefinedIDName~ REF*ZZ*MutuallyDefinedIDName*Mutually defined identification~					

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 Customer Service</i> <i>AP Buyer Master Account</i> <i>B4 Buyer Corporate</i> <i>BF Billed From</i> <i>BK Receiving Correspondent Bank</i> <i>BT Bill-to-Party</i> <i>BY Buying Party (Purchaser)</i> <i>EN End User</i> <i>CA Carrier</i> <i>FR Message From</i> <i>II Issuer of Invoice</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>RB Wire Receiving Bank</i> <i>RI Remit To</i> <i>SE Supplier Account</i> <i>SF Ship From</i> <i>SO Sold To</i> <i>SU Supplier</i> <i>ST Ship To</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>91 Assigned by Seller or Seller's Agent</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~ To identify a party by type of organization, name and code. The N1 group is technically optional, but strongly recommended if payment of the invoice is desired. You should include entity codes BT (Bill To), RI (Remit To), and II (Issuer of Invoice). If either N1*SF or N1*ST is used, then the other is required. If N1*CA is used, then N1*SF and N1*ST are both required. This section of N1 also allows for detailed contact information. Aside from the codes stated above, which are needed to build a correct invoice, there is no reason to copy any of the other contact information from the purchase order, unless the supplier wishes to send it. This should represent supplier related contact information for the buyer's reference. The postal address is built from segments N2, N3, and N4 and is optional in itself. See notes at the specific segments below. Example: 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*CA*Bill-To ZIP*US~					

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*Bill-To Addr Name 1*Bill-To Addr Name 2~ To specify additional names or those longer than 60 characters in length. If you are entering a Postal Address Name via N2 segment, 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	O 200	Party Identification
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N3	O 2	Party Address Information
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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 you are entering a Postal Address Street via N3 segment, then the City [N401] and the two-char ISO-3166 Country Code [N404] are both required. Therefore, N4 becomes mandatory.						

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	M 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	M 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**Bill-To ZIP*AU*SP*NSW~</p> <p>To specify the geographic place of the named party.</p> <p>If you are entering a Postal Address City or the two-char ISO-3166 Country Code via N4 segment, 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. 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	O 200	Party Identification
REF	O 12	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	
					F8	Additional Reference Number	
					GT	GST Registration Identification Number	
					KK	cRADCRS Indicator	
					LU	Buyer Location Identification Number	
					ME	Postal Address Name or ID	
					PB	Payer's Bank Account Identification Number	
					PY	Payee's Bank Account Identification Number	
					RT	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** **Reference**

Example: REF*VXVAT Registration ID~**

To specify identifying information.

All reference identifiers are optional, and most all can be used. Care should be taken to avoid ambiguity and duplication. Special cases are shown as below.

REF*AP: 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: Payer's Bank Account 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*BT*Bill To Name~

REF*PB**Payer Bank Account ID~

REF*PY: Payee's Bank Account Identification Number should only be used for the Remit To [N1*RI] / Receiving Bank [N1*RB] / Supplier [N1*SU] / Issuer Of Invoice [N1*II] and / or Message From party [N1*FR].

Example:

N1*RI*Remit To Name~

REF*PY**Payee Bank Account ID~

REF*RT: Bank Routing Identification Number (financial institution) should be paired with Payee's Bank Account Identification Number [REF*PY] or Account ID [REF*11] and is recommended for Remit To [N1*RI], but allowed at all parties.

Example:

N1*RI*Remit To Name~

REF*RT**Payees Bank Routing ID~

REF*PY**Payees Bank Account ID~

REF*BAA: Supplier Tax Identification Number should only be used for Remit To party [N1*RI].

Example:

N1*RI*Remit To Name~

REF*BAA**Supplier Tax ID~

REF*4B, REF*4C, REF*9S and REF*KK: 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: Buyer Additional Identification Number should only be used for Buyer party [N1*BY].

REF*ZA: Supplier Additional Identification Number should only be used for Supplier party [N1*SU].

Example:

N1*BY*Buyer Name~

REF*YD**Buyer Additional ID~

N1*SU*Supplier Name~

REF*ZA**Supplier Additional ID~

REF	O 12	Reference
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REF*AEC: Government registration number can be used for all parties.

If used with N1*FR, the ID represent the registration number of the supplier company (message sender) as entered in the commercial register. Used in conjunction with registered place/court provided in communications contact [PER*RG].

Example:

N1*FR*Supplier Name~
REF*AEC**Government ID~
PER*RG*Suppliers company registered court name~

Relevant account numbers for financial institution information can be used with Receiving Bank [N1*RB].

REF*11: Account ID is recommended for Receiving Bank, but allowed at all parties.

Example:

N1*RB*Receiving bank~
REF*14**IBAN ID~
REF*02**SWIFT ID~
REF*9X**Account Type~
REF*11**Account ID~
REF*ACT**Account name~
REF*3L**Bank Branch ID~

N1	O 200	Party Identification
REF	O 12	Reference - 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 domain
03 352	Description	C	AN 1/80	C	AN 1/80	Mutually defined identification
Example: REF*ZZ*MutuallyDefinedIDDomain*Mutually Defined ID~ To specify identifying information. REF*ZZ contains information mutually defined by the invoice partner. In this case REF02 is used as identification domain to specify the mutually defined identification provided in REF03. Example: REF*ZZ*controlPointXYZ*1234~						

N1	O 200	Party Identification
REF	O 12	Reference - Shipment Identification

Standard X12				SAP Ariba Usage, allowed Codes		
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>SI</i>	<i>Shipper's Identifying Number for Shipment (SID)</i>
02	127	Reference Identification	C AN 1/30	C AN 1/30		Identification number
03	352	Description	C AN 1/80	C DT 16/16		Tracking number date Date expressed as format CCYYMMDDHHMMSS[timezone]. Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59). [timezone] = Please refer to APPENDIX - CODELISTS 623 Time Code.
<p>Example: REF*SI*Tracking ID*20170106060000ED~ To specify identifying information.</p> <p>This reference is used only with N1*SF and N1*ST.</p> <p>REF02 identify the carrier assigned reference number for their part of the shipment (shipment tracking number). In addition to this, REF03 can be used to provide a relating shipment tracking date.</p> <p>Carrier PRO number: This is the carrier assigned reference ID / tracking ID for their part of this shipment. Conceptually, this is a tracking number. Different carriers have different names for shipment identifiers. Some call it a way bill number, others call it a PRO number, and still others call it a bill of lading. They all represent tracking numbers.</p> <p>Example: N1*SF*Ship-From~ REF*SI*Tracking ID*20170106060000ED~</p> <hr/> <p>Tracking Number Date Note: Note that a complete date/time/zone is recommended. Otherwise it will be automatically calculated and might lead to wrong data. Timestamps in cXML are represented as a date with a time, and an offset to UTC. If you do not specify a time, it will be taken as noon (12:00) on the date specified. If you do not specify the time code (zone), then it will be defaulted to UTC (+00:00).</p>						

N1	O 200	Party Identification
REF	O 12	Reference - Additional Carrier Identification

Standard X12				SAP Ariba Usage, allowed Codes			
01	128	Reference Identification Qualifier	M	ID 2/3	M	ID 2/3	CN <i>Carrier's Identification</i>
02	127	Reference Identification	C	AN 1/30	C	AN 1/30	Identification domain Possible values are: <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>91 Assigned by Seller or Seller's Agent</i> <i>92 Assigned by Buyer or Buyer's Agent</i> In addition to N1*CA [93], this REF03 can provide the legal name for this company with use of domain "companyName". That option should be reserved for cases in which additional detail about the carrier are required.
03	352	Description	C	AN 1/80	C	AN 1/80	Identification number Company name [used with domain="companyName"]

Example: REF*CN*SCAC*Carrier ID~
To specify identifying information.

This reference is used only with N1*CA and provide the carrier identification number.

Carrier identification number:
This REF can provide multiple identifiers for the same carrier. The use of an identification domain is required.
All identification provided by REF*CN must correspond to the same company.

Example:
N1*CA*Carrier~
REF*CN*companyName*Carrier Name~
REF*CN*SCAC*Tracking ID-1~

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	CN RG	General Contact Registrar	
02	93	Name	O AN 1/60	O AN 1/60	Party contact name* *UserNote [PER02] [PER*RG] Place/court where supplier's company was registered		
03	365	Communication Number Qualifier	C ID 2/2	C ID 2/2	EM FX TE UR	Electronic Mail Facsimile Telephone 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 FX TE UR	Electronic Mail Facsimile Telephone 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 FX TE UR	Electronic Mail Facsimile Telephone Uniform Resource Locator (URL)	
08	364	Communication Number	C AN 1/80	C AN 1/80	Communication number		

Example: PER*CN*Bill-To Contact Name*EM*E-Mail Addr*TE*Phone ID*UR*URL~
To identify a person or office to whom administrative communications should be directed.

General contact [CN] information can apply for each party role.

Example:
PER*CN*Mr. Smith*EM*msmith@ariba.com~

*UserNote [PER02]:
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.

Registra [RG] represents the place/court where supplier's company (message sender) was registered and can apply only to party N1*FR. Used in conjunction with government registration number [N1*FR/REF*AEC].

Example:
N1*FR*Supplier Name~
REF*AEC**Government ID~
PER*RG*Suppliers company registered court name~

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	01 Basic 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	C DT 8/8	Discount due date
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	Penalty term days
07	386	Terms Net Days	O N0 1/3	O N0 1/3	
08	362	Terms Discount Amount	O N2 1/10	O N2 1/10	Discount amount
09	388	Terms Deferred Due Date	O DT 8/8	X	Penalty amount
10	389	Deferred Amount Due	C N2 1/10	C N2 1/10	
11	342	Percent of Invoice Payable	C R 1/5	X	
12	352	Description	O AN 1/80	X	
13	765	Day of Month	C N0 1/2	X	
14	107	Payment Method Code	O ID 1/2	O ID 1/2	
					AA Bank Draft AB Cash AC Credit Card AD Direct Deposit C Pay By Check D Debited G CCD (NACHA Cash Concentration/Disbursement - Funds Transacted without Remittance Information) H CCD+(NACHA Cash Concentration/Disbursement - Funds Transacted Plus an 80 Record Remittance Detail) J CTX (NACHA Corporate Trade Exchange - Transaction Plus Remittance Detail in ANSI Standard Flexible Format) O CTP (NACHA Corporate Trade Payment - Transaction Plus Remittance Detail in Fixed Format) T Wire Transfer Y Credit
15	954	Percent	O R 1/10	O R 1/10	Penalty term percentage

ITD **O >1** **Terms of Sale**

Example: ITD*01*3*10.00*20171025*10**30*1000**10000****T*5.00~

To specify terms of sale.

Ariba Invoicing currently supports payment terms only by the number of days from the invoice date [BIG01], 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.

Discount terms uses ITD03, ITD04, ITD05 and ITD08.

Penalty terms uses ITD07, ITD10 and ITD15.

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=01 or 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.

ITD04: Optional for discount terms [ITD01=01 or 52]. This is the payment discount due date.

ITD05: Required for discount terms [ITD01=01 or 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=01 or 05]. Must be used in combination with ITD15. This is the number of days from the Invoice Date after which penalty terms apply.

ITD08: Optional for discount terms [ITD01=01 or 52]. Can be used in combination with ITD03. This is the payment discount amount.

ITD10: Optional for penalty terms [ITD01=01 or 05]. Can be used in combination with ITD15. This is the penalty amount.

