

## Release Notes for PIP® 3B18

**Validated 11.12.00**

<b>Specification Information</b>	
<b>Name</b>	Notify Of Shipping Documentation
<b>Cluster</b>	Order Management
<b>Segment</b>	Transportation and Distribution
<b>Publication Date</b>	30 May 2012
<b>Version Identifier</b>	V11.12

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# 1 Document Management

## 1.1 Legal Disclaimer

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## 1.4 Related Documents

- Associated PIP Message Schemas (included within the PIP Specification package only)
- Description of PIP 3B18 Message
- Message Structure
- XML instance of ebBPSS for PIP 3B18

## 1.5 Purpose

This document describes the issues and resolutions pertaining to PIP 3B18 and the changes that were made to develop PIP 3B18 V11.12.00.

## 1.6 Scope

This document contains information describing changes to PIP 3B18 including changes to the Description of Partner Interface Process, Description of Message. It does not contain other changes or information regarding other PIPs.

## 1.7 Document Version History

<b><u>Version</u></b>	<b><u>Date</u></b>	<b><u>Description</u></b>
Validated 11.01.00	08 October 2007	Update PIP version from V11.00.00 to V11.01.00
Validated 11.10.00	22 May 2008	Update PIP version from V11.01.00 to V11.10.00
Validated 11.11.00	22 February 2011	Update PIP version from V11.10.00 to V11.11.00
Validated 11.12.00	30 May 2012	Update PIP version from V11.11.00 to V11.12.00

## 2 Changes to “Description of Partner Interface Process” Document

Table 3.1: “Description of Partner Interface Process” Document Changes

#	Description of Changes
1	<b>-NIL-</b>

### 3 Changes to Interchange Objects

Table 4.1: Interchange Changes

#	Description of Changes
1	<p><b>CLASS:</b> Interchange::ShippingDocumentationNotification::ShippingBusinessDocument</p> <p><b>ACTION:</b> Modify</p> <p><b>CHANGE(s):</b></p> <ul style="list-style-type: none"> <li>(1) Added association to Procurement::CodeList::RN_ActionType::ActionType with cardinality 0..1.</li> <li>(2) Added attributes: <ul style="list-style-type: none"> <li>(Name: declarationStatus, Type: String, Cardinality: 0..1)</li> <li>(Name: totalLineItems, Type: Integer, Cardinality: 0..1)</li> <li>(Name: totalPackages, Type: Integer, Cardinality: 0..1)</li> </ul> </li> </ul> <p><b>BUSINESS REQUIREMENT(s):</b></p> <p>(1) Import/Export declaration document could be submitted to Customs in different ways/actions/functions. For e.g. : 1) New import/export declaration submission, 2) Update of info. to submitted import/export declaration 3) Cancel the previous submitted import/export declaration form. There's possibilities where customs broker might update or cancel the import/export declaration that he/she submitted to Customs. This codelist is essential to specify the required action by Customs backend system, upon receive of PIP3B18.</p> <p>(2a) There's no element to specify the status(Completed, Uncompleted, Approved, Unapproved) of PIP3B18. This element is crucial to determine the status of import/export declaration document, whether it has been rejected or approved by Customs. Import/Export declaration document could be approved or rejected by Customs. Rejected declaration need to be revised and resubmit to Customs. Whereas, approved declaration will be saved/archived to data repository system.</p> <p>(2b) There's no element to specify the total number of line items on the import/export declaration. This element is used to cross check against the number of shipment line item in PIP3B18. The value of TotalLineItems must tally with the number of occurrence of ShipmentLineItem. Customs system will validate if TotalLineItems value is equal to the number of occurrence of ShipmentLineItem. Otherwise, Import/Export Declaration document will be rejected.</p> <p>(2c) There's no element to specify the total number of packages on the import/export declaration. This element is used to cross check against the total number of item packages in PIP3B18. The value of TotalPackages must tally with the total number of item packages at ShipmentLineItem level. Customs system will validate if TotalPackages value is equal to the total number of item packages at line item level. Otherwise, Import/Export Declaration document will be rejected.</p>

Table 4.1: Interchange Changes

#	Description of Changes
	<p><b>Previous PIP Package Version: V11.01.00</b></p> <pre> graph LR     SB[ShippingBusinessDocument - declarationMode[0..1] : string - remarks[0..1] : string]     HI[HeaderInformation]     SI[ShipmentInformation]     SL[ShipmentLineItem]     CD[ShippingDocument (from RN_ShippingDocument)]      SB --&gt; HI     SB --&gt; SI     SB -- 1..n --&gt; SL     SB --&gt; CD </pre> <p><b>New PIP Package Version: V11.10.00</b></p> <pre> graph LR     SB[ShippingBusinessDocument - declarationMode[0..1] : string - declarationStatus[0..1] : string - remarks[0..1] : string - totalLineItems[0..1] : integer - totalPackages[0..1] : integer]     AT[ActionType (from RN_ActionType)]     HI[HeaderInformation]     SI[ShipmentInformation]     SL[ShipmentLineItem]     CD[ShippingDocument (from RN_ShippingDocument)]      SB -- 0..1 --&gt; AT     SB --&gt; HI     SB --&gt; SI     SB -- 1..n --&gt; SL     SB --&gt; CD </pre>

