# NACS Electronic Commerce Guidelines

## XML Business-to-Business Document Exchange

Version 1.0

(NAXML)

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### **DRAFT**

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## Acknowledgments

The NACS EB2B Commerce Committee<sup>1</sup> wishes to acknowledge the members of the Convenience Store XML Task Force who participated in the development of these NAXML Guidelines.

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<sup>&</sup>lt;sup>1</sup> The NACS EB2B Commerce Committee was formerly known as the NACS EDI Standards Working Committee. The two names are used interchangeably in this document.

## Chapter 1 – General Information

#### BACKGROUND

Beginning in late 1995, at the request of the retailer community, NACS began a technology standards initiative. This initiative was aimed at bringing the benefits that accrue from the use of standards to achieve interoperability among systems serving the same function but from different manufacturers. Specific areas addressed included; connectivity, data exchange, and application interoperability. The primary objective was to develop standards in areas where they previously did not exist or to adopt or modify existing standards where feasible.

One of the committees formed was the EDI Standards Working Committee. Early on, the committee recommended that NACS adopt the Uniform Communications Standard (UCS) Guidelines for ASC X12 EDI Standards. These guidelines are administered by the Uniform Code Council (UCC) and maintained by a Standards Maintenance Committee (SMC) composed of EDI practitioners from the convenience store, warehouse distribution, grocery, wine and spirits, and food service industries.

However, the Committee recognized that the UCS Guidelines as written needed extensive modification and reduction in scope to meet the needs of the convenience store industry. The Committee set about developing an EDI Foundation Model for the Convenience Store Industry. This Foundation Model is composed of three business processes: Item Maintenance/Database Synchronization; Fulfillment and Settlement. It covers seven ASC X12 transaction sets: 810 – Invoice; 820 – Payment Notice; 850 – Purchase Order; 878 – Product Authorization/DeAuthorization; 879 – Price Notification; 888 – Item Maintenance; and 889 – Promotion Announcement.

The Committee prepared a set of Functional Profiles for each of these transaction sets (except 820) for submission to the UCS Standards Maintenance Committee. These Profiles have been adopted and published beginning in Version 4020 of the UCS Guidelines. They are available from the UCC on CD-Rom. The Committee expects that it will continue to recommend changes to the UCS Guidelines and Functional Profiles as implementation progresses in the industry.

Additionally, subcommittees of the EDI Committee recommended changes to certain transaction sets and developed Functional Profiles for the business processes involved in (1) motor fuel ordering, delivery, invoicing and payment and (2) lottery product activity and invoicing. Functional

Profiles have been published or are in the process of being published for each of these processes.

The Committee also recognizes that there are still barriers to implementation of traditional EDI within the industry, particularly among the small and mid-sized companies. Implementation of EDI is not an inexpensive proposition both in terms of manpower required to maintain the system and tools to perform mapping and translation.

XML, which was introduced in early 1999 as a "recommendation" of the World Wide Web Consortium, has quickly become a widely supported technology standard for the exchange of data and documents. With its potential for low cost implementation, maintenance, and support the Committee believed there might be an opportunity to use this technology to translate its Functional Profiles into XML DTDs and documents. At the meeting of the Committee on February 2, 2000, it was agreed that a CStore XML Task Force would be created to begin the work on xmlifying EDI documents. Members of the Task Force are identified in the earlier Acknowledgments section. In addition, the NACS Technology Standards Steering Committee directed work be started on xmlifying the lottery documents required for product activity and invoicing. At about the same time, the Motor Fuels subcommittee, known as the Downstream Distributors and Retailers Task Group, began work on xmlifying its business documents.

The CStore XMLTask Force met for the first time on March 23 and 24, 2000, to begin the process of defining the data elements needed for the functions of item synchronization, price notification, promotion announcement and invoicing. The respective working groups have developed the lottery and motor fuels documents. The work contained in this document is a result of all of those efforts.

#### **CAUTION**

The Task Force and Committee recognize that gaps may exist and that they will be uncovered as implementation advances. In addition, it is expected that this work will be blended with the work of the Uniform Code Council (UCC) as its Global Data Dictionary takes shape.

Additionally, changes may be required as the various derivatives of XML reach the approved "standards" stage. The continued participation by wholesalers, suppliers, solution providers and retailers in the work of the Task Force and/or Committee is essential to insure the completion of the task. The committee also believes that early implementers should be aware that changes to the

guidelines may be required and that <u>the Committee and Task Groups</u> will not be constrained by any existing implementation.

#### PROVIDING FEEDBACK

NACS EDI Standards Committee, one of the four working committees of the NACS Technology Standards Project, has an open membership policy. Membership is open to anyone desiring to participate. The results of the Committee's activities are open to feedback and comment by anyone desiring to do so. Feedback and comments are encouraged so that the Electronic Commerce Guidelines – XML EB2B Document Exchange have the broadest possible support within the industry. See below and Appendix C for procedures for submitting feedback and comments.

#### RECOMMENDING CHANGES

A formal adoption procedure is not being pursued at this time because this work is in the early stages of development and may become a subset of the UCC XML EB2B electronic documents or it may be supplemented or replaced at a future date by the UCC work in this area. However, the NACS Technology Standards Committee is expected to review this work and endorse its use in the convenience store industry between consenting trading partners.

Therefore, suggested changes should be submitted to the designated representative, John Hervey, as outlined below:

Comments, suggested changes, or enhancements on these guidelines should be addressed to:

via Mail	via Phone or Fax	via e-mail
John Hervey	John Hervey	Jhervey@gerke.com
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Columbia, MO 65201		

#### **FUTURE WORK**

The Committee anticipates that as refiners, wholesalers, suppliers, solution providers, state lottery authorities, jobbers/distributors, and retailers gain experience with the use of these NAXML guidelines, revisions, modifications and enhancements will be required. As these are identified they will be referred to the respective Task Group for action.

Additional follow-on work is identified elsewhere in this document.

### Chapter 2 – Introduction

#### **PURPOSE**

This document is intended to describe the recommended electronic commerce business-to-business document interchange mechanism and methodology using XML, eXtensible Markup Language, and associated Document Type Definitions (DTDs).

#### **SCOPE**

Topics covered by this document include:

- A history of XML
- How XML works
- Why XML
- NAXML Business Document framework and design principles
- NAXML Business Document Type Definitions (DTDs) NAXML-BusDoc sample documents

#### NAXMLCSTORE

The NACS Electronic Commerce Guidelines – XML Business-to-Business Document Exchange provides a methodology mechanism that allows trading partners to exchange business documents in a standard manner using commonly understood data elements.

