XSD Change Log
XSD Modifications

Overview

This document contains all changes made to the 3901 XML Schema (XSD) Specification following the summer 2003 ballot. Member comments are represented as well as specific backwards compatibility issues that were introduced as a result of moving the Specification toward UBL Naming and Design Rules guidance.

This document relates to the OFS Portal and Custody Ticket (Transport 4) Schemas that were incorporated into 3901 for the summer 2004 ballot.

Any/all naming and design rules or architectural aspect of the PIDX 3901 Schema specification is outside the scope of this document.
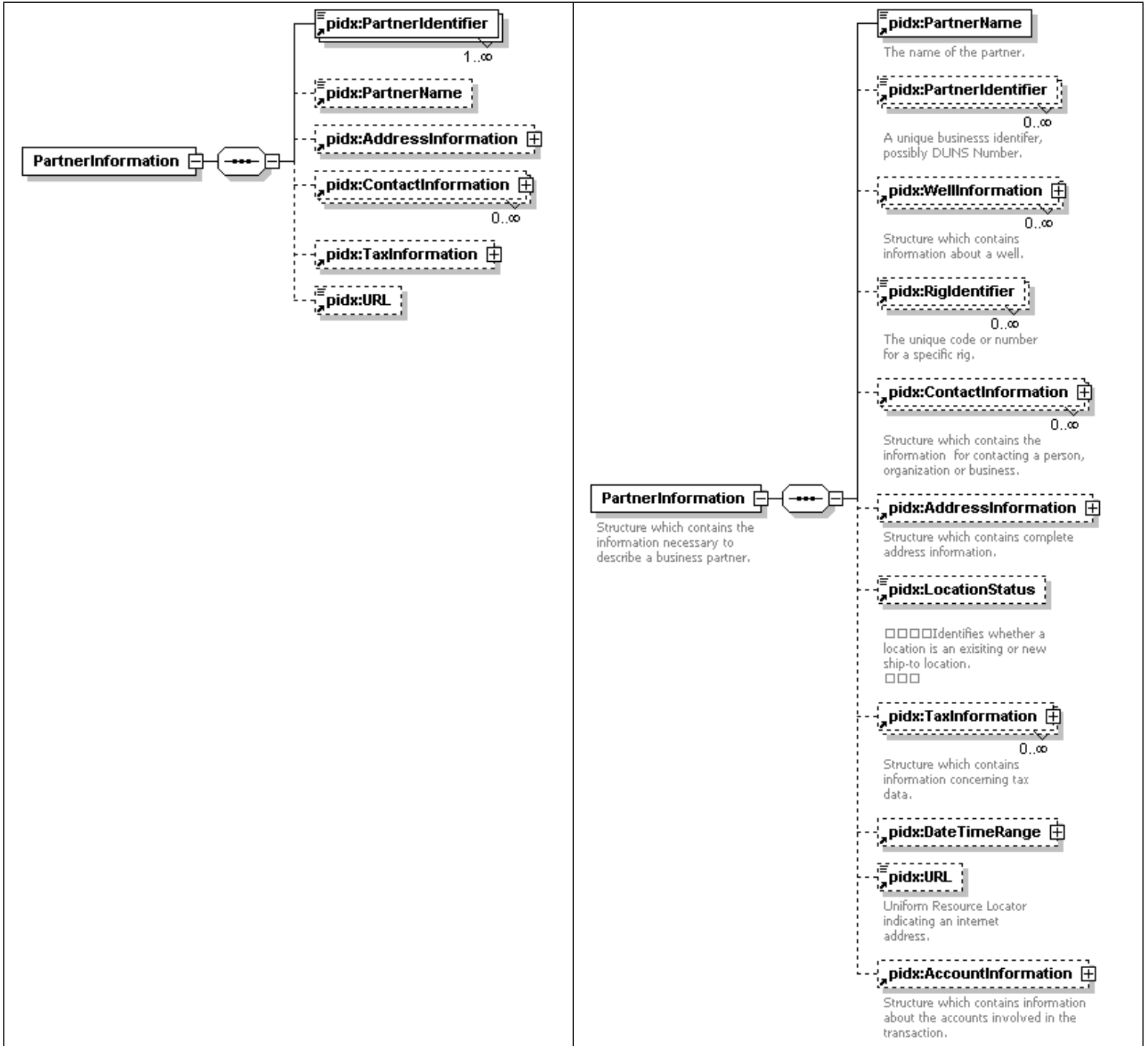
Detailed Changes

This section outlines specific changes made to the 3901XSDs after the summer 2004 ballot. Many of these changes resulted from merging 3901 content with OFSPortal and Transport 4 XSDs. These changes were reviewed at the 1/30/2004 Business Messages Work Group Meeting.

Content Harmonization Issues

1. PartnerInformation

Previous Schema	New Schema

Change #: 1a

Description: Retain element ordering of old schema, i.e. PartnerIdentifier, PartnerName, AddressInformation, ContactInformation, TaxInformation, then URL. All new subordinate elements (WellInformation, RigIdentifier, LocationStatus, DateTimeRange, AccountInformation) should be added *after* the URL element

Impact of Not Implementing Change: Major

Comments: Required for backwards compatibility.

XSD Modification(s): The change(s) described here have been made.

Change #: 1b
Description: PartnerName should revert to being optional
Impact of Not Implementing Change: Major
Comments: Required for backwards compatibility
XSD Modification(s): The change(s) described here have been made.

Change #: 1c
Description: The new PartnerInformation@partnerRole attribute is synonymous with the PartnerInformation@partnerRoleIndicator attribute. partnerRoleIndicator is already in use so partnerRole should be eliminated. Any partnerRole enumerations that are not in the enumeration list for partnerRoleIndicator can be added.
Impact of Not Implementing Change: Major
Comments: Required for backwards compatibility
XSD Modification(s): The change(s) described here have been made.

Change #: 1d
Description: Eliminate PartnerInformation.WellInformation
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema. Is WellInformation a logical subordinate to PartnerInformation? WellInformation also appears under JobLocationInformation, which seems like a more suitable structure.

