Global Family Planning Visibility & Analytics Network - Interface Specifications and Guidelines
Glossary

GFPVAN ................................. Global Family Planning Visibility and Analytics Network
USAID .......................................................... U.S. Agency for International Development
UNFPA ........................................................ United Nations Population Fund
EDI ............................................................. Electronic Data Interchange
GDSN .................................................. Global Data Synchronization Network
GHSC .................................................. Global Health Supply Chain
GLN ......................................................... Global Location Number
GS1 ........................................................ Global Standards Organization
GTIN .................................................. Global Trade Item Number
IT ......................................................... information technology
MIS ......................................................... Management Information System
PSM .................................................... Procurement and Supply Management
GAD .................................................. Goods Available Date
ASN .................................................... Advance Shipment Notice
External System .................................. Any system outside of GFPVAN
PPMR ................................................ Procurement Planning and Monitoring Report
CTP ......................................................... Control Tower Planner
Background

Global Family Planning Visibility and Analytics Network is a shared platform to capture and use supply chain data from multiple sources and organizations to provide enhanced visibility for decision making. It will include provisions for central governance of a collaborative network of supply chain professionals; a virtual technology platform where supply chain professionals can see the same data and execute supply decisions; agreements for global data sharing and governance; and expanded coordination of supply and demand planning processes. The long-term vision is: (a) more timely and cost-effective delivery of commodities to countries; (b) more women reached with the right product at the right time; and (c) better coordination on how to allocate limited health resources.

(https://www.rhsupplies.org/activities-resources/tools/global-fp-van/)

In order to capture, use and share supply chain data from and to multiple sources and organizations GFPVAN integrates to various systems and tools. This document captures the details of the overall integration architecture of GFPVAN. This document is intended to provide system integration details to organizations and countries that would like to integrate with GFPVAN.

Target Audience

Technical Teams from data providers and data consumers that establish B2B connectivity with GFPVAN, such as,

- Member Countries (Ministry of Health)
- Donor Organizations
- Manufacturers/Suppliers & Distributors
- Freight Forwarders/Logistics Companies
- Procurement Agencies
**GFPVAN Data Interfaces**

The details of the available data interfaces with GFPVAN are provided in this section.

**Interface Architecture**

The interface architecture diagram shown in this section provides a high-level overview of key data that can be exchanged with GFPVAN along with key integration mechanisms. The sections following this provide further details of the integration considerations and options along with existing integrations.

As depicted in the diagram below data such as purchase orders, shipments along with shipment updates and statuses and inventory can be provided to GFPVAN from upstream supply chain partners such as donor organization, procurement agencies, manufacturers and freight forwarders. Data, including orders, shipments, inventory and supply plans can also be provided by country procurers such as central medical stores. Such data is consolidated within GFPVAN platform to provide holistic visibility of the supply chain.

Master data is a key element in ensuring data from various sources can be aggregated and understood consistently. Master data elements such as product details and supplier details should be synchronized with GFPVAN. The preference is to exchange data with standardized identifiers such as GTINs for products and GLNs for suppliers. In the absence of standardized identifiers mapping of master data between external systems and GFPVAN will be essential.

![GFPVAN High Level Interface Architecture](image-url)
Detailed Integration Architecture

This section captures the detailed GFPVAN integration architecture. The following diagram represents GFPVAN integrations as of Release 9 (Apr 2021).

It should be noted that data for any non-member countries will be routed to GFPVAN through SmartLoader interface, which provides a mechanism through a combination of email and smart PDF to easily share data with GFPVAN in the absence of direct B2B integration.
GLOBAL FAMILY PLANNING VISIBILITY & ANALYTICS NETWORK - INTERFACE SPECIFICATIONS AND GUIDELINES

GFPVAN - Integration Architecture as of Release 9 (Apr 2021)
GFPVAN – System Integration Options

Data Exchange Protocols:

GFPVAN supports various B2B data exchange protocols, as shown in the System Integration Options diagram above. Of these supported protocols AS2, B2B Client and SFTP (highlighted in orange bordered boxes) have been the most used and preferred protocols to integrate with other external systems so far.

Data Message Formats/Payloads:

GFPVAN supports various data exchange message formats as listed under Message Payloads in the System Integration Options diagram above. Of these supported formats OAGIS XML/JSON and flat file formats (highlighted in orange bordered boxes) have been the most used and preferred formats to integrate with other external systems so far, while OAGIS XML/JSON is the preferred format.