Data elements that have been identified for this initial implementation are listed in the Data Dictionary section. Additional data elements may be exchanged as required to meet individual company business requirements.

#### REFERENCES

- [1] NACS POS/Back Office Interface Guidelines Common Data Elements Version 2: Available from NACS at <a href="http://www.cstorecentral.com">http://www.cstorecentral.com</a> go to Technology Standards.
- [2] Extensible Markup Language (XML<sup>TM</sup>): <a href="http://www.w3.org/XML/">http://www.w3.org/XML/</a>

- [3] XML.COM: http://www.xml.com
- [4] IBM XML Web Site: http://www.software.ibm.com/xml/
- [5] MSDN Online- Web Workshop XML TOC: http://msdn.microsoft.com/xml/toc.htm/
- [6] Commerce One Conventions <a href="http://www.commerceone.com">http://www.commerceone.com</a>

## Chapter 3 – XML for DOCUMENT EXHANGE

NACS Electronic Commerce Guidelines – XML Business-to-Business Document Exchange recommend using the eXtensible Markup Language (XML) as a vendor neutral medium for the exchange of business documents between trading partners. Specifically, XML documents contained herein are used to transfer business data between trading partners. The content of these documents is defined and constrained by using document type definitions (or DTDs) as defined in XML 1.0.

#### XML BACKGROUND

XML is essentially a lighter weight, Web-friendly version of its parent language, the Standard Generalized Markup Language (SGML). Like SGML, XML is a meta-language, and for this reason it is suitable for defining other languages or data exchange vocabularies. As such, it is an architecture, not an application. In contrast, HTML is one particular vocabulary that has been defined using SGML. The difference is one of extensibility - while HTML has a single, fixed set of tags designed for a single purpose (describing how a document should be rendered for viewing in a browser), XML may be used to describe new document types in almost limitless ways.

XML brings a host of advantages for solving the problem of loose system-to-system integration and data exchange. It is a readily available open standard, which is designed to attach meaning directly to the data it represents, rendering it both "human readable" as well as simple to work with programmatically. Its ability to flexibly represent data sets whose content may often change makes XML a logical choice for a dynamic business environment. As more and more organizations adopt XML as a standard way to represent virtually any kind of structured data, the ability to exchange data using XML becomes increasingly appealing. In summary, XML offers the following features:

- Vendor neutral
- Human and machine readable
- Flexible and easily extensible
- Handles batch and real-time modes of operation
- Can be used for both legacy and the latest object-oriented systems
- Simple to create and read using "Off-the-Shelf' parsers and other tools

 Approved and hosted by the World Wide Web Consortium (W3C) http://www.w3.org.

#### **HOW XML WORKS**

XML uses data elements to hold data. A data element is made up of three parts: a start-tag, content, and end-tag. The start-tag is enclosed in angle brackets (<>) and contains an identifier (sometimes called a generic identifier, or GI), which names the data. The start-tag may also have attributes (hereafter called XML attributes), which are simple name/value pairs, which describe the content data. The end-tag of the element is also enclosed in angle brackets and uses the same identifier as the start-tag, except that it starts with a slash (/). Data between the start-tag and the end-tag is the content of the element.

A typical XML tag is essentially an instruction issued by the sender (SEN) to the receiver (REC) that states, in effect, to treat the data enclosed in the brackets as the tag specifies, i.e., as customer name if the tags are <CustomerName>....</CustomerName>. Both the receiver and sender must have a common understanding of the tag names that are assigned to fields in an XML document. The use of the NACS EB2B Data Elements assures that both the receiver and sender have agreed on the meaning of the tags. This agreement is assured by the use of an associated Document Type Definition (DTD).

The use of an optional character following an element name in a DTD indicates a usage requirement for the element in the conforming XML document as follows:

- ? indicates the element may be present zero or one time.
- \* indicates the element may be present zero or more times.
- + indicates the element may be present one or more times.
- If no character appears after an element name the element is required one time.

A DTD is a formal definition of data elements allowed and expected in a specific XML document. It specifies what names can be used for tags, where they may occur, the allowed value of associated data content, and how everything fits together.

The body of work contained in this document includes both the NAXML Document Type Definitions (DTDs) and examples of their corresponding XML documents.

It is possible to design a set of XML documents for the interchange of business information without reference to Document Type Definitions (DTDs). However, to do so could produce a chaotic situation whereby each trading partner could specify its own elements and document constructs. The result would be one-off solutions likely negating the benefits gained by "standardization" of the exchange.

#### XML PARSERS

From a programmatic standpoint, XML is very easy to work with, at least in its more basic forms. To generate XML compliant documents, a sending program need only produce standard text in a predefined way. XML receivers typically employ an XML parser to break the incoming document into its constituent data elements.

There are two levels of determining if an XML document is error free. The basic level checks to insure the document is "well-formed", i.e., it conforms to all of the syntactic rules for an XML document. The second level determines if the document is "valid", i.e., does it conform to the DTD that has been associated with it. An XML document can be well-formed but not valid. A valid document also must be well-formed (by definition).

Various XML parsers are available depending on the needs of the third-party application. Some parsers check only for being well-formed and others for being both well-formed and validity. Because these guidelines recommend utilizing DTDs, a validating parser is a necessity. An up-to-date listing of parsers commonly available can be found at <a href="http://www.xml.com">http://www.xml.com</a>.

#### **NAMESPACES**

In July 1999, the W3C approved the namespaces specification. Namespaces provides scoping for element and XML attribute names, and its use avoids naming collisions when XML documents are being exchanged in a broader context. Namespaces are a collection of names that are identified by a URI (Uniform Resource Identifier) where the names are used as XML elements and XML attributes. By reference to an XML namespace, the same element name such as <br/>bat> can be used with different meaning depending upon its referenced namespace declarations. Although these NACS Guidelines do not utilize namespaces in this version, trading partners should provide a namespace reference when exchanging these NAXML-BusDoc documents within a broader

context that can include element and attribute names from other sources.

#### XML SCHEMAS

In April 2000, the W3C issued a set of "last call" draft documents containing the latest version of X-schema. X-schema will extend the capabilities offered by DTDs: it will define data-types (such as string, date, and integer) as well as allow stronger reusable data-structures within documents. Because these documents have not yet been issued as a W3C "Recommendation", they are still subject to change. For this reason the work in this document does not utilize any "unofficial" schema implementation. While other schema definitions already exist (SOX, XDR, etc.), these are each vendor specific. Implementers of these Guidelines should follow the data formats recommended in the Data Dictionary to ease the transition to the more rigorous type checking that Schemas will allow.

It is anticipated that modification of these Guidelines may be necessary when X-schema is issued as a "Recommendation".