ITD14: Optional to describe the money transfer method.

ITD15: Required for penalty terms [ITD01=01 or 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, BIG01].

Example 1: Discount [ITD01=52]

2% discount for prompt payment in < 10 days.

ITD*52*3*2*20171025*10***100~

ITD03 and ITD05 are required. ITD01, ITD04 and ITD08 are optional.

Example 2: Penalty [ITD01=05]

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

You should use this code if no discount is offered, but a late payment penalty exists.

ITD*05*3*****30***150*****15~

ITD07 and ITD15 become mandatory. ITD01 and ITD10 are optional.

Example 3: Mixture of payment terms [ITD01=01]

2% discount within 10 days, or a 40% penalty if over a year, in one segment.

ITD*01*3*2**10**365*100**2000*****40~

ITD03, ITD05, ITD07, and ITD15 are all required. ITD01, ITD08 and ITD10 are optional.

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	<i>003 Invoice</i> <i>004 Purchase Order</i> <i>008 Supplier Order</i> <i>011 Shipped</i> <i>050 Received</i> <i>111 Manifest/Ship Notice</i> <i>186 Invoice Period Start</i> <i>187 Invoice Period End</i> <i>922 Previous Invoice</i> <i>LEA Agreement</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: 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*003*20171030*105920*PD~
To specify pertinent dates and times.

Date/Time Note:
Note that a complete date/time/zone is recommended. Otherwise it will be automatically calculated and might lead to wrong data. Timestamps in cXML are represented as a date with a time, and an offset to UTC.
If you do not specify a time, it will be taken as noon (12:00) on the date specified.
If you do not specify the time code (zone), then it will be defaulted to UTC (+00:00).

Invoice Date [DTM*003] can be used to provide a complete date/time/zone to Ariba Network, which is preferred over a simple date. If used, this overrides the invoice date found in BIG01. This can be used in combination with REF, where REF01=IV. Either one or both can be used. Neither one is required.

In case of Credit and Debit Memo, DTM*922 needs to be used to specify the date/time/zone of the original invoice.

If a Purchase Order Date [DTM*004] is provided on the 850, suppliers should turn this around on fulfilment documents and invoices. This is preferred, and highly recommended, but is not mandatory. This can be used in combination with REF, where REF01=PO. Either one or both can be used, and neither one is required.

Date of the goods Shipment [DTM*011] should match DTM01=011 from an earlier 856.

Manifest/Ship Notice Date [DTM*111] from earlier 856. Should match BSN03 + BSN04.

Invoice Period Start/End Date [DTM*186 / DTM*187] must be used as a pair. If one is used without the other, the invoice will fail.

Agreement Date [DTM*LEA] is used in conjunction with REF, where REF01=AH.

N9	O 1	Reference Identification - Comments
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N9	M 1	Letter or Notes
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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>
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. <i>EN</i> <i>English</i>	
03	369	Free-Form Description	C AN 1/45	C AN 1/45	Should be "Comments"	

Example: N9*L1*en*Comments~
To transmit identifying information as specified by the Reference Identification Qualifier.

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

Example:
N9*L1*en*Comments~
MSG*Fountain pens are on special next month. Several popular brands are available, along with various colors of ink.*LC~
MSG*Supplies are limited.~

N9	O 1	Reference Identification - Comments
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MSG	M 10	Free-Form Message Text
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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.						

IT1	O 200000	Baseline Item Data
IT1	M 1	Baseline Item Data

Standard X12				SAP Ariba Usage, allowed Codes		
01	350	Assigned Identification	O AN 1/20	M AN 1/20	Purchase order line item number	
02	358	Quantity Invoiced	C R 1/10	M R 1/10	Invoiced quantity	
03	355	Unit or Basis for Measurement Code	C 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].	
04	212	Unit Price	C R 1/17	M R 1/17	[Regular Invoice] Price per unit of product or service [Header Invoice] Subtotal amount	
05	639	Basis of Unit Price Code	O ID 2/2	X	<i>BP Buyer's Part Number</i> <i>C3 Classification</i> <i>CH Country of Origin Code</i> <i>EA European Waste Catalog Number</i> <i>EN European Article Number (EAN)</i> <i>MF Manufacturer Name</i> <i>MG Manufacturer's Part Number</i> <i>PO Purchase Order Number</i> <i>SH Supplier Service Part Number</i> <i>SN Serial 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 Service Item Number</i>	
06	235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2		
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>CH Country of Origin Code</i> <i>EA European Waste Catalog Number</i> <i>EN European Article Number (EAN)</i> <i>MF Manufacturer Name</i> <i>MG Manufacturer's Part Number</i> <i>SH Supplier Service Part Number</i> <i>SN Serial Number</i> <i>UP U.P.C. Consumer Package Code (1-5-5-1)</i> <i>VO Vendor's Order Number</i> <i>VP Vendor's (Seller's) Part Number</i> <i>VS Vendor's Supplemental Service 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>CH Country of Origin Code</i> <i>EA European Waste Catalog Number</i> <i>EN European Article Number (EAN)</i> <i>MF Manufacturer Name</i> <i>MG Manufacturer's Part Number</i> <i>SH Supplier Service Part Number</i> <i>SN Serial 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 Service 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>	

IT1 M 1 Baseline Item Data

Standard X12				SAP Ariba Usage, allowed Codes			
						<i>CH</i>	<i>Country of Origin Code</i>
						<i>EA</i>	<i>European Waste Catalog Number</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>SH</i>	<i>Supplier Service Part Number</i>
						<i>SN</i>	<i>Serial 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 Service 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</i>	<i>Buyer's Part Number</i>
						<i>C3</i>	<i>Classification</i>
						<i>CH</i>	<i>Country of Origin Code</i>
						<i>EA</i>	<i>European Waste Catalog Number</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>SH</i>	<i>Supplier Service Part Number</i>
						<i>SN</i>	<i>Serial 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 Service 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>CH</i>	<i>Country of Origin Code</i>
						<i>EA</i>	<i>European Waste Catalog Number</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>SH</i>	<i>Supplier Service Part Number</i>
						<i>SN</i>	<i>Serial 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 Service 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>CH</i>	<i>Country of Origin Code</i>
						<i>EA</i>	<i>European Waste Catalog Number</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>SH</i>	<i>Supplier Service Part Number</i>
						<i>SN</i>	<i>Serial 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 Service 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>CH</i>	<i>Country of Origin Code</i>
						<i>EA</i>	<i>European Waste Catalog Number</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>SH</i>	<i>Supplier Service Part Number</i>

IT1 M 1 Baseline Item Data

Standard X12					SAP Ariba Usage, allowed Codes			
						<i>SN</i>	<i>Serial 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 Service Item Number</i>	
21	234	Product/Service ID	C	AN 1/48	C	AN 1/48	Item identification number	
22	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>CH</i>	<i>Country of Origin Code</i>	
						<i>EA</i>	<i>European Waste Catalog Number</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>SH</i>	<i>Supplier Service Part Number</i>	
						<i>SN</i>	<i>Serial 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 Service Item Number</i>	
23	234	Product/Service ID	C	AN 1/48	C	AN 1/48	Item identification number	
24	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>CH</i>	<i>Country of Origin Code</i>	
						<i>EA</i>	<i>European Waste Catalog Number</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>SH</i>	<i>Supplier Service Part Number</i>	
						<i>SN</i>	<i>Serial 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 Service Item Number</i>	
25	234	Product/Service ID	C	AN 1/48	C	AN 1/48	Item identification number	

IT1 M 1 Baseline Item Data

Example: IT1*1*50*EA*10.00**SN*Serial ID*VP*Supplier Part ID*VS*Supplier Supplemental Part ID*BP*Buyer Part ID*MG*Manufacturer Part ID*MF*Manufacturer Name*CH*Country Code ISO*EN*EAN ID*EA*European Waste ID*C3*Classification~

To specify the basic and most frequently used line item data for the invoice and related transactions.

The contents of the IT1 group depend on whether this is a Regular Invoice, referencing one order with its line items, or is a Header Invoice with each invoice line item citing a whole order. In the case of Regular Invoices, we distinguish between regular item and service item.

A Regular Invoice uses IT101, 02, 03, and 04, and product/service ID qualifiers which can be used in any order.

Allowed product/service ID qualifiers for regular items: SN, UP, VP, VS, BP, MG, MF, C3, and CH

Allowed product/service ID qualifiers for service items: SH, VS, BP and C3

Conditions:

1. IT101, 02, 03 and 04 are all required.
2. If VS is used, then VP (regular item) or SH (service item) is required.
3. If either MF or MG is used, the other is required.
4. If line item is a service item, then SH is mandatory. Product/service ID qualifiers SN, UP, VP, MG, MF, CH, EN or EA are not allowed to be used along with SH.
5. If CH is used, it qualifies an ISO-3166 country code. Do not use the country name.
6. Only SN is allowed to repeat. With all others, only the last occurrence is captured.

Example 1: Regular Invoice citing a PO line item.

IT1*10*20*EA*10.00**SN*Serial ID*VP*Supplier Part ID*VS*Supplier Supplemental Part ID*BP*Buyer Part ID*MG*Manufacturer Part ID*MF*Manufacturer Name*CH*Country Code ISO*EN*EAN ID*EA*European Waste ID*C3*Classification ID~

Example 2: Regular Invoice citing a PO service line item.

IT1*10*30*EA*15.00**SH*Supplier Service Part ID*VS*Supplier Supplemental Service Part ID*BP*Buyer Service Part ID*C3*Classification ID~

Header Invoices reference one whole Purchase Order on each line item of the invoice.

The line items of each Purchase Order are not detailed. Each Purchase Order requires an occurrence of the IT1 Group.

A Header Invoice does not use IT101, but does require IT102-IT104, and uses product/service ID qualifiers PO and VO.

The following conditions must be met:

1. IT102 = should be "1" (one purchase order)
2. IT103 = should be "ZZ"
3. IT104 = Invoiced amount of purchase order being referenced - required
4. At least one of PO or VO order number is required. Both can be used.

Example 3: Header Invoice citing a purchase order.

IT1**1*ZZ*100.00**PO*Purchase Order ID*VO*Supplier Order ID~

IT1	O 200000	Baseline Item Data
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) SE Selling Party	
02	100	Currency Code	M ID 3/3	M	ID 3/3	Code (Standard ISO) for country in whose currency the charges are specified. E.g. USD US Dollar	
03	280	Exchange Rate	O R 4/10	X			
04	98	Entity Identifier Code	O ID 2/3	O	ID 2/3	BY Buying Party (Purchaser) SE Selling Party	
05	100	Currency Code	O ID 3/3	O	ID 3/3	Specifies the currency for the alternate amount. Code (Standard ISO) for country in whose alternate currency the charges are specified. E.g. EUR Euro	
Example: CUR*SE*USD**SE*EUR~ To specify the currency used in a transaction. *UserNote: Unique ISO-4217 standard three-letter currency code.							

