The Advance Shipment Notice
IT Specification

2010 10 21

V1.0 DRAFT for Pilot Test

IDEA Alliance
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## 4.2 Pallet Data Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2.2 Product Code</td>
<td>8</td>
</tr>
<tr>
<td>4.2.3 Bipad</td>
<td>8</td>
</tr>
<tr>
<td>4.2.4 Issue</td>
<td>9</td>
</tr>
<tr>
<td>4.2.5 Version</td>
<td>9</td>
</tr>
<tr>
<td>4.2.6 Country Code</td>
<td>9</td>
</tr>
<tr>
<td>4.2.7 Cover Price</td>
<td>9</td>
</tr>
<tr>
<td>4.2.8 Total Copies</td>
<td>9</td>
</tr>
<tr>
<td>4.2.9 Weight per Copy (in lb)</td>
<td>9</td>
</tr>
<tr>
<td>4.2.10 Copies per Bundle</td>
<td>9</td>
</tr>
<tr>
<td>4.2.11 Copies per Display</td>
<td>9</td>
</tr>
<tr>
<td>4.2.12 Total Full Bundles</td>
<td>9</td>
</tr>
<tr>
<td>4.2.13 Total Full Displays</td>
<td>10</td>
</tr>
<tr>
<td>4.2.14 Odd Copies</td>
<td>10</td>
</tr>
<tr>
<td>4.2.15 Length in MM</td>
<td>10</td>
</tr>
<tr>
<td>4.2.16 Width in MM</td>
<td>10</td>
</tr>
<tr>
<td>4.2.17 Thickness in MM</td>
<td>10</td>
</tr>
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</table>

## 4.3 Pallet Data Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3.1 Pallet ID</td>
<td>10</td>
</tr>
<tr>
<td>4.3.2 Pallet Type</td>
<td>10</td>
</tr>
<tr>
<td>4.3.3 Pallet Weight (in lb)</td>
<td>10</td>
</tr>
</tbody>
</table>

## 4.3.4 Repeatable Magazine Block

<table>
<thead>
<tr>
<th>Field</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3.4.1 Magazine Title</td>
<td>11</td>
</tr>
<tr>
<td>4.3.4.2 Product Code</td>
<td>11</td>
</tr>
<tr>
<td>4.3.4.3 Bipad</td>
<td>11</td>
</tr>
<tr>
<td>4.3.4.4 Issue</td>
<td>11</td>
</tr>
<tr>
<td>4.3.4.5 Version</td>
<td>11</td>
</tr>
<tr>
<td>4.3.4.6 Total Copies</td>
<td>11</td>
</tr>
<tr>
<td>4.3.4.7 Weight per Copy (in lb)</td>
<td>11</td>
</tr>
<tr>
<td>4.3.4.8 Total Weight (in lb)</td>
<td>11</td>
</tr>
<tr>
<td>4.3.4.9 Copies per Bundle</td>
<td>12</td>
</tr>
<tr>
<td>4.3.4.10 Total Full Bundles</td>
<td>12</td>
</tr>
<tr>
<td>4.3.4.11 Odd Copies</td>
<td>12</td>
</tr>
</tbody>
</table>

## 5 XML Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 XML Schema</td>
<td>13</td>
</tr>
</tbody>
</table>
1 Status

1.1 Document Status
The status of this document is:

- Draft
- Released for Public Comment
- Released for Pilot Test

1.2 Document Location
The location of this document is:
http://www.idealliance.org/specifications/**

1.3 Version History

<table>
<thead>
<tr>
<th>Version Number</th>
<th>Release Date</th>
<th>Editor</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>1.0</td>
<td>7/18/2010</td>
<td>Kennedy</td>
<td>Initial Draft of ASN IT Specification documentation for public comment</td>
</tr>
<tr>
<td>1.0</td>
<td>10/21/2010</td>
<td>Kennedy</td>
<td>Draft of ASN IT Specification for pilot testing</td>
</tr>
</tbody>
</table>
2 ASN Documentation Structure

ASN is described in a set of two documents that, taken together, represent “the IDEAlliance ASN Specification”. Together these documents comprise the ASN Documentation Package.

2.1 Normative and Non-normative Sections

Documents in the ASN Documentation Package may contain both normative and non-normative material; normative material describes element names, attributes, formats, and the content of elements that is required in order for content or systems to comply with the ASN Specification. Non-normative material explains, expands on, or clarifies the normative material, but it does not represent requirements for compliance. Normative material in the ASN Documentation Package is explicitly identified as such; any material not identified as normative can be assumed to be non-normative.