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
Gary Strickland noted that some of the designers may have intended this Well Information content as specific to Trading Partner(s).
OFSPortal will want to look at this to verify acceptance.
XSD Modification(s): The change(s) described here have been made.

Change #: 1e
Description: Eliminate PartnerInformation.RigIdentifier
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema. Is RigIdentifier a logical subordinate to PartnerInformation? Within existing PIDX structures, the Rig can be identified under JobLocationInformation.JobLocationIdentifier[@jobLocationIdentifierIndicator="Rig"], e.g.
<JobLocationInformation>
        <JobLocationIdentifier jobLocationIdentifierIndicator="Rig">abc</JobLocationIdentifier>
</JobLocationInformation>
Putting the rig subordinate to location seems like a more suitable structure.

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
OFSPortal will want to look at this to verify acceptance.
XSD Modification(s): The change(s) described here have been made.

Change #: 1f
Description: Eliminate PartnerInformation.LocationStatus
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema. Why is this a subordinate to PartnerInformation?
XSD Modification(s): The change(s) described here have been made.

Change #: 1g
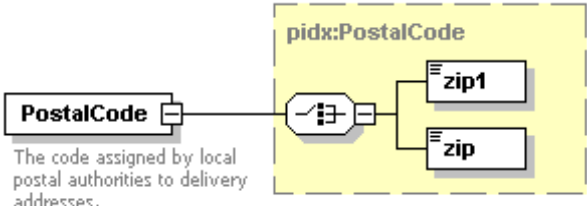**Description:** Eliminate PartnerInformation.DateTimeRange
Impact of Not Implementing Change: Minor

Comments: Inherited from merge with OFS schema. Why is this a subordinate to PartnerInformation?
XSD Modification(s): The change(s) described here have been made.

2. PostalCode

Previous Schema	New Schema

Change #: 2a
Description: Revert PostalCode from a complexType back to a string type, eliminating zip1 and zip subordinate elements. If desired, the annotation could indicate that zip codes can go into the PostalCode element, although the annotation in the new schema is probably sufficient.
Impact of Not Implementing Change: Major
Comments: Required for backwards compatibility

Resolution: Barring any objections, LMI will modify the XSD to reflect the change. LMI had originally changed the type definition from a string to a more stringent definition. The PIDX business community, however, prefers the more open approach.
XSD Modification(s): The change(s) described here have been made.

3. AddressInformation

Previous Schema	New Schema

Change #: 3a
Description: Move StreetDirection element after LocationIdentifier. This keeps the original element ordering from the PIDX schema
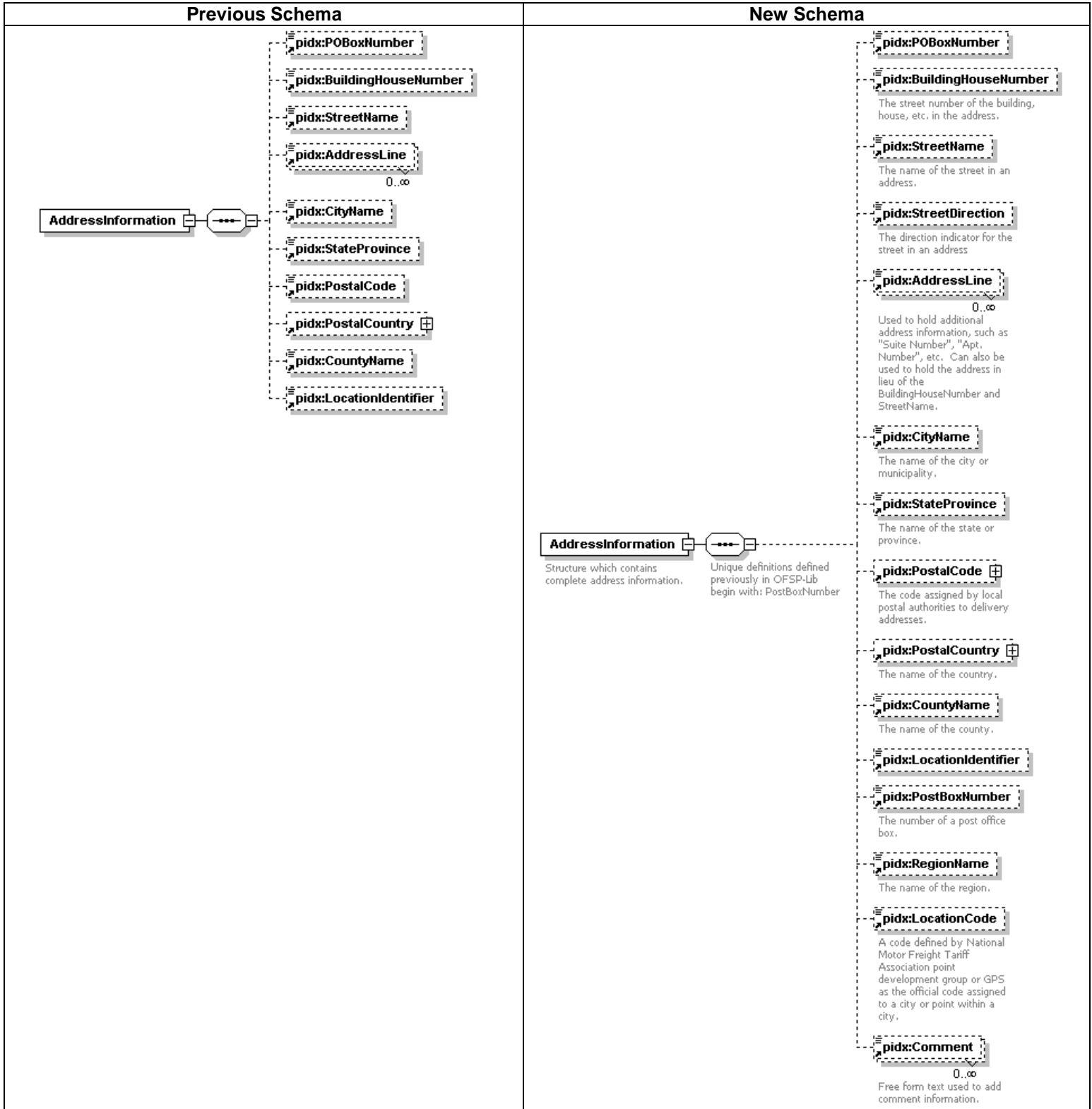**Impact of Not Implementing Change:** Major
Comments: Required for backwards compatibility