IT1	O 200000 Baseline Item Data
CTP	O 25 Pricing Information

Standard X12				SAP Ariba Usage, allowed Codes	
01 687	Class of Trade Code	O	ID 2/2	O ID 2/2	<i>WS User</i>
02 236	Price Identifier Code	C	ID 3/3	C ID 3/3	<i>CHG Changed Price*</i> *UserNote [CHG]
03 212	Unit Price	C	R 1/17	X	
04 380	Quantity	C	R 1/15	C R 1/15	Price basis quantity
C001 355	Composite Unit of Measure Unit or Basis for Measurement Code	C M	ID 2/2	C 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	<i>CSD Cost Markup Multiplier - Original Cost</i>
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. *UserNote [CHG]: Price Identifier Code is only used for Line Level Credit and Debit Memo transactions and indicate price adjustments. In reverse, if the element is not used, it indicates quantity adjustments. In case the 810 is a Line Level Credit Memo and Price Identifier Code is "CHG", Ariba Network will default the unit price provided in IT104 to negative. If not used, all quantities will be defaulted to negative.					

IT1	O 200000 Baseline Item Data
PAM	O 10 Period Amount

Standard X12				SAP Ariba Usage, allowed Codes			
01 673	Quantity Qualifier	C	ID 2/2	X			
02 380	Quantity	C	R 1/15	X			
C001	Composite Unit of Measure	C		X			
355	Unit or Basis for Measurement Code	M	ID 2/2	X			
04 522	Amount Qualifier Code	C	ID 1/3	C	ID 1/3	1	Line Item Total
						EC	Total Allowance
						GW	Total Charge
						KK	Item Gross Amount
						N	Item Net Amount
						ZZ	Total Amount Withou Tax
05 782	Monetary Amount	C	R 1/18	C	R 1/18	Amount	
Example: PAM****1*100.00~ To indicate a quantity, and/or amount for an identified period. Subtotal amount [PAM****1*100.00~] The invoice subtotal of the current line item (unit price times quantity). Optional for Regular Invoices but mandatory for service items. Mandatory for Header Invoices. _____ Gross amount [PAM****KK*100.00~] The subtotal amount plus taxes, shipping, and special handling charges for the current line item. Optional for Regular and Header Invoices. _____ Net amount [PAM****N*100.00~] The gross amount minus discounts for the current line item. Optional for Regular and Header invoices. _____ Total Allowances [PAM****EC*100.00~] The total sum of all the allowances applied on the goods and services of the current line item. Optional for Regular Invoices. Not used for Header Invoices. _____ Total Charges [PAM****GW*100.00~] The total sum of all the charges applied on the goods and services of the current line item. Optional for Regular Invoices. Not used for Header Invoices. _____ Total Amount Without Tax [PAM****ZZ*100.00~] Summarizes the total invoice amount without tax. The total amount includes: Subtotal, shipping amount, special handling and charges. Allowances and discounts are subtracted from the sum of the above four amounts. This element does not include taxes. Optional for Regular Invoices. Not used for Header Invoices.							

IT1	O 200000	Baseline Item Data
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	F	Free-form	
02	750	Product/Process Characteristic Code	O ID 2/3	O ID 2/3	GEN	General Description Write "GEN" to this element to cause a "Short Name" to be generated, otherwise leave it blank.	
03	559	Agency Qualifier Code	C ID 2/2	X	Description text		
04	751	Product Description Code	C AN 1/12	X			
05	352	Description	C AN 1/80	C AN 1/80			
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	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 required in Ariba Network and will be defaulted if not transmitted in the invoice (can be supplied in lower case). E.g.		
09	819	Language Code	O ID 2/3	O ID 2/3			
					EN	English	

Example: PID*F*GEN*Free-Form-Description-Text****en~**

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

Used only with a Regular Invoice line.

One PID02="GEN" can be optionally included, to provide a "Short Name" description. If used, it should be either at the beginning or the end of the list. Having only a PID*F*GEN*... is also acceptable.

Example:

PID*F****Item-Description****en~

PID*F****Item-Description****en~

PID*F*GEN***Short-Name****en~

IT1	O 200000	Baseline Item Data
REF	O >1	Reference

Standard X12				SAP Ariba Usage, allowed Codes	
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>ACE</i> Service Entry Number <i>AH</i> Agreement Number <i>BT</i> Batch Number <i>FJ</i> Invoice Line Number <i>FL</i> Fine Line Classification <i>KK</i> Delivery Note Number <i>MA</i> Ship Notice/Manifest Number <i>PD</i> Promotion/Deal Number <i>PK</i> Packing List Number <i>PO</i> Purchase Order Number* <i>RV</i> Receiving Advice Number <i>VN</i> Vendor Order Number *UserNote [PO Scenarios]
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	[REF*AH] Schedule agreement indicator Used to specify the agreement type to indicate whether the referenced agreement is a scheduling agreement. Otherwise it is not used. <i>1</i> Schedule Agreement
C040		Reference Identifier	O	O	
128		Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>LI</i> Line Item Identifier
127		Reference Identification	M AN 1/30	M AN 1/30	[REF*ACE] Service line number [REF*MA] Ship notice line number [REF*RV] Receipt line number [REF*FL] Parent line item number

REF **O >1** **Reference**

Example: REF*MA*Ship Notice IDLI>10~**

To specify identifying information.

Service Entry Number [REF*ACE] is used to refer to the service sheet line related to this line item.
REF04 refers to the line number in the related ServiceEntryRequest for the item.

Fine Line Classification (Item type / Composite item type):

The item type specifies whether the line item is a grouped item having child items or an independent line item. Possible values: "composite" to identify an item group, "item" to identify an independent line item or "lean" Indicate that no child item is expected for the line.

The composite item type specifies whether a parent item uses group-level pricing. Possible values are "groupLevel" or "itemLevel". REF04 indicate the line number of the corresponding parent line item. This is a mandatory field and applicable only for a line item with itemType="item".

Example:

REF*FL*item**LI>1~
REF*FL*composite*groupLevel~
REF*FL*composite*itemLevel~
REF*FL*lean~

Invoice Line Number [REF*FJ]

Supplier defined ID for the current invoice line. Should be unique across all invoice lines within an invoice. It is recommended that you either map them directly from your invoicing system, if available in integer form, or generate these numbers in your outbound invoice map using an accumulator.

Required for both Regular and Header Invoice lines.

Ship Notice/Manifest Number [REF*MA]

Shipment ID of an earlier Advance Ship Notice [ASN]. This would be BSN02 [396] "Shipment Identifier" from an 856 previously sent. If you are using this, then it is recommended to include a Manifest/Ship Notice Date [DTM*111] which would match its counterpart in BSN03 (date) and BSN04 (time) from the 856.
It is also possible to add the related line number by using C040 where 128=LI.

Example:

REF*MA*Ship Notice ID**LI>1~

Receiving Advice Number [REF*RV]

Receipt ID of an earlier Receiving Advice. This would be BRA01 [127] from an 861 previously sent.
It is also possible to add the related line number by using C040 where 128=LI.

Example:

REF*RV*Receipt ID**LI>1~

Master Agreement Number [REF*AH] is used in conjunction with DTM*LEA. REF03 is used as agreement type indicator.

REF*VN represents the Supplier's Order Number and can be used in combination with DTM*008.

REF*PO represents the Purchase Order Number.

***UserNote [PO Scenarios]: Single and Multiple Purchase Order (PO) Scenarios**

Single PO Scenario - Header level PO related references BIG03-04 and REF*PO or REF*AH or REF*VN must be provided. Line level PO related reference (IT1/REF*PO/AH/VN) must be null.

Multiple PO Scenario - BIG03-04 must be null. Additionally PO related references (REF*PO/AH/VN) at header must also be null. Only line level PO related references (IT1/REF*PO/AH/VN) will be considered.

IT1	O	200000	Baseline Item Data
REF	O	>1	Reference - Line Item 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	
03	352	Description	C AN 1/80	C AN 1/80		
Free-form item text						
Example: REF*L1*en*Text~ To specify identifying information.						

IT1 **O 200000 Baseline Item Data****REF** **O >1 Reference - 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 identifying information. REF*ZZ contains information mutually defined by the trading partner. In this case REF02 is used as identification name to specify the mutually defined identification provided in REF03. Please note RFF03 is not required. For various business cases, it is sufficient to transmit only the mutually defined name identification by itself. Example: REF*ZZ*MutuallyDefinedIDName~ REF*ZZ*MutuallyDefinedIDName*Mutually defined identification~						

IT1	O 200000	Baseline Item Data
YNQ	O 10	Yes/No Question - Return Item Indicator

Standard X12				SAP Ariba Usage, allowed Codes			
01 1321	Condition Indicator	C	ID 2/2	C	ID 2/2	Q3	Goods Returned
02 1073	Yes/No Condition or Response Code	M	ID 1/1	M	ID 1/1	Y	Yes
Example: YNQ*Q3*Y~ To identify and answer yes and no questions. Specifies the reason for a Line Level Credit Memo. Usage of this segment means the credit memo is for a return item.							

IT1	O 200000	Baseline Item Data
YNQ	O 10	Yes/No Question - Ad-Hoc Item Indicator

Standard X12				SAP Ariba Usage, allowed Codes		
01 1321	Condition Indicator	C	ID 2/2	X		
02 1073	Yes/No Condition or Response Code	M	ID 1/1	M	ID 1/1	Y Yes
03 1250	Date Time Period Format Qualifier	C	ID 2/3	X		
04 1251	Date Time Period	C	AN 1/35	X		
05 933	Free-Form Message Text	O	AN 1/264	X		
06 933	Free-Form Message Text	O	AN 1/264	X		
07 933	Free-Form Message Text	O	AN 1/264	X		
08 1270	Code List Qualifier Code	C	ID 1/3	X		
09 1271	Industry Code	C	AN 1/30	X		
10 933	Free-Form Message Text	C	AN 1/264	C	AN 1/264	Should be "ad-hoc item"
Example: YNQ**Y*****ad-hoc item~						
To identify and answer yes and no questions.						
Indicates the item does not exist in the reference document or contract master agreement.						

IT1	O 200000	Baseline Item Data
DTM	O 10	Date/Time Reference

Standard X12				SAP Ariba Usage, allowed Codes			
01	374	Date/Time Qualifier	M ID 3/3	M ID 3/3		004	Purchase Order
						008	Supplier Order
						011	Shipped
						111	Manifest/Ship Notice
						150	Service Period Start
						151	Service Period End
						214	Reference
						472	Service Entry
						517	Inspection
						LEA	Agreement
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*004*20171030*105920*PD~

To specify pertinent dates and times.

Date/Time Note:

Note that a complete date/time/zone is recommended. Otherwise it will be automatically calculated and might lead to wrong data.

Timestamps in cXML are represented as a date with a time, and an offset to UTC.

If you do not specify a time, it will be taken as noon (12:00) on the date specified.

If you do not specify the time code (zone), then it will be defaulted to UTC (+00:00).

The Purchase Order Date [DTM*004] corresponds to BEG05 from the 850.

Supplier Order Date [DTM*008] corresponds to DTM*ACK from earlier 855.

Date of the goods Shipment [DTM*011] should match DTM*011 from an earlier 856.

Manifest/Ship Notice Date [DTM*111] from earlier 856. Should match BSN03 + BSN04.

Service Entry Date [DTM*472] is used in conjunction with REF, where REF01=ACE.

Agreement Date [DTM*LEA] is used in conjunction with REF, where REF01=AH.

Reference Date [DTM*214] is used for the blanket order or contract item. The usage of this date is optional in most cases, and must be defined by the trading partners involved in the transaction. Procurement software might use this date in reconciling an invoice against a blanket order or contract. For the service item it can indicate the date at which the service line item is being invoiced.

Inspection Date [DTM*517] represent the date when the transfer of goods or the delivery of services occurs according to legal tax definitions. The usage of this date is optional in most cases, and must be defined by the trading partners involved in the transaction.