Table 4.1: Interchange Changes

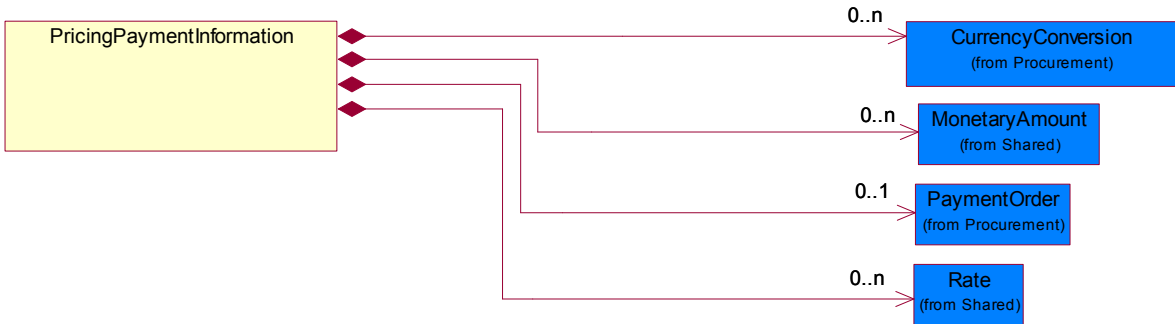
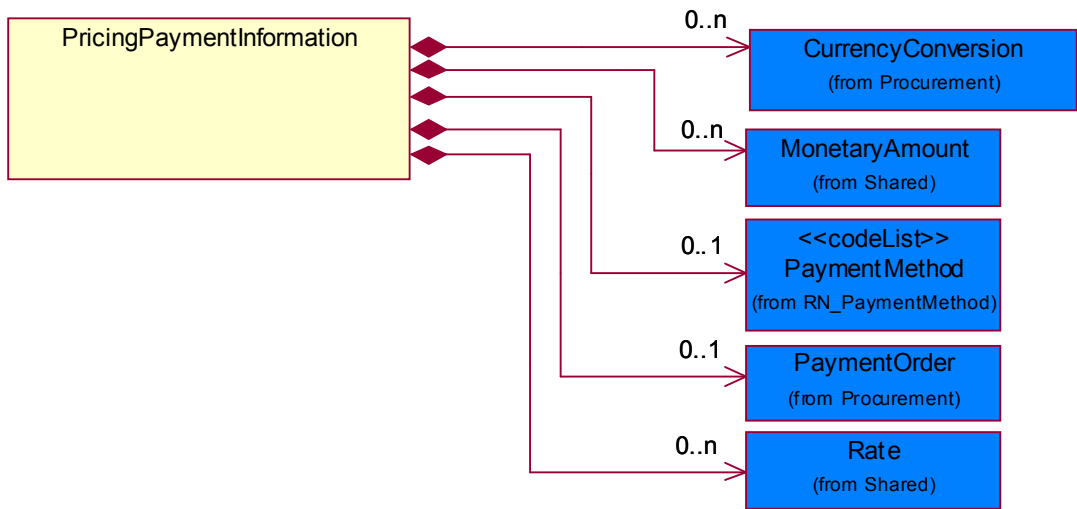
#	Description of Changes
2	<p><b>CLASS:</b> Interchange::ShippingDocumentationNotification::PricingPaymentInformation</p> <p><b>ACTION:</b> Modify</p> <p><b>CHANGE(s):</b></p> <p>(1) Added association to Shared::codeList::RN_PaymentMethod::PaymentMethod with cardinality 0..1.</p> <p><b>BUSINESS REQUIREMENT(s):</b></p> <p>There's no element to specify how payment is made to seller by buyer. For e.g. : Cash, Cheque, Wire Transfer, etc. Besides the pricing of total shipment, payment method is another info. requested by Customs for import/export declaration approval. This information is used by Customs to verify the payment order of freight shipment.</p> <p><b>Previous PIP Package Version: V11.01.00</b></p>  <p><b>New PIP Package Version: V11.10.00</b></p> 



Table 4.1: Interchange Changes

#	Description of Changes
3	<p><b>CLASS:</b> Interchange::ShippingDocumentationNotification::ShipmentLineItem</p> <p><b>ACTION:</b> Modify</p> <p><b>CHANGE(s):</b></p> <ul style="list-style-type: none"> <li>(1) Added attributes: <ul style="list-style-type: none"> <li>(a) (Name:customsValuationMethod,Type:String,Cardinality:0..1)</li> <li>(b) (Name: PreviousCustomsProcedure, Type: String, Cardinality: 0..n)</li> </ul> </li> <li>(2) Added association to BusinessDocumentReference <ul style="list-style-type: none"> <li>(Role Name: PreviousBusinessDocumentReference, Cardinality: 0..n)</li> </ul> </li> <li>(3) Added association to BusinessDocumentReference (Cardinality: 0..n)</li> <li>(4) Added association to Procurement::TaxSummary (Cardinality: 0..1)</li> </ul> <p><b>BUSINESS REQUIREMENT(s):</b></p> <p>(1a) There's no element to indicate the method on which the Customs value is determined.</p> <p>Method for determining customs value according to GATT agreement.</p> <p>Method 1: transaction value</p> <p>Method 2: transaction value of identical goods</p> <p>Method 3: transaction value of similar goods</p> <p>Method 4: deductive method</p> <p>Method 5: computed method</p> <p>Method 6: fall-back method</p> <p>(1b) There's no element to specify the previous customs procedures information. Customs procedures previously applied for a commodity item in the declaration. This kind of information must be declared only when carrying out specialized customs procedures such as on-the-spot export/import; export processing enterprises, temporary import and re-export, etc. which requires to make known the information on the previous procedures within these regulations..</p> <p>(2) There's no element to specify the previous customs documents information. Information which allows reference to customs documents in previous customs procedures (e.g. temporary import declaration for the commodities which are temporarily imported - re-exported; on-the-spot imported declaration for the commodities which are on-the-spot exported, etc.). This criterion is required to declare when previously declaring for customs procedures (this kind of information belongs to Form 15, Appendix VIII). In case of a one-time declaration, the previous temporarily declarations must be declared.</p>

