



# Spec 2000 Procurement Next Generation – June 2017

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# Basic Objectives

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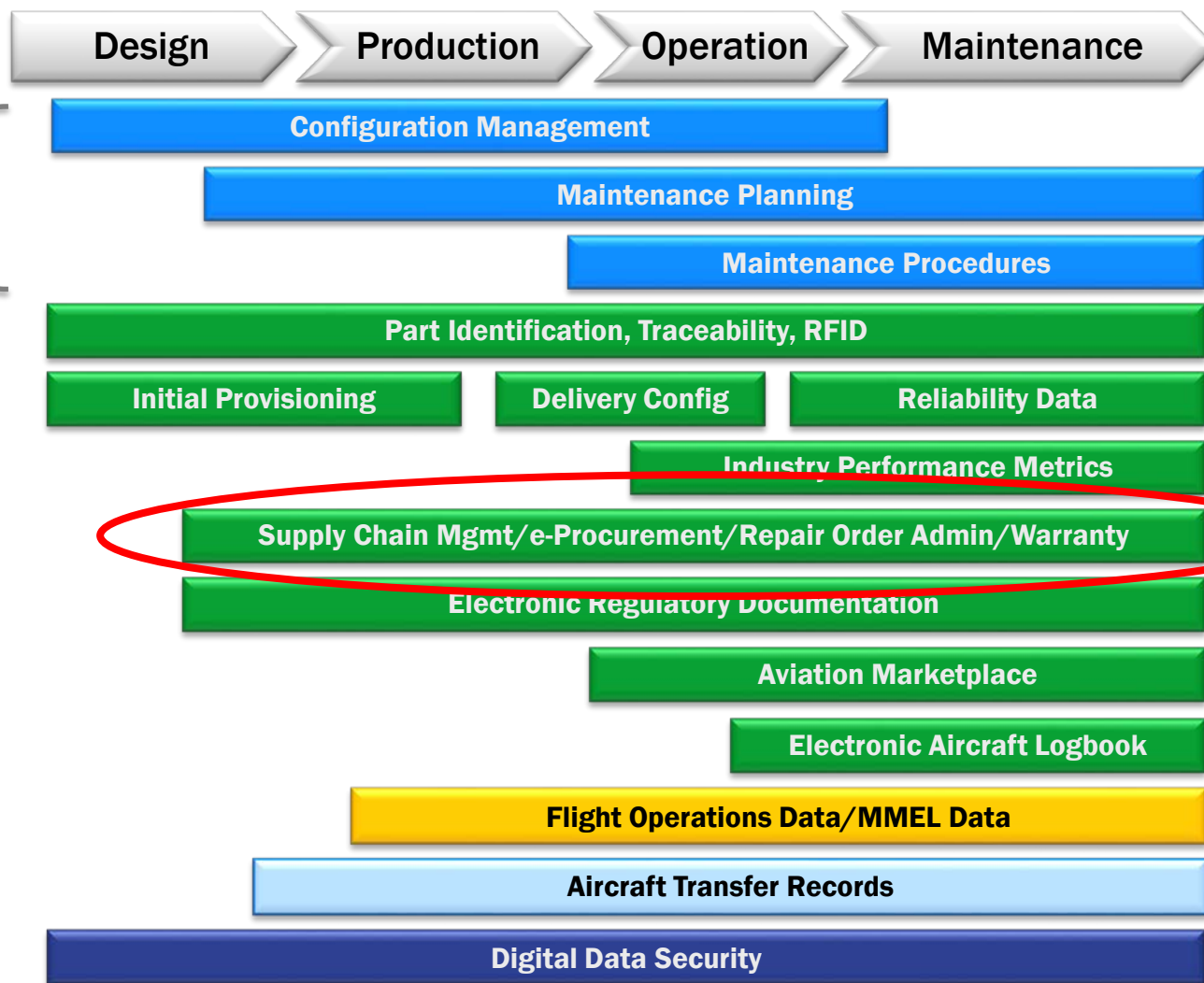
The presentation should provide the viewer with the following

- What motivated the creation of the working group
  - What was wrong with the existing CAM and XML
- Who were its members
- How did they decide on priorities
- What was completed
- What is yet to be completed
- How can provide input



# Functional / Lifecycle Scope

ATA, AIA, ASD  
Collaboration  
(S1000D)



- Spec 2000
- iSpec 2200/S1000D
- Spec 42
- Spec 2300
- Spec 2500



## Who? When?

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- List of organizations who have participated in face-to-face meetings.

Aerexchange

LHT

Airbus

QANTAS

American Airlines

SITA

ASD

Swiss Aviation Software

Aviall

Trax

Boeing

United Airlines

Delta Air Lines

Warp IT

KLM

WS Wilson

- Due to changing work responsibilities by some team members, release date is now planned for Summer 2017.



## Why Change? What was wrong with the old ways?

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- Restricted to one item per order number
- Too many important elements were restricted to partner specific code lists
- Very difficult to manage special cases
- Input and Output, Schemas, CSDD are restrictive
- No automated way for a supplier to simply transmit the entire current order status
- Suppliers have “carte blanche” to alter customer orders



## Why Change? What was wrong with the old ways?

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- Restricted to one item per order number
  - Required non-standard work arounds
  - Usually by appending a line number to the order number
  - But this further reduced the available characters (max 11) for the actual order number



## Why Change? What was wrong with the old ways?

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- Too many important elements are restricted to codes
  - Results in too much off-line dialogue and look up





## Why Change? What was wrong with the old ways?

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- Very difficult to manage special cases
  - AOG
  - Maintenance events
  - Drop shipments
- Input and Output, Schemas, CSDD definitions are restrictive





## Why Change? What was wrong with the old ways?

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- No automated way for a supplier to simply transmit the entire current order status