Service Period Start/End Date [DTM*150 / DTM*151] are used with IT1*...*SH* specifically for service items. Both dates must be used as a pair. If one is used without the other, the invoice will fail.

IT1	O 200000	Baseline Item Data
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	A Allowance C Charge		
02	1300	Service, Promotion, Allowance, or Charge Code	C ID 4/4	C ID 4/4	Service, Promotion, Allowance, or Charge Code Please refer to APPENDIX - CODELISTS 1300 Service, Promotion, Allowance, or Charge Code.		
03	559	Agency Qualifier Code	C ID 2/2	X			
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	Allowance or charge amount* *UserNote [SAC12] [SAC*A] Deducted price		
06	378	Allowance/Charge Percent Qualifier	C ID 1/1	C ID 1/1	3 Allowance or Charge		
07	332	Percent	C R 1/6	C R 1/6	Percentage rate		
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	O ID 2/2	01 Bill Back 02 Off-Invoice* 03 Vendor Check to Customer 04 Credit Customer Account 05 Charge to be Paid by Vendor 06 Charge to be Paid by Customer 07 Optional 08 Off Gross Quantity Invoiced 09 Allowance To Be Issued by Vendor 10 Allowance To Be Issued by Reseller 11 Charge Denied by Vendor 12 Cancel Allowance 13 Provide Amount* 15 Information Only 18 Non-Payable Tax 20 Accrual Fund 21 Flat Fund 25 Cash in Advance CA Calculate and Add to Invoice CC Collect PP Prepaid ZZ Mutually Defined *UserNote [SAC12]		
13	127	Reference Identification	C AN 1/30	C R 1/17	Original price		
14	770	Option Number	O AN 1/20	O AN 1/20	Price type Example type values might be MSRP, ListPrice, Actual, AverageSellingPrice, CalculationGross, BaseCharge, AverageWholesalePrice, ExportPrice, AlternatePrice, ContractPrice, etc.		
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 required in Ariba Network and		

SAC M 1 Service, Promotion, Allowance or Charge Information

Standard X12				SAP Ariba Usage, allowed Codes	
					will be defaulted if not transmitted in the invoice (can be supplied in lower case). E.g. EN English
Example: SAC*A*H970***10000*3*5.00*****13*10.00*ContractPrice*Free-form 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. *UserNote [SAC12]: Use SAC12="13" to identify SAC05 as allowance amount [only used if SAC01="A"]. If the indicator is not provided, SAC05 will be identified as deducted price. The following SAC codes are supported as modification allowances: B660, C300, H970, I530 In this example, a 10% allowance representing a price change of 9.90 Dollar. Original price: 99.00 Dollar Deducted price: 89.10 Dollar Example: SAC*A*C300***8910*3*10*****99.00**Special Discount Description*en~ In this example, an 8% special discount representing 80.00 Dollars, is being offered. Example: SAC*A*C300***8000*3*8*****13**Special Discount Description*en~ The following SAC codes are supported as modification charges: A040, A050, A060, A122, A170, A520, A960, D180, D230, D240, D270, D500, D750, D980, E620, G580, G760, G821, G970. In this example, a 10% freight fee representing 120.00 Dollars is being charged. Example: SAC*C*D240***12000*3*10*****Freight Charge Description*en~ *UserNote [SAC12]: If SAC12="02" [Off invoice] the allowance or charge is being deducted from the invoice and is already included in unit price. Any other code or if not used implies that the allowance or charge is NOT included in unit price. Example: Allowance (Included in unit price) SAC*A*C300***8000*3*8*****02**Special Discount Description*en~ Example: Charge (NOT included in unit price) SAC*C*D240***8000*3*8*****02**Charge Description*en~					

IT1	O 200000	Baseline Item Data
SAC	O 25	Service, Promotion, Allowance or Charge Information
TXI	O 10	Tax Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	963	Tax Type Code	M ID 2/2	M ID 2/2	TX	All Taxes	
					ZZ	Mutually Defined	
02	782	Monetary Amount	C R 1/18	M R 1/18		Total tax amount	
03	954	Percent	C R 1/10	X			
04	955	Tax Jurisdiction Code Qualifier	C ID 2/2	X			
05	956	Tax Jurisdiction Code	C AN 1/10	X			
06	441	Tax Exempt Code	C ID 1/1	X			
07	662	Relationship Code	O ID 1/1	X			
08	828	Dollar Basis For Percent	O R 1/9	X			
09	325	Tax Identification Number	O AN 1/20	X			
10	350	Assigned Identification	O AN 1/20	M AN 1/20		Tax description	
Example: TXI*TX*10.00*****Tax description~ To specify tax information. The usage of tax information itself is optional. But if tax details apply, it is required to use this TXI to provide the total tax amount of the current modification in conjunction with details about the specific type of tax (TXI - Tax Detail Information). The following Tax Detail Information (see next page) are used to provide multiple tax rates and types within separate TXI segments. Example 1: Adjustment charge with tax details (two different type of tax). SAC*C*A170***100000*3*10*****Adjustment Charge Description*en~ TXI*TX*150.00*****Tax Description~ TXI*VA*100.00*10.00*VD*Location***1000.00~ TXI*SL*50.00*5.00*VD*Location***1000.00*STATETAX~ It is required to provide the total tax amount (TXI first occurrence) even if just one tax rate apply. In this case the amount of both TXI segments are equal. Example 2: Adjustment charge with tax details (one single tax type). SAC*C*A170***100000*3*10*****Adjustment Charge Description*en~ TXI*TX*100.00*****Tax Description~ TXI*VA*100.00*10.00*VD*Location***1000.00~							

IT1	O 200000	Baseline Item Data
SAC	O 25	Service, Promotion, Allowance or Charge Information
TXI	O 10	Tax Detail Information

Standard X12				SAP Ariba Usage, allowed Codes	
01	963	Tax Type Code	M ID 2/2	M ID 2/2	Tax Type Code Please refer to APPENDIX - CODELISTS 963 Tax Type Code.
02	782	Monetary Amount	C R 1/18	M R 1/18	Tax amount
03	954	Percent	C R 1/10	C R 1/10	Percentage rate
04	955	Tax Jurisdiction Code Qualifier	C ID 2/2	C ID 2/2	<i>VD Vendor defined</i>
05	956	Tax Jurisdiction Code	C AN 1/10	C AN 1/10	Tax location Location or jurisdiction associated with this tax. This is just a name.
06	441	Tax Exempt Code	C ID 1/1	C ID 1/1	<i>0 Exempt (For Export)</i> <i>2 No (Not Tax Exempt)</i>
07	662	Relationship Code	O ID 1/1	X	Taxable amount on which the tax percentage is calculated.
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.
Example: TXI*VA*10.00*10.00*VD*Location*0**100.00*Tax Category~ To specify tax information.					

IT1	O 200000	Baseline Item Data
SAC	O 25	Discount, Shipping/Special Handling Charge and Distribution
SAC	M 1	Discount, Shipping/Special Handling Charge and Distribution

Standard X12				SAP Ariba Usage, allowed Codes			
01	248	Allowance or Charge Indicator	M ID 1/1	M ID 1/1	A	Allowance	
					C	Charge	
					N	No Allowance or Charge	
02	1300	Service, Promotion, Allowance, or Charge Code	C ID 4/4	C ID 4/4	C310	Discount	
					G830	Shipping and Handling	
					H090	Special Handling	
					B840	Customer Account Identification	
03	559	Agency Qualifier Code	C ID 2/2	C ID 2/2	AB	Assigned by Buyer	
					[used for SAC*N*B840]		
04	1301	Agency Service, Promotion, Allowance, or Charge Code	C AN 1/10	C AN 1/10	Accounting name		
					[used for SAC*N*B840]		
05	610	Amount	O N2 1/15	O N2 1/15	Allowance or charge amount		
06	378	Allowance/Charge Percent Qualifier	C ID 1/1	C ID 1/1	3	Allowance or Charge	
					[used for SAC*A*C310]		
					Z	Mutually Defined	
					[used for SAC*N*B840]		
07	332	Percent	C R 1/6	C R 1/6	Percentage rate		
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	Accounting segment ID		
					[used for SAC*N*B840]		
14	770	Option Number	O AN 1/20	O AN 1/20	Accounting segment name		
					[used for SAC*N*B840]		
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** **Discount, Shipping/Special Handling Charge and Distribution**

Example: SAC*N*B840*AB*Accounting*10000*Z*100***Accounting segment ID*Accounting seg name*Accounting segment 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*C310***577*3*5~

Example 2: Shipping Charge

In this example, a 10.00 Dollars shipping fee is being charged.

SAC*C*G830***1000~

Example 3: Special Handling Charge

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

SAC*C*H090***2000*****Special Handling Description*en~

Example 4: Distribution

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

SAC*N*B840*AB*Accounting*2000*Z*100*****Accounting segment ID*Accounting seg name*Acc segment description*en~

SAC*N*B840*... contains the customer's charge account information.

Requires: SAC04 (SAC03="AB"), SAC05, SAC13, SAC14, SAC15, and SAC16.

Percentage of charge distribution is provided in SAC07, with SAC06="Z". Usage of SAC07 is recommended, but optional. SAC*N*B840*... is allowed to repeat. Multiple occurrences imply split accounting. If SAC07 is used, then they should add up to 100%.

IT1	O 200000	Baseline Item Data
SAC	O 25	Tax 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	
02	1300	Service, Promotion, Allowance, or Charge Code	C ID 4/4	C ID 4/4	H850	Tax	
03	559	Agency Qualifier Code	C ID 2/2	X			
04	1301	Agency Service, Promotion, Allowance, or Charge Code	C AN 1/10	X			
05	610	Amount	O N2 1/15	M N2 1/15		Total tax 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 R 1/18		Alternate total tax amount	
						The amount of money in the alternate currency. Optional and used to support dual-currency requirements.	
14	770	Option Number	O AN 1/20	X			
15	352	Description	C AN 1/80	M AN 1/80		Tax 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 required in Ariba Network and will be defaulted if not transmitted in the invoice (can be supplied in lower case). E.g.	
					EN	English	

Example: SAC*C*H850*14000*****130.69**Tax 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.

Line item tax information are optional, but if Tax Detail Information apply [SAC/TXI], total tax amount is required and SAC*C*H850 become mandatory.

In this case SAC01, SAC02, SAC05, SAC15 and SAC16 are all required.

The usage of additional TXI segments to provide Tax Detail Information of multiple tax rates and types is optional. If tax details are used, the sum of TXI02 have to equal SAC05.

Example:

SAC*C*H850***14000*****Total tax*en~
TXI*VA*89.10*8.91*VD*Location***100.00**20170910~
TXI*SL*50.90*5.09*VD*Location***100.00*STATETAX~

In some cases [depending on Ariba Network default transaction rules setting] it is required to provide tax amounts in local currency [alternate currency].

SAC13 is used to submit the alternate total tax amount.

Alternate tax (detail) amount requires the repetition of the TXI segment.

The additional TXI must use the same tax type code as the preceding.