Table 4.1: Interchange Changes

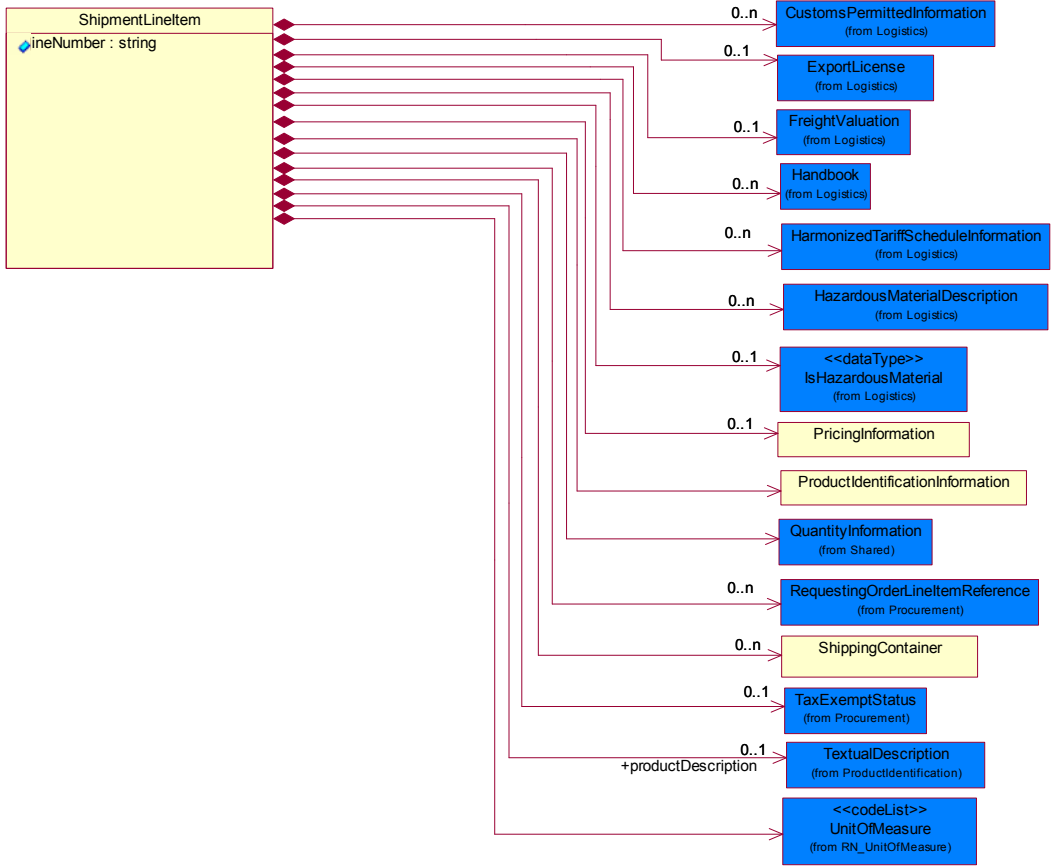
#	Description of Changes
3	<p>(3) There's no element to specify the customs documents reference information at item level. Information which refers to documents enclosed with the declaration is inclusive. For e.g. : declaration on the value, licence, certificate of origin, quality control registration, food safety and hygiene registration, etc.</p> <p>(4) There's no element to specify the tax information of import/export declaration  TaxInformation must include the following information :  Type of tax : Tax applied for commodity items listed on the declaration  Tax rate : Percentage used as a basis for determining tax amount  Tax amount : Fee, charge and other collection amounts according to the type of tax  TaxInformation is used to calculate Shipment taxable value</p> <p><b>Previous PIP Package Version: V11.01.00</b></p>  <pre> classDiagram     class ShipmentLineItem {         lineNumber : string     }     class CustomsPermittedInformation {         (from Logistics)     }     class ExportLicense {         (from Logistics)     }     class FreightValuation {         (from Logistics)     }     class Handbook {         (from Logistics)     }     class HarmonizedTariffScheduleInformation {         (from Logistics)     }     class HazardousMaterialDescription {         (from Logistics)     }     class IsHazardousMaterial {         &lt;&lt;data type&gt;&gt;         (from Logistics)     }     class PricingInformation {     }     class ProductIdentificationInformation {     }     class QuantityInformation {         (from Shared)     }     class RequestingOrderLineItemReference {         (from Procurement)     }     class ShippingContainer {     }     class TaxExemptStatus {         (from Procurement)     }     class TextualDescription {         (from ProductIdentification)     }     class UnitOfMeasure {         &lt;&lt;codeList&gt;&gt;         (from RN_UnitOfMeasure)     }      ShipmentLineItem "0..n" --&gt; CustomsPermittedInformation     ShipmentLineItem "0..1" --&gt; ExportLicense     ShipmentLineItem "0..1" --&gt; FreightValuation     ShipmentLineItem "0..n" --&gt; Handbook     ShipmentLineItem "0..n" --&gt; HarmonizedTariffScheduleInformation     ShipmentLineItem "0..n" --&gt; HazardousMaterialDescription     ShipmentLineItem "0..1" --&gt; IsHazardousMaterial     ShipmentLineItem "0..1" --&gt; PricingInformation     ShipmentLineItem --&gt; ProductIdentificationInformation     ShipmentLineItem --&gt; QuantityInformation     ShipmentLineItem "0..n" --&gt; RequestingOrderLineItemReference     ShipmentLineItem "0..n" --&gt; ShippingContainer     ShipmentLineItem "0..1" --&gt; TaxExemptStatus     ShipmentLineItem "0..1" --&gt; TextualDescription     ShipmentLineItem --&gt; UnitOfMeasure   </pre>