#### XSL/XSLT

One of the challenges presented to a designer of XML documents is how to define tags so that they can be easily recognized and used by all trading partners. This simply isn't possible to achieve. However, the use of XSLT (eXtensible Style Sheet Transformations) provides each trading partner the ability to transform an XML document conforming to the NACS Guidelines into an XML document or other document format required by that trading partner. It is left to each trading partner to develop the XSLT stylesheets needed to accomplish its own translation/transformation. For information purposes, one example of a XSLT transformation is provided in these Guidelines.

#### DOCUMENT EXCHANGES

The only requirement imposed by these Guidelines for the exchange of documents is that both trading partners must be able to send the other an EDI like Functional Acknowledgment within 2 to 4 hours of receipt of the primary business document. A Functional Acknowledgment is simply a receipt that the document arrived at its intended destination. It does not imply that the received document is either well-formed or valid. Additional messages may be necessary to provide for choreography between sender and receiver. These may be dealt with at a later time.

## Chapter 4 - NAXML Framework

#### **DESIGN PRINCIPLES**

For this initial version of the Guidelines it is important to note that they have been designed in accordance with the following principles:

- There is no attempt to specify the communications mechanism by which the documents are exchanged at this time. This may be added at a later time. However, it is anticipated that the Internet will be used. Therefore, TCP/IP connectivity is required by both trading partners.
- There is no attempt to specify the application interface between systems, only the business documents they exchange.
- There is no attempt to specify the manner by which the sending system produces the documents or to specify what actions will result when they are received. The Task Force, however, recommends that complete integration of the received business data into the receiver's back office system will be the measure of a successful implementation.
- Because there is no requirement for a particular transport, many aspects of message security, such as digital signatures and similar issues, are not addressed at this time.
- By keeping the integration on the business level, each business is able to present a clear and stable interface to its business partners despite changes in its internal technology implementation, organization or process.
- The extensibility of XML allows data elements not specified in the NACS EB2B Data Element Dictionary to be accommodated. The Committee intends to provide a means to achieve additional flexibility in a later version.
- Parsed character data (#PCDATA) elements will get more explicit data-types when XML Schemas are introduced.

#### XML DOCUMENT CONTENT TYPES

These guidelines have defined the following business document types to facilitate the data exchange:

XML DTD	Corresponding EDI Document		
Item Maintenance	888 - Item Maintenance		

Price Notification	879 - Price Notification
Promotion Announcement	889 - Promotion Announcement
Invoice	810 - Invoice
Purchase Order	850 - Purchase Order
Product Activity	852 – Product Activity
Functional Acknowledgment	997 – Functional Acknowledgment

#### REPOSITORY

On an interim basis, the DTDs and sample XML documents can be located at <a href="http://208.144.173.70/NAXML/DTDs">http://208.144.173.70/NAXML/DTDs</a>/. The Guidelines will be available at <a href="http:www.cstorecentral.com">www.cstorecentral.com</a>. Once testing is complete estorecentral will also be the repository for the DTDs and XML sample documents. The DTDs and sample XML documents shown in this document are hard coded to provide an uri to the above listed server. These should be modified as necessary by implementers and testers.

#### NAXML-BUSDOC DTD USAGE

To be in conformance with these guidelines, the use of a NAXML-BusDoc/LotteryDoc/FuelsDoc.DTD is required in a XML document. The XML document must conform to the corresponding DTD in order to satisfy the requirements of these Guidelines.

#### DOCUMENT NAMING

The XML document should contain all information required to completely identify its content without reference to some external transport mechanism.

#### DOCUMENT CONSTRUCTION

There are 5 DTDs that contain all of the requirements for producing XML documents that provide for the exchange of the business documents.

#### These are:

1. NAXML-DataDictionary.dtd
This DTD contains declarations for all of the data elements listed in the Data
Element Dictionary.

#### 2. NAXML-Common.dtd

This DTD contains declarations for Common Data Elements Entity declarations that are used in all of the XML documents.

#### 3. NAXML-BusDoc.dtd

This DTD defines the structure of Item Maintenance/Database Synchronization, Price Notification, Promotion Announcement, Purchase Order, Invoice, and Product Activity XML business documents.

#### 4. NAXML-LotDoc.Dtd

This DTD defines the structure of Lottery process XML business documents: product activity and invoice.

#### 5. NAXML-FuelsDoc.dtd

This DTD defines the structure of Motor Fuel process XML business documents: invoice, credit card notification, purchase order.

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## Chapter 5 – Data Dictionary

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
Account	Complex Children-Sequence %PartyInfo TotalAccountAmt Batch Transaction		IdentType (Required)	ident (Required)	
Activity	Complex Children (choice) PCDATA ReportPeriod Parties ActivityDetail		UOMBasis(Implied) Pack Each Denotes the basis on which the allowance is being given or taken, such as per case, per box, etc.	status (Implied) QuantityReturned QuantityInTransit QuantityStolen QuantityDamaged QuantitySold QuantityReceived QuantityCommitted QuantityAvailableForSa	
ActivityDate	Simple	Specifies the reference date for activities in the lottery process.	Status (Required) Issued Settlement Shipped Posted Received Returned		
ActivityDetail	Complex Children-Sequence LineItem				
ActivityStatus	Complex Children-Sequence Activity ActivityDate				
AdditionalAllowancAndrCharges	Complex Children-Sequence AllowanceOrCharge ToatalAdditionalAllowances AndChargesNetAmt				
AdditionalTaxes	Complex Children-Sequence Taxes				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	TotalAdditionalTaxesNetA mt				
Address	Simple	The physical address of a party in the trading partner relationship for the transaction.			
AllowanceAmt	Simple	The amount of the allowance being offered or claimed.	UOMBasis (Required) Denotes the basis on which the allowance is being given or taken, such as per case, per box, etc.	currency (Implied) Denotes the code for the currency whose amount is being specified.	quanity (Implied)
AllowanceAndCharges	Complex Children-Sequence DisbursementAllowance OtherAllowanceOrChare TotalAllowancesANdCharg esNetAmt				
AllowanceOrCharge	Complex Children-Sequence AllowanceOrChargeReason Choice: AllowanceAmt ChargeAmt				
AllowanceOrChargeAmt	Simple	The amount of an allowance or charge associated with the referenced activity or item.	currency (Implied) Denotes the code for the currency whose amount is being specified.		
AllowanceOrChargeReason	Simple	The reason an allowance or charge is being taken or offered.	ident	quantity (Implied)	
Batch	Complex Children-Sequence BatchNumber SequenceNumber Terminalld BatchDate ToatlBatchAmt CardType		identType (Required) Choice: Automated Manual		
BatchDate	Simple	The reference date for the batch in the credit card processing reconciliation.			