## Why Change? What was wrong with the old ways?

---

- Suppliers have “carte blanche” to alter customer orders



## How will 2.0 be better?

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- Buyers can now include as many items as logically needed to complete a purchase
- Spec 2.0 introduces a Yes/No/Ask condition
- Clarity on revision/status
- Ship To Codes are replaced by Ship to Addresses
- Shipping Method Codes are replaced by detailed human readable text
- 2.0 allows user to leverage “extensions” and agree on custom data exchange



## Why change? How will 2.0 be better?

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- Buyers can now include as many items as logically needed to complete a purchase



## Why change? How will 2.0 be better?

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- XML elements that offer significant improvement versus code lists



## Why change? How will 2.0 be better?

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- 2.0 allows user to leverage “extensions” and agree on custom data exchange
  - The “extensibility” in XML
  - A formal and recognized way to exchange custom data and enable special business cases



## Why change? How will 2.0 be better?

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- Clarity on revision/status





## Why change? How will 2.0 be better?

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- Spec 2.0 introduces a Yes/No/Ask condition
  - No “silence is acceptance”



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# Structure of New Document



# Structure of New Document

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- Section 1 - Overview
- Section 2 - Common Processes, Data Elements
- Section 3 – Quotation Request and Response
- Section 4 – Purchase Order Submittal and Order Status
- Section 5 – Parts Shipment Notification



# Structure of Section 4

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- 4.1 Message Description
- 4.2 General Business Rules
- 4.3 XML Schema Illustration
- 4.4 Message tables
- 4.5 Use Cases
  - 4.5.1 Basic Example Use Case
    - Sequence Diagram
    - Example Tables
    - XML for Table data
  - 4.5.2 Comprehensive Use Case
    - Sequence Diagram
    - Example Tables
    - XML for Table data
  - 4.5.3 Use case sections
    - Sequence Diagram
    - Example Tables
    - XML for Table data



# Example of Section Contents

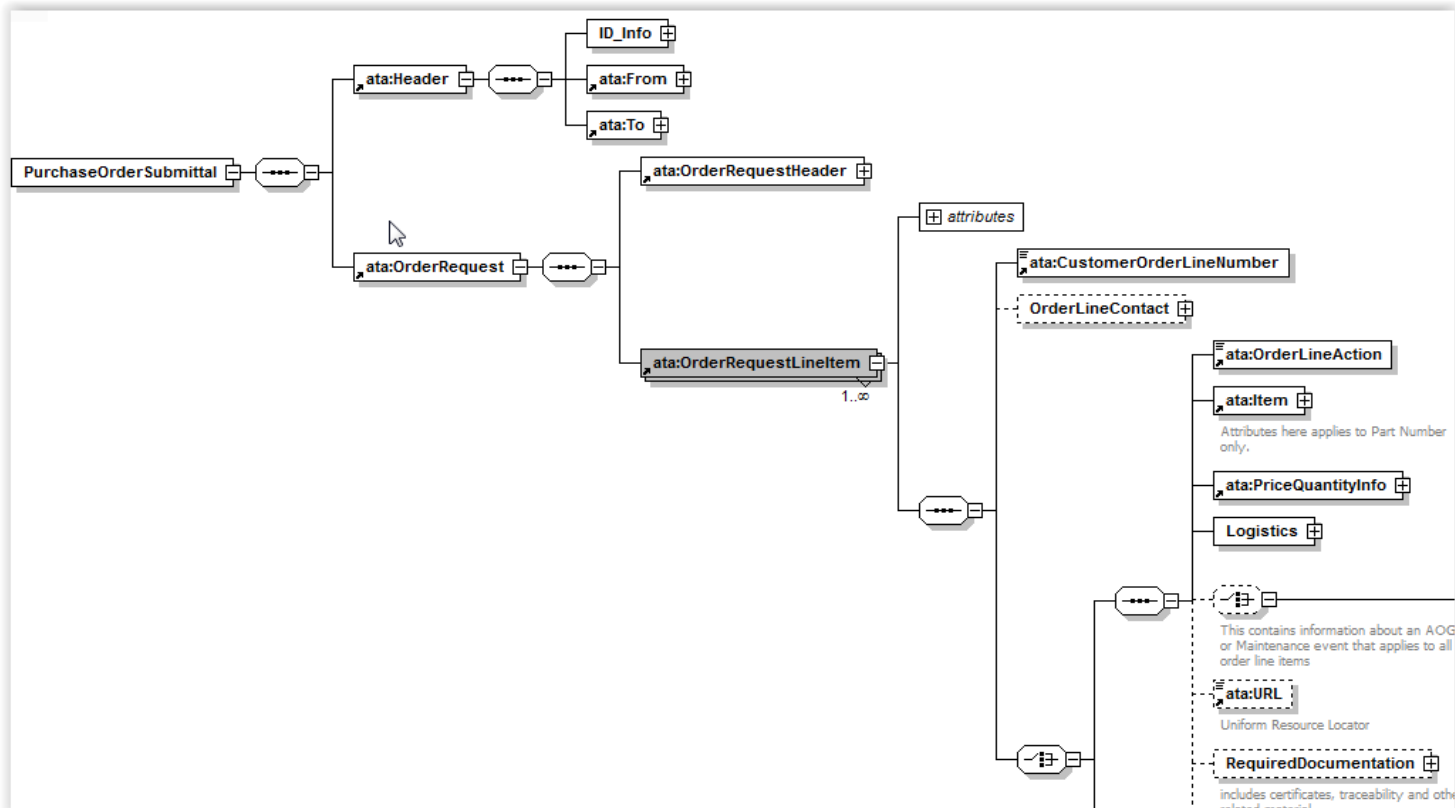
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- Section 4.1 - Message Description
  - This section describes the process for a Customer to submit Purchase Orders and Purchase Order revisions as necessary to a Supplier, and for the Supplier to respond with Order Status messages.....
  