System Integration Considerations

This section lists the key factors to consider while integrating with GFPVAN.

Master Data:

- **Trade Items**: The recommended and preferred identifiers to use for trade items in transactions exchanged with GFPVAN are GTINs. If not using GTINs item master data, specifically item
identifiers, from the external system will be required to map with GTINs and other product identifiers used by GFPVAN. Master data should hence be synchronized with GFPVAN’s GFP Catalog before activating other transactional data integrations with GFPVAN.

- **Products and Product Category** - Certain data such as inventory data from countries might reference generic products or product categories rather than trade items/brand items. In such cases data provided to GFPVAN should reference appropriate level of product detail based on GFPVAN’s product hierarchy levels. Please refer to Appendix.

- **Other Data** - Recipient & Supplier master data should also be provided to and mapped within GFPVAN, based on how they get referenced in transactions such as orders and shipments.

### Data Exchange Message Formats:

- External systems will exchange data with GFPVAN in GFPVAN’s standardized message formats. Sample message formats are provided for each interface in ‘Data Interfaces’ section below.

#### 1.1.1 Data Connectivity Checklist

The checklist in this section can be used by organizations having or planning to have direct B2B connectivity with GFPVAN. The checklist helps identify what data the organizations expect to exchange with GFPVAN and hence focus on those specific B2B data interfaces.

<table>
<thead>
<tr>
<th>Organization:</th>
<th>USAID GHSC-PSM</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATA</td>
<td>Order</td>
</tr>
<tr>
<td>To GFPVAN</td>
<td>Y</td>
</tr>
<tr>
<td>From GFPVAN</td>
<td>N</td>
</tr>
</tbody>
</table>

*Note - USAID GHSC-PSM shares item master data with GFPVAN manually and not through direct B2B connectivity*

Data Connectivity Checklists for existing GFPVAN integrating organizations are provided in Appendix.
1.1.2 Data Interfaces

This section captures the details of GFPVAN’s data interfaces that external systems can leverage to exchange data to and from GFPVAN.

1.1.2.1 Order Information Interface

Order information interface is the integration to exchange purchase order details with GFPVAN.

Key Data:

<table>
<thead>
<tr>
<th>Supplier Description</th>
<th>Procuer</th>
<th>Procuer Item No</th>
<th>Order ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplier Site</td>
<td></td>
<td>GTIN</td>
<td>Line ID</td>
</tr>
<tr>
<td>Manufacturer Description</td>
<td>Program Recipient</td>
<td>Supplier Item No</td>
<td></td>
</tr>
<tr>
<td>Country ISO Code</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ship to Party Name</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Data Message Template:

Refer to Appendix

1.1.2.2 Shipment Information Interface

Shipment interface is the integration to exchange shipment information with GFPVAN.

In the current version of GFPVAN this interface is being used to receive Shipment details (ASNs) from USAID and UNFPA systems into GFPVAN.
Key Data:

<table>
<thead>
<tr>
<th>Supplier Description</th>
<th>Supplier Site</th>
<th>Supplier Line ID</th>
<th>GTIN</th>
<th>Country ISO Code</th>
<th>Supplier Sched ID</th>
<th>Supplier Item No</th>
<th>Procurer</th>
<th>Tender</th>
</tr>
</thead>
</table>

Data Message Template:

Refer to Appendix

1.1.2.3 Shipment Updates Interface

This interface is used to exchange shipment status updates with GFPVAN. Below diagram provides details of different shipment milestones and the corresponding milestone dates captured in GFPVAN.

![Diagram of shipment milestones and corresponding dates]

<table>
<thead>
<tr>
<th>Prep &amp; Schedule</th>
<th>Ship</th>
<th>Deliver</th>
<th>Receive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production and scheduling for shipment</td>
<td>Date the goods are picked up by the carrier</td>
<td>Date the goods are delivered and transfer of ownership to the recipient is complete</td>
<td>Date the goods are marked as received and made a part of internal inventory counts</td>
</tr>
<tr>
<td>Goods Available Date</td>
<td>Requested Ship Date</td>
<td>Requested Delivery Date</td>
<td></td>
</tr>
<tr>
<td>Goods Available Date</td>
<td>Estimated Ship Date</td>
<td>Estimated Delivery Date</td>
<td></td>
</tr>
<tr>
<td>Goods Available Date</td>
<td>Actual Ship Date</td>
<td>Actual Delivery Date</td>
<td>Invoice Date Sent</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Actual Received Date</td>
</tr>
</tbody>
</table>
Key Data:

- Status update with corresponding milestone dates for shipments

Data Message Template:

Refer to Appendix

1.1.2.4 Inventory Interface

This interface is for sending national inventory (stock) level data to GFPVAN from countries.