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
BatchNumber	Simple	The reference number for the batch in the credit card processing reconciliation.			
BillOfLadingNumber	Simple	The reference number for the bill of lading in the motor fuels invoicing process.			
Buyer	Complex Entity – PartyInfo (Name Address City State PostalCode Contact OrganizationId)				
BuyersCost	Simple	The price paid by the buyer for the item.	UOMBasis (Implied) Denotes the code for the currency whose amount is being specified.	currency (Implied)	
CardType	Complex Children-Sequence AllowanceOrCharge		quantity (Required)	grossAmount (Required)	netAmount (Required) identType (Required)
CarrierRefNumber	Simple	The reference number for the carrier in the motor fuels invoicing process.			
ChargeAmt	Simple	The amount of a charge being offered or taken .	UOMBasis (Required) Denotes the basis on which the allowance is being given or taken, such as per case, per box, etc.	currency (Implied) Denotes the code for the currency whose amount is being specified.	Quantity (Implied)
Chargeback	Complex Children-Sequence: CreditCardType ChargebackDate CreditCardAccountNumber AllowanceOrChargeReason PosPaper CrindIndicator TicketNumber Remit		amount (Required)		
ChargebackDate	Simple				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
City	Simple	The city of a party to the transaction.			
ClassOfTrade	Simple	The class of trade generally associated with the item, i.e. grocery, mass merchandiser, fast food, convenience stores, warehouse club stores.			
Conditions	Complex Children-Sequence PromoConditionOption PromoPurchaseUnit Markets Dates Terms				
Contact	Complex Entity-%ContactInfo (ContactType Name Fax Email Phone)				
ContactType	Simple	The function of the designated contact, i.e. manager, accounts receivable, accounts payable, etc.	role (Implied) Specifies the position of the individual whose name is specified as the ContactType, such as AR Clerk, Category Manager, etc.		
CardAccountNumber			3 7 2 2		
CreditCardAccountNumber	Simple				
CreditCardType	Simple				
CreditCardsPreDraft	Complex Children-Sequence ReferenceNumber ReferenceDate DraftDate ReportPeriod Currecncy TotalPreDraftNetAmt CreditCardsProcessed InvoiceReconciliation				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	OtherTransactions				
CredtTCardsProcessed	Complex Children-Sequence TotalCreditCaardsNetAmt Account				
CrindIndicator	Simple		identType (Required)		
Currency	Simple	Specifies the code for the currency being used in the document. At the header level it applies to all amounts in the document, except as specified by an individual Element currency Attribute.	code (Required)		
DateActivated	Simple	The date a book/pack of lottery tickets was activated by the retailer.			
Dates	Complex Children-Sequence Entity-%DateInfo FirstOrderDate LastOrderDate OrderDate RequestedDeliveryDate EffectiveDate EndDate FirstShipDate LastShipDate MarketId DateActivated				
DateSold	Simple	The date a book/pack of lottery tickets was sold by the retailer.			
DeliveryDateAndTime	Simple	The date and time of delivery of products in the motor fuels invoicing process.			
DeferredPayment Date	Simple	The date payment of deferred taxes is due.			
DisbursementAllowance	Complex Children-Sequence DisbusementDate				
DisbursementDate	Complex Children-Sequence		date (Required)		

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	AllowanceOrCharge				
Discount	Complex Children-Sequence DiscountDueDate DisocuntAmt DiscountPercent InvoiceAfterDiscountNetDu eAmt		applies (Required)		
DiscountAllowancePerUnitAmt	Simple	The amount of the discount allowed off the buyers cost for the item on a per unit basis.	currency (Implied) Denotes the code for the currency whose amount is being specified.		
DiscountAmt	Simple	The amount of the discount being offered or taken.	currency (Implied) Denotes the code for the currency whose amount is being specified.		
DiscountDueDate	Simple	The date the invoice must be paid in order to take the discount.			
DiscountMinimumQty	Simple	The minimum quantity of item that must be purchased to qualify for the discount.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
DisocuntPercent	Simple	The percentage to be applied to the invoice to arrive at the discount to be taken or applied.			
DraftDate	Simple	The expected date the retailers/jobbers account will be drafted.			
EffectiveDate	Simple	The date the referenced activity is effective.			
Email	Simple	The e-mail address of a party to the transaction.			
EndDate	Simple	The date on which the referenced activity ends.			
Fax	Simple	The fax telephone number of a party to the transaction.			

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
FirstOrderDate	Simple	The first date on which the referenced item can be ordered.			
FirstShipDate	Simple	The first date on which the referenced item will be shipped.			
FleetCardAccountNumber	Simple				
FleetRebate	Complex Children-Sequence FleetCardAccountNumber Product PosPaper				
FreeGoods	Complex Children-Sequence TradeltemId FreeGoodsQty				
FreeGoodsQty	Simple	The quantity of free goods associated with the referenced promotion.	UOMBasis (Implied) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
GameDescription	Simple	The description of the lottery game.	identType (Required)	ident (Required)	
Gameld	Simple	The identification reference assigned to the lottery game by the issuing authority.	identType (Required) Pack-Book_Number Tickets	ident (Required)	
Invoice (NAXML-BusDoc)	Complex Children-Sequence InvoiceNumber InvoiceDate Currency InvoiceDetail				
Invoice (NAXML-FuelsDoc)	Complex Children-Sequence InvoiceNumber InvoiceDate BillOfLadingNumber CarrierRefNumber Currency				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	InvoiceDetail				
Invoice (NAXML-LotDoc)	Complex Children-Sequence InvoiceNumber InvoiceDate SettlementDate Currency InvoiceDetail				
InvoiceDate	Simple	The date of the invoice.			
InvoiceDescription	Simple	A free form description of the type of invoice.			
InvoliceDetail (NAXML-BusDoc)	Complex Children-Sequence LineItem InvoiceSummary Terms				
InvoliceDetail (NAXML-FuelsDoc)	Complex Children-Sequence LoadingDateAndTime DeliveryDateaAndTime LineItem InvoiceSummary Terms				
InvoliceDetail (NAXML-LotDoc)	Complex Children-Sequence LineItem InvoiceSummary				
InvoiceDue	Complex Children-Sequence InvoiceDate InvoiceNumber InvoiceType InvoiceDescription InvoiceDueAmt		count (Required)		
InvoiceDueAmt	Complex Children-Sequence AllowanceOrCharge Terms		grossAmt (Required)	netAfterAllowanceOrChargeA mt (Required)	netAfterDiscountAmt (Required)
InvoiceDueDate	Simple	The date on which payment of			