- Section 4.2 – General Business Rules
  - A PO line item is only for a specific quantity of a part to be delivered to a specific location on a specific date. Additional PO lines will be used if multiple dates and or locations are required even if for the same part number.....
  - All lines within a PO should be of the same Currency...



# Example of Section Contents

## ■ Section 4.3 – Schema Illustration





# Example of Section Contents

## ■ Section 4.4 – Message Table

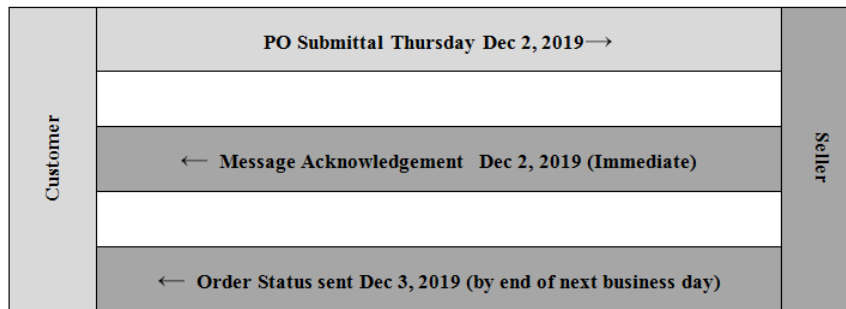
Element Name	Reqd Y/N/C	Repeat able Y/N	Example	Remarks
<b>PurchaseOrderSubmittal</b>				<b>Root Element of Purchase Order Submittal</b>
<b>Header</b>	Y	N	N/A	<b>Parent wrapper for information common to multiple message types</b>
ID_Info	Y	N		Parent group containing information to uniquely describe the message
MessageID	N	N	iu3456KX1234adf	This is a system produced unique identifier which should never be reused for an individual company.
source	N	N	WebMessagingSystem	To identify the system which produced the unique identifier
timeStamp	Y	N	2017-01-15T21:00:05.2456Z	Time Stamp applied by the submitting system meant to help track an individual message. It is recommended to go to decimals of seconds to be sure no 2 messages have the same time stamp
messageVersion	Y	N	0.0	Identifies the version of the XML Schema to which the message conforms.
From	Y	N		Identifies the submitting organization
CompanyIdentity	Y	Y	81205	This is
typeOfCompanyCode	Y	N	CAGE	Identifies the type of coding for the Company
typeOfCompanyCodeOther	Y	N		Identifies the type of coding for the Company
CompanyName	N	N		When other is used for typeOfCompanyCode, this field is required
To	Y	N		Parent Group to contain AD_Number information
messageVersion	Y	N	0.0	Identifies the version of the XML Schema to which the message conforms.
timeStamp	Y	N	2017-01-15T21:00:05.2456Z	Time Stamp applied by the submitting system meant to help track an individual message
<b>Order Request</b>	Y	N	N/A	<b>Parent wrapper for all the PO Request information</b>
OrderRequestHeader	Y	N		Parent group containing information about the order
shipComplete	Y	N	Yes	This is an indicator signalling that every line item in the entire purchase order should be shipped together. (this is an attribute)
CustomerOrderNumber	N	N	A624-12388787	
CustomerOrderCreationDate	N	N	1/15/2018	Customer's internal order creation date (not necessarily the same as message date)





# Example of Section Contents

- Section 4.5.1 – Basic Use Case
  - Sequence Diagram



- Example Table

Customer Buy, Inc. submits a single line item PO for parts to be shipped to a specific location, using a specific shipping method. The customer also indicates that the order cannot be changed by the supplier without receiving a revised PO from the customer.



# Example of Section Contents

## ■ Section 4.5.1 – Basic Use Case (cont'd)

OrderRequest/ OrderRequestLineItem/ Item/Part_ID/PartNumber	123-A501-345- 89123-55		23
OrderRequest/ OrderRequestLineItem/ Item/Part_ID/canSupplierChange	Ask	Indicates that the supplier is not allowed to ship a different part number without receiving a revised PO from the customer.	24
OrderRequest/ OrderRequestLineItem/ PriceQuantityInfo/UnitPrice & CurrencyCode	10.00 USD	Note the currency is a required attribute of the UnitPrice element.	25
OrderRequest/ OrderRequestLineItem/ PriceQuantityInfo/UnitPrice & Currency/canSupplierChange	Ask	Indicates that the supplier is not allowed to fulfill the order with a different price than on the PO without receiving a revised PO from the customer.	26

The Seller sent the message acknowledgement as described in Section 2 immediately upon receipt.

The Seller sends by the end of the next business day after receipt of Order an Order Status advising that the PO is in work and advises that the material is currently scheduled to ship on Jan 20 2020.