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 3b
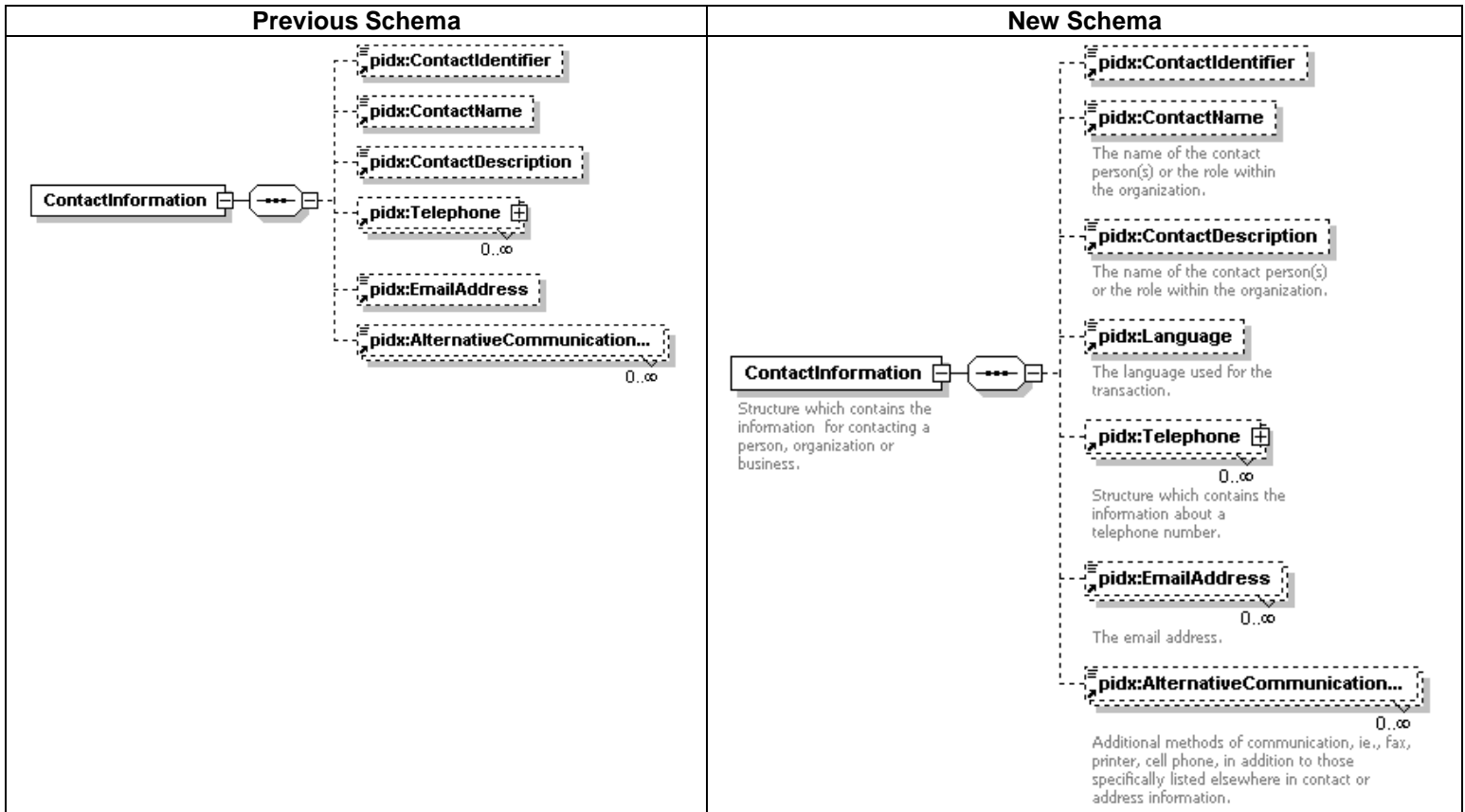**Description:** Eliminate PostBoxNumber element.
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema. POBoxNumber is the original PIDX element and should be retained.