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
		the invoice is expected.			
InvoiceAfterDiscountNetDueAmt	Simple	The net amount due and payable after discounts are taken.			
InvoiceNumber	Simple	The reference number assigned to the invoice.			
InvoiceReconciliation	Complex Children-Sequence TotalInvoicesNetAmt InvoiceDue				
InvoiceSubTotals	Complex Children-Sequence InvoiceTradeItemClassifica tion				
InvoiceSummary (NAXML- FuelsDoc)	Complex Children-Sequence InvoiceSubTotals InvoiceTotals				
InvoiceSummary (NAXML-LotDoc)	Complex Children-Sequence InvoiceTotals				
InvoiceTotals (NAXML-BusDoc)	Complex Children-Sequence TotalInvoiceUnits TotalLineItemNetAmt AllowanceOrCharge TotalWeight TotalITaxes TotalInvoiceDueAmt				
InvoiceTotals (NAXML-FuelsDoc)	Complex Children-Sequence TotalInvoiceUnits AdditionalAllowancesAndC harges AdditionalTaxes TotalLineItemNetAmt TotalInvoicesDueAmt				
InvoiceTotals (NAXML-LotDoc)	Complex Children-Sequence LineItems TotalLineItemNetAmt				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	AllowanceAndCharges TotalInvoiceDueAmt				
InvoiceTradeItemClassification (NAXML-BusDoc)	Complex Children-Sequence TradeltemClassificationSys tem TradeltemClassifricationId Lineltems RetailInventoryValue				
InvoiceTradeItemClassification (NAXML-FueIsDoc)	Complex Children-Sequence TradeItemClassificationSys tem TradeItemClassifricationId LineItems				
InvoiceType	Simple	The type of invoice issued.			
InvoiceUnit (NAXML-BusDoc	Complex Children-Sequence InvoiceUnitId InvoiceUnitQty InvoiceUnitCost AllowanceOrCharge Taxes LineItemGrossAmt LineItemNetAmt				
InvoiceUnit (NAXML-FuelsDoc)	Complex Children-Sequence InvoiceUnitId InvoiceUnitQty InvoiceUnitCost Taxes TotalInvoiceUnitPaidTaxes Amt TotalInvoiceUnitNetAmt				
InvoiceUnit (NAXML-LotDoc)	Complex Children-Sequence GameDescription GameId InvoiceUnitQty InvoiceUnitCost RetailUnitQty RetailPrice (DateActivated OR				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	DateSold) AllowanceOrCharge LineItemGrossAmt LineItemNetAmt				
InvoiceUnitCost	Simple		currency (Implied) Denotes the code for the currency whose amount is being specified.		
InvoiceUnitId	Simple	The identification of the line item.	identType (Required) VIN PLU GTIN. Indicates the type of identification scheme used to identify the PromoPurchaseUnit.		
InvoiceUnitQty	Simple	The quantity of the line item being invoiced.	fuelUOMBasis (Implied) Gross_Gallons Net_Gallons Lottery UOMBasis (Implied) Pack Book Each CstoreUOMBasis (Implied) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
ItemPrice	Complex Children-Sequence Currency Tradeltem Shipper Promotion				
ItemPromo	Complex Children-Sequence Currency Tradeltem Shipper				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	Promotion				
ItemSync	Complex Children-Sequence Currency Tradeltem Shipper Promotion				
LastOrderDate	Simple	The last date on which the referenced item can be ordered.			
LastShipDate	Simple	The last date on which the referenced item will be shipped.			
LineItem (NAXML-BusDoc)	Complex Children-Sequence (PurchaseOrderInfo InvoiceUnit RetailUnitPricing PurchaseOrderUnit) OR (PurchaseOrderUnit RetailUnitPricing TradeItemClassification) OR (InvoiceUnit RetailUnit)		count (Required)		
LineItem (NAXML-FuelsDoc)	Complex Children-Sequence InvoiceUnit		count (Required)		
LineItem (NAXML-LotDoc)	Complex Children-Sequence (InvoiceUnit OR GameDescription GameId ActivityStatus)		count (Required)		
LineItemGrossAmt	Simple	The gross amount being invoiced for the line item.	identType (Implied) Credit Debit  Denotes the code for the currency whose amount is being specified.	amount (Implied)	currency (Implied)

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
LineItemNetAmt	Simple	The net amount being invoiced for the line item after discounts, allowances, charges and taxes.	identType (Implied) Credit Debit Denotes the code for the currency whose amount is being specified.	amount (Implied)	currency (Implied)
LineItems (Empty)	Simple	The number of line items in the invoice or purchase order.	count (Required) A count of the number of line items included in the invoice or purchase order.		
LoadingDateaAndTime	Simple	The date and time the product(s) was/were loaded on the delivery vehicle.			
MarketId	Simple		identType (Required) Choice All Area Location State Postal Code Other Specifies the type of identification scheme used to identify the Market, such as All, Area, Location, State, Postal Code, etc.	identRole (Implied) Choice Supplier Buyer Manufacturer Other Specifies who has identified the identification scheme in identType, such as Supplier, Buyer, etc.	
Markets	Complex Children-Sequence MarketId Dates				
Measures	Complex Children-Sequence PackageHeight PackageWidth PackageDepth PackageNetWeight PackageGrossWeight PackageVolume PackageNetContent				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
MinimumOrderQty	Simple	The minimum quantity of this item that can be ordered.			
MinimumPurchaseQty	Simple	Indicates the minimum quantity of the Purchase Unit that must be purchased to qualify for the price quoted.			
MinimumPurchaseQtyRequired	Simple	The minimum quantity of the item that must be ordered in order to satisfy the requirements of the referenced promotion.			
MinimumShipQty	Simple	The minimum quantity of the item that will be shipped.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
Name	Simple		identType (Implied) Indicates the type of identification scheme being used to identify the party, such as, DUN +4, AR num, FEIN	ident (Implied) The identifying number or description referenced by the identType	
NAXML-BusDoc	Complex Children-Sequence TransmissionHeader Parties ItemSync ItemPrice ItemPromo Invoice PurchaseOrder		version (Required)		
NAXML-FuelsDoc	Complex Children-Sequence TransmissionHeader Parties Invoice CreditCardsPreDraft PaymentOrder		version (Required)		