Requirement Wording Note

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC-2119]. The PRISM Specification also uses the normative term, “STRONGLY ENCOURAGES”, which should be understood as a requirement equivalent to MUST in all but the most extraordinary circumstances.

Capitalization is significant; lower-case uses of the key words are intended to be interpreted in their normal, informal, English language way.

2.2 The ASN Documentation Package

The ASN Documentation Package consists of:

<table>
<thead>
<tr>
<th>Document</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASN Functional Specification</td>
<td>[ASNFS] Overview, background, purpose and scope of the ASN; expected function</td>
</tr>
<tr>
<td>ASN IT Specification</td>
<td>[ASNIT] Contains an XML model matching the functionality outlined in the</td>
</tr>
</tbody>
</table>

Table 1.0: ASN Documentation Package

2.3 Supporting ASN Forms

In addition to the The ASN Documentation Package, a set of forms to support the simple implementation of specification is provided.

2.4 ASN XML Schema

For those implementing the ASN with XML, an XML schema is provided.
3 Introduction
The Advance Shipment Notice provides individual trailer inventory of inbound shipments. It does not replace the allotment notices. Nor does it replace a bill of lading or the manifest. The primary difference between an ASN and Manifest is that the documentation that accompanies the shipment has, by requirement, the pallet information. In the ASN, pallet data may be included, but is optional.

3.1 ASN Implementation Phases
We see ASN implementation occurring in phases. In the first phase, the ASN simply provides a warning from the shipper to the Wholesaler about a pending delivery. In this phase the warning will simply involve the use of a standardized ASN form by all parties. This initial phase is viewed as a short-term solution and does not have a goal of integration between Shipper and Wholesaler systems.

Computerized automation will be a future goal of the IDEAlliance ASN project.

3.2 Goal of the ASN Initial Phase
The goal of the initial phase of the IDEAlliance ASN project is to provide information to the destination's receiving operations in advance of delivery so that the delivery can be processed efficiently. Trailer and magazine data will be provided. Pallet data is optional and is not an intent of initial ASN adoption.

3.3 Benefits of the ASN Initial Phase
Several immediate benefits are intended from the ASN initial phase.

- The first benefit will come with the standardization of notification process between the shipper and wholesaler when a delivery is being planned. This benefit will only be realized if the shipper can provide the shipment date and estimated arrival time.
- The second benefit will come because the wholesaler will be prepared to receive a specified number of pallets or displays for the shipment and will know whether handling a mixed shipment will be required.
- The third benefit will come because the wholesaler will know what magazine titles are being shipped and, if necessary, can initiate inquiries which may be resolved prior to the shipment’s physical arrival at the consignee.

3.4 ASN Forms
For the initial phase, a spreadsheet or form has been constructed to represent a standardized ASN. We have examined a number of forms and manifests used by shippers to communicate with wholesalers and from these have developed a set of two standard forms. If shippers can first standardize on the forms, moving forward at a later time with computerized ASN will be a natural follow-on. The ASN Forms serve as the basis for the ASN XML Data Model. Some implementers who do not have IT expertise in XML may initially implement the ASN Specification by simply using the ASN Forms. Other implementers, who have IT expertise in XML may implement this specification with XML.

3.5 ASN XML Data Model
ASN Data can be represented by records and fields that directly relate to the benefits expected from the Phase I project. An XML Data Model has been constructed to support ongoing work. That is documented in a separate document for interested IT personnel.
3.5.1 ASN Model
The ASN Data Model is made up of three components. These can be represented by 3 forms or spreadsheets. The XML model for ASN is shown below.

![ASN Diagram]

TrailerShipmentData occurs one time. Magazine data occurs for every magazine on the trailer. Pallet Data is optional, but may occur for each pallet loaded on the truck.

3.5.2 Trailer Data Model
Each ASN has required Trailer Data. When encoded in XML, the model is shown below:

![Trailer Diagram]

Note that the fields that are illustrated with solid borders are required.

3.5.3 Magazine Data
A second type of data that is required for an ASN is Magazine Data. This data will be repeated for each magazine on the trailer.
Note that the fields that are illustrated with solid borders are required.