Table 4.1: Interchange Changes

#	Description of Changes
3	<p><b>New PIP Package Version: V11.10.00</b></p> <pre> graph LR     subgraph ShipmentLineItem [ShipmentLineItem]         CVM[customsValuationMethod[0..1] : string]         LN[lineNumber : string]         PCP[previousCustoms Procedure[0..n] : string]     end      BDR[BusinessDocumentReference (from Document)]     CPI[CustomsPermittedInformation (from Logistics)]     EL[ExportLicense (from Logistics)]     FV[FreightValuation (from Logistics)]     HB[Handbook (from Logistics)]     HTSI[HarmonizedTariffScheduleInformation (from Logistics)]     HMD[HazardousMaterialDescription (from Logistics)]     IHM[&lt;&lt;dataType&gt;&gt; IsHazardousMaterial (from Logistics)]     PI[PricingInformation]     PIDI[ProductIdentificationInformation]     QI[QuantityInformation (from Shared)]     ROLIR[RequestingOrderLineItemReference (from Procurement)]     SC[ShippingContainer]     TES[TaxExemptStatus (from Procurement)]     TS[TaxSummary (from Procurement)]     TD[TextualDescription (from ProductIdentification)]     UOM[&lt;&lt;codeList&gt;&gt; UnitOfMeasure (from RN_UnitOfMeasure)]      CVM --&gt; BDR     LN --&gt; CPI     PCP --&gt; EL     PCP --&gt; FV     PCP --&gt; HB     PCP --&gt; HTSI     PCP --&gt; HMD     PCP --&gt; IHM     PCP --&gt; PI     PCP --&gt; PIDI     PCP --&gt; QI     PCP --&gt; ROLIR     PCP --&gt; SC     PCP --&gt; TES     PCP --&gt; TS     PCP --&gt; TD     PCP --&gt; UOM </pre> <p>ShipmentLineItem</p> <ul style="list-style-type: none"> <li>customsValuationMethod[0..1] : string</li> <li>lineNumber : string</li> <li>previousCustoms Procedure[0..n] : string</li> </ul> <p>BusinessDocumentReference (from Document) 0..n</p> <p>CustomsPermittedInformation (from Logistics) 0..n</p> <p>ExportLicense (from Logistics) 0..1</p> <p>FreightValuation (from Logistics) 0..1</p> <p>Handbook (from Logistics) 0..n</p> <p>HarmonizedTariffScheduleInformation (from Logistics) 0..n</p> <p>HazardousMaterialDescription (from Logistics) 0..n</p> <p>&lt;&lt;dataType&gt;&gt; IsHazardousMaterial (from Logistics) 0..1</p> <p>PricingInformation 0..1</p> <p>ProductIdentificationInformation</p> <p>QuantityInformation (from Shared)</p> <p>RequestingOrderLineItemReference (from Procurement) 0..n</p> <p>ShippingContainer 0..n</p> <p>TaxExemptStatus (from Procurement) 0..1</p> <p>TaxSummary (from Procurement) 0..1</p> <p>TextualDescription (from ProductIdentification) 0..1</p> <p>UnitOfMeasure (from RN_UnitOfMeasure) 0..1</p>

Table 4.1: Interchange Changes

#	Description of Changes
4	<p><b>CLASS:</b> Interchange::ShippingDocumentationNotification::HeaderInformation</p> <p><b>ACTION:</b> Modify</p> <p><b>CHANGE(s):</b></p> <p>(1) Changed cardinality of association to Interchange::ShippingDocumentNotification::HeaderInformation from 1 to 0..1.</p> <p><b>BUSINESS REQUIREMENT(s):</b></p> <p>Declarant/Customs Broker is not able to provide ShippingOrderInformation on export/import declaration. It is not necessary to specify the ShippingOrderInformation on import/export declaration. ShippingOrderInformation is not a mandatory fields for import/export declaration.</p> <p><b>Previous PIP Package Version: V11.01.00</b></p> <pre> classDiagram     class HeaderInformation     class BillOfLading["BillOfLading (from Logistics)"]     class BusinessDocumentReference["BusinessDocumentReference (from Document)"]     class ShippingOrderInformation      HeaderInformation "0..1" --&gt; BillOfLading     HeaderInformation "0..1" --&gt; BusinessDocumentReference : +CommercialInvoice     HeaderInformation "0..1" --&gt; BusinessDocumentReference : +PackingList     HeaderInformation "0..n" --&gt; BusinessDocumentReference : +shippingDocument     HeaderInformation "0..1" --&gt; ShippingOrderInformation </pre> <p><b>New PIP Package Version: V11.10.00</b></p> <pre> classDiagram     class HeaderInformation     class BillOfLading["BillOfLading (from Logistics)"]     class BusinessDocumentReference["BusinessDocumentReference (from Document)"]     class ShippingOrderInformation      HeaderInformation "0..1" --&gt; BillOfLading     HeaderInformation "0..1" --&gt; BusinessDocumentReference : +commercial Invoice     HeaderInformation "0..1" --&gt; BusinessDocumentReference : +packingList     HeaderInformation "0..n" --&gt; BusinessDocumentReference : +shippingDocument     HeaderInformation "0..1" --&gt; ShippingOrderInformation </pre>

Table 4.1: Interchange Changes

#	Description of Changes
5	V11.05.00 Updated domain structures to current versions.

Table 4.2: Interchange Code List Changes

#	Description of Changes
	<b>-NIL-</b>

## 4 Changes to Domain Objects

Table 5.1: Domain Class Changes

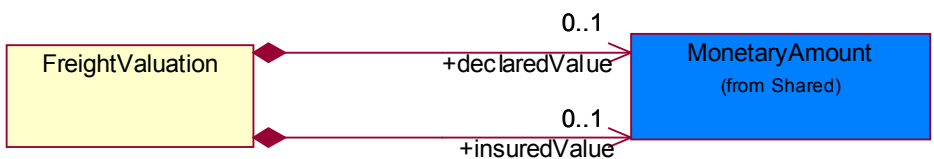
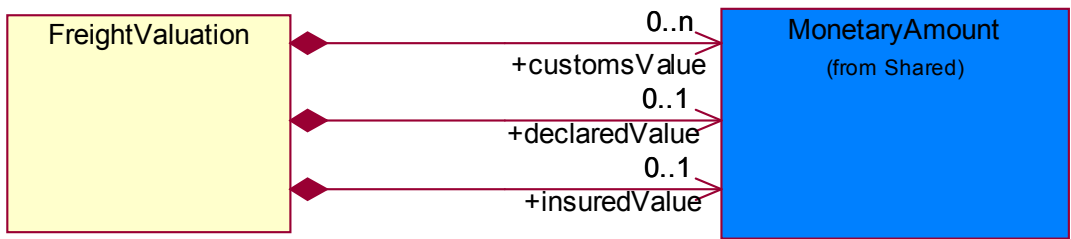
#	Description of Changes
1	<p><b>CLASS:</b> Logistics::FreightValuation</p> <p><b>ACTION:</b> Modify</p> <p><b>CHANGE(s):</b></p> <p>(1) Added an association to Shared::MonetaryAmount with rolename: customsValue, cardinality: 0..n.</p> <p><b>BUSINESS REQUIREMENT(s):</b></p> <p>There's no element to specify the customs valuation information of import/export declaration. This information is used for the purpose of tax calculation and customs value management. CustomsValue amount will be added/deducted to/from total invoice value of the whole declaration for customs valuation purpose.</p> <p><b>Previous PIP Package Version: V11.01.00</b></p>  <pre> classDiagram     class FreightValuation     class MonetaryAmount["MonetaryAmount (from Shared)"]     FreightValuation --&gt; "0..1" MonetaryAmount : +declaredValue     FreightValuation --&gt; "0..1" MonetaryAmount : +insuredValue     </pre> <p><b>New PIP Package Version: V11.10.00</b></p>  <pre> classDiagram     class FreightValuation     class MonetaryAmount["MonetaryAmount (from Shared)"]     FreightValuation --&gt; "0..n" MonetaryAmount : +customsValue     FreightValuation --&gt; "0..1" MonetaryAmount : +declaredValue     FreightValuation --&gt; "0..1" MonetaryAmount : +insuredValue     </pre>