In the current version of GFPVAN this interface is being used to receive national inventory data from GFPVAN member countries through GFPVAN excel upload user interface. Non-member countries’ inventory data is currently provided manually based on the data extracted from PPMR. Data is either sent through SmartLoader or sent via email to CTPs to be uploaded through the user interface. In the future (Apr 2021), PPMR will be retired and non-member countries’ inventory data will be provided directly through SmartLoader.

Key Data:

<table>
<thead>
<tr>
<th>*Country ISO Code</th>
<th>*LS Product ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Plan Bucket</td>
<td>Supply Plan Bucket</td>
</tr>
<tr>
<td>Program Recipient</td>
<td>Program Recipient</td>
</tr>
<tr>
<td>*Data Extraction Date (stock count “as of” date)</td>
<td>*Data Extraction Date (stock count “as of” date)</td>
</tr>
<tr>
<td>Inventory Origin</td>
<td>Inventory Origin</td>
</tr>
<tr>
<td>Supply Chain Level</td>
<td>Supply Chain Level</td>
</tr>
<tr>
<td>Inventory Notes</td>
<td>Inventory Notes</td>
</tr>
<tr>
<td>Actual AMC</td>
<td>Actual AMC</td>
</tr>
</tbody>
</table>

Data Message Template:

Refer to Appendix

1.1.2.5 Supply Plan Interface

This interface is for sharing supply plan data to GFPVAN from countries.

In the current version of GFPVAN an excel upload user interface is used to receive supply plan data. Supply plans can also be shared through SmartLoader in the same template as uploaded through user interface.
Key Data:

<table>
<thead>
<tr>
<th>Key Data Exchanged</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Country ISO Code</td>
</tr>
<tr>
<td>*Supply Plan Bucket</td>
</tr>
<tr>
<td>*LS Product ID</td>
</tr>
<tr>
<td>*Quantity</td>
</tr>
<tr>
<td>*Date</td>
</tr>
</tbody>
</table>

Data Message Template:

Refer to Appendix

1.1.2.6 Action Requests Ticket Interface

This interface is used to capture action request tickets such as requests for new order, expediting an order, change of quantity and requests for information or updates. Requests currently can only be created in GFPVAN through the user interface or Excel uploads or through SmartLoader.

Key Data Exchanged:

- Country
- Action detail
- Product reference
- Product hierarchy reference
- Supply plan reference
- Order or shipment reference
- Priority of the action request ticket

Data Message Template:

Refer to Appendix

1.1.2.7 Item Master Data Interface

This interface helps synchronize key master data with GFP Catalog, which is GFPVAN’s master data management module. Countries and Organizations exchanging transactional data with GFPVAN will need to
share master data such as products, suppliers and recipients with GFP Catalog in order to understand these data elements on transactions exchanged with GFPVAN. For instance, Shipments will refer to products being shipped to a recipient from the supplier of those products. Master data, that will be mapped within GFP Catalog will be key in understanding what products are being shipped to which recipient and from which supplier. In addition, since these mappings allow for data standardization and application of GFPVAN data concepts such as recipient buckets and product hierarchies, this master data facilitates data aggregation and exchange across different data providers.

If data provider or consumer exchanging data with GFPVAN is using globally standardized product identifiers (GTINs) then synchronizing item master data will not be necessary.

**Key Data Exchanged:**

- Item Master data
  - Item Identifiers
  - Description
  - Manufacturer details

**Data Message Template:**

Refer to [*Appendix*](#)
# Appendix

1. **GFPVAN Product Hierarchy Levels**

All products within GFPVAN have been categorized using 5 levels; from broad to specific:

- **L1** = Aggregate of all contraceptives
- **L2** = Contraceptive families
- **L3** = Contraceptive method
- **L4** = Route of administration and active ingredients
- **L5** = Product International Nonproprietary Name (INN) for the active ingredients with strength and dosage form and general product description

Level 6 provides Stock Keeping Unit (SKU) detail.

The following tables list out the current hierarchies in GFPVAN.