3.5.4 Pallet Data (Optional)

While pallet data is required in a manifest that is delivered with the trailer content, it is optional for the ASN. Initially we believe that pallet data will not be included with the ASN. Over time, this may change. Pallet Data will be repeated for each pallet on the trailer.
Note that the fields that are illustrated with solid borders are required.
Fields defining the magazine on the pallet will repeat for each magazine type on the pallet.
**4 Field Definitions**
The following definitions are provided to clarify the use of each field within the XML XSD.

**4.1 Trailer Data Fields**

**4.1.1 Shipper ID**
A unique identifier for the shipper.
Datatype: String length 13
Cardinality: Required

**4.1.2 Shipper Name**
The corporate name of the shipper.
Datatype: String length 40
Cardinality: Required

**4.1.3 Shipper Address**
The shipper’s address including street address, city, state and zipcode.
Datatype: Complex addressType
Cardinality: Optional

**4.1.4 Shipper Phone**
The contact phone number for the shipper.
Datatype: Complex phoneNumberType
Cardinality: Optional

**4.1.5 Shipper Email**
The email contact for the shipper.
Datatype: String length 64
Cardinality: Optional

**4.1.6 Consignee ID**
The unique identifier for the consignee. This will likely be the distributor’s codes.
Datatype: String length 13
Cardinality: Required

**4.1.7 Consignee Name**
The name of the consignee organization.
Datatype: String length 40
Cardinality: Required

**4.1.8 Appointment ID**
The unique identifier assigned to the shipment appointment by the shipper or consignee.
Datatype: String length 12
Cardinality: Optional
4.1.9 Carrier Name
The name of the carrier for this shipment.
Datatype: String length 40
Cardinality: Optional

4.1.10 Carrier Contact Name
The name of the carrier contact for this shipment.
Datatype: String length 40
Cardinality: Optional

4.1.11 Carrier Contact Phone
The phone of the carrier contact for this shipment.
Datatype: String length 40
Cardinality: Optional

4.1.12 Scheduled Shipment Date
The date the shipment is scheduled to ship.
Datatype: String
Cardinality: Required

4.1.13 Estimated Arrival Date
The estimated date of shipment arrival.
Datatype: String
Cardinality: Required

4.2 Magazine Data Fields

4.2.1 Magazine Title
The publication name of the magazine
Datatype: String length 40
Cardinality: Required

4.2.2 Product Code
The unique code for a product that is represented by scanable bars. This may be the bipad, GTIN, UPC or some other industry accepted product description.
Datatype: String length 19
Cardinality: Required

4.2.3 Bipad
Middle 5 digits of the barcode on the magazine. It is the permanent identification of a magazine title for the life of a the magazine.
Datatype: String length 5
Cardinality: Required
4.2.4 Issue
An additional identifier used to record an issue of a magazine.
Datatype: String length 10
Cardinality: Required

4.2.5 Version
An additional identifier used to record a specific version of a magazine.
Datatype: String length 14
Cardinality: Optional

4.2.6 Country Code
The country code for the distribution country.
Datatype: Complex countryCode Type
Cardinality: Optional

4.2.7 Cover Price
Price(s) printed on the magazine cover. May include the country.
Datatype: String
Cardinality: Required

4.2.8 Total Copies
The total number of copies of this magazine on the trailer.
Datatype: Nonnegative Integer
Cardinality: Required

4.2.9 Weight per Copy (in lb)
The weight of a single copy of the magazine expressed in pounds or decimal fractions of a pound.
Datatype: Floating Decimal
Cardinality: Required

4.2.10 Copies per Bundle
The number of copies of this magazine that will make up a bundle.
Datatype: Nonnegative Integer
Cardinality: Required

4.2.11 Copies per Display
The number of copies of this magazine when packaged as a display.
Datatype: Nonnegative Integer
Cardinality: Required

4.2.12 Total Full Bundles
The total number of full bundles of this magazine on the trailer.
Datatype: Nonnegative Integer
Cardinality: Required
4.2.13 Total Full Displays
The total number of full displays are on the trailer containing this magazine.
Datatype: Nonnegative Integer
Cardinality: Required

4.2.14 Odd Copies
The number of odd copies of this magazine on the trailer that are not part of a full bundle or display.
Datatype: Nonnegative Integer
Cardinality: Required

4.2.15 Length in MM
The length of the magazine in mm.
Datatype: Floating Decimal
Cardinality: Optional

4.2.16 Width in MM
The width of the magazine in mm.
Datatype: Floating Decimal
Cardinality: Optional

4.2.17 Thickness in MM
The thickness of the magazine in mm.
Datatype: Floating Decimal
Cardinality: Optional

4.3 Pallet Data Fields
Note: Pallet Data is optional for the ASN. Pallet fields are repeated for each pallet on the trailer.