Table 5.2: Domain Code List Changes

#	Description of Changes
1	<p><b>CODE LIST:</b> Logistics:Incoterms:xsd:codelist:01.03</p> <p><b>ACTION:</b> Modify</p> <p><b>CHANGE(s):</b></p> <p>(1) Add new code list entity instances:</p> <ul style="list-style-type: none"><li>- DAP: Delivery At Place</li><li>- DAT: Delivery At Terminal</li></ul> <p><b>BUSINESS REQUIREMENT(s):</b></p> <p>To standardize the usage of the latest code list.</p> <p><b>Previous PIP Package Version:</b> V11.10.00</p> <p><b>New PIP Package Version:</b> V11.11.00</p>

## 5 Changes to Universal Structure

Table 6.1: Universal Class Changes

#	Description of Changes
	<b>-NIL-</b>

Table 6.2: Universal Code List Changes

#	Description of Changes
1	<p><b>CODE LIST:</b> Universal::CodeList::RN_ProcessRoleIdentifier::ProcessRoleIdentifier</p> <p><b>ACTION:</b> Modify</p> <p><b>CHANGE(s):</b></p> <ul style="list-style-type: none"> <li>(1) Add new code list entity instances: <ul style="list-style-type: none"> <li>- DLR: DeclaredBy - This object represents the party that declare the shipment.</li> <li>- AUT: AuthorizedBy - The party who has authorized a request.</li> </ul> </li> </ul> <p><b>BUSINESS REQUIREMENT(s):</b></p> <p>To standardize the usage of the latest code list. This information is used to specify the party that declares the incoming/outgoing shipment. Upon received import/export declaration (PIP3B18) from declarant/customs broker, customs will verify then reject/approve the declaration by sending PIP3B3 back to declarant/customs broker.</p> <p><b>Previous PIP Package Version:</b> V11.01.00</p> <p><b>New PIP Package Version:</b> V11.10.00</p>



Table 6.2: Universal Code List Changes

#	Description of Changes
2	<p><b>CODE LIST:</b> Universal::CodeList::RN_DocumentType::DocumentType</p> <p><b>ACTION:</b> Modify</p> <p><b>CHANGE(s):</b></p> <p>(1) Add new code list entity instances:</p> <ul style="list-style-type: none"><li>- CAR: Certificate of Analysis Response.</li><li>- COA: Certificate of Analysis.</li><li>- IDD: Import Declaration Document.</li><li>- EDD: Export Declaration Document.</li><li>- REN: Release Number.</li></ul> <p><b>BUSINESS REQUIREMENT(s):</b></p> <p>To standardize the usage of the latest code list. This information is used to specify the type of customs declaration form. Upon received import/export declaration (PIP3B18) from declarant/customs broker, customs will verify then reject/approve the declaration by sending PIP3B3 back to declarant/customs broker.</p> <p>Previous PIP Package Version: V11.01.00</p> <p>New PIP Package Version: V11.10.00</p>

Table 6.2: Universal Code List Changes

#	Description of Changes
3	<p><b>CODE LIST:</b> Universal::CodeList::RN_UnitOfMeasure::UnitOfMeasure</p> <p><b>ACTION:</b> Modify</p> <p><b>CHANGE(s):</b></p> <p>(1) Add new code list entity instances:</p> <ul style="list-style-type: none"> <li>- 1M2: 1/Square Meter (1/M2).</li> <li>- 1PM: 1/minute (1/min).</li> <li>- 22S: Square Millimeter/Second (mm2/s).</li> <li>- 3MH: Cubic Millimeters/Hour (mm3/hour).</li> <li>- ABC: Absorbance per centimeter (Absorbance per cm).</li> <li>- ABU: Absorbance per Unit (absorbance per unit).</li> <li>- ACC: Atoms per Cubic Centimeters (atoms per cu cm).</li> <li>- ACS: Acidic strength/concentration.</li> <li>- ACU: Activity unit (Activ.unit).</li> <li>- AM1: Ampoule.</li> <li>- AMN: Ångstroms/Minute (Ångst/min).</li> <li>- ANG: Angstrom (A).</li> <li>- APB: Atomic Parts per Billion (atomic ppb).</li> <li>- APG: API Specific Gravity (API Grav).</li> <li>- APM: Atomic Parts per Million (atomic ppm).</li> <li>- APT: Atomic Parts per Trillion (atomic ppt).</li> <li>- APU: APHA Units (apha).</li> <li>- ASC: Atoms per Square Centimeters (atoms per sq cm).</li> <li>- ASY: Assembly (ASY).</li> <li>- ATG: Atmospheric gauge.</li> <li>- ATM: Atmosphere absolute.</li> <li>- ATP: Atomic %.</li> <li>- ATY: Activity.</li> <li>- BHP: Brake HP.</li> <li>- BLN: Balance.</li> <li>- BRB: Bar absolute.</li> <li>- BUB: Bubbler.</li> <li>- COW: Counts per Wafer (Counts/wf).</li> <li>- C3M: Cubic centimeter per minute (cm3/minute).</li> <li>- CC2: Centipoises per hour per square centimeters (cps per hr per sq cm).</li> <li>- CCC: Counts per Square Centimeters (Counts/cm2).</li> <li>- CD3: Cubic decimeter (Cubic dec).</li> <li>- CM2: Square centimeter (cm2).</li> <li>- CMH: Centimeter/hour (cm/h).</li> <li>- CML: Colony/Milliliter (col/ml).</li> <li>- CMS: Centimeter/Second (cm/s).</li> <li>- CST: Centistokes.</li> <li>- DAL: Dalton units (dalton).</li> <li>- DCM: Defects per Square Centimeters (Defects/cm2).</li> <li>- DE1: Defects.</li> <li>- DE2: Degrees in Angles.</li> </ul>