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

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4. ContactInformation

Previous Schema	New Schema

Change #: 4a
Description: Move Language element after AlternativeCommunicationMethod element. This keeps the original element ordering from the PIDX schema
Impact of Not Implementing Change: Major
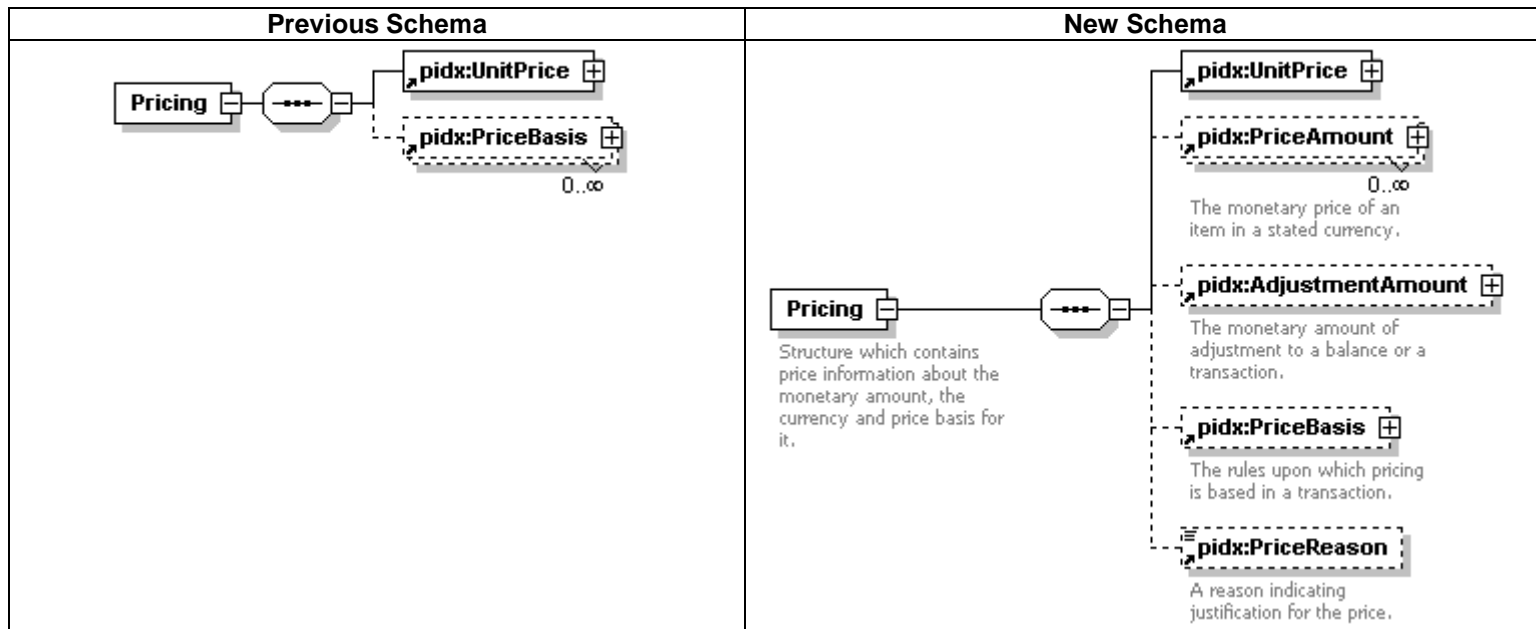**Comments:** Required for backwards compatibility

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

5. Pricing

Previous Schema	New Schema

Change #: 5a
Description: Retain element ordering of old schema, i.e. UnitPrice then PriceBasis
Impact of Not Implementing Change: Major
Comments: Required for backwards compatibility

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 5b
Description: Eliminate AdjustmentAmount element (from the schema altogether)
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema. Adjustments are already handled in PIDX" AllowanceOrCharge element. Having a synonymous element can create ambiguity.

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 5c
Description: Remove PriceAmount element as a subordinate to Pricing element.
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema. PriceAmount"s use within the context of Pricing is ambiguous, especially since Pricing.UnitPrice.MonetaryAmount is mandatory.

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

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6. Taxes

Change #: 6a
Description: Eliminate TaxStatus element
Impact of Not Implementing Change: Minor

Comments: TaxStatus is an enumerated list with „Exempt", „NonExempt", and „DirectPay" as possible values. These same enumerations are contained within the original PIDX TaxExemptCode element.

Resolution: Barring any objections, LMI will modify the XSD to reflect the change. Reference to TaxStatus (within the TaxType element) removed as well as the TaxStatusType simpleType defined in PIDXCodeLists.xsd.
XSD Modification(s): The change(s) described here have been made.

Change #: 6b
Description: Eliminate TaxableFlag
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema and probably synonymous with TaxExemptCode = "NonExempt"

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

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7. QuantityType

Change #: 7
Description: QuantityType definition should use UnitOfMeasureCode subordinate instead of UnitOfMeasure
Impact of Not Implementing Change: Major
Comments: Required for backwards compatibility.

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7a
Description: Change AdjustedRoofQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency as per John Bobbitt"s comments at PIDX conference.

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7b
Description: Change AdjustmentQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency as per John Bobbitt"s comments at PIDX conference.

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7c
Description: Change AllowanceOrChargeQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7d
Description: Change AverageFlowRate to be of type QuantityType

Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7e
Description: Change CorrectedQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7f
Description: Change CustodyTicketQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7g
Description: Change FieldTicketQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7h
Description: Change GaugeQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7i
Description: Change LineItemGrossQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7j
Description: Change LineItemNetQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7k

Description: Change LineItemWaterQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7l
Description: Change MeterQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7m
Description: Change PurgedQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7n
Description: Change QuotedQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7o
Description: Change ReadingQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7p
Description: Change RequestRequisitionReturnQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7q
Description: Change TankCapacityQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7r
Description: Change TankWaterQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7s
Description: Change TimeWorked to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7t
Description: Change VesselCapacityQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 7u
Description: Change VolumeOutageQuantity to be of type QuantityType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

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8. MonetaryType

Change #: 8a
Description: Change AllowanceOrChargeTotalAmount to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 8b
Description: Change DeferredAmount to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 8c
Description: Change DiscountAmount to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 8d
Description: Change DiscountedAmountDue to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 8e
Description: Change FieldTicketTotal to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 8f
Description: Change InvoiceTotal to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 8g
Description: Change LineItemTotal to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 8h
Description: Change QuoteTotal to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 8i
Description: Change RequestRequisitionReturnTotal to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 8j
Description: Change SubTotalAmount to be of type MonetaryType
Impact of Not Implementing Change: Minor

Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change. (Extension was included to account for the attribute: subTotalIndicator)
XSD Modification(s): The change(s) described here have been made.