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
NAXML-LotDoc	Complex Children-Sequence TransmissionHEader Parties Invoice Activity		version (Required)		
OrderDate	Simple	The date on which the order was placed.			
OrganizationId	Simple	The identification of the organization within the hierarchy of the referenced party.	,		
Other	Complex Entity – PartyInfo (Name Address City State PostalCode Contact OrganizationId)				
OtherAllowanceOrCharge	Complex Children-Wequence AllowanceOrCharge				
OtherTransactions	Complex Children-Sequence Account				
PackageDepth	Simple	The distance from the front face of the item package to the back.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
PackageGrossWeight	Simple	The overall weight of the item. It includes the item weight and the weight of the packaging.			
PackageHeight	Simple	The height of the trade item as measured on the front face.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
PackageNetContent	Simple	The net contents of the item package excluding the package.	UOMBasis (Required)		

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
			The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
PackageNetWeight	Simple	The weight of the item exclusive of the packaging.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
PackageSize	Simple	The size of the package.	identType (Required) Choice Retail Ship Inner Outer Identifies the type of measurement being used, such as, Retail, Shipper, inner, outer, etc.		
PackageSizeMultiplier	Simple	Indicates the number of			
PackageVolume	Simple	The volume of the item.	UOMBasis (Required)	The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,	
PackageWidth	Simple	The width of the item.	UOMBasis (Required)	The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,	
Packaging	Complex Children-Sequence PackagingMaterialType PackagingType	Used as a group header w/attributes.	markedReturnable (Required) Specifies whether or not the packaging is returnable.	markedRecyclable (Required) Specifies whether or not the packaging is recyclable.	
PackagingMaterialType	Simple	The type of packaging, i.e., corrugated cardboard, plastic, etc.			
PackagingType	Simple	The type of packaging for the item being referred to: each, case, box, etc.			
Parties	Complex Entity-%Partyld				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	(Supplier Buyer Other)				
Partyld	Simple	The identification of the party to the transaction.			
PaymentDate	Simple	The date on which the payment is to be made.			
PaymentOrder	Complex Children-Sequence ReferenceNumber ReferenceDate PaymentDate ReportPeriod Currency TotalPaymentNetAmt InvoiceReconciliation				
Phone	Simple	The telephone number of the party.			
PosPaper	Simple		identType (Required) Choice POS Paper		
PostalCode	Simple	The postal code of the party. In the US this is the zip code.	·		
PrePaidActivation	Complex Children-Sequence CardAccountNumber Terminalld TicketNumber PromotionIndicator				
Product (Empty)	Simple	volume (Required)	ident (Required)		
PromoConditionOption	Simple		count (Implied)		
PromoConditionRequirement	Simple		actionType (Required)	value (Implied)	
PromoPurchaseUnit	Complex Children-Sequence Entity- %PromoPurchaseInfo				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	AllowanceOrChargeReaso n (AllowanceAmt OR ChargeAmt) TradelTemId TradeltemDescription PromoRetailUnit FreeGoods				
PromoPurchaseUnitId	Simple		identType (Required) VIN PLU GTIN Indicates the type of identification scheme used to identify the PromoPurchaseUnit,		
PromoPurchaseUnitQty	Simple	The quantity of the promotional item in the promotional offer.	identType (Required) VIN PLU GTIN Indicates the type of identification scheme used to identify the PromoPurchaseUnit whose quantity is being specified.	ident (Required) Specifies the code value or description indicated by the identType.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,
PromoQuantityDiscount	Simple	The quantity discount associated with the promotional item.	identType		
PromoRetailUnit	Complex Children-Sequence Entity-%RetailInfo RetailPrice				
Promotion	Complex Children-Sequence PromotionStatus EffectiveDate Markets		ident (Required)		

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	Dates Terms Conditions				
PromotionIndicator	Simple		identType (Required)		
PromotionOption	Simple	A sequential number used to indicate the option.			
PromotionPeriod	Simple		startDate (Required)	endDate (Required)	
PromotionStatus	Simple	The status of the promotion.	actionType (Required) Confirm Accept Delete Restore Indicates the action required to be taken with regard to the promotion	IdentPromo (Required)	
PurchaseOrder	Complex Children-Sequence PurchaseOrderNumber Dates Currency PurchaseOrderDetail				
PurchaseOrderDate	Simple	The date of the purchase order.			
PurchaseOrderDetail	Complex Children-Sequence Terms LineItem PurchaseOrdersummary				
PurchaseOrderInfo	Complex Children-Sequence PurchaseOrderDate PurchaseOrderNumber PurchaseOrderQty PurchaseOrderUnitId				
PurhaseOrdeNumber	Simple	The reference number for the purchase order.			
PurchaseOrderQty	Simple		UOMBasis (Implied)) The Unit of Measure Basis is,		

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
			i.e. ounces, pounds, liters, etc.,		
PurchaseOrderSummary	Complex Children-Sequence LineItems				
PurchaseOrderUnit	Complex Children-Sequence PurchaseOrderUnitId PurchaseOrderUnitQty BuyersCost AlkowanceOrCharge Taxes				
PurchaseOrderUnitId	Simple	The identification of the item on the purchase order.	identType (Required) Choice GTIN VIN PLU Indicates the type of identification scheme used to identify the PurchaseOrderUnit.		
PurchaseOrderUnitQty	Simple	The quantity of the trade item ordered on the purchase order.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
PurchaseUnit	Complex Children-Sequence Entity-%PurcahseInfo Measures				
PurchaseUnitId	Simple	The identification of a purchase unit.	identType (Required) Choice GTIN VIN PLU Indicates the type of identification scheme used to identify the PurchaseUnit	ident (Implied) Identifies the TradeItem specified by the scheme in identType.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
PurchaseUnitPricing	Complex Children-Sequence Entity-%PurchaseInfo BuyersCost AllowanceOrChargeAmt				
PurchaseUnitQty	Simple	Identifies the quantity of the Trade item contained in the purchase unit packaging.	identType (Required) Choice GTIN VIN PLU Indicates the type of identification scheme used to identify the Tradeltem in the PurchaseUnit.	dent (Implied) Identifies the TradeItem specified by the scheme in identType.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,
ReferenceDate	Simple	A specific date being referenced in the motor fuels invoicing process.			
Remit	Complex Children-Sequence RemitTo RemitToAddress				
RemitTo	Simple				
RemitToAddress	Simple				
ReportPeriod	Simple	The period of time included in the report.			
RequestedDeliveryDate	Simple				
RetailPrice	Simple	The suggested retail price of the item.	currency (Implied) Denotes the code for the currency whose amount is being specified.		
RetailInventoryValue	Simple	The inventory value of the item or group of items calculated at regular retail price.	currency (Implied) Denotes the code for the currency whose amount is		