Table 6.2: Universal Code List Changes

#	Description of Changes
	<ul style="list-style-type: none"> <li>- DE3: Degree.</li> <li>- DFW: Defects per Wafer (Defects/Wafer).</li> <li>- DNC: Dynes per centimeter (Dynes per cm).</li> <li>- DPM: Parts per Million per Day (ppm per day).</li> <li>- EML: Enzyme Units/Milliliter (Enzyme/ml).</li> <li>- ENU: Enzyme Units (Enzy.Units).</li> <li>- EQ2: Milliequivalent per 30 Kg (mequ/30Kg).</li> <li>- EQG: Milliequivalent per gram (milliequivalent per g).</li> <li>- EQK: Milliequivalent per Kilogram (mequ/Kg).</li> <li>- EQM: Milliequivalent per Millimeter (milliequivalent per mm).</li> <li>- FIN: 1/32 inch.</li> <li>- FPS: Feet per second (Feet/s).</li> <li>- FRH: Sales FT3 at 60Â°F per hour (FTR/hour).</li> <li>- FRM: Sales FT3 at 60Â°F per minute (FTR/min).</li> <li>- FTR: Sales FT3 at 60Â°F, 14.7 psia (SFT3_60F_S).</li> <li>- FTS: Sales FT3 at 70Â°F, 14.7 psia (SFT3_70F_S).</li> <li>- FTT: 1000 FT3 at 60Â°F, 14.7 psia (KFT3_60F_S).</li> <li>- FTU: 1000 FT3 at 70Â°F, 14.7 psia (KFT3_70F_S).</li> <li>- G2S: Gram square per second (gÂ²/s).</li> <li>- GAI: Gram act. ingr. (g act.ing).</li> <li>- GAU: Gram Gold.</li> <li>- GCL: Gardner Color.</li> <li>- GEG: Keim/Gramm (keim/g).</li> <li>- GEQ: Gram per Equivalent (g/Eq).</li> <li>- GGM: Gram per gram mole (g/gmole).</li> <li>- GHG: Gram per Hectogram (g/hg).</li> <li>- GM4: Gram per 100 Milliliters (g/100ml).</li> <li>- GME: Gram per Mole Equivalent (g/mole Eq).</li> <li>- GMO: Gram per Mol (g/mol).</li> <li>- GNL: Gram act.Ingrd per Liter (gai/liter).</li> <li>- GOH: Gigaohm (GOhm).</li> <li>- GPN: US Gallon per minute (gpm US).</li> <li>- HGM: Hegman.</li> <li>- HZM: Hertz per Minute (Hertz per min).</li> <li>- IH2: Inches of Water Gauge (inH2O-g).</li> <li>- IHG: Inches of Mercury Gauge (inHg-g).</li> <li>- ILB: Inch pounds (in.lb).</li> <li>- IPS: Inch per second (inch / sec).</li> <li>- JKG: Joule/Kilogram (J/kg).</li> <li>- JMO: Joule/Mol (J/mol).</li> <li>- KAI: Kilogram act. Ingrd. (kg ac.ing.).</li> <li>- KAK: kg act.ingrd. / kg (kai/kg).</li> <li>- KCM: Kilogram per cm2 gauge (kg/cm2-g).</li> <li>- KD3: Kilogram per Cubic Decimeter (kg/dm3).</li> <li>- KGE: Container Fill Weight in Kg/Ea.</li> <li>- KGH: Kilogram per Hour (kg/h).</li> <li>- KGL: Kilograms per Liter (kg/L).</li> <li>- KGM: Kilogram/Mol (kg/mol).</li> </ul>