Example: Including alternate tax amount(s)

SAC*C*H850***14000*****139.69**Total tax*en~
TXI*VA*140.00*14.00*****100.00**20170910~
TXI*VA*139.69~

IT1	O 200000	Baseline Item Data
SAC	O 25	Tax Information
TXI	O 10	Tax Detail Information

Standard X12				SAP Ariba Usage, allowed Codes	
01	963	Tax Type Code	M ID 2/2	M ID 2/2	Tax Type Code Please refer to APPENDIX - CODELISTS 963 Tax Type Code.
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	Percentage rate
04	955	Tax Jurisdiction Code Qualifier	C ID 2/2	C ID 2/2	VD Vendor defined
05	956	Tax Jurisdiction Code	C AN 1/10	C AN 1/10	Tax location Location or jurisdiction associated with this tax. This is just a name.
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 on which the tax percentage is calculated.
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	[TXI*VA] Tax point date Date expressed as format CCYYMMDDHHMMSS[timezone]. Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59). [timezone] = Please refer to APPENDIX - CODELISTS 623 Time Code.
					Tax description

Example: TXI*VA*140.00*14.00*VD*Location*0**1000.00**20170106060000ED~

To specify tax information.

All tax types codes from code list 963 are supported.

If other special taxes have to be transmitted, TXI09 can be used for providing custom tax categories to override the standard tax categories.

Example: TXI09 provide mutually agreed tax categories which should specify the custom taxes.

SAC*C*H850***12000*****Total tax*en~

TXI*OH*100.00*5.00*****Sugarfee~

TXI*ZZ*20.00*7.00*****1~

VAT entries must have a TXI01 with a category="VA". The supply date is mandatory if it differs from the invoice date, so VAT entries must have a tax point date. Buyers can request the supply date using an invoice rule.

Example:

SAC*C*H850***8910*****Total tax*en~

TXI*VA*89.10*8.91*****100.00**20170108012000ED~

Date/Time Note:

Note that a complete date/time/zone is recommended. Otherwise it will be automatically calculated and might lead to wrong data.

Timestamps in cXML are represented as a date with a time, and an offset to UTC.

If you do not specify a time, it will be taken as noon (12:00) on the date specified.

If you do not specify the time code (zone), then it will be defaulted to UTC (+00:00).

IT1	O 200000	Baseline Item Data
SAC	O 25	Tax Information
TXI	O 10	Tax Detail Information - Alternative Tax Amount

Standard X12				SAP Ariba Usage, allowed Codes		
01	963	Tax Type Code	M ID 2/2	M ID 2/2	Tax Type Code Please refer to APPENDIX - CODELISTS 963 Tax Type Code.	
02	782	Monetary Amount	C R 1/18	C R 1/18	Alternate tax amount The amount of money in the alternate currency. Optional and used to support dual-currency requirements.	
Example: TXI*VA*120.51~ To specify tax information. Please note: Tax type code must match the tax type code from preceding TXI segment. Example: Including alternate tax amount(s) SAC*C*H850***14000*****120.51**Total tax*en~ TXI*VA*140.00*14.00*****100.00**20170910~ TXI*VA*120.51~						

IT1	O 200000	Baseline Item Data
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	CA	Carrier	
					SF	Ship From	
					ST	Ship To	
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	1	D-U-N-S Number, Dun & Bradstreet	
					2	Standard Carrier Alpha Code (SCAC)	
					4	International Air Transport Association (IATA)	
					9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
					91	Assigned by Seller or Seller's Agent	
					92	Assigned by Buyer or Buyer's Agent	
04	67	Identification Code	C AN 2/80	C AN 2/80	Party identification number		

Example: N1*SF*Ship-From Name*92*Ship-from ID~
To identify a party by type of organization, name and code.

The N1 group can be at the header level or at the line item level, but not both.
If either N1*SF or N1*ST is used, then the other is required. If N1*CA is used, then N1*SF and N1*ST are both required.

See notes on N1 group syntax usage for building a postal address in the header level group. The same rules apply.

Example:
N1*SF*Ship-From Name*92*Ship-from ID~
N2*Ship-From Addr Name 1*Ship-From Addr Name 2~
N3*Ship-From Street 1*Ship-From Street 2~
N4*Ship-From City*CA*94107*US~

IT1	O 200000	Baseline Item Data
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
<p>Example: N2*Ship-From Addr Name 1*Ship-From Addr Name 2~ To specify additional names or those longer than 60 characters in length.</p> <p>If you are entering a Postal Address Name via N2 segment, 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.</p>					

IT1	O 200000	Baseline Item Data
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-From Street 1*Ship-From Street 2~ To specify the location of the named party. If you are entering a Postal Address Street via N3 segment, then the City [N401] and the two-char ISO-3166 Country Code [N404] are both required. Therefore, N4 becomes mandatory.							

IT1	O 200000	Baseline Item Data
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	M 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	M 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-From City**ZIP*AU*SP*NSW~ To specify the geographic place of the named party.</p> <p>If you are entering a Postal Address City or the two-char ISO-3166 Country Code via N4 segment, 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>					

IT1	O 200000	Baseline Item Data
N1	O 200	Party Identification
REF	O 12	Reference

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

Example: REF*VXVAT Registration ID~**

To specify identifying information.

All reference identifiers are optional, and most all can be used. Care should be taken to avoid ambiguity and duplication. 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*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~

IT1	O 200000	Baseline Item Data
N1	O 200	Party Identification
REF	O 12	Reference - 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 domain
03	352	Description	C AN 1/80	C AN 1/80	Mutually defined identification
Example: REF*ZZ*MutuallyDefinedIDDomain*Mutually Defined ID~ To specify identifying information. REF*ZZ contains information mutually defined by the invoice partner. In this case REF02 is used as identification domain to specify the mutually defined identification provided in REF03. Example: REF*ZZ*controlPointXYZ*1234~					

IT1	O 200000	Baseline Item Data
N1	O 200	Party Identification
REF	O 12	Reference - Shipment Identification

Standard X12				SAP Ariba Usage, allowed Codes	
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>SI Shipper's Identifying Number for Shipment (SID)</i>
02	127	Reference Identification	C AN 1/30	C AN 1/30	Identification number
03	352	Description	C AN 1/80	C DT 16/16	Tracking number date Date expressed as format CCYYMMDDHHMMSS[timezone]. Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59). [timezone] = Please refer to APPENDIX - CODELISTS 623 Time Code.
<p>Example: REF*SI*Tracking ID*20170106060000ED~</p> <p>To specify identifying information.</p> <p>This reference is used only with N1*SF and N1*ST.</p> <p>REF02 identify the carrier assigned reference number for their part of the shipment (shipment tracking number). In addition to this, REF03 can be used to provide a relating shipment tracking date.</p> <p>Carrier PRO number: This is the carrier assigned reference ID / tracking ID for their part of this shipment. Conceptually, this is a tracking number. Different carriers have different names for shipment identifiers. Some call it a way bill number, others call it a PRO number, and still others call it a bill of lading. They all represent tracking numbers.</p> <p>Example: N1*SF*Ship-From~ REF*SI*Tracking ID*20170106060000ED~</p> <hr/> <p>Tracking Number Date Note: Note that a complete date/time/zone is recommended. Otherwise it will be automatically calculated and might lead to wrong data. Timestamps in cXML are represented as a date with a time, and an offset to UTC. If you do not specify a time, it will be taken as noon (12:00) on the date specified. If you do not specify the time code (zone), then it will be defaulted to UTC (+00:00).</p>					

IT1	O 200000	Baseline Item Data
N1	O 200	Party Identification
REF	O 12	Reference - Additional Carrier Identification

Standard X12				SAP Ariba Usage, allowed Codes	
01	128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	<i>CN</i> <i>Carrier's Identification</i>
02	127	Reference Identification	C AN 1/30	C AN 1/30	Identification domain Possible values are: <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>91 Assigned by Seller or Seller's Agent</i> <i>92 Assigned by Buyer or Buyer's Agent</i> In addition to N1*CA (93), this REF03 can provide the legal name for this company with use of domain "companyName". That option should be reserved for cases in which additional detail about the carrier are required.
03	352	Description	C AN 1/80	C AN 1/80	Identification number Company name (used with domain="companyName")
Example: REF*CN*SCAC*Carrier ID~ To specify identifying information. This reference is used only with N1*CA and provide the carrier identification number. Carrier identification number: This REF can provide multiple identifiers for the same carrier. The use of an identification domain is required. All identification provided by REF*CN must correspond to the same company. Example: N1*CA*Carrier~ REF*CN*companyName*Carrier Name~ REF*CN*SCAC*Tracking ID-1~					

IT1	O 200000	Baseline Item Data
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> <i>General Contact</i>
02	93	Name	O AN 1/60	O AN 1/60	Party contact name* *UserNote [PER02]
03	365	Communication Number Qualifier	C ID 2/2	C ID 2/2	<i>EM</i> <i>Electronic Mail</i> <i>FX</i> <i>Facsimile</i> <i>TE</i> <i>Telephone</i> <i>UR</i> <i>Uniform Resource Locator (URL)</i>
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> <i>Electronic Mail</i> <i>FX</i> <i>Facsimile</i> <i>TE</i> <i>Telephone</i> <i>UR</i> <i>Uniform Resource Locator (URL)</i>
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> <i>Electronic Mail</i> <i>FX</i> <i>Facsimile</i> <i>TE</i> <i>Telephone</i> <i>UR</i> <i>Uniform Resource Locator (URL)</i>
08	364	Communication Number	C AN 1/80	C AN 1/80	Communication number
Example: PER*CN*Ship-from Contact Name*EM*E-Mail Addr*TE*Phone ID*UR*URL~ To identify a person or office to whom administrative communications should be directed. General contact [CN] information can apply for each party role. Example: PER*CN*Mr. Smith*EM*msmith@ariba.com~ *UserNote [PER02]: 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.					

TDS **M 1** **Total Monetary Value Summary**

Standard X12				SAP Ariba Usage, allowed Codes		
01	610	Amount	M N2 1/15	M	N2 1/15	Gross amount
02	610	Amount	O N2 1/15	O	N2 1/15	Subtotal amount*
03	610	Amount	O N2 1/15	O	N2 1/15	Net amount*
04	610	Amount	O N2 1/15	O	N2 1/15	Due amount*
						*UserNote [TDS/AMT]

Example: TDS*100000*100800*112000*90800~
To specify the total invoice discounts and amounts.

Gross Amount [TDS01] - Required
Sum of subtotal, taxes, special handling charges, and shipping charges, before discounts.

Subtotal Amount [TDS02] - Optional*
Sum of line item quantities multiplied by unit price.

Net Amount [TDS03] - Optional*
Total gross amount minus discounts.

Due Amount [TDS04] - Optional*
Total amount due and payable: net amount minus deposit amount.

*UserNote [TDS/AMT]: Subtotal, Net and Due amount are all required. In Ariba Network, AMT is the preferred segment and highly recommended to use. If you can't provide this information within AMT, it is allowed to use TDS02-TDS04.

Example 1: Preferred usage of TDS01 and AMT

TDS*112000~
AMT*1*1000.00~
AMT*N*1020.00~
AMT*BAP*820.00~

Example 2: Optional usage of TDS

TDS*112000*100000*102000*82000~

This assumes a line item total of \$1000.00 [AMT*1/TDS02].
The taxes of total \$120.00 [SAC*C*H850], bringing the gross amount to \$1120.00 [TDS01].
Assumed there is a mutually agreed discount of \$100.00 [SAC*A*C310], this brings the net amount to \$1020.00 [AMT*N/TDS03].
There was a prepayment of \$200.00 [AMT*3], bringing the final amount due to \$820.00 [AMT*BAP/TDS04].