4.3.1 Pallet ID
The unique identifier for this pallet (or display).
Datatype: String length 24
Cardinality: Required

4.3.2 Pallet Type
The pallet type will be either a pallet or a display. The default pallet type is understood to be the pallet.
Datatype: “pallet” or “display”
Cardinality: Required

4.3.3 Pallet Weight (in lb)
The weight of this pallet or display expressed in pounds or decimal fractions of a pound.
Datatype: Nonnegative Integer
Cardinality: Required
4.3.4 Repeatable Magazine Block
This block is repeated for every magazine on a pallet.

4.3.4.1 Magazine Title
The publication name of the magazine.
Datatype: String length 40
Cardinality: Required

4.3.4.2 Product Code
The unique code for a product represented by scannable bars.
Datatype: String length 19
Cardinality: Required

4.3.4.3 Bipad
Middle 5 digits of the barcode on the magazine. It is the permanent identification of a magazine title for the life of a the magazine.
Datatype: String length 5
Cardinality: Required

4.3.4.4 Issue
An additional identifier used for a specific issue of a magazine.
Datatype: String length 10
Cardinality: Required

4.3.4.5 Version
An additional identifier used for a specific issue of a magazine.
Datatype: Sting length 14
Cardinality: Optional

4.3.4.6 Total Copies
The total number of copies of this magazine on this pallet.
Datatype: Nonnegative Integer
Cardinality: Optional

4.3.4.7 Weight per Copy (in lb)
The weight of a single copy of the magazine expressed in pounds or decimal fractions of a pound.
Datatype: Nonnegative Integer
Cardinality: Required

4.3.4.8 Total Weight (in lb)
The total weight of this magazine on this pallet expressed in pounds or decimal fractions of a pound.
Datatype: Floating Decimal
Cardinality: Required

4.3.4.9 Copies per Bundle
The number of copies of this magazine that will make up a bundle.
Datatype: Nonnegative Integer
Cardinality: Required

4.3.4.10 Total Full Bundles
The total number of full bundles of this magazine on the trailer.
Datatype: Nonnegative Integer
Cardinality: Required

4.3.4.11 Odd Copies
The number of odd copies of this magazine on the trailer that are not part of a full bundle or display.
Datatype: Nonnegative Integer
Cardinality: Required
5 XML Schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified" attributeFormDefault="unqualified"
  version="v1_20101021">
  <xs:annotation>
    <xs:documentation>Copyright 2010 International Digital Enterprise Alliance, Inc.</xs:documentation>
  </xs:annotation>
  <xs:element name="ASN">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="TrailerShipmentData"/>
        <xs:element ref="MagazineData" maxOccurs="unbounded"/>
        <xs:element ref="PalletData" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TrailerShipmentData">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="ShipperID" type="s13"/>
        <xs:element name="ShipperName" type="s40"/>
        <xs:element name="ShipperAddress" type="addressType" minOccurs="0"/>
        <xs:element name="ShipperPhone" type="phoneNumberType" minOccurs="0"/>
        <xs:element name="ShipperEmail" type="s64" minOccurs="0"/>
        <xs:element name="ConsigneeID" type="s13"/>
        <xs:element name="ConsigneeName" type="s40"/>
        <xs:element name="ApptID" type="s12" minOccurs="0"/>
        <xs:element name="CarrierContact" type="s40" minOccurs="0"/>
        <xs:element name="CarrierContactName" type="s40" minOccurs="0"/>
        <xs:element name="CarrierContactPhone" type="s40" minOccurs="0"/>
        <xs:element name="ScheduledShipmentDate" type="xs:string" minOccurs="0"/>
        <xs:element name="EstimatedArrival" type="xs:string" minOccurs="0"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```
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```
<xs:element name="ProductCode" type="s19"/>
<xs:element name="Bipad" type="s05"/>
<xs:element name="Issue" type="s10"/>
<xs:element name="Version" type="s14" minOccurs="0"/>
<xs:element name="CountryCode" type="countryCodeType" default="US" minOccurs="0"/>
<xs:element name="CoverPrice" type="xs:string" />
<xs:element name="TotalCopies" type="xs:nonNegativeInteger"/>
<xs:element name="WeightPerCopy" type="xs:float" />
<xs:element name="CopiesPerBundle" type="xs:nonNegativeInteger" />
<xs:element name="CopiesPerDisplay" type="xs:nonNegativeInteger" />
<xs:element name="TotalFullBundles" type="xs:nonNegativeInteger" />
<xs:element name="TotalFullDisplays" type="xs:nonNegativeInteger" />
<xs:element name="OddCopies" type="xs:nonNegativeInteger" />
</xs:sequence>
</xs:complexType>