Table 6.2: Universal Code List Changes

#	Description of Changes
	<ul style="list-style-type: none"> <li>- KGS: Kilogram per Second (kg/s).</li> <li>- KJK: Kilojoule per kilogram (KJ/kg).</li> <li>- KJM: Kilojoule/Mol (KJ/mol).</li> <li>- KMK: Cubic meter/Cubic meter (m3/m3).</li> <li>- KMN: Kelvin per Minute (K/min).</li> <li>- KMS: Kelvin per Second (K/s).</li> <li>- KNM: Kilonewton per square meter (kN/m2).</li> <li>- KNT: Kilonewton (ND).</li> <li>- KPA: Kilopascal (kPa).</li> <li>- KRU: Kreb Unit.</li> <li>- KTN: Kilotonne (kt).</li> <li>- KVA: Kilovoltampere (kVA).</li> <li>- KWR: Kilovolt ampere reactive hours (KVAH reac.).</li> <li>- LBH: US Pound per Hour (lb/hour).</li> <li>- LBM: US Pound per minute (lb/min).</li> <li>- LG2: Liter per Gram per Centimeter (l/g/cm).</li> <li>- LGC: Liters per Gram-Centimeters (l/g-cm).</li> <li>- LHK: Liter per 100 km (l/100 km).</li> <li>- LMI: Liter per Minute (l/min).</li> <li>- LMS: Liter per Molsecond (l/mol.s).</li> <li>- LPD: Light Point Defects per Wafer (LPD/Wafer).</li> <li>- LPH: Liter per hour (l/hr).</li> <li>- M15: Micron per 15 Square Millimeters (mu per 15 sq mm).</li> <li>- M20: Micron per 20 Square Millimeters (mu per 20 sq mm).</li> <li>- M25: Micron per 25 Square Millimeters (mu per 25 sq mm).</li> <li>- M26: Micron per 26 by 8 Millimeters (mu per 26 by 8 mm).</li> <li>- M2G: Meters square per gram (m sq per gram).</li> <li>- M3A: Sales m3 at 15 °C, 1 atmos (Sm3_15C_S).</li> <li>- M3B: Sales m3 at 21 °C, 1 atmos (Sm3_21C_S).</li> <li>- M3C: Sales m3 at 10 °C, 1 atmos (Sm3_10C_S).</li> <li>- M3D: Sales m3 at 43 °C, 1 bar (Sm3_43C_D).</li> <li>- M3E: Sales m3 at 9 °C, 1 bar (Sm3_9C_D).</li> <li>- M3F: Sales m3 at 15 °C, 1 bar (Sm3_15C_D).</li> <li>- M3G: Sales m3 at 27 °C, 1 atmos (Sm3_27C_S).</li> <li>- M3H: Cubic Meter per Hour (m3/h).</li> <li>- M3J: Sales m3 at 35 °C, 1 atmos (Sm3_35C_S).</li> <li>- M3K: Cubic Meter/Kilogram (m3/Kg).</li> <li>- M3M: Milliliter per Cubic Meter (ml/m3).</li> <li>- M3N: Mol per Cubic Meter (Mol/m3).</li> <li>- MBZ: Meterbar per Second (m.bar/s).</li> <li>- MC2: Millisecond per Centimeter (mS/cm).</li> <li>- MCA: Microampere (µA).</li> <li>- MCH: Micromhos (µmhos).</li> <li>- MCK: Microcuries per Kilogram (µci/kg).</li> <li>- MCL: Microcuries per Gaseous Liter (µc/l).</li> <li>- MCN: Metal Can.</li> <li>- MCP: Manifolded Cylinder Pack.</li> <li>- MEJ: Megajoule (MJ).</li> <li>- MEJ: Megajoule (MJ).</li> </ul>

Table 6.2: Universal Code List Changes

#	Description of Changes
	<ul style="list-style-type: none"> <li>- MEJ: Megajoule (MJ).</li> <li>- MFD: Microfarad (<math>\mu</math>F).</li> <li>- MGA: Milligram per Amp (mg per amp).</li> <li>- MGF: Milligram per Square Centimeter (mg/cm<sup>2</sup>).</li> <li>- MGG: Milligram per Gram (mg/g).</li> <li>- MGL: Microgram per Liter (<math>\mu</math>g/l).</li> <li>- MGO: Megohm (M<math>\Omega</math>).</li> <li>- MGR: Micrograms per Gram (<math>\mu</math>g/g).</li> <li>- MGS: Milligram per Second (mg per sec).</li> <li>- MH1: Millimeter per Hour (mm/h).</li> <li>- MHC: Micromhos per Centimeter (<math>\mu</math>mhos/cm).</li> <li>- MHR: Meter per Hour (m/h).</li> <li>- MHV: Megavolt.</li> <li>- MJM: Wobbe Number (MJ/m<sup>3</sup>).</li> <li>- MKG: Milligrams of KOH per Gram (mg KOH per g).</li> <li>- MKL: Millimol per Gram (mmol/g).</li> <li>- ML1: Milliliter per Liter (ml/l).</li> <li>- ML2: Milliliter per Liter (ml/l).</li> <li>- ML3: Mol per Liter (Mol/Liter).</li> <li>- ML4: Millimol per Liter (Millimol/l).</li> <li>- MLG: Milliliter per Gallon (ml per gal).</li> <li>- MLM: Mole per Mole (mole/mole).</li> <li>- MLP: Mole Percent (% mole).</li> <li>- MLR: Microliter (<math>\mu</math>l).</li> <li>- MLW: Milliliter act. Ingr. (ml act.in.).</li> <li>- MM3: Cubic Millimeter (mm<sup>3</sup>).</li> <li>- MMA: Millimeter per Year (mm/a).</li> <li>- MMG: Millimol/gram (mmol/g).</li> <li>- MMM: 0.000001 meter (1 millionth of a meter). (Micrometer/Micron).</li> <li>- MMN: Meter per Minute (m/min).</li> <li>- MMS: Millimeter per Second (mm/s).</li> <li>- MNM: Millinewton per meter (mN/m).</li> <li>- MNT: Meganewton (MN).</li> <li>- MPB: Mass parts per billion (ppb(m)).</li> <li>- MPG: Miles per Gallon (US) (Mi/Gal(US)).</li> <li>- MPM: Mass Parts per Million (ppm(m)).</li> <li>- MPT: Mass Parts per Trillion (ppt(m)).</li> <li>- MPZ: Meterpascal per Second (m.Pa/s).</li> <li>- MQG: Mircoequivalent per Gram (microeq/g).</li> <li>- MRF: Millifarad (mF).</li> <li>- MS1: MilliSiemen per Centimeter (mS/cm).</li> <li>- MS2: Meter per Second Squared (m/s<sup>2</sup>).</li> <li>- MS3: Microsiemens per Centimeter (<math>\mu</math>S/cm).</li> <li>- MTR: Meter (m).</li> <li>- MVA: Megavoltampere (MVA).</li> <li>- MWH: Megawatt Hours (mwh).</li> <li>- MWR: Megavolt Ampere Reactive Hours (MVAH reac.).</li> <li>- MWT: Molecular Weight (mW).</li> <li>- MYS: Micro Siemens (mic. Siem.).</li> </ul>