AMT **O >1** **Monetary Amount**

Standard X12				SAP Ariba Usage, allowed Codes			
01	522	Amount Qualifier Code	M ID 1/3	M	ID 1/3	1	Line Item Total*
						3	Deposit Total
						BAP	Total Amount Due*
						EC	Total Allowance
						GW	Total Charge
						N	Net Amount*
						ZZ	Total Amount without Tax
						*UserNote [TDS/AMT]	
02	782	Monetary Amount	M R 1/18	M	R 1/18	Amount	

AMT **O >1** **Monetary Amount**

Example: AMT*3*100.00~

To indicate the total monetary amount.

Subtotal Amount [AMT*1]*

Sum of line item quantities multiplied by unit price.

Total Allowances [AMT*EC] - Optional

The total sum of all the allowances applied on the goods and services.

This can appear at the line item and summary in an invoice.

Note: This is mandatory if at least one allowance (SAC*A*...) exists. Otherwise it will be ignored.

Total Charges [AMT*GW] - Optional

The total sum of all the charges applied on the goods and services.

This can appear at the line-item and summary in an invoice.

Note: This is mandatory if at least one charge (SAC*C*...) exists. Otherwise it will be ignored.

Total Amount Without Tax [AMT*ZZ] - Optional

This element is used to summarize the total invoice amount without tax. The total amount includes: Subtotal, shipping amount, special handling and charges. Allowances and discounts are subtracted from the sum of the above four amounts. This element does not include taxes.

Net Amount [AMT*N]*

Total gross amount minus discounts.

Deposit Amount [AMT*3] - Optional

Total deposit or prepayment amount.

Due Amount [AMT*BAP]*

Total amount due and payable: net amount minus deposit amount.

In some cases [depending on Ariba Network default transaction rules setting] it is required to provide several amounts in local currency [alternate currency].

Supported are alternate amounts of Subtotal Amount [AMT*1], Due Amount [AMT*BAP] and Total Amount Without Tax [AMT*ZZZ].

If relevant amounts are not specified within AMT*, Ariba Network is set to identify the second occurrence of the respective AMT as alternate amounts [Example 2].

Please refer to *UserNote [TDS/AMT].

Example 1: Subtotal and Due Amount provided in TDS.

...

TDS*20000*14000*20000*20000~

AMT*1*120.51~ -- Alternate Subtotal Amount

AMT*BAP*172.03~ -- Alternate Due Amount

Example 2: Subtotal and Due Amount not provided in TDS.

...

TDS*20000**20000*~

AMT*1*140.00~ -- Subtotal Amount

AMT*1*120.51~ -- Alternate Subtotal Amount

AMT*BAP*200.00~ -- Due Amount

AMT*BAP*172.03~ -- Alternate Due Amount

*UserNote [TDS/AMT]: Subtotal, Net and Due amount are all required. In Ariba Network, AMT is the preferred segment and highly recommended to use. If you can't provide this information within AMT, it is allowed to use TDS02-TDS04 alternatively.

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	A C	Allowance Charge
02	1300	Service, Promotion, Allowance, or Charge Code	C ID 4/4	C	ID 4/4	Service, Promotion, Allowance, or Charge Code Please refer to APPENDIX - CODELISTS 1300 Service, Promotion, Allowance, or Charge Code.	
03	559	Agency Qualifier Code	C ID 2/2	X			
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	Allowance or charge amount* *UserNote [SAC12] [SAC*A] Deducted price	
06	378	Allowance/Charge Percent Qualifier	C ID 1/1	C	ID 1/1	3	Allowance or Charge
07	332	Percent	C R 1/6	C	R 1/6	Percentage rate	
08	118	Rate	O R 1/9	X		13 Provide Amount* *UserNote [SAC12]	
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	O	ID 2/2		
13	127	Reference Identification	C AN 1/30	C	R 1/17	Original price	
14	770	Option Number	O AN 1/20	O	AN 1/20	Price type Example type values might be MSRP, ListPrice, Actual, AverageSellingPrice, CalculationGross, BaseCharge, AverageWholesalePrice, ExportPrice, AlternatePrice, ContractPrice, etc.	
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 required in Ariba Network and will be defaulted if not transmitted in the invoice (can be supplied in lower case). E.g. EN English	

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

Example: SAC*A*H970*10000*3*5.00*****13*10.00*ContractPrice*Free-form 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.

*UserNote [SAC12]: Use SAC12="13" to identity SAC05 as allowance amount [only used if SAC01="A"].
If the indicator is not provided, SAC05 will be identified as deducted price.

The following SAC codes are supported as modification allowances: B660, C300, H970, I530

In this example, a 10% allowance representing a price change of 9.90 Dollar.

Original price: 99.00 Dollar

Deducted price: 89.10 Dollar

Example:

SAC*A*C300***8910*3*10*****99.00**Special Discount Description*en~

In this example, an 8% special discount representing 80.00 Dollars, is being offered.

Example:

SAC*A*C300***8000*3*8*****13***Special Discount Description*en~

The following SAC codes are supported as modification charges: A040, A050, A060, A122, A170, A520, A960, D180, D230, D240, D242, D270, D500, D750, D980, E620, G580, G760, G821, G970.

In this example, a 10% freight fee representing 120.00 Dollars is being charged.

Example:

SAC*C*D240***12000*3*10*****Freight Charge Description*en~

SAC	O 25	Service, Promotion, Allowance or Charge Information
TXI	O 10	Tax Total Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	963	Tax Type Code	M ID 2/2	M ID 2/2	TX	All Taxes	
					ZZ	Mutually Defined	
02	782	Monetary Amount	C R 1/18	M R 1/18	Total tax amount		
03	954	Percent	C R 1/10	X			
04	955	Tax Jurisdiction Code Qualifier	C ID 2/2	X			
05	956	Tax Jurisdiction Code	C AN 1/10	X			
06	441	Tax Exempt Code	C ID 1/1	X			
07	662	Relationship Code	O ID 1/1	X			
08	828	Dollar Basis For Percent	O R 1/9	X			
09	325	Tax Identification Number	O AN 1/20	X			
10	350	Assigned Identification	O AN 1/20	M AN 1/20	Tax description		

Example: TXI*TX*10.00***Tax description~**
To specify tax information.

The usage of tax information itself is optional. But if tax details apply, it is required to use this TXI to provide the total tax amount of the current modification in conjunction with details about the specific type of tax (TXI - Tax Detail Information).

The following Tax Detail Information (see next page) are used to provide multiple tax rates and types within separate TXI segments.

Example 1: Adjustment charge with tax details (two different type of tax).

SAC*C*A170***100000*3*10*****Adjustment Charge Description*en~
TXI*TX*150.00*****Tax Description~
TXI*VA*100.00*10.00*VD*Location***1000.00~
TXI*SL*50.00*5.00*VD*Location***1000.00*STATETAX~

It is required to provide the total tax amount (TXI first occurrence) even if just one tax rate apply.
In this case the amount of both TXI segments are equal.

Example 2: Adjustment charge with tax details (one single tax type).

SAC*C*A170***100000*3*10*****Adjustment Charge Description*en~
TXI*TX*100.00*****Tax Description~
TXI*VA*100.00*10.00*VD*Location***1000.00~

SAC	O 25	Service, Promotion, Allowance or Charge Information
TXI	O 10	Tax Detail Information

Standard X12				SAP Ariba Usage, allowed Codes		
01	963	Tax Type Code	M ID 2/2	M ID 2/2		Tax Type Code Please refer to APPENDIX - CODELISTS 963 Tax Type Code.
02	782	Monetary Amount	C R 1/18	M R 1/18		Tax amount
03	954	Percent	C R 1/10	C R 1/10		Percentage rate
04	955	Tax Jurisdiction Code Qualifier	C ID 2/2	C ID 2/2		<i>VD Vendor defined</i>
05	956	Tax Jurisdiction Code	C AN 1/10	C AN 1/10		Tax location Location or jurisdiction associated with this tax. This is just a name.
06	441	Tax Exempt Code	C ID 1/1	C ID 1/1		<i>0 Exempt (For Export)</i> <i>2 No (Not Tax Exempt)</i>
07	662	Relationship Code	O ID 1/1	X		
08	828	Dollar Basis For Percent	O R 1/9	O R 1/9		Taxable amount on which the tax percentage is calculated.
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.
Example: TXI*VA*10.00*10.00*VD*Location*0**100.00*Tax Category~ To specify tax information.						

SAC	O 25	Discount, Shipping and Special Handling Charge
SAC	M 1	Discount, Shipping and Special Handling Charge

Standard X12				SAP Ariba Usage, allowed Codes			
01	248	Allowance or Charge Indicator	M ID 1/1	M	ID 1/1	A Allowance C Charge	
02	1300	Service, Promotion, Allowance, or Charge Code	C ID 4/4	C	ID 4/4	C310 Discount G830 Shipping and Handling H090 Special Handling	
03	559	Agency Qualifier Code	C ID 2/2	X			
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	Allowance or charge amount	
06	378	Allowance/Charge Percent Qualifier	C ID 1/1	C	ID 1/1	3 Allowance or Charge [used for SAC*A*C310]	
07	332	Percent	C R 1/6	C	R 1/6	Percentage rate	
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	X			
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 required in Ariba Network and will be defaulted if not transmitted in the invoice (can be supplied in lower case). E.g. EN English	
Example: SAC*C*H090***10000*****Free-form 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*C310***577*3*5~ Example 2: Shipping Charge In this example, a 10.00 Dollars shipping fee is being charged. SAC*C*G830***1000~ Example 3: Special Handling Charge In this example, a 20.00 Euro special handling fee is being charged. SAC*C*H090***2000*****Special Handling Description*en~							

SAC	M 25	Tax 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	
02	1300	Service, Promotion, Allowance, or Charge Code	C ID 4/4	C ID 4/4	H850	Tax	
03	559	Agency Qualifier Code	C ID 2/2	X			
04	1301	Agency Service, Promotion, Allowance, or Charge Code	C AN 1/10	X			
05	610	Amount	O N2 1/15	M N2 1/15		Total tax 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 R 1/18		Alternate total tax amount	
						The amount of money in the alternate currency. Optional and used to support dual-currency requirements.	
14	770	Option Number	O AN 1/20	X			
15	352	Description	C AN 1/80	M AN 1/80		Tax 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	

Example: SAC*C*H850*14000*****130.69**Tax 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.

Summary tax [SAC*C*H850] is mandatory, even if the amount is zero.

SAC01, SAC02, SAC05, SAC15 and SAC16 are all required.

The usage of additional TXI segments, to provide Tax Detail Information of multiple tax rates and types is optional. If tax details are used, the sum of TXI02 have to equal SAC05.

Example:

SAC*C*H850***14000*****Total tax*en~
TXI*VA*89.10*8.91*VD*Location***100.00**20170910~
TXI*SL*50.90*5.09*VD*Location***100.00**STATETAX~

In some cases [depending on Ariba Network default transaction rules setting] it is required to provide tax amounts in local currency [alternate currency].

SAC13 is used to submit the alternate total tax amount.
Alternate tax (detail) amount requires the repetition of the TXI segment.
The additional TXI must use the same tax type code as the preceding.