Change #: 8k
Description: Change TermsDiscountAmount to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 8l
Description: Change TotalAmount to be of type MonetaryType
Impact of Not Implementing Change: Minor
Comments: Redesign for efficiency

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

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9. Miscellaneous

Change #: 9a
Description: Eliminate AllowanceAmount
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema and synonymous with AllowanceOrChargeTotalAmount

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 9b
Description: Eliminate AllowanceDescription
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema and synonymous with AllowanceOrChargeTotalDescription

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 9c
Description: Eliminate AllowanceTotalAmount
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema and synonymous with AllowanceOrChargeTotalAmount

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 9d
Description: Change errorClassification to ErrorClassification
Impact of Not Implementing Change: Minor
Comments: To follow guidelines re: UpperCamelCase

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 9e
Description: Change errorDescription to ErrorDescription
Impact of Not Implementing Change: Minor
Comments: To follow guidelines re: UpperCamelCase

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 9f
Description: Change offendingMessageComponent to OffendingMessageComponent
Impact of Not Implementing Change: Minor
Comments: To follow guidelines re: UpperCamelCase

Resolution: LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 9g
Description: EliminateTransportContainerType in PIDXCodeLists.xsd
Impact of Not Implementing Change: Minor
Comments: Enumeration values are synonymous with TransportMethodCodeType

Resolution: Per input from Transport 4, the EliminateTransportContainerType type will not be eliminated.
XSD Modification(s): The change(s) described here have NOT been made.

Change #: 9h
Description: Eliminate AllowanceType in PIDXCodeLists.xsd
Impact of Not Implementing Change: Minor
Comments: Enumeration values are synonymous with AllowanceOrChargeIndicatorType

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 9i
Description: Eliminate CarrierEquipment
Impact of Not Implementing Change: Minor
Comments: Is this synonymous with CarrierEquipmentCode? Both elements are of simple string type.

Resolution: Barring any objections, LMI will modify the XSD to reflect the change. The annotation from CarrierEquipment was retained. A reference within the following elements/types was affected: ShipNoticeEquipmentDetails, TransportInformation.
XSD Modification(s): The change(s) described here have been made.

Within the 'TransportInformation' element, removed duplicate declaration of 'CarrierEquipmentCode'. The occurrence immediately following 'TransportMethod' was removed. The occurrence immediately following the hazardous materials element was 'retained'.

Change #: 9j
Description: Eliminate InvoiceTotalAmount

Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema and synonymous with InvoiceTotal element

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 9k
Description: Eliminate InvoiceType
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema and synonymous with InvoiceTypeCode element

Resolution: Barring any objections, LMI will modify the XSD to reflect the change. The annotation from InvoiceType was retained.
XSD Modification(s): The change(s) described here have been made.

Change #: 9l
Description: Eliminate JobLocationCode or JobLocationClassCode
Impact of Not Implementing Change: Minor
Comments: JobLocationClassCode is the original element name from the previous PIDX schema, but JobLocationCode has a codeListName attribute. Which is preferable?

Resolution: Barring any objections, LMI will modify the XSD to retain the original element: JobLocationClassCode. A reference within the following elements/types was affected: OrderLineItemsType.
XSD Modification(s): The change(s) described here have been made.

As a result of this change, the reference within the OrderStatusRequestProperties element (in OrderStatusRequest.xsd) was changed…
from: <element ref="pidx:JobLocationCode" minOccurs="0"/>
to: <element ref="pidx:JobLocationClassCode" minOccurs="0"/>

Change #: 9m
Description: Eliminate Language
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema and synonymous with LanguageCode

Resolution: Barring any objections, LMI will modify the XSD to reflect the change. A reference within the following elements/types was affected: DescriptionType, ContactInformation.
XSD Modification(s): The change(s) described here have been made.

As a result of this change, the reference within the OrderStatusRequestProperties element (in OrderStatusRequest.xsd) was changed…
from: <element ref="pidx:Language" minOccurs="0"/>
to: <element ref="pidx:LanguageCode" minOccurs="0"/>

As a result of this change, the reference within the AdvancedShipNoticeProperties element (in ASN.xsd) was changed…
from: <element ref="pidx:Language" minOccurs="0"/>
to: <element ref="pidx:LanguageCode" minOccurs="0"/>

As a result of this change, the reference within the ReceiptProperties element (in Receipt.xsd) was changed…
from: <element ref="pidx:Language" minOccurs="0"/>
to: <element ref="pidx:LanguageCode" minOccurs="0"/>

As a result of this change, the reference within the OrderStatusResponseProperties element (in OrderStatusResponse.xsd) was changed…
from: <element ref="pidx:Language" minOccurs="0"/>
to: <element ref="pidx:LanguageCode" minOccurs="0"/>

Change #: 9n
Description: Eliminate LineItemTotal
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema and synonymous with LineItemTotalAmount

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made. As discussed at the Business Messages Work Group meeting (1/30), the LineItemTotalAmount element was removed alltogether. The LineItemTotal element was preserved since it was the original content in PIDXLib as defined in Com.Pro.Serv.

InvoiceLineItemsType/LineItemTotalAmount was changed to LineItemTotal. All base messages reference LineItemTotal.

Change #: 9o
Description: Eliminate Measure
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema and synonymous with Measurement

Resolution: Barring any objections, LMI will modify the XSD to reflect the change. A reference within the following elements/types was affected: GaugeReadingMeasure, PartnerDefinedMeasure, TankHeight, TankWaterMeasure.
XSD Modification(s): The change(s) described here have been made.

Change #: 9p
Description: Eliminate UnitOfMeasure
Impact of Not Implementing Change: Minor
Comments: Inherited from merge with OFS schema and synonymous with UnitOfMeasureCode

Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

Change #: 9q
Description: InvoiceDetails.InvoiceLineItem.LineItemInformation.LineItemIdentifier used to be optional and is now required.
Impact of Not Implementing Change: Major
Comments: Change may be required for backwards compatibility. Digital Oilfield has no issues if this element remains as mandatory, but other PIDX members should check their existing implementations.

Resolution: Barring any objections, LMI will modify the XSD to revert **LineItemIdentifier back to optional**.
XSD Modification(s): The change(s) described here have been made.

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10. Well Information

Change #: 10a
Description: Change structure of WellIdentifier, WellIdentifierType
Impact of Not Implementing Change: Major

Comments: Required for backwards compatibility. The previous PIDX schema defined WellIdentifier as a complexType, containing both a string and a wellIdentifierIndicator attribute, e.g.

