Release Notes
for PIP® 3B2

Validated 11.04.00

Specification Information	
Name	Notify Of Advance Shipment
Cluster	Order Management
Segment	Transportation And Distribution
Publication Date	09 March 2015
Version Identifier	V11.04

Table of Contents

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 3B2 Message
- Message Structure
- XML instance of ebBPSS for PIP 3B2

1.5 Purpose

This document describes the issues and resolutions pertaining to PIP 3B2 V11.00.00 and the changes that were made to develop PIP 3B2 V11.04.00.

1.6 Scope

This document contains information describing changes to PIP 3B2 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

Version	Date	Description
Validated 11.01.00	25 Jul 2008	Certificate of Analysis (CofA) Milestone Program
Validated 11.02.00	28 Oct 2009	Certificate of Analysis (CofA) Milestone Program
Validated 11.03.00	30 May 2012	Maintenance Q2 2012
Validated 11.04.00	09 March 2015	Maintenance Q1 2015

2 Changes to "Description of Partner Interface Process" Document

#	Description of Changes
	-NIL-

Table 3.1: "Description of Partner Interface Process" Document Changes

3 Changes to Interchange Objects

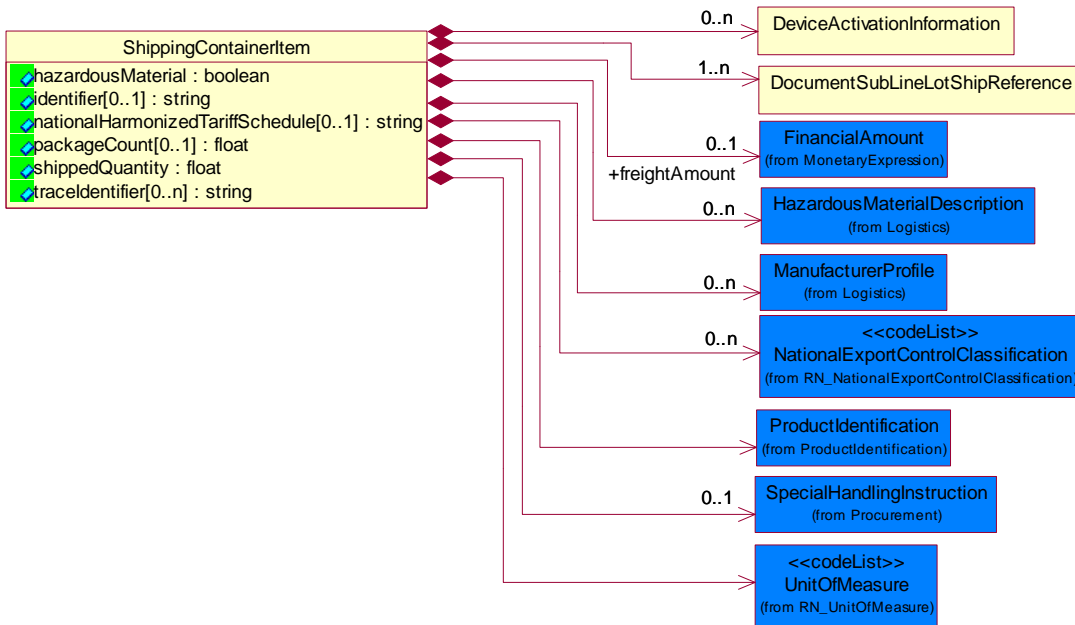| Table 4.1: Interchange Changes	
#	**Description of Changes**
1	**CLASS**: ShippingContainerItem **ACTION**: Modify **CHANGE(s)**: (1) Added new class BusinessDocumentReference (cardinality: 0..n) **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous PIP Package Version:** V11.00.00

Table 4.1: Interchange Changes

#	Description of Changes
	New PIP Package Version