Example: Including alternate tax amount(s)
SAC*C*H850***14000*****120.51**Total tax*en~
TXI*VA*140.00*14.00*****100.00**20170910~
TXI*VA*120.51~

SAC	M 25	Tax Information
TXI	O 10	Tax Detail Information

Standard X12				SAP Ariba Usage, allowed Codes			
01	963	Tax Type Code	M ID 2/2	M ID 2/2		Tax Type Code Please refer to APPENDIX - CODELISTS 963 Tax Type Code.	
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		Percentage rate	
04	955	Tax Jurisdiction Code Qualifier	C ID 2/2	C ID 2/2		<i>VD Vendor defined</i>	
05	956	Tax Jurisdiction Code	C AN 1/10	C AN 1/10		Tax location Location or jurisdiction associated with this tax. This is just a name.	
06	441	Tax Exempt Code	C ID 1/1	C ID 1/1		<i>0 Exempt (For Export)</i> <i>2 No (Not Tax Exempt)</i>	
07	662	Relationship Code	O ID 1/1	X			
08	828	Dollar Basis For Percent	O R 1/9	O R 1/9		Taxable amount on which the tax percentage is calculated.	
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		[TXI*VA] Tax point date Date expressed as format CCYYMMDDHHMMSS[timezone]. Time expressed in 24-hour clock time as follows: HHMM, HHMMSS, HHMMSS, where H = hours (00-23), M = minutes (00-59) and S = integer seconds (00-59). [timezone] = Please refer to APPENDIX - CODELISTS 623 Time Code.	
						Tax description	
Example: TXI*VA*140.00*14.00*VD*Location*2**1000.00**20170108012000ED~ To specify tax information. All tax types codes from codelist 963 are supported. If other special taxes have to be transmitted, TXI09 can be used for providing custom tax categories to override the standard tax categories. Example: TXI09 provide mutually agreed tax categories which should specify the custom taxes. SAC*C*H850***12000*****Total tax*en~ TXI*OH*100.00*5.00*****Sugarfee~ TXI*ZZ*20.00*7.00*****I1~ VAT entries must have a TXI01 with a category="VA". The supply date is mandatory if it differs from the invoice date, so VAT entries must have a tax point date. Buyers can request the supply date using an invoice rule. Example: SAC*C*H850***8910*****Total tax*en~ TXI*VA*89.10*8.91*****100.00**20170108012000ED~ Date/Time Note: Note that a complete date/time/zone is recommended. Otherwise it will be automatically calculated and might lead to wrong data. Timestamps in cXML are represented as a date with a time, and an offset to UTC. If you do not specify a time, it will be taken as noon (12:00) on the date specified. If you do not specify the time code (zone), then it will be defaulted to UTC (+00:00).							

SAC	M 25	Tax Information
TXI	O 10	Tax Detail Information - Alternative Tax Amount

Standard X12				SAP Ariba Usage, allowed Codes		
01	963	Tax Type Code	M ID 2/2	M	ID 2/2	Tax Type Code Please refer to APPENDIX - CODELISTS 963 Tax Type Code.
02	782	Monetary Amount	C R 1/18	C	R 1/18	Alternate tax amount The amount of money in the alternate currency. Optional and used to support dual-currency requirements.
Example: TXI*VA*120.51~ To specify tax information. Please note: Tax type code must match the tax type code from preceding TXI segment. Example: Including alternate tax amount(s) SAC*C*H850***14000*****120.51**Total tax*en~ TXI*VA*140.00*14.00*****100.00**20170910~ TXI*VA*120.51~						

CTT **O 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
Example: CTT*1~ To transmit a hash total for a specific element in the transaction set.							

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

Standard X12				SAP Ariba Usage, allowed Codes		
01	96	Number of Included Segments	M N0 1/10	M	N0 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*57*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 N0 1/6	M	N0 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 N0 1/9	M	N0 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
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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 example is for illustrative purpose 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*IN*SenderID*ReceiverID*20160104*0930*1*X*004010~
ST*810*0001~
BIG*20170103*InvoiceID*20151230*PurchaseOrderID***DI*00*NA~
NTE*REG*Inc~
CUR*SE*USD*0.980*SE*EUR~
REF*AH*Master Agreement ID*1~
REF*ZZ*MutuallyDefinedIDName*Mutually defined identification~
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**Bill-To ZIP*AU*SP*NSW~
REF*VX**VAT Registration ID~
REF*ZZ*MutuallyDefinedIDDomain*Mutually Defined ID~
REF*SI*Tracking ID*20170106060000ED~
REF*CN*SCAC*Carrier ID~
PER*CN*Bill-To Contact Name*EM*E-Mail Addr*TE*Phone ID*UR*URL~
ITD*01*3*10.00*20171025*10**30*1000**10000****T*5.00~
DTM*003*20171030*105920*PD~
N9*L1*en*Comments~
MSG*Text*LC~
IT1*1*50*EA*10.00**SN*Serial ID*VP*Supplier Part ID*VS*Supplier Supplemental Part ID*BP*Buyer Part ID*MG*M
anufacturer Part ID*MF*Manufacturer Name*CH*Country Code ISO*EN*EAN ID*EA*European Waste ID*C3*Classif
ication~
CUR*SE*USD**SE*EUR~
CTP*WS***100*EA*CSD*0.7~
PAM****1*100.00~
PID*F*GEN***Free-Form-Description-Text****en~
REF*MA*Ship Notice ID**LI>10~
REF*L1*en*Text~
REF*ZZ*MutuallyDefinedIDName*Mutually defined identification~
YNQ*Q3*Y~
YNQ*Y*****ad-hoc item~
DTM*004*20171030*105920*PD~
SAC*A*H970***10000*3*5.00*****13*10.00*ContractPrice*Free-form description*en~
TXI*TX*10.00*****Tax description~
TXI*VA*10.00*10.00*VD*Location*0**100.00*Tax Category~

Example

SAC*N*B840*AB*Accounting*10000*Z*100*****Accounting segment ID*Accounting seg name*Accounting segment description*en~