<table>
<thead>
<tr>
<th>Reproductive Health</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>L5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive Implantable Contraceptives</td>
<td>Implantable Contraceptives</td>
<td>Levonorgestrel, Implantable</td>
<td>Levonorgestrel 60 mg/rod, 1 Rod Implant</td>
<td>Levonorgestrel 25 mg/rod, 2 Rod Implant, 5 Year Efficacy</td>
<td></td>
</tr>
<tr>
<td>Injectable Contraceptives</td>
<td>Injectable Contraceptives</td>
<td>Medroxyprogesterone Acetate, Injectable</td>
<td>Medroxyprogesterone Acetate 104 mg/0.45 ml, Subcutaneous, Pre-filled Device</td>
<td>Medroxyprogesterone Acetate 150 mg/ml (0ml) Vial, Intramuscular</td>
<td></td>
</tr>
<tr>
<td>Injectable Contraceptives</td>
<td>Injectable Contraceptives</td>
<td>Norethisterone Enurate, Injectable</td>
<td>Norethisterone Enurate 200 mg/ml (1 ml) Ampoule, Intramuscular</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Injectable Contraceptives</td>
<td>Injectable Contraceptives</td>
<td>Norethisterone Enurate/Estriol Valerate, Injectable</td>
<td>Norethisterone Enurate/Estriol Valerate 50/5 mg/ml (1 ml) Ampoule, Intramuscular</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral Contraceptives</td>
<td>Combined Oral Contraceptives</td>
<td>Levonorgestrel/Estriol Estradiol/Ferrum Fumarate, Oral</td>
<td>Levonorgestrel/Estriol Estradiol 150/30, Ferrum Fumarate 75 mg, 28 Tablets/Cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral Contraceptives</td>
<td>Combined Oral Contraceptives</td>
<td>Desogestrel/Estriol Estradiol, Oral</td>
<td>Desogestrel/Estriol Estradiol 150/30, 21 Tablets/Cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral Contraceptives</td>
<td>Combined Oral Contraceptives</td>
<td>Desogestrel/Estriol Estradiol/Placbio, Oral</td>
<td>Desogestrel/Estriol Estradiol 150/30, 28 Tablets/Cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral Contraceptives</td>
<td>Combined Oral Contraceptives</td>
<td>Levonorgestrel/Estriol Estradiol, Oral</td>
<td>Levonorgestrel/Estriol Estradiol 150/30, 21 Tablets/Cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral Contraceptives</td>
<td>Combined Oral Contraceptives</td>
<td>Levonorgestrel/Estriol Estradiol/Placbio, Oral</td>
<td>Levonorgestrel/Estriol Estradiol 150/30, 28 Tablets/Cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency Oral Contraceptives</td>
<td>Emergency Oral Contraceptives</td>
<td>Levonorgestrel, Emergency Oral</td>
<td>Levonorgestrel 0.75 mg Tablet, 2 Tablets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency Oral Contraceptives</td>
<td>Emergency Oral Contraceptives</td>
<td>Levonorgestrel 1.5 mg Tablet, 1 Tablet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Progestogen Only PILs</td>
<td>Levonorgestrel, Oral</td>
<td>Levonorgestrel 30 mg Tablet, 28 Tablets/Cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Progestogen Only PILs</td>
<td>Levonorgestrel, Oral</td>
<td>Lynestrenol 0.5 mg Tablet, 28 Tablets/Cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Progestogen Only PILs</td>
<td>Levonorgestrel, Oral</td>
<td>Norethisterone 250 mg Tablet, 28 Tablets/Cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Progestogen Only PILs</td>
<td>Levonorgestrel, Oral</td>
<td>Norgestrel 75 mcg, 28 Tablets/Cycle</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2. Data Connectivity Checklists for Existing Integrations

<table>
<thead>
<tr>
<th>Organization:</th>
<th>USAID GHSC-PSM</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATA</td>
<td>Order</td>
</tr>
<tr>
<td>To GFPVAN</td>
<td>Y</td>
</tr>
<tr>
<td>From GFPVAN</td>
<td>N</td>
</tr>
</tbody>
</table>

*Note - USAID GHSC-PSM shares item master data with GFPVAN manually and not through direct B2B connectivity

<table>
<thead>
<tr>
<th>Organization:</th>
<th>UNFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATA</td>
<td>Order</td>
</tr>
<tr>
<td>To GFPVAN</td>
<td>Y</td>
</tr>
<tr>
<td>From GFPVAN</td>
<td>N</td>
</tr>
</tbody>
</table>

*Note - UNFPA shares item master data with GFPVAN manually and not through direct B2B connectivity