<WellIdentifier wellIdentifierIndicator="PIDXNumber">12345</WellIdentifier>

The updated schemas have defined WellIdentifier to be of type WellIdentifierType, which in turn is defined in PIDXCodeLists.xsd. The WellIdentifierType is defined as a simpleType with an enumerated list of string restrictions. The result is XML that can contain the qualifier but not the content, e.g.

<WellIdentifier>PIDXNumber</WellIdentifier>

If a new WellIdentifierType is to be defined in PIDXCodeLists, then it should be a complex type and match the previous structure of the WellIdentifier element, including the wellIdentifierIndicator attribute.

Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

The complexType 'WellIdentifierType' was added to PIDXLib. This ComplexType contains the enumerations as well as the attribute.

The simpleType WellIdentifierType was, therefore, removed from PIDXCodeLists.

Change #: 10b
Description: Eliminate „WellName", „Section", „Township", „Range", „WellNumber" and 2nd „Other" enumeration
Impact of Not Implementing Change: Minor
Comments: Assuming change #10a is addressed and the PIDXCodeLists.xsd enumerations for the WellIdentifier element become enumerations for the wellIdentifierIndicator attribute, several enumerations inherited from the merge with OFS schema are not necessary. „WellName", „Section", „Township", and „Range" all have distinctly-named elements within the PIDX schema. „WellNumber" is most likely identical with „CustomerWellNumber", and obviously 2 „Other" enumerations are not required.
Resolution: Barring any objections, LMI will modify the XSD to reflect the change.
XSD Modification(s): The change(s) described here have been made.

At the 1/30 Business Messages Work Group meeting, attendees agreed that LMI should change the LineItemIdentifier to be optional (0 to infinity, instead of 1 to infinity).

Element: LineItemInformation
Changed: <element ref="pidx:LineItemIdentifier" maxOccurs="unbounded"/>
To: <element ref="pidx:LineItemIdentifier" minOccurs="0" maxOccurs="unbounded"/>

At the 1/30 Business Messages Work Group meeting, attendees agreed that LMI should Remove the „InvoiceLineItems" element from PIDXLib. Its associated type „InvoiceLineItemsType" was also removed. No base messages were affected by this.

Header Level Modifications

As a result of the changes within this document, nearly all 3901 XSD files incurred a version increment. This version is reflected in the „version" attribute in the „schema" element of the XSD file.

Numerous XSD"s did not incur any changes directly to that „base" Schema file; rather, the version is being incremented due to the inclusion of PIDXLib content.

XSD	Old Version	New Version
ASN.xsd	1.1	1.2
CementingTemplate.xsd	1.1	1.2
CustodyTicket.xsd	1.1	1.2
FieldTicket.xsd	1.1	1.2
FieldTicketResponse.xsd	1.1	1.2
Invoice.xsd	1.1	1.2
InvoiceResponse.xsd	1.1	1.2
OrderChange.xsd	1.1	1.2
OrderCreate.xsd	1.1	1.2
OrderResponse.xsd	1.1	1.2
OrderStatusRequest.xsd	1.1	1.2
OrderStatusResponse.xsd	1.1	1.2
PIDXLib.xsd	1.1	1.2
PIDXCodeLists.xsd	1.0	1.1
Quote.xsd	1.1	1.2
QuoteNotification.xsd	1.1	1.2
QuoteRequest.xsd	1.1	1.2
Receipt.xsd	1.1	1.2
RequestRequisitionReturn.xsd	1.1	1.2

The Exception.xsd file did NOT incur a version increment since it did not incur any Schema content modifications nor does it include PIDXLib.xsd.

The versions listed above are reflected by the targetNamespace for each XSD as well as the version value contained within each schema element „version" attribute.

Backward Compatibility Issues

This section outlines attributes that were changed back to local declarations within PIDXLib. It"s important to note, though, that the following 2 attributes remain global since they were defined globally in the 2002 version of 3901:
1) version
2) transactionPurposeIndicator
3) documentIdentifier (used in CustodyTicket only)

PIDXLib

The following 4 changes address the backward compatibility issue caused by moving the attribute 'identifierIndicator' from local to global.

1)
Element: AdditiveTypeIdentifier

Changed: <attribute ref="pidx:identifierIndicator" use="required"/>
To: <attribute name="identifierIndicator" type="pidx:IdentifierIndicatorType" use="required"/>
NOTE: The extension base="string" is NOT necessary here.

2)
Element: ContactIdentifier
Changed: <attribute ref="pidx:identifierIndicator" use="optional"/>
To: <attribute name="identifierIndicator" type="pidx:IdentifierIndicatorType" use="optional"/>
NOTE: The extension base="string" is NOT necessary here.

3)
Element: FinalDestinationLocationIdentifier
Changed: <attribute ref="pidx:identifierIndicator" use="optional"/>
To: <attribute name="identifierIndicator" type="pidx:IdentifierIndicatorType" use="optional"/>
NOTE: The extension base="string" is NOT necessary here.

4)
Element: LineItemIdentifier
Changed: <attribute ref="pidx:identifierIndicator" use="required"/>
To: <attribute name="identifierIndicator" type="pidx:IdentifierIndicatorType" use="required"/>
NOTE: The extension base="string" is NOT necessary here.

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'taxType' from local to global.

1)
Element: TaxIdentifierNumber
Changed: <attribute ref="pidx:taxType" use="optional"/>
To: <attribute name="taxType" type="string" use="optional">
<annotation>
<documentation>Indicates the kind of tax.</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'taxCertificateType' from local to global.

1)
Element: TaxCertificateNumber
Changed: <attribute ref="pidx:taxCertificateType" use="optional"/>
To: <attribute name="taxCertificateType" type="string" use="optional">
<annotation>
<documentation>Indicates which kind of tax certificate is being given.</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'stageIdentifier' from local to global.

1)
Element: TransportInformation
Changed: <attribute ref="pidx:stageIdentifier" use="optional"/>
To: <attribute name="stageIdentifier" type="string" use="optional">
<annotation>
<documentation>Identifies the stage of the shipping route.</documentation>
</annotation>
</attribute>

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'rigIdentifierType' from local to global.