SAC*C*H850***14000*****130.69**Tax description*en~

TXI*VA*140.00*14.00*VD*Location*0**1000.00**20170106060000ED~

TXI*VA*120.51~

N1*SF*Ship-From Name*92*Ship-from ID~

N2*Ship-From Addr Name 1*Ship-From Addr Name 2~

N3*Ship-From Street 1*Ship-From Street 2~

N4*Ship-From City**ZIP*AU*SP*NSW~

REF*VX**VAT Registration ID~

REF*ZZ*MutuallyDefinedIDDomain*Mutually Defined ID~

REF*SI*Tracking ID*20170106060000ED~

REF*CN*SCAC*Carrier ID~

PER*CN*Ship-from Contact Name*EM*E-Mail Addr*TE*Phone ID*UR*URL~

TDS*100000*100800*112000*90800~

AMT*3*100.00~

SAC*A*H970***10000*3*5.00*****13*10.00*ContractPrice*Free-form description*en~

TXI*TX*10.00*****Tax description~

TXI*VA*10.00*10.00*VD*Location*0**100.00*Tax Category~

SAC*C*H090***10000*****Free-form description*en~

SAC*C*H850***14000*****130.69**Tax description*en~

TXI*VA*140.00*14.00*VD*Location*2**1000.00**20170108012000ED~

TXI*VA*120.51~

CTT*1~

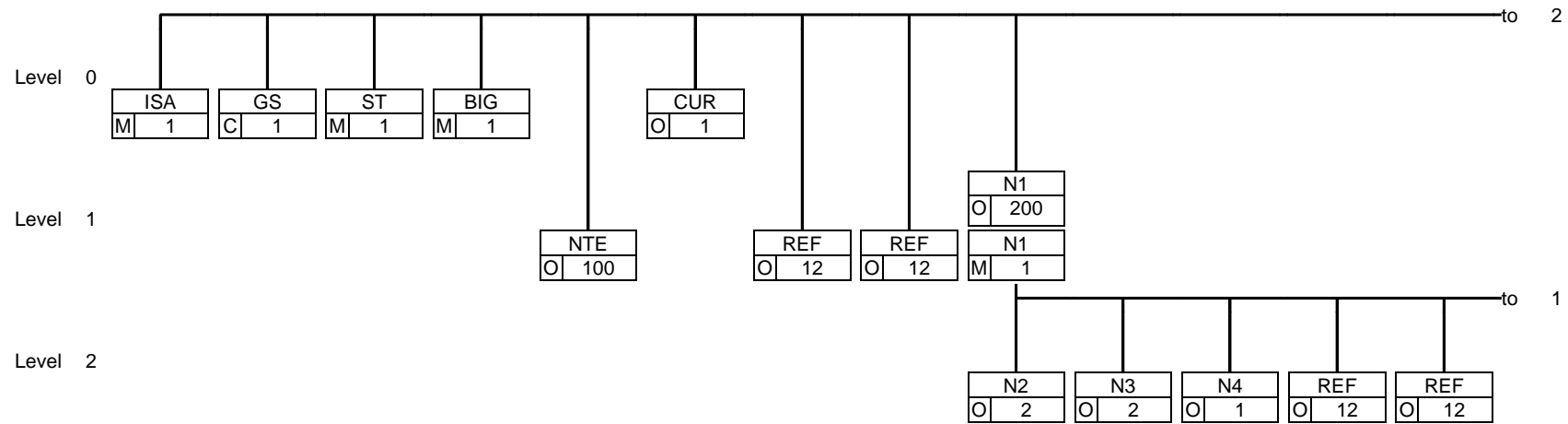
SE*57*0001~

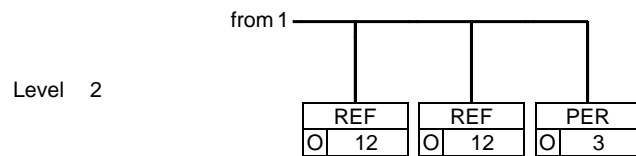
GE*1*1~

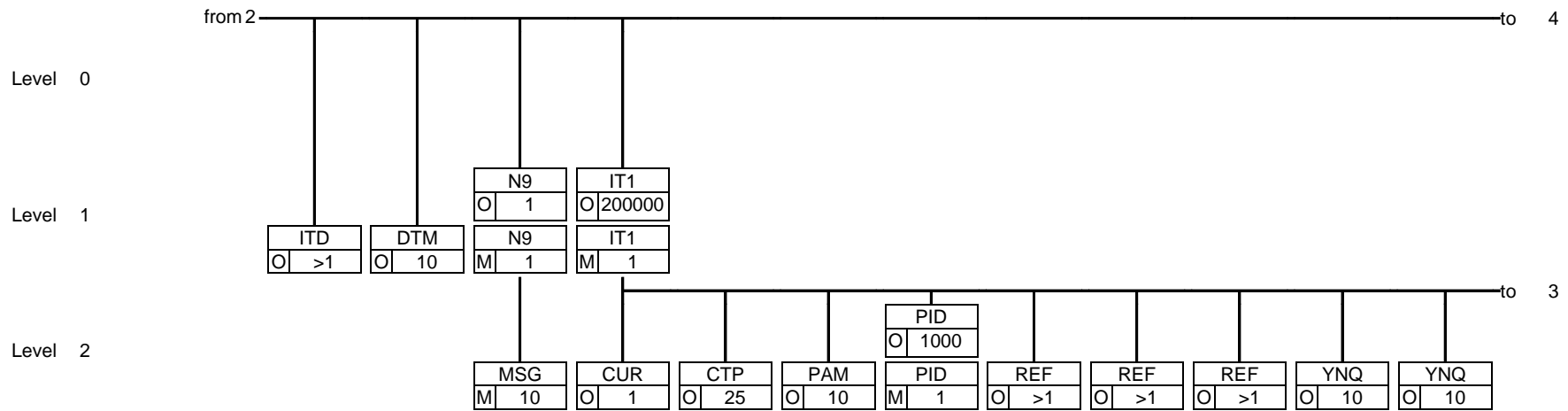
IEA*1*000000001~

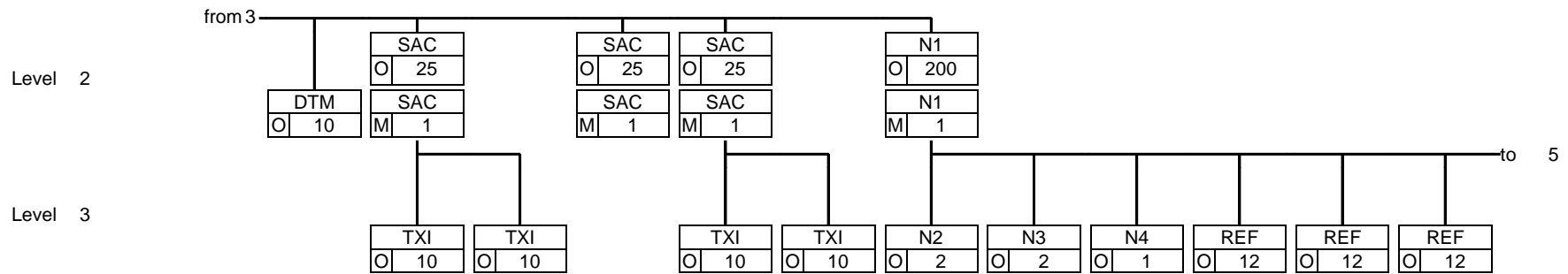
APPENDIX – BRANCHING DIAGRAM

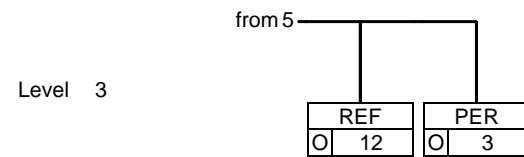
Below you will find a branching diagram for the message which graphically outlines the hierarchical structure and the interdependence between the different segments.

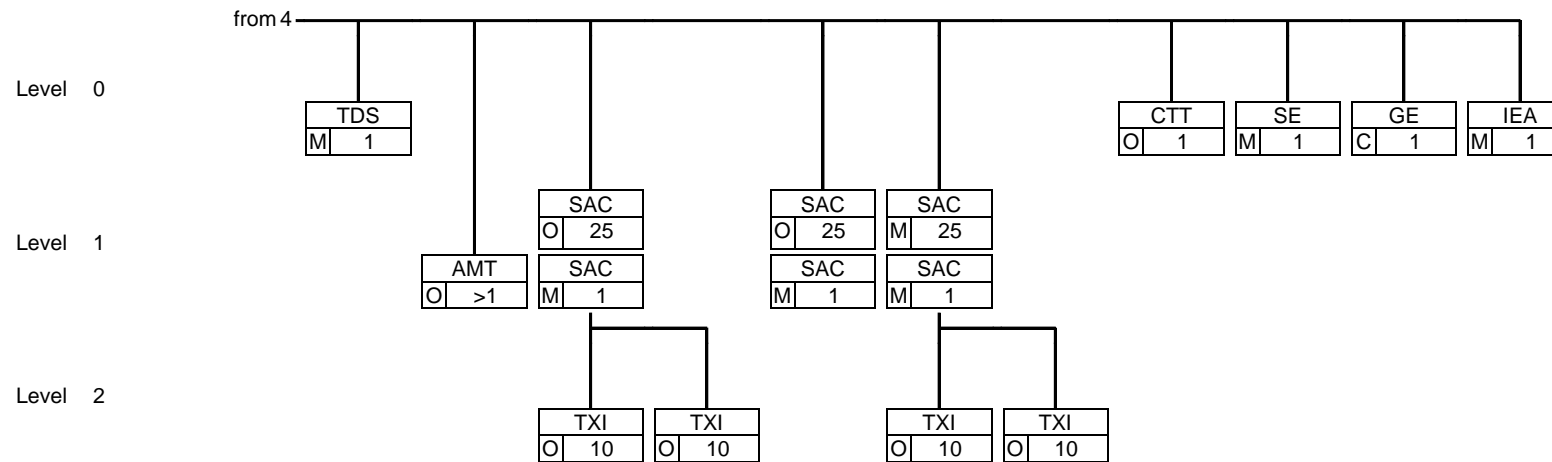












APPENDIX – CODELISTS

26 Country Code	
AF	Afghanistan
AD	Andorra
AE	United Arab Emirates
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AX	• land 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 Barth, lemy
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BQ	Bonaire, Sint Eustatius and Saba
BR	Brazil
BS	Bahamas
BT	Bhutan
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands

26 Country Code	
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
GA	Gabon
GB	United Kingdom
GD	Grenada

26 Country Code	
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

26 Country Code	
MX	Mexico
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

26 Country Code	
SD	Sudan
SE	Sweden
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
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

26 Country Code

UZ	Uzbekistan
VA	Holy See (Vatican City State)
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
XZ	Installations in International Waters
YE	Yemen
YT	Mayotte
ZA	South Africa
ZM	Zambia
ZW	Zimbabwe

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

156 State or Province Code	
LA	Louisiana
MA	Massachusetts
MB	Manitoba
MD	Maryland
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

156 State or Province Code

VT	Vermont
WA	Washington
WI	Wisconsin
WV	West Virginia
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
40	Milliliter per Second
41	Milliliter per Minute
43	Super Bulk Bag

355 Unit or Basis for Measurement Code (UOM)	
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
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

355 Unit or Basis for Measurement Code (UOM)

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
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

355 Unit or Basis for Measurement Code (UOM)

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
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

355 Unit or Basis for Measurement Code (UOM)	
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
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

355 Unit or Basis for Measurement Code (UOM)	
BR	Barrel
BS	Basket
BT	Belt
BU	Bushel
BV	Bushel, Dry Imperial
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)
CX	Coil
CY	Cubic Yard

355 Unit or Basis for Measurement Code (UOM)

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
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

355 Unit or Basis for Measurement Code (UOM)

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
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

355 Unit or Basis for Measurement Code (UOM)	
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
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

355 Unit or Basis for Measurement Code (UOM)	
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
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)

355 Unit or Basis for Measurement Code (UOM)	
LS	Lump Sum
LT	Liter
LX	Linear Yards Per Pound
LY	Linear Yard
M0	Magnetic Tapes
M1	Milligrams per Liter
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
NG	Net Gallons

355 Unit or Basis for Measurement Code (UOM)	
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)
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

355 Unit or Basis for Measurement Code (UOM)

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
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

355 Unit or Basis for Measurement Code (UOM)	
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
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

355 Unit or Basis for Measurement Code (UOM)	
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
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

355 Unit or Basis for Measurement Code (UOM)

WP	Pennyweight
WR	Wrap
WW	Milliliters of Water
X1	Chains (Land Survey)
YD	Yard
YL	100 Lineal Yards
YR	Years
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

623 Time Code

24	Equivalent to ISO M01
AD	Alaska Daylight Time
AS	Alaska Standard Time
AT	Alaska Time
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

963 Tax Type Code

AA	Stadium Tax
AB	Surtax
AT	Assessment
BP	Tax imposed on non-American Indian businesses for the privilege of conducting business on an American Indian reservation
CA	Service Tax imposed by City
CB	Threshold Tax
CG	Federal Value-added Tax (GST) on Goods
CI	Levied by a city government against the periodic fee paid by a customer in return for the right to use the property of another party
CP	County/Parish Sales Tax
CR	Levied by a county government against the periodic fee paid by a customer in return for the right to use the property of another party
CS	City Sales Tax
CT	County Tax
CV	Federal Value-added Tax (GST) on Services

963 Tax Type Code

DL	Default Labor Tax
EQ	Equipment Tax
ET	Tax applied to the utility and petroleum industries
EV	Environmental Tax
F1	FICA Tax
F2	FICA Medicare Tax
F3	FICA Social Security Tax
FD	Usage tax imposed by federal (US and Canadian) government
FF	Fuel Super Fund Tax
FI	Federal Income Tax Withholding
FL	Fuel L.U.S.T. Tax (Leaking Underground Storage Tank)
FR	Tax imposed by municipality for the right to provide service
FS	Fuel Spill Tax
FT	Federal Excise Tax
GR	Gross Receipts Tax
GS	Canadian value-added tax
HS	Canadian tax levied to fund public care and education
HT	Tax assessed to assist the handicapped
HZ	Hazardous Waste Tax
LB	Labor By Trade Tax
LO	Service tax imposed on a local level
LS	State and Local Sales Tax
LT	Local Sales Tax (All Applicable Sales Taxes by Taxing Authority Below the State Level)
LU	Leaky Underground Storage Tank (LUST) Tax (federal); tax imposed in the U.S., at the federal level, for clean-up of leaky underground storage tanks
LV	Leaky Underground Storage Tank (LUST) Tax (state); tax imposed in the U.S., at the state level, for clean-up of leaky underground storage tanks
MA	Material Tax
MN	Minimum Tax
MP	Service tax imposed by a municipality
MS	Miscellaneous State Tax
MT	Metropolitan Transit Tax
OH	Other Taxes
OT	Tax imposed on telecommunication companies for the right to provide service
PG	State or Provincial Tax on Goods
PS	State or Provincial Tax on Services
SA	State or Provincial Fuel Tax
SB	Secondary Percentage Tax
SC	Tax collection by taxing authority for schools
SE	Usage tax imposed by state or provincial government
SF	Superfund is a U.S. government fund created for the clean up or eradication of sites at which toxic waste, hazardous to the environment, has been dumped
SL	State and Local tax funds, exclusive of State and Local Sales tax

963 Tax Type Code

SP	State tax levied which excludes sales or excise taxes
SR	Levied by a state government against the periodic fee paid by a customer in return for the right to use the property of another party
SS	State Tax on Specific Labor
ST	State Sales Tax
SU	Tax on Equipment and Service provided
SX	A tax imposed to pay for enhanced 911 services such as automatic call identification
T1	Pre-threshold Tax
T2	Post Threshold Tax
TD	Tax imposed to recover the cost of providing TDD equipment
TT	Tax imposed on telecommunications companies for the right to provide service or usage tax imposed. (This could be an excise tax)
UL	Tax used to report the amount of license tax which is passed to the consumer
UT	City or county tax for natural gas usage that is imposed upon customers
VA	Value Added Tax
WS	Well Service
ZA	Tax levied to recover the cost of providing 911 emergency services within a city
ZB	Tax levied to recover the cost of providing 911 emergency service within a county
ZC	Usage tax imposed to recover the cost of 911 service
ZD	Tax levied to recover the cost of providing 911 emergency service within a State
ZE	Tax to recover the cost of 911 service
ZZ	Mutually defined

1300 Service, Promotion, Allowance, or Charge Code

A040	Access Charges
A050	Account Number Correction Charge
A060	Acid (Battery)
A122	Additional Tariff Classifications
A170	Adjustment
A520	Base Charge
A960	Carrier
B660	Contract Allowance
C300	Discount - Special
D180	Freight Based on Dollar Minimum
D230	Freight Surcharge
D240	Freight
D242	Freight, International
D270	Fuel Surcharge
D500	Handling
D750	Inbound Freight Charges
D980	Insurance
E620	Metals Surcharge

1300 Service, Promotion, Allowance, or Charge Code

G580	Royalties
G760	Set-up
G821	Shipping
G970	Small Order Charge
H970	Allowance
I530	Volume Discount

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