3. Order Information Interface - preferred message format

```xml
<?xml version="1.0" encoding="UTF-8"?>
<px:ProcessPurchaseOrder xmlns:px="http://www.openapplications.org/oagis/10" releaseID="1.0" versionID="10.2">
  <px:ApplicationArea>
    <px:CreationDateTime>2019-04-15T00:00:00+0000</px:CreationDateTime> <!-- REQUIRED - CURRENT SYSTEM DATETIME STAMP -->
    <px:DataArea>
      <px:Process/>
      <px:PurchaseOrder>
```

GLOBAL FAMILY PLANNING VISIBILITY & ANALYTICS NETWORK - INTERFACE SPECIFICATIONS AND GUIDELINES
<px:Party>
  <px:TransportStep>
    <px:TransportationMethodCode>OCEAN</px:TransportationMethodCode> <!-- OPTIONAL - SHIP_TYPE -->
  </px:TransportStep>
  <!-- SCHEDULE -->
  <px:PurchaseOrderSchedule>
    <px:LineNumberID typeCode="ScheduleID">1</px:LineNumberID> <!-- REQUIRED - SCHEDULE_NO -->
    <px:Quantity typeCode="RequestedQty">5176800</px:Quantity> <!-- REQUIRED - QTY_PIECES - Can be in ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->
  </px:PurchaseOrderSchedule>
  <!-- SCHEDULE -->
</px:Party>

ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->

<p:Status>
  <px:EffectiveTimePeriod>
    <px:StartDateTypeCode="RequestedShipDate">2019-10-08T00:00:00+00:00</px:StartDateTypeCode> <!-- REQUIRED - ESTIMATED/REQUESTED SHIP DATE -->
  </px:EffectiveTimePeriod>
  <px:Extension typeCode="EstimatedShipDate">
    <px:DateTime typeCode="EstimatedShipDate">2019-10-08T00:00:00+00:00</px:DateTime> <!-- REQUIRED - ESTIMATED/REQUESTED SHIP DATE -->
  </px:Extension>
  <!-- SCHEDULE -->
</px:Status>

ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->

<p:PurchaseOrderSchedule>
  <px:LineNumberID typeCode="ScheduleID">1</px:LineNumberID> <!-- REQUIRED - SCHEDULE_NO -->
  <px:Quantity typeCode="RequestedQty">108000</px:Quantity> <!-- REQUIRED - QTY_PIECES - Can be in ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->
  <px:Status>
    <px:EffectiveTimePeriod>
      <px:StartDateTypeCode="RequestedShipDate">2019-10-08T00:00:00+00:00</px:StartDateTypeCode> <!-- REQUIRED - ESTIMATED/REQUESTED SHIP DATE -->
    </px:EffectiveTimePeriod>
    <px:Extension typeCode="EstimatedShipDate">
      <px:DateTime typeCode="EstimatedShipDate">2019-10-08T10:27:01+00:00</px:DateTime> <!-- REQUIRED - ESTIMATED/REQUESTED DELIVERY DATE -->
    </px:Extension>
  </px:Status>
</px:PurchaseOrderSchedule>

ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->

<p:LineNumberID>2</p:LineNumberID> <!-- REQUIRED - ORDER LINE_NO -->
<p:Note typeCode="OrderLineNotes">Order shipped, ship date = 2019-12-02, expected arrival date = 2019-12-30</p:Note> <!-- OPTIONAL - line_Notes -->
<p:Status>
  <px:Code typeCode="Action">InsertOrUpdate</px:Code> <!-- REQUIRED - IF Status = 'Cancelled' THEN 'Cancel' ELSE 'InsertOrUpdate' -->
</px:Status>

ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->

<p:Party typeCode="Manufacturer">
  <px:ID typeCode="ManufacturerID">0000047961</px:ID> <!-- REQUIRED - VENDOR_ID -->
  <px:Name>ABC LIMITED</px:Name> <!-- OPTIONAL - VENDOR -->
</p:Party>

ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->

<p:TransportStep>
  <px:TransportationMethodCode>OCEAN</px:TransportationMethodCode> <!-- OPTIONAL - SHIP_TYPE -->
 </px:TransportStep>

ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->

<p:Party typeCode="Manufacturer">
  <px:ID typeCode="ManufacturerID">60000047961</px:ID> <!-- REQUIRED - VENDOR_ID -->
  <px:Name>ABC LIMITED</px:Name> <!-- OPTIONAL - VENDOR -->
</p:Party>

ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->

<p:TransportStep>
  <px:EffectiveTimePeriod>
    <px:StartDateTypeCode="RequestedShipDate">2019-10-08T00:00:00+00:00</px:StartDateTypeCode> <!-- REQUIRED - ESTIMATED/REQUESTED SHIP DATE -->
  </px:EffectiveTimePeriod>
</px:TransportStep>

ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->

<p:Extension>
4. Shipment Information & Shipment Updates Interface - preferred message format

```xml
<px:NotifyShipment releaseID="normalizedString" xmlns:px="http://www.openapplications.org/oagis/10"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.openapplications.org/oagis/10 file:c:/toolbox/NotifyShipment.xsd">
  <px:ApplicationArea>
    <px:CreationDateTime>2018-12-12T17:07:00</px:CreationDateTime>  <!-- REQUIRED - CURRENT DATETIME STAMP -->
  </px:ApplicationArea>
  <px:DataArea>
    <px:Notify/>
    <px:Shipment>  <!-- HEADER -->
      <px:ShipmentHeader>
        <px:ID>PO-0000038686-1-1</px:ID>  <!-- REQUIRED - SHIPMENTID - ORDERID_LINEID_SCHEDID -->
        <px:DocumentDateTime typeCode="ShipmentCreationDate">2018-12-12T09:11:00+0000</px:DocumentDateTime>  <!-- REQUIRED - ORDER_DATE -->
      </px:ShipmentHeader>
      <px:ID typeCode="ProgramRecipientID">KHM41</px:ID>  <!-- REQUIRED - SHIPTO -->
    </px:Shipment>
    <px:DocumentDateTime typeCode="ShipDate">2018-12-12T12:00+0000</px:DocumentDateTime>
    <px:Note typeCode="DataVisibility">Public</px:Note>
    <px:Note typeCode="CustomerType">GOVT/MOH</px:Note>
    <px:EstimatedDepartureDateTime>2019-10-08T00:00:00+0000</px:EstimatedDepartureDateTime>  <!-- REQUIRED - ESTIMATED/REQUESTED SHIP_DATE -->
    <px:EstimatedArrivalDateTime>2019-11-08T00:00:00+0000</px:EstimatedArrivalDateTime>  <!-- REQUIRED - ESTIMATED/REQUESTED ARRIVAL DATE -->
  </px:DataArea>
</px:NotifyShipment>
```

To adhere to our desired standard and still work with "shipments" we need to create synthetic keys for a SHIPMENTID. Normally we would have a ASN/BOOKING id from a carrier that would be unique that would have under it one or more shipments that fulfill x orders. However, here we don't have this concept so we are creating a SHIPMENT for each ORDER+LINE+SCHEDULE so that the shipment tracking can align. The down side is the object is very repetitive of data. On the plus side, when we start pulling through carriers the structure can accomodate without code changes.