1)
Element: RigIdentifier
Changed: <attribute ref="pidx:rigIdentifierType" use="optional"/>
To: <attribute name="rigIdentifierType" type="string" use="optional">
<annotation>
<documentation>Identifies which rig identifier is being given.</documentation>
</annotation>
</attribute>

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'referenceType' from local to global.

1)
Element: DocumentReference
Changed: <attribute ref="pidx:referenceType" use="required"/>
To: <attribute name="referenceType" type="pidx:ReferenceType" use="required">
<annotation>
<documentation>Identifies what kind of document is being referenced.</documentation>
</annotation>
</attribute>

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'referenceInformationIndicator' from local to global.

1)
Element: ReferenceInformation
Changed: <attribute ref="pidx:referenceInformationIndicator" use="required"/>
To: <attribute name="referenceInformationIndicator" type="pidx:ReferenceInformationIndicatorType" use="required"/>

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'priceType' from local to global.

1)
Element: PriceAmount
Changed: <attribute ref="pidx:priceType" use="optional"/>
To: <attribute name="priceType" type="pidx:PriceType" use="optional">

<documentation>Indicates whether a price is gross or net.</documentation>
</annotation>
</attribute>

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'partnerRoleIndicator' from local to global.

1)
Element: PartnerInformation
Changed: <attribute ref="pidx:partnerRoleIndicator" use="required"/>
To: <attribute name="partnerRoleIndicator" type="pidx:PartnerRoleIndicatorType" use="required"/>

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'partnerIdentifierIndicator' from local to global.

1)
Element: PartnerIdentifier
Changed: <attribute ref="pidx:partnerIdentifierIndicator" use="required"/>
To: <attribute name="partnerIdentifierIndicator" type="pidx:PartnerIdentifierIndicatorType" use="required"/>
NOTE: The extension base="string" is NOT necessary here.

The following 8 changes address the backward compatibility issue caused by moving the attribute 'definitionOfOther' from local to global.

1)
Element: AlternativeCommunicationMethod
Changed: <attribute ref="pidx:definitionOfOther" use="optional"/>
To: <attribute name="definitionOfOther" type="string" use="optional">
<annotation>
<documentation>Identifies what "Other" is if chosen from an attribute enumeration list</documentation>
</annotation>
</attribute>

2)
Element: BatchNumber
Changed: <attribute ref="pidx:definitionOfOther" use="optional"/>
To: <attribute name="definitionOfOther" type="string" use="optional">
<annotation>
<documentation>Identifies what "Other" is if chosen from an attribute enumeration list</documentation>
</annotation>
</attribute>

3)
Element: DocumentReference
Changed: <attribute ref="pidx:definitionOfOther" use="optional"/>
To: <attribute name="definitionOfOther" type="string" use="optional">

<documentation>Identifies what "Other" is if chosen from an attribute enumeration list</documentation>
</annotation>
</attribute>

4)
Element: PartnerIdentifier
Changed: <attribute ref="pidx:definitionOfOther" use="optional"/>
To: <attribute name="definitionOfOther" type="string" use="optional">
<annotation>
<documentation>Identifies what "Other" is if chosen from an attribute enumeration list</documentation>
</annotation>
</attribute>

5)
Element: PartnerInformation
Changed: <attribute ref="pidx:definitionOfOther" use="optional"/>
To: <attribute name="definitionOfOther" type="string" use="optional">
<annotation>
<documentation>Identifies what "Other" is if chosen from an attribute enumeration list</documentation>
</annotation>
</attribute>

6)
Element: PriceAmount
Changed: <attribute ref="pidx:definitionOfOther" use="optional"/>
To: <attribute name="definitionOfOther" type="string" use="optional">
<annotation>
<documentation>Identifies what "Other" is if chosen from an attribute enumeration list</documentation>
</annotation>
</attribute>

7)
Element: ProductIdentifier
Changed: <attribute ref="pidx:definitionOfOther" use="optional"/>
To: <attribute name="definitionOfOther" type="string" use="optional">
<annotation>
<documentation>Identifies what "Other" is if chosen from an attribute enumeration list</documentation>
</annotation>
</attribute>

8)
Element: SpecialInstructions
Changed: <attribute ref="pidx:definitionOfOther" use="optional"/>
To: <attribute name="definitionOfOther" type="string" use="optional">
<annotation>
<documentation>Identifies what "Other" is if chosen from an attribute enumeration list</documentation>
</annotation>
</attribute>

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'instructionIndicator' from local to global.

1)
Element: SpecialInstructions
Changed: <attribute ref="pidx:instructionIndicator" use="optional"/>
To: <attribute name="instructionIndicator" type="pidx:InstructionIndicatorType" use="optional">
<annotation>
<documentation>Identifies what kind of special instruction is being given.</documentation>
</annotation>
</attribute>

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'informationType' from local to global.

1)
Element: CustomerSpecificInformation
Changed: <attribute ref="pidx:informationType" use="required"/>
To: <attribute name="informationType" type="string" use="required">
<annotation>
<documentation>Identifies the kind of information being given.</documentation>
</annotation>
</attribute>

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'contactInformationIndicator' from local to global.

1)
Element: ContactInformation
Changed: <attribute ref="pidx:contactInformationIndicator"/>
To: <attribute name="contactInformationIndicator" type="pidx:ContactInformationIndicatorType"/>

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'contactIdentifierIndicator' from local to global.

1)
Element: CustodyLocationIdentifier
Changed: <attribute ref="pidx:contactIdentifierIndicator" use="optional"/>
To: <attribute name="contactIdentifierIndicator" type="pidx:ContactIdentifierIndicatorType" use="optional"/>

NOTE: Per an eMail sent from Tim Hainey on Wed 2/18/2004 11:07 AM, the attribute has been changed from „contactIdentifierIndicator" to „identifierIndicator". Certain parties agreed to the change. No objections were raised.