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
			being specified.		
RetailUnit	Complex Children-Sequence Entity-%RetailInfo Measures				
RetailUnitId	Simple		identType (Required) Choice GTIN VIN PLU Indicates the type of identification scheme used to identify the RetailUnit.	ident (Implied) Identifies the TradeItem specified by the scheme in identType.	
RetailUnitPricing	Complex Children-Sequence Entity-%RetailInfo RetailPrice Dates Markets				
RetailUnitQty	Simple		identType (Required) Choice GTIN VIN PLU Indicates the type of identification scheme used to identify the Tradeltem in the RetailUnit.	ident (Implied) Identifies the TradeItem specified by the scheme in identType.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,
SequenceNumber	Simple	Used in the credit card processing reconciliation to denote a sequence within a batch.			
SettlementDate	Simple	Used in the lottery process to indicate the draft date for the invoice.			
Shipper	Complex Children-Sequence				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
	ShipperItemId Measures Dates Markets ShipperItem				
ShipperITem	Complex Children-Sequence Tradeltem				
ShipperItemId	Simple	Identifies the shipper.	identType (Required) Choice GTIN VIN PLU Indicates the type of identification scheme used to identify the ShipperItem.		
Size	Simple				
State	Simple	The state code of the US state or Canadian Province of the party in the trading partner relationship.			
Supplier	Complex Entity – PartyInfo (Name Address City State PostalCode Contact OrganizationId)				
Taxes	Complex Childeren Choice: PCDATA DeferredPaymentDate	A group heading for taxes.	taxable (Required) Choice Yes No (Default) Indicates whether or not the item is taxable.	(Implied) Indicates the type of tax such as, sales tax, VAT, etc.	taxAmount (Implied) Indicates the amount of tax to be applied to the item.
TerminalID	Simple	Used in credit card processing reconciliation to indicate the terminal at the retailer's location which processed the credit			

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
		cards.			
Terms (NAXML-BusDoc)	Complex Children-Sequence TermsType (InvoiceDueDate Discount) OR (Discount)				
Terms (NAXML-FuelsDoc)	Complex Children-Sequence TermsType InvoiceDueDate Discount				
TermsOfSale	Simple				
TermsType	Simple	The type of terms being offered or requested.	Ident (Implied) Specifies the type of Terms being offered or taken, such as, 1% 10 days etc,		
TotalAccountAmt	Simple	The total of credit cards processed for the identified account.	amount (Required)		
TotalAdditionalAllowancesAndCharg esNetAmt	Simple	The total of all additional allowances or charges.	IdentType (Required) Choice: Credit Debit	amount (Implied)	currency (Implied)
TotalAdditionalTaxesNetAmt	Simple	The total of all additional taxes not identified by line itme.	IdentType (Required) Choice: Credit Debit	amount (Implied)	currency (Implied)
TotalAllowancesAndChargesNetAmt	Simple	The total of all allowance and charges identified by line item.			
TotalBatchAmt	Simple	The total amount of credit or debit of all credit cards processed within the identified batch.			
TotalCreditOrDebitAmt	Simple	The total credit or debit identified within the structure.	IdentType (Required) Choice: Credit Debit	amount (Required)	currency (Implied)

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
TotalCreditCardsNetAmt	Simple	The net amount of all credit cards associated entire reconciliation.	IdentType (Required) Choice: Credit Debit	amount (Required)	currency (Implied)
TotalInvoiceDueAmt	Simple	The total amount due on the specified invoice.	IdentType (Required) Choice: Credit Debit		
TotalInvoicesDueAmt	Simple	The total amount due and payable on all invoices after taxes and allowances or charges.	IdentType (Required) Choice: Credit Debit	netAfterAllowanceOrChargeA mt (Implied)	netAfterDiscountAmt (Implied)
TotalInvoicesNetAmt	Simple	The net amount of all invoices inclusive of paid taxes and allowances or charges.	IdentType (Required) Choice: Credit Debit	amount (Implied)	currency (Implied)
TotalInvoiceUnitNetAmt	Simple	The total of the invoice inclusive of taxes and allowances.			
TotalInvoiceUnitPaidTaxesAmt	Simple	The amount of taxes to be paid on the invoice (exclusive of deferred taxes).			
TotalInvoiceUnits Empty	Simple	The total number of invoiced line items.	count (Required) A count of the number of invoiced units included		
TotalLineItemNetAmt	Simple	The total net amount for the line item.	IdentType (Required) Choice: Credit Debit	amount (Implied)	currency (Implied)
TotalPaymentNetAmt			IdentType (Required) Choice: Credit Debit	amount (Implied)	currency (Implied)
TotalPreDraftNetAmt	Simple		IdentType (Required) Choice: Credit Debit	amount (Implied)	currency (Implied)

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
TotalTaxes	Simple	The total amount of tax charged on the invoice.			
TotalWeight	Simple	The total weight of all items and packaging on the invoice.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
TradeItem	Complex Children-Sequence TradeltemId TradeltemDescription (TradeltemStatus OR TradeltemPriceStatus OR TradeltemPromotionStatus) EffectiveDate EndDate (TradelTemIdentification OR TradelTemDeleteIdentification) TradeltemShipper Dates Markets (PurchaseUnit OR PurchaseUnit OR RetailUnit OR RetailUnitPricing)				
TradeItemAlcoholPercentVolume	Simple	Indicates the percentage of alcohol by volume contained in the item.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
TradelTemlClassification	Complex Children-Sequence TradeItemClassificationSys tem TradeItemClassificationId				
TradeItemClassificationId	Simple	A grouping of trade items into a category hierarchy.	identType (Required) Choice Category Subcategory Segment Indicates the type of identification scheme and level used to classify a Tradeltem.		

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
TradeItemClassificationSystem		A classification of trade item hierarchy as published by a trade or other organization. Examples: National Association of Convenience Stores.			
TradeITemDeleteIdentification	Complex Children-Sequence TradelTemReplacedByld EffectiveDate				
TradeItemDescription	Simple	The free form description of the item.	identType (Implied) Choice Manufacturer Brand POS Indicates the identifying scheme for the description.	length (Implied) Specifies the number of characters in the description. Used for Tradeltem customer display descriptions, receipt descriptions, etc.	
TradeItemFamilyCode	Simple	The manufacturer's product family code used for couponing.			
TradeltemId		other identification.	identType (Required) Choice GTIN VIN PLU Indicates the type of identification scheme used to identify the Tradeltem.		
TradeItemIdentification	Complex Children-Sequence TradeItemReplacesId TeradeITemOrderingUnitIn dicator TradeItemFamilyCOde TradeItemSize TradeItemAlcoholPercentV olume TradeItemClassification				