# Example of Section Contents

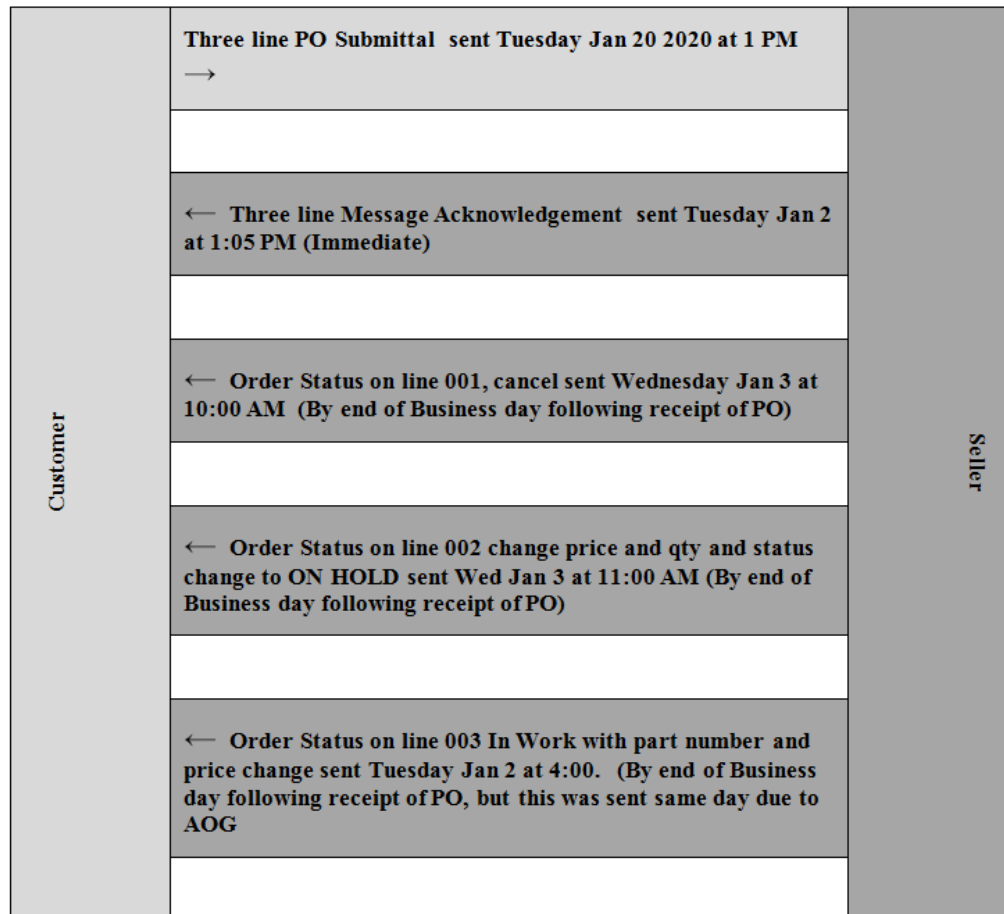
- Section 4.5.1 – Basic Use Case (cont'd)
  - Sample XML (matching table)

```
<?xml version="1.0" encoding="UTF-8"?>
<!--Sample XML file generated by XMLSpy v2016 rel. 2 sp1 (x64) (http://www.altova.com)-->
<ata:OrderSubmittal xmlns:ata="http://www.ataebiz.org/XMLSchemas" xmlns:xsi="http://www.w3.org/200
xsi:schemaLocation="http://www.ataebiz.org/XMLSchemas
file:///C:/Users/nmoni/Documents/My%20Work/My%20Source/spec2.0/PurchaseOrderSubmittal&amp;Re
<ata:Header>
  <ID_Info ata:messageVersion="1.00" ata:timeStamp="2016-08-10T09:30:47Z" ata:lang="en-us">
    <MessageID source="SAP">98876087650897</MessageID>
  </ID_Info>
  <ata:From>
    <CompanyIdentity>
      <ata:CompanyCode TypeOfCompanyCode="CIC">BUY</ata:CompanyCode>
    </CompanyIdentity>
    <ata:CompanyName>Buyer Inc.</ata:CompanyName>
  </ata:From>
  <ata:To>
    <CompanyIdentity>
      <ata:CompanyCode TypeOfCompanyCode="CAGE">CAGE1</ata:CompanyCode>
    </CompanyIdentity>
    <ata:CompanyName>Seller Inc.</ata:CompanyName>
  </ata:To>
</ata:Header>
<ata:OrderRequest>
  <ata:OrderRequestHeader ata:shipComplete="Yes">
    <ata:CustomerOrderNumber>PO20160901-A</ata:CustomerOrderNumber>
    <ata:CustomerPO_CreationDate>2016-08-31T09:30:47Z</ata:CustomerPO_CreationDate>
    <OrderContact>
      <ata:Name>John Smith</ata:Name>
      <ata:Email>John.smith@buyerinc.com</ata:Email>
      <ata:Phone>
        <TelephoneCountryCode>1</TelephoneCountryCode>
        <AreaOrCityCode>972</AreaOrCityCode>
        <Number>5551212</Number>
      </ata:Phone>
      <PreferredContactMethod>Phone</PreferredContactMethod>
      <JobTitle>Purchasing Manager</JobTitle>
    </OrderContact>
  </ata:OrderRequestHeader>
</ata:OrderRequest>
</ata:OrderSubmittal>
```



# Example of Section Contents

- Section 4.5.2 – Comprehensive Use Case (diagram only)