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GLOBAL FAMILY PLANNING VISIBILITY & ANALYTICS NETWORK - INTERFACE SPECIFICATIONS AND GUIDELINES
<px:SupplierParty>
  <!-- REQUIRED - Vendor_ID -->
  <px:ID>0000047961</px:ID>
  <!-- OPTIONAL - VENDOR -->
  <px:Name>ABC LIMITED</px:Name>
  <px:Location>
    <px:Address>
      <!-- OPTIONAL - Vendor_ID -->
      <px:ID typeCode="Address-Descriptor">0000047961</px:ID>
      <px:AddressLine typeCode="LINE1">Not Applicable</px:AddressLine>
      <px:AddressLine typeCode="LINE2">Not Applicable</px:AddressLine>
      <px:AddressLine typeCode="LINE3">Not Applicable</px:AddressLine>
      <px:AddressLine typeCode="LINE4">Not Applicable</px:AddressLine>
      <px:AddressLine typeCode="LINE5">Not Applicable</px:AddressLine>
      <px:CityName>City Name</px:CityName>
      <px:PostalCode>97002</px:PostalCode>
    </px:Address>
  </px:Location>
</px:SupplierParty>
<px:Party typeCode="Recipient">
  <px:Location>
    <px:Address>
      <px:ID typeCode="Address-Descriptor">Address -Descriptor</px:ID>
      <px:AddressLine typeCode="LINE1">LINE1</px:AddressLine>
      <px:AddressLine typeCode="LINE2">LINE2</px:AddressLine>
      <px:AddressLine typeCode="LINE3">LINE3</px:AddressLine>
      <px:AddressLine typeCode="LINE4">LINE4</px:AddressLine>
      <px:AddressLine typeCode="LINE5">LINE5</px:AddressLine>
      <px:CityName>CITY</px:CityName>
      <px:PostalCode>511685</px:PostalCode>
    </px:Address>
  </px:Location>
</px:Party>
<px:Extension>
  <px:Code typeCode="CountryISOCode">KH</px:Code>
</px:Extension>
<px:AddressLine typeCode="LINE2">Not Applicable</px:AddressLine>        <!-- OPTIONAL -->
<px:AddressLine typeCode="LINE3">Not Applicable</px:AddressLine>        <!-- OPTIONAL -->
<px:AddressLine typeCode="LINE4">Not Applicable</px:AddressLine>        <!-- OPTIONAL -->
<px:AddressLine typeCode="LINE5">Not Applicable</px:AddressLine>        <!-- OPTIONAL -->
</px:Address>
</px:Location>
</px:ManufacturingParty>
<px:PurchaseOrderReference>
<px:DocumentIDSet typeCode="RefOrderID">
<px:ID>PO-0000038686</px:ID>                                                <!-- REQUIRED - IF INV THEN "INV-" + order_no + pick_plan ELSE "PO-" + order_no -->
</px:DocumentIDSet>
<px:DocumentIDSet typeCode="RefCountryISOCode">
<px:ID>KH</px:ID>                                                           <!-- REQUIRED - COUNTRY_ISO_2 -->
</px:DocumentIDSet>
<px:Description typeCode="RefOrderType">DiscreteOrder</px:Description><!-- REQUIRED - HARDCODE DiscreteOrder -->
<px:Note typeCode="ProcurerItemID">CONDOM 49 STANDARD</px:Note> <!-- REQUIRED - ITEM_ID -->
<px:Note typeCode="ProcurerItemDescription">Male condom 49mm, standard, natural</px:Note> <!-- REQUIRED - ITEM_DESC -->
<px:LineNumberID typeCode="RefOrderLineID">1</px:LineNumberID> <!-- REQUIRED - ORDER_LINE_NO -->
<px:ReleaseNumberID typeCode="RefOrderPromiseID">1</px:ReleaseNumberID> <!-- REQUIRED - HARDCODE TO 1 -->
<px:ScheduleLineNumberID typeCode="RefOrderRequestID">1</px:ScheduleLineNumberID> <!-- REQUIRED - SCHEDULE_NO -->
<px:Extension typeCode="ShipLegStatus">
<px:Text>100</px:Text>                                                          <!-- REQUIRED - IF ORDER_STATUS = "ORDER PLACED" THEN 0 ELSEIF "ORDER SHIPPED" THEN 100 ELSEIF "CANCELLED" -100 -->
</px:Extension>
<px:Extension typeCode="BuyerCode">
<px:Text></px:Text>                                                        <!-- REQUIRED - PROCURER -->
</px:Extension>
<px:ShipmentLineNotes>
<px:Text>Order shipped, ship date = 2019-12-02, expected arrival date = 2019-12-30</px:Text> <!-- OPTIONAL - LINE_NOTES -->
</px:ShipmentLineNotes>
<px:Extension typeCode="DeliveredDate">
<px:DateTime>2018-18-12T09:11:00+0000</px:DateTime> <!-- OPTIONAL - ATA_from_OTS -->
</px:Extension>
</px:Shipment>
<px:PostalCode>97004</px:PostalCode> <!-- OPTIONAL -->
<px:CountrySubDivisionCode typeCode="State">ST</px:CountrySubDivisionCode> <!-- OPTIONAL -->
<px:CountrySubDivisionCode typeCode="County">NA</px:CountrySubDivisionCode> <!-- OPTIONAL -->
<px:CityName>City Name</px:CityName> <!-- OPTIONAL -->
<px:CountrySubDivisionCode typeCode="State">ST</px:CountrySubDivisionCode> <!-- OPTIONAL -->
<px:CountrySubDivisionCode typeCode="County">NA</px:CountrySubDivisionCode> <!-- OPTIONAL -->
<px:CityName>City Name</px:CityName> <!-- OPTIONAL -->
<px:Shipment>
  <!-- HEADER -->
  <px:ShipmentHeader>
    <px:ID typeCode="PO">PO-0000038686-2-1</px:ID>  <!-- REQUIRED - IF OrderType = INV THEN "INV:" + order_no + pick_plan + line_no + schedule_no ELSE "PO:" + order_no + line_no + schedule_no -->
    <px:DocumentDateTime typeCode="ShipmentCreationDate">2018-12-02T09:11:00+0000</px:DocumentDateTime>  <!-- REQUIRED - ORDER_DATE -->
    <px:Note typeCode="DataProvider"></px:Note>
    <px:Note typeCode="DataVisibility">Public</px:Note>  <!-- HARDCODE - Public (intended for future use) -->
    <px:Note typeCode="CustomerType">Customer_Type</px:Note>  <!-- REQUIRED - CUSTOMER_TYPE -->
    <px:DocumentReference>
      <px:ID typeCode="ProgramRecipientID">KHM41</px:ID>  <!-- REQUIRED - SHIPTO -->
    </px:DocumentReference>
    <px:ActualShipDateTime>2019-12-02T09:11:00+0000</px:ActualShipDateTime>  <!-- OPTIONAL - ACTUAL_SHIP_DATE -->
    <px:TransportationMethodCode typeCode="ShipmentMode">OCEAN</px:TransportationMethodCode>  <!-- OPTIONAL - SHIP_TYPE -->
    <px:EstimatedDepartureDateTime>2019-10-08T00:00:00+0000</px:EstimatedDepartureDateTime>  <!-- REQUIRED - ESTIMATED/REQUESTED_SHIP_DATE -->
    <px:EstimatedArrivalDateTime>2019-11-08T00:00:00+0000</px:EstimatedArrivalDateTime>  <!-- REQUIRED - ESTIMATED/REQUESTED_ARRIVAL_DATE -->
    <px:SupplierParty>
      <px:ID>0000047961</px:ID>  <!-- REQUIRED - Vendor_ID -->
      <px:Name>ABC LIMITED</px:Name>  <!-- OPTIONAL - Vendor -->
      <px:Location>
        <px:Address>
          <px:ID typeCode="Address-Descriptor">0000047961</px:ID>
          <px:AddressLine typeCode="LINE1">Not Applicable</px:AddressLine>  <!-- OPTIONAL -->
          <px:AddressLine typeCode="LINE2">Not Applicable</px:AddressLine>  <!-- OPTIONAL -->
          <px:AddressLine typeCode="LINE3">Not Applicable</px:AddressLine>  <!-- OPTIONAL -->
          <px:AddressLine typeCode="LINE4">Not Applicable</px:AddressLine>  <!-- OPTIONAL -->
          <px:AddressLine typeCode="LINE5">Not Applicable</px:AddressLine>  <!-- OPTIONAL -->
          <px:CityName>City Name</px:CityName>  <!-- OPTIONAL -->
          <px:CountrySubDivisionCode typeCode="State">ST</px:CountrySubDivisionCode>  <!-- OPTIONAL -->
          <px:PostalCode>97002</px:PostalCode>  <!-- OPTIONAL -->
        </px:Address>
      </px:Location>
    </px:SupplierParty>
  </px:ShipmentHeader>
  <!-- OPTIONAL - ACTUAL_SHIP_DATE -->
</px:Shipment>
REQUIRED - IF INV THEN "INV:" + order_no + pick_plan ELSE "PO:" + order_no -->