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
TradeItemMultiPack	Simple	Indicates whether or not the trade item is part of a multipack.	yesOrNo (Required) Choice:		
TradeItemOrderingUnitIndicator	Simple	An indicator showing whether or not the item is an ordering unit.	r yesOrNo		
TradeItemPriceStatus	Simple	An indicator of the action to be taken regarding the price of the trade item.	actionType		
TradeItemPromotionStatus	Simple	The status of the trade item promotion.	actionType (Required) Choice Add Change Delete Restore Indicates the action required to be taken with regard to the promotion, such as add, change, delete, restore.		
TradeItemReplacedBy	Simple	Indicates that the Trade Item referenced by this identifier is being replaced by the Trade Item identified in TradeItemId.	identType (Required) Choice GTIN VIN PLU Indicates the type of identification scheme used to identify the replacing		

Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
			Tradeltem.		
TradeItemReplacesId	Simple	replaces the Trade Item identified in TradeItemId.	identType (Required) Choice GTIN VIN PLU Indicates the type of identification scheme used to identify the replaced Tradeltem.		
TradeItemShipper (Empty)	Simple	Identifies whether the item is a shipper.	is a shipper.	multiltem (Implied) Choice: Yes No (Default) Conditional. Specifies that if the Tradeltem is a shipper whether or not it contains multiple Tradeltems.	
TradeItemSize	Simple	This is the measured quantity of the net contents of the trade item in its packaged configuration, i.e. 12.	UOMBasis (Required) The Unit of Measure Basis is, i.e. ounces, pounds, liters, etc.,		
TradeItemStatus (Empty)		this transaction.	actionType (Required) Choice add change existing delete restore Indicates the action to be taken with the identified Tradeltem.		
TransactionDate		The date the transaction was created by the seller.			
TransactionStatus Empty		The status type of the transaction.	actionType (Required) Choice Original Change		

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Element Name	Element Type	Element Description	Attribute	Attribute	Attribute
			Resend Indicates the action to be taken with the transmission.		
TransactionTime		The time the transaction was created by the sender.			
TransmissionHeader	Complex Children-Sequence TransactionId TransactionDate TransactionTime TransactionStatus				

#### Chapter 6 – NAXML Document Type Definitions (DTD) For General Merchandise – NAXML-BusDoc.dtd

An electronic version of the NAXML dtds is available from http://208.144.173.70/NAXML/DTDs/.

Data elements are declared in the appropriate DTD.

The use of an optional character following an element name in a DTD indicates a usage requirement for the element in the conforming XML document as follows:

- ? indicates the element may be present zero or one time.
- \* indicates the element may be present zero or more times.
- + indicates the element may be present one or more times.

If no character appears after an element name the element is required one time.

The DTDs and sample XML documents shown in this document are hard coded to provide an uri to the above listed server. These should be modified as necessary by implementers and testers.

#### NAXML DATA DICTIONARY

This is the DTD for the convenience store general merchandise business documents. All of the following types of documents can be incorporated in a single XML instance conforming to this dtd:

- 1. Item Synchronization
- 2. Item Price Notification

- 3. Item Promotion
- 4. Item Purchase Order
- 5. Item Invoice
- 6. Lottery Invoice
- 7. Lottery Activity
- 8. MotorFuels Invoice
- 9. Motor Fuels Credit Card Processing and Pre-Draft Notification.

# Chapter 7 – NAXML Document Type Definitions (DTD) For Lottery Process– NAXML-LotDoc.dtd

An electronic version of the NAXML dtds is available from <a href="http://208.144.173.70/NAXML/DTD">http://208.144.173.70/NAXML/DTD</a>s/.

## Chapter 8 – NAXML Document Type Definitions (DTD) For Motor Fuels – NAXML-MotorFuelsDoc.dtd

An electronic version of the NAXML dtds is available from <a href="http://208.144.173.70/NAXML/DTD">http://208.144.173.70/NAXML/DTD</a>s/.

#### Chapter 9 - NAXML Sample Documents

An electronic version of the NAXML sample documents is available from http://208.144.173.70/NAXML/DTDs/.

These documents may be used as standalone documents or they may be combined into one document contained any combination of these documents. For illustration purposes they are shown as variations of individual document types: item synchronization; price notification; promotion announcement; purchase order; and invoice.

### Chapter 10 - Sample XSL Documents

An electronic version of the NAXML sample documents in this chapter are available from <u>www.cstorecentral.com</u> go to Technology Standards and look for NAXML Samples.

## Appendix A – Implementation Notes

1. In the transmission header, NAXMLCStoreVersion refers to the version of the NACS Electronic Commerce Guidelines - XML Business-to-Business Document Exchange being used.

## Appendix B - Obtaining Additional Information

The minutes of the Task Force sessions are available from NACS at www.cstorecentral.com. To access do the following:

- 1. Logon to www.cstorecentral.com
- 2. Select Technology Standards
- 3. Select EDI Standards Committee
- 4. Select Meeting Minutes

#### Additional information may also be obtained by contacting:

via Mail	via Fax	via e-mail
John Hervey	John Hervey	Jhervey@gerke.com
Gerke & Associates, Inc.	270-782-1641 Voice	
2511 Old 63 South	270-846-1002 Fax	
Columbia, MO 65201		

### Appendix C – Recommending Changes

The CStore XML Task Force meetings have been conducted under the auspices of the NACS EDI Standards Working Committee, one of the four working committees of the NACS Technology Standards Project. Membership on both the EDI Standards Working Committee and the CStore XML Task Force is open to anyone desiring to participate. The results of the Committee's activities are open to feedback and comment by anyone desiring to do so. Feedback and comments are encouraged so that these guidelines have the broadest possible support and implementation within the industry.

The NACS Technology Committee has endorsed the work of the Task Force in this area and encourages all NACS members to participate in this effort.

Because this work is in the early stages of development and may become a subset of the UCC XML EB2B electronic documents or it may be supplemented or replaced at a future date by the UCC work in this area a formal adoption procedure is not being pursued at this time. However, the NACS Technology Standards Committee is expected to review this work and endorse its use in the convenience store industry between consenting trading partners.

Therefore, suggested changes should be submitted to the Task Force representative, John Hervey, as outlined below:

Comments, suggested changes, or enhancements on these guidelines should be addressed to:

via Mail	via Fax	via e-mail
John Hervey	John Hervey	Jhervey@gerke.com
Gerke & Associates, Inc.	270-782-1641 Voice	
2511 Old 63 South	270-846-1002 Fax	
Columbia, MO 65201		

## Appendix D – Record of Changes

This is a complete record of modifications, enhancements and changes to these Guidelines.

Section	Change	