<!-- Pallet Data -->

```
<xs:element name="PalletData">
<xs:complexType>
<xs:sequence>
<xs:element name="PalletID" type="s24"/>
<xs:element name="PalletType" type="containerTypeType" default="pallet"/>
<xs:element name="PalletWeight" type="xs:float" />
<xs:sequence maxOccurs="unbounded">
<xs:element name="MagazineTitle" type="s40"/>
<xs:element name="ProductCode" type="s19"/>
<xs:element name="Bipad" type="s05"/>
<xs:element name="Issue" type="s10" />
<xs:element name="Version" type="s14" minOccurs="0"/>
<xs:element name="CountryCode" type="countryCodeType" default="US" minOccurs="0"/>
<xs:element name="CoverPrice" type="xs:string" />
<xs:element name="TotalCopies" type="xs:nonNegativeInteger"/>
<xs:element name="WeightPerCopy" type="xs:float" />
<xs:element name="CopiesPerBundle" type="xs:nonNegativeInteger" />
<xs:element name="CopiesPerDisplay" type="xs:nonNegativeInteger" />
<xs:element name="TotalFullBundles" type="xs:nonNegativeInteger" />
<xs:element name="TotalFullDisplays" type="xs:nonNegativeInteger" />
<xs:element name="OddCopies" type="xs:nonNegativeInteger" />
<xs:element name="LengthInMM" type="xs:float" minOccurs="0"/>
<xs:element name="WidthInMM" type="xs:float" minOccurs="0"/>
<xs:element name="ThicknessInMM" type="xs:float" minOccurs="0"/>
</xs:sequence>
</xs:sequence>
</xs:complexType>
```
<!---- Address Type ----->
<xs:complexType name="addressType">
  <xs:sequence>
    <xs:element name="Address1" type="s64"/>
    <xs:element name="Address2" type="s64" minOccurs="0"/>
    <xs:element name="City" type="s45"/>
    <xs:element name="State" type="stateCode"/>
    <xs:element name="ZipCode" type="s10"/>
  </xs:sequence>
</xs:complexType>

<!--===  SIMPLE TYPES  ===-->

<!---- SIMPLE TYPES ----->
<!---- SIMPLE TYPES ----->
<!---- SIMPLE TYPES ----->

<xs:simpleType name="countryCodeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="US"/>
    <xs:enumeration value="CA"/>
  </xs:restriction>
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    <xs:enumeration value="pallet"/>
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</xs:simpleType>

<xs:simpleType name="phoneNumberType">
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The Advance Shipment Notice IT Specification DRAFT for Pilot Test

```xml
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</xs:simpleType>
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 <!--=== State Codes ===-->
<xs:simpleType name="stateCode">
</xs:simpleType>
</xs:import>
```

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  <xs:enumeration value="AE"/>
  <xs:enumeration value="AP"/>
  <xs:enumeration value="AL"/>
  <xs:enumeration value="AK"/>
  <xs:enumeration value="AS"/>
  <xs:enumeration value="AZ"/>
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  <xs:enumeration value="DE"/>
  <xs:enumeration value="DC"/>
  <xs:enumeration value="FL"/>
  <xs:enumeration value="GA"/>
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  <xs:enumeration value="IL"/>
  <xs:enumeration value="IN"/>
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  <xs:enumeration value="ID"/>
  <xs:enumeration value="KS"/>
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  <xs:enumeration value="NV"/>
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  <xs:enumeration value="NM"/>
  <xs:enumeration value="NY"/>
  <xs:enumeration value="NC"/>
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  <xs:enumeration value="SD"/>
  <xs:enumeration value="TN"/>
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