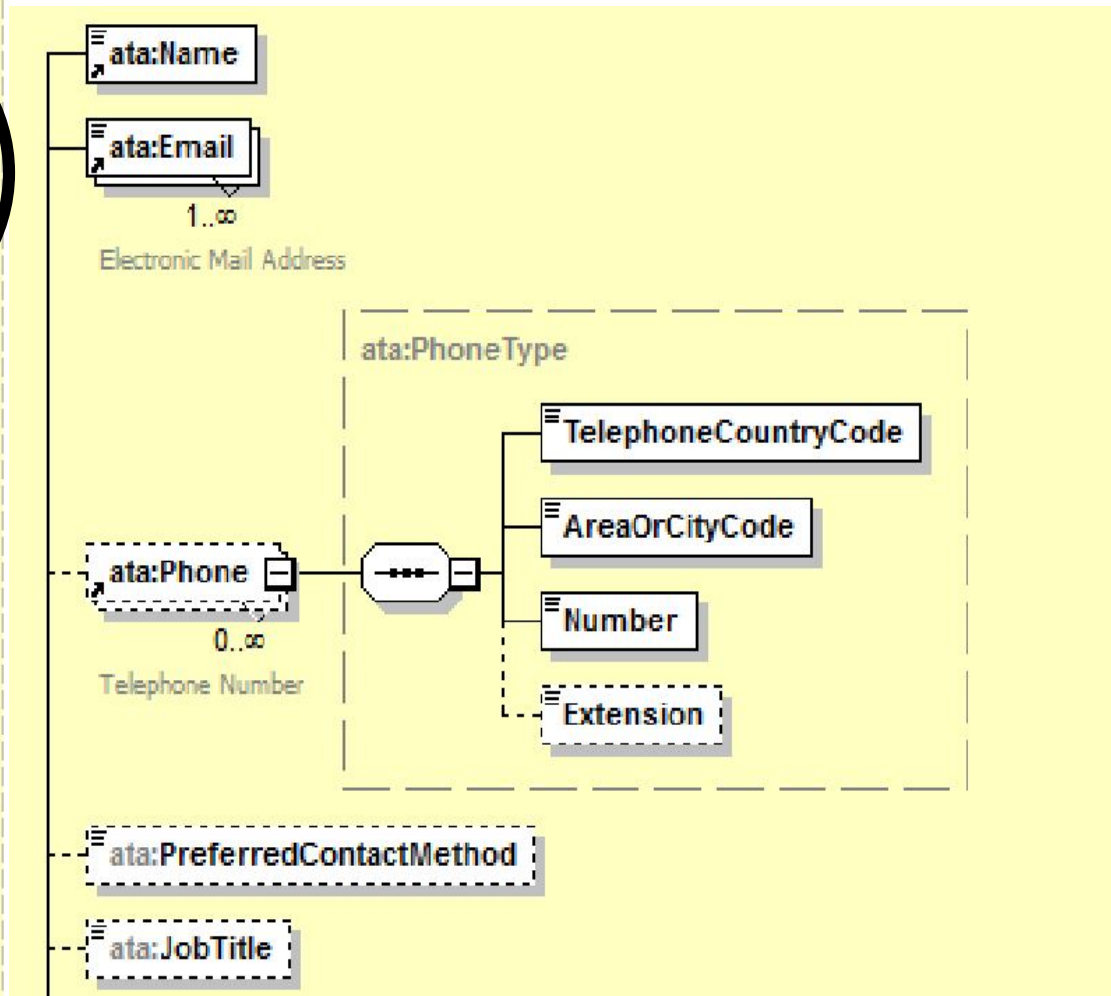
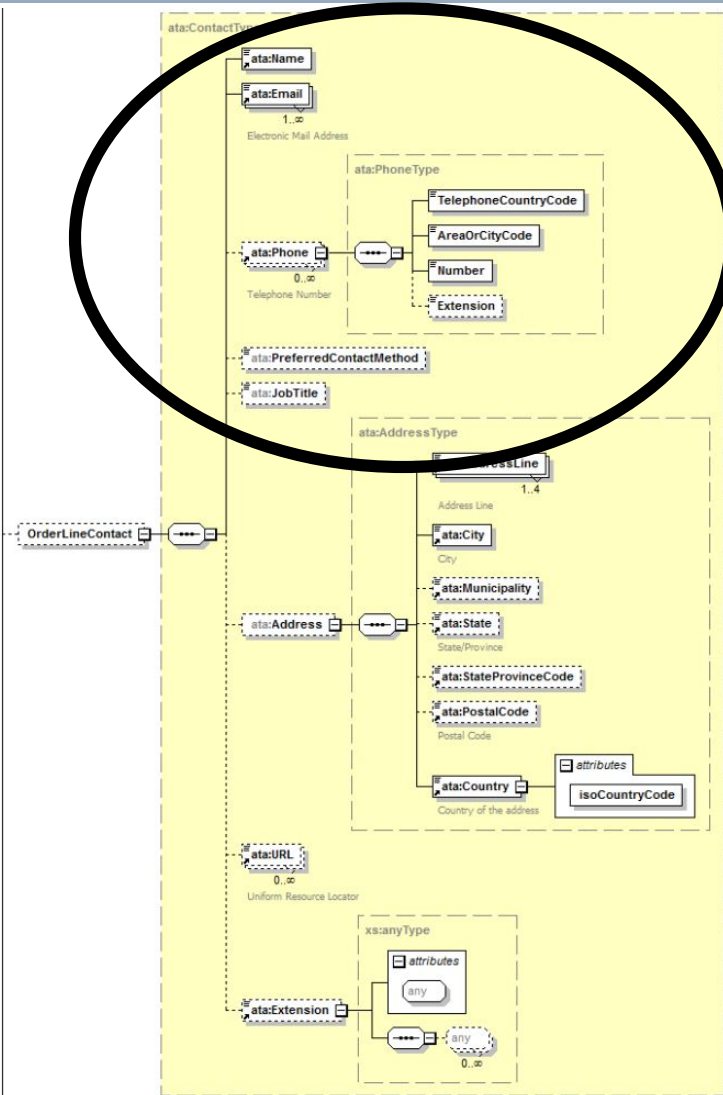
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# Selected Schema Highlights