Table 6.2: Universal Code List Changes

#	Description of Changes
	<ul style="list-style-type: none"> <li>- MWR: Megavolt Ampere Reactive Hours (MVAH reac.).</li> <li>- MWT: Molecular Weight (mW).</li> <li>- MYS: Micro Siemens (mic. Siem.).</li> <li>- N2M: Newton/Square millimeter (N/mm<sup>2</sup>).</li> <li>- NM2: Newton per Square Meter (N/m<sup>2</sup>).</li> <li>- NM3: Normal m3 at 0°C, 1 atmos (Normal m3).</li> <li>- NMH: Newton per Hour (N/h).</li> <li>- NMM: Newton per Millimeter (N/mm).</li> <li>- NMR: Normal m3 per Hour (Nm3/h).</li> <li>- NOL: Normality.</li> <li>- NPK: Nowpac Container (Nowpac).</li> <li>- NRG: Bar Gauge.</li> <li>- NRU: Nanofarad (nF).</li> <li>- NTU: Nephelometric Turbidity Units (NTU).</li> <li>- NTY: Equivalents per Liter (equ/l).</li> <li>- NUM: Numbers.</li> <li>- NWM: Newton per Meter (N/m).</li> <li>- NXM: Newton per 25 mm (N/25mm).</li> <li>- O2P: Percent Oxygen (% Oxygen).</li> <li>- OHC: Ohm-Centimeter (ohm cm).</li> <li>- OPH: Operating hour (Oper. Hour).</li> <li>- OZG: Ounce per Gallon (oz per gal).</li> <li>- PBA: PPBA Silicon (ppba Si).</li> <li>- PBW: Parts Per Billion by Weight (ppbw).</li> <li>- PC2: Parts per Square Centimeters (part per sq cm).</li> <li>- PCA: Percent Active (% Active).</li> <li>- PCL: Picocuries per Liter (pCi/l).</li> <li>- PF3: Per Cubic Foot (per cu ft).</li> <li>- PF4: Particles per Cubic Feet (particles per cu ft).</li> <li>- PFA: Percent Failed Area (Failed Area %).</li> <li>- PH: PH Factor (pH).</li> <li>- PI2: Parts per Square Inch (part per sq in).</li> <li>- PL1: Parts per Liter (parts per l).</li> <li>- PL2: Parts per Milliliter (parts per ml).</li> <li>- PL3: Part per Millilitre (Part/ml).</li> <li>- PLI: Pounds per Linear Inch (lb/Lin. In).</li> <li>- PLR: Per Liter.</li> <li>- PMA: Percent Mass (%(m)).</li> <li>- PMI: Per Mille (%0).</li> <li>- PML: Particles per Milliliter (particles/mL).</li> <li>- PMO: Per Mille mass (%0(mass)).</li> <li>- PMP: Parts Per Million Platinum (ppm Pt).</li> <li>- PMV: Parts Per Million (weight/Vol) (ppm (w/v)).</li> <li>- PMW: Parts Per Million by Weight (ppmw).</li> <li>- PNJ: Particles per Injection (particles per inj).</li> <li>- PNT: Points.</li> <li>- POR: Pores.</li> <li>- PP3: Parts per Million mole (ppm mole).</li> <li>- PP4: Parts per Billion Mole (ppb mole).</li> </ul>

Table 6.2: Universal Code List Changes

#	Description of Changes
	<ul style="list-style-type: none"> <li>- PPF: Parts per Ft3 (Parts/Ft3).</li> <li>- PPH: Parts Per Hundred (pph).</li> <li>- PPT: Parts per Trillion (ppt).</li> <li>- PRS: Number of Persons.</li> <li>- PSA: Pounds per Square Inch Absolute.</li> <li>- PSG: Pound per Square Inch Gauge (psi gauge).</li> <li>- PSI: PSI Unit (PSI).</li> <li>- PSV: Poise.</li> <li>- PTL: Particles per Liter (Part/Liter).</li> <li>- PWF: Particles per Wafer (particles/wf).</li> <li>- QML: Kilomol (kmol).</li> <li>- RLU: Relative Light Unit (RLU).</li> <li>- RPM: Revolutions per Minute (Revs/min).</li> <li>- SCL: Scales.</li> <li>- SIE: Siemens per Meter (Siemens/m).</li> <li>- STP: Steps.</li> <li>- STU: Stabilizer Units (SU).</li> <li>- SVU: Say Bolt Viscosity Units (SVU).</li> <li>- TAR: Target pieces (target).</li> <li>- TM3: 1/Cubic Meter (1/m3).</li> <li>- TOM: Ton per Cubic Meter (t/m3).</li> <li>- TPT: Pass Test (Pass).</li> <li>- VAL: VO mat. (Value).</li> <li>- VAP: Voltampere (VA).</li> <li>- VHN: Vickers Micro-Hardness (VHN10).</li> <li>- VMP: Molar %.</li> <li>- VPB: Volume Parts per Billion (ppb(V)).</li> <li>- VPC: Percent Volume (%(V)).</li> <li>- VPM: Volume Parts per Million (ppm(V)).</li> <li>- VPR: Per Mille Volume (%O(V)).</li> <li>- VPT: Volume parts per Trillion (ppt(V)).</li> <li>- WPT: Parts Per Trillion by Weight (pptw).</li> </ul> <p><b>BUSINESS REQUIREMENT(s):</b></p> <p>To standardize the usage of the latest code list.</p> <p>Previous PIP Package Version: V11.01.00</p> <p>New PIP Package Version: V11.10.00</p>

Table 6.2: Universal Code List Changes

#	Description of Changes
4	<p><b>CODE LIST:</b> Universal::CodeList::RN_WeightType::WeightType</p> <p><b>ACTION:</b> Modify</p> <p><b>CHANGE(s):</b></p> <p>(1) Add new code list entity instances:</p> <ul style="list-style-type: none"><li>- EXA: Exact Net.</li><li>- NOM: Nominal Net.</li><li>- TAR: Tare.</li></ul> <p><b>BUSINESS REQUIREMENT(s):</b></p> <p>To standardize the usage of the latest code list.</p> <p>Previous PIP Package Version: V11.01.00</p> <p>New PIP Package Version: V11.10.00</p>



## 6 Changes to System Structure

Table 7.1: System Class Changes

#	Description of Changes
	<b>-NIL-</b>

Table 7.2: System Code List Changes

#	Description of Changes
	<b>-NIL-</b>