SCHEDULE_NO -->

REQUIRED - SUM_OF_SHIPPED_QTY - Can be in ORDERED qty but we MUST align before hand on if in ORDERED qty or EACH qty -->

OPTIONAL - IF ATA_FROM_OTS NOT NULL THEN SUM_OF_SHIPPED_QTY -->

REQUIRED - InsertOrUpdate or Cancel -->

<!-- REQUIRED - VENDOR_ID -->

Applicable</px:AddressLine>  <!-- OPTIONAL -->

Applicable</px:AddressLine>  <!-- OPTIONAL -->

Applicable</px:AddressLine>  <!-- OPTIONAL -->

Applicable</px:AddressLine>  <!-- OPTIONAL -->

Applicable</px:AddressLine>  <!-- OPTIONAL -->

<!-- OPTIONAL -->

<px:CountrySubDivisionCode typeCode="State">ST</px:CountrySubDivisionCode>  <!-- OPTIONAL -->

<px:CountrySubDivisionCode typeCode="County">NA</px:CountrySubDivisionCode>  <!-- OPTIONAL -->

<!-- OPTIONAL -->

<px:PostalCode>97004</px:PostalCode>  <!-- OPTIONAL -->

<!-- OPTIONAL -->

<!-- REQUIRED - HARDCODE DiscreteOrder -->

<!-- REQUIRED - ITEM_ID -->
5. Inventory Interface - Message Format

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7. Action Requests Ticket Interface - Message Format

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8. Item Master Data Interface - Message Format

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