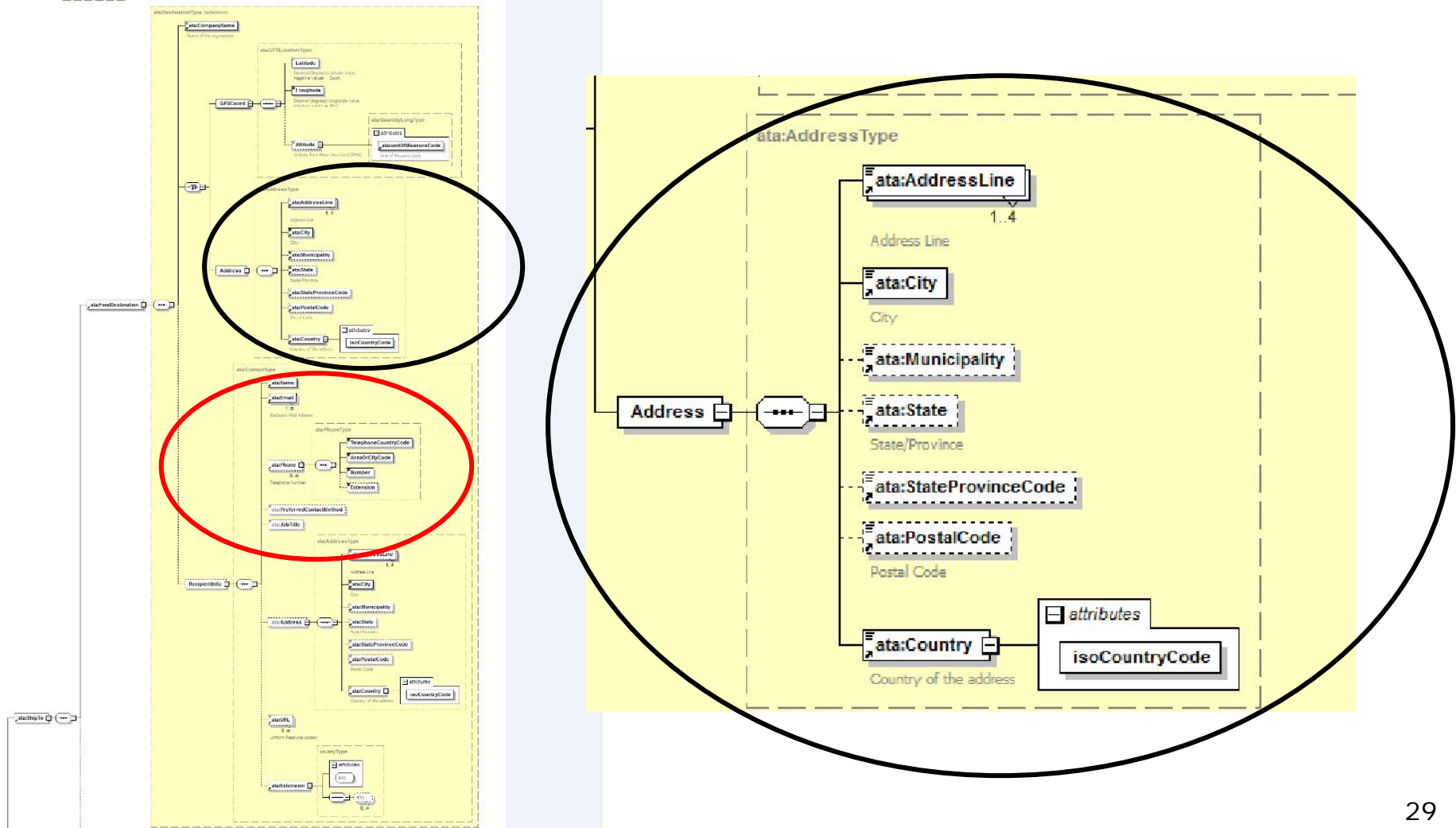


# Contact Details