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'communicationMethodType' from local to global.

1)

Element: AlternativeCommunicationMethod
Changed: <attribute ref="pidx:communicationMethodType" use="required"/>
To: <attribute name="communicationMethodType" type="pidx:CommunicationMethodType" use="required">
<annotation>
<documentation>Identifies which kind of communication is beging given.</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

The following 7 changes address the backward compatibility issue caused by moving the attribute 'codeListName' from local to global.

1)
Element: IntermodalService
Changed: <attribute ref="pidx:codeListName" use="optional"/>
To : <attribute name="codeListName" type="string" use="optional">
<annotation>
<documentation>Indicates the organizational body who assigned the list of codes</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

2)
Element: LineItemPurposeCode
Changed: <attribute ref="pidx:codeListName" use="optional"/>
To : <attribute name="codeListName" type="string" use="optional">
<annotation>
<documentation>Indicates the organizational body who assigned the list of codes</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

3)
Element: LocationCode
Changed: <attribute ref="pidx:codeListName" use="optional"/>
To : <attribute name="codeListName" type="string" use="optional">
<annotation>
<documentation>Indicates the organizational body who assigned the list of codes</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

4)
Element: PortOfDischarge
Changed: <attribute ref="pidx:codeListName" use="optional"/>
To : <attribute name="codeListName" type="string" use="optional">
<annotation>
<documentation>Indicates the organizational body who assigned the list of codes</documentation>
</annotation>

</attribute>
NOTE: The extension base="string" is NOT necessary here.\

5)
Element: PortOfLoading
Changed: <attribute ref="pidx:codeListName" use="optional"/>
To: <attribute name="codeListName" type="string" use="optional">
<annotation>
<documentation>Indicates the organizational body who assigned the list of codes</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

6)
Element: ShipmentTermsLocation
Changed: <attribute ref="pidx:codeListName" use="optional"/>
To: <attribute name="codeListName" type="string" use="optional">
<annotation>
<documentation>Indicates the organizational body who assigned the list of codes</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

7)
Element: TransportMethod
Changed: <attribute ref="pidx:codeListName" use="optional"/>
To: <attribute name="codeListName" type="string" use="optional">
<annotation>
<documentation>Indicates the organizational body who assigned the list of codes</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'batchNumberCreator' from local to global.

1)
Element: BatchNumber
Changed: <attribute ref="pidx:batchNumberCreator" use="required"/>
To: <attribute name="batchNumberCreator" type="pidx:BatchNumberCreatorType" use="required">
<annotation>
<documentation>Identifies the creator of the batch number.</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'assigningOrganization' from local to global.

1)
Element: ProductIdentifier
Changed: <attribute ref="pidx:assigningOrganization" use="required"/>
To: <attribute name="assigningOrganization" type="pidx:AssigningOrganizationType" use="required">
<annotation>
<documentation>The organization who assigns a particular identifier for a product or partner.</documentation>
</annotation>
</attribute>
NOTE: The extension base="string" is NOT necessary here.

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'alternativeCommunicationMethodIndicator' from local to global.

1)
Element: AlternativeCommunicationMethod
Changed: <attribute ref="pidx:alternativeCommunicationMethodIndicator" use="required"/>
To: <attribute name="alternativeCommunicationMethodIndicator" type="pidx:AlternativeCommunicationMethodIndicatorType" use="required"/>
NOTE: The extension base="string" is NOT necessary here.

The following 1 change addresses the backward compatibility issue caused by moving the attribute 'allowanceType' from local to global.

1)
Element: AllowanceAmount
Changed: <attribute ref="pidx:allowanceType" use="optional"/>
To: <attribute name="allowanceType" type="pidx:AllowanceOrChargeIndicatorType" use="optional"/>

Custody Ticket issues (within PIDXLib.xsd)

The following elements were modified from type date to be of type DateTime:
<CustodyTicketDateTime>
<CustodyTransferStartDateTime>
<CustodyTransferStopDateTime>
<TankDateTime>
<TimeLogDateTime>

Within the 'CustodyTicketInformation' element, the 'CustodyTicketDateTime' element was repeated needlessly. The duplicate element was removed.

Custody Ticket issues (within CustodyTicket.xsd)

Within the element 'CustodyTicketProperties' the 'LanguageCode' was modified to be optional:
Changed: <element ref="pidx:LanguageCode"/>
To: <element ref="pidx:LanguageCode" minOccurs="0"/>

Candidate Future Modifications

The following PIDXLIb attribute 'multiplier' can be removed since it is not referenced anywhere in the 3901 XSDs:

<attribute name="multiplier" type="string">
<annotation>
<documentation>Identifies a percentage used to calculate an adjustment
amount.</documentation>
</annotation>
</attribute>

The PIDXLIb element „TaxSummary" seems to have a needless extension. It should simply be of type 'TaxType'.

The following PIDXLIb attribute 'rangeType' can be removed since it is not referenced anywhere in the 3901 XSDs:

<attribute name="rangeType" type="pidx:RangeType">
<annotation>
<documentation>Indicates what kind of date time range is being given.</documentation>
</annotation>
</attribute>

The following PIDXLIb attribute 'phoneType' can be removed since it is not referenced anywhere in the 3901 XSDs:

<attribute name="phoneType" type="pidx:PhoneType">
<annotation>
<documentation>Identifies what kind of phone number is being given.</documentation>
</annotation>
</attribute>

The following PIDXLIb attribute 'partnerRole' can be removed since it is not referenced anywhere in the 3901 XSDs:

<attribute name="partnerRole" type="pidx:PartnerRoleType">
<annotation>
<documentation>The role a particular partner plays in this transaction.</documentation>
</annotation>
</attribute>

The following PIDXLIb attribute 'currencyOrder' can be removed since it is not referenced anywhere in the 3901 XSDs:

<attribute name="currencyOrder" type="pidx:CurrencyOrderType">

```
<annotation>
<documentation>Identifies if a currency is primary, secondary, or tertiary.</documentation>
</annotation>
</attribute>
```