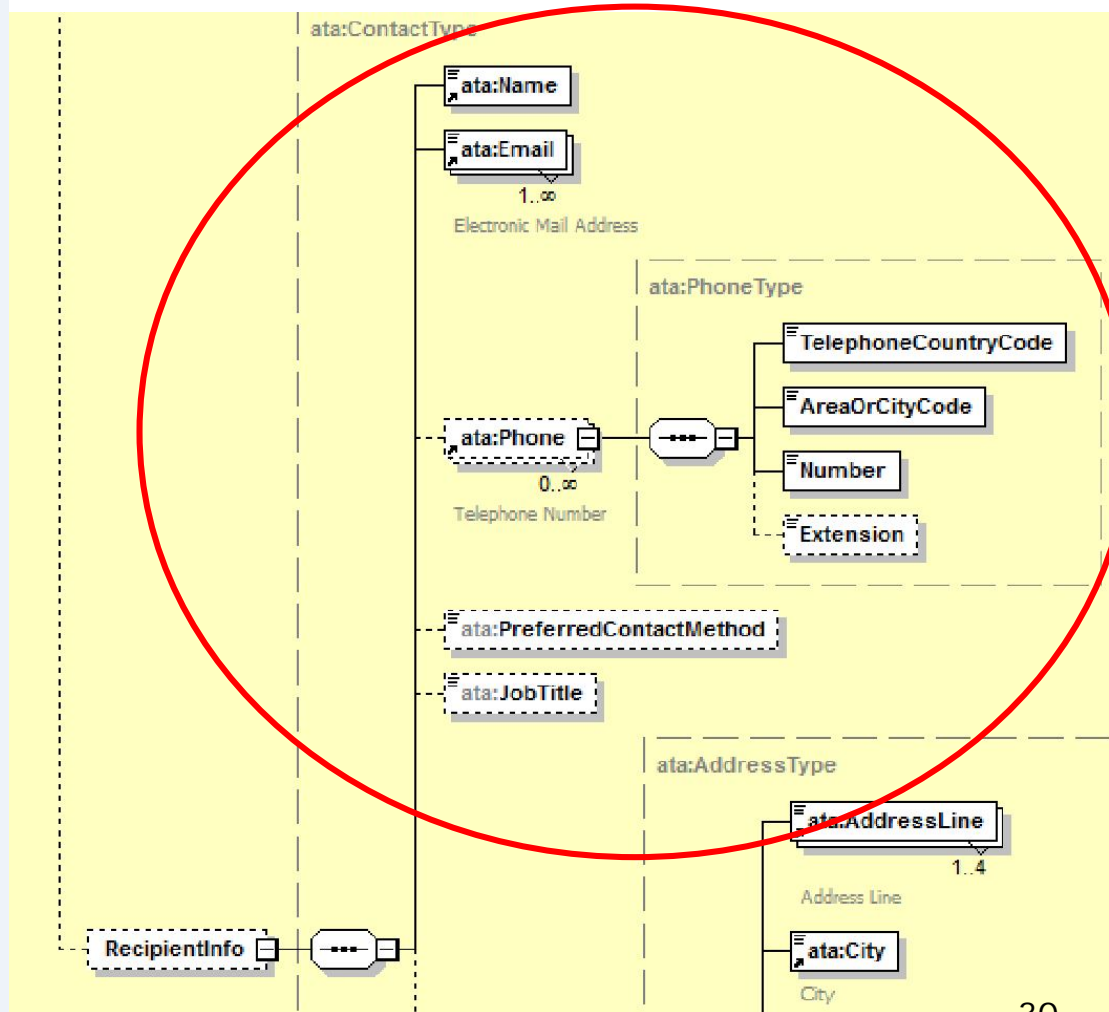
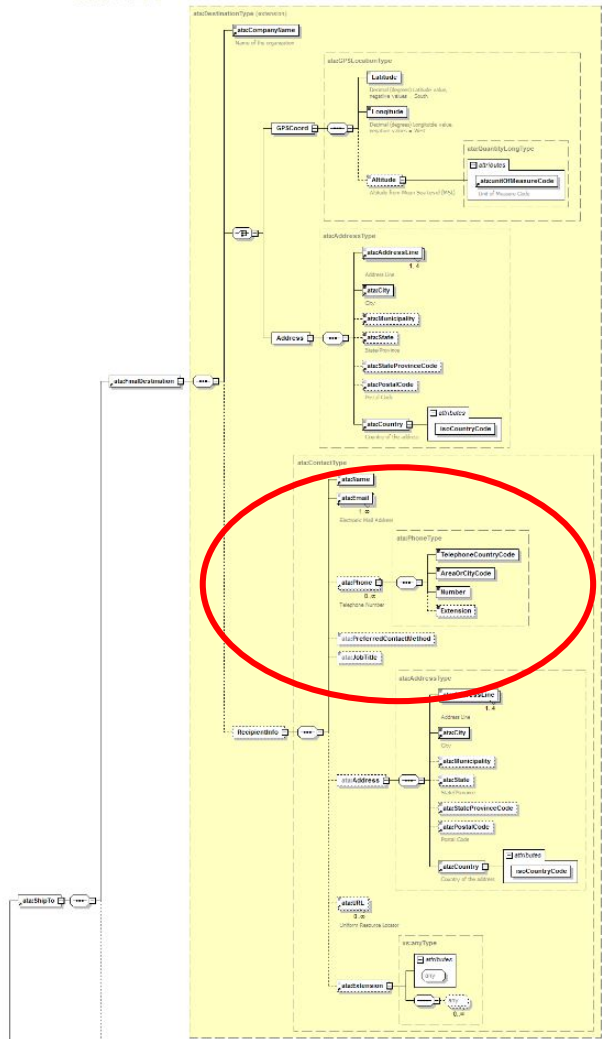
# Ship To Details





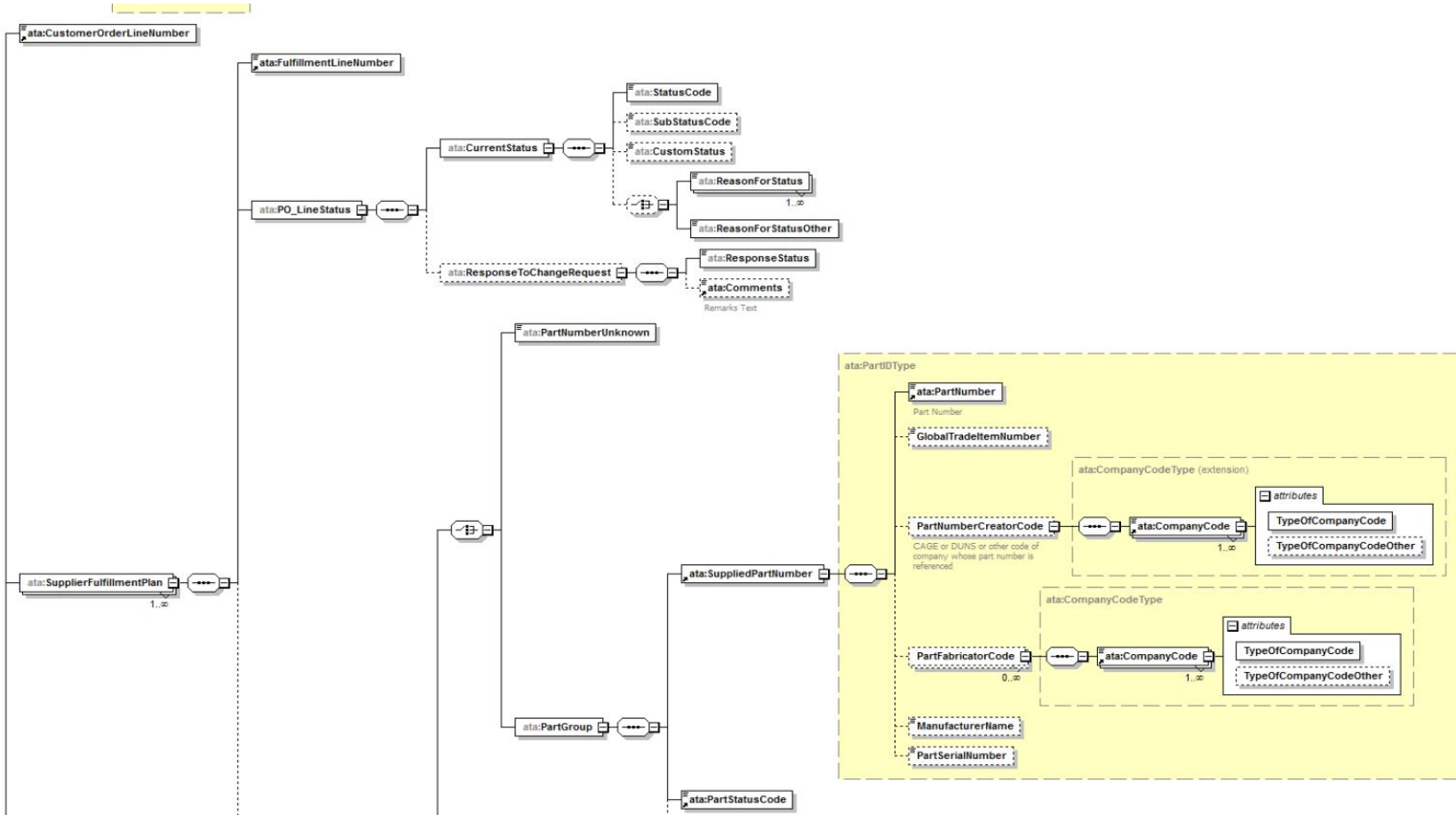


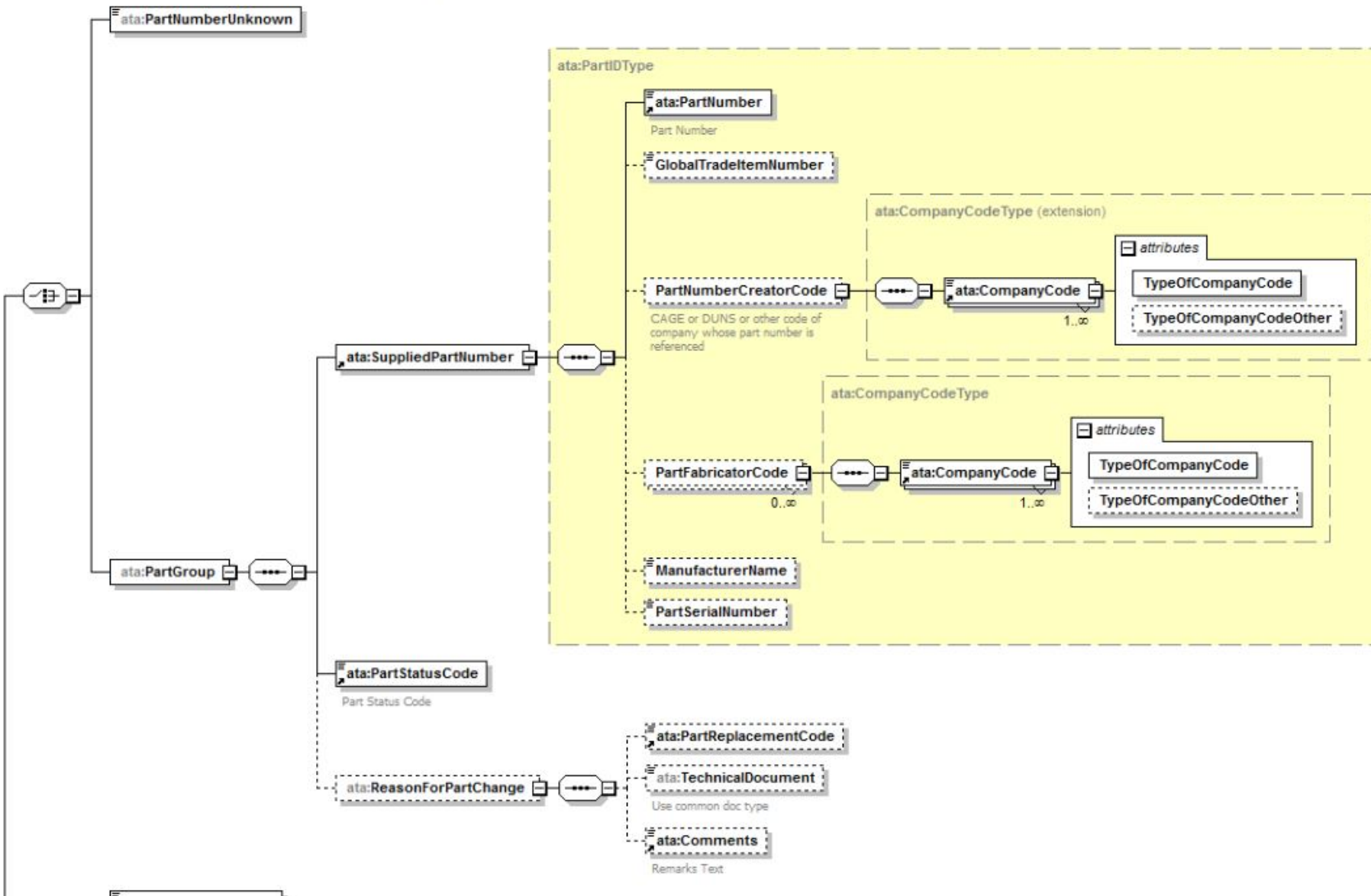
# Ship To Details





# Order Response







# Questions

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ATA e-BUSINESS PROGRAM

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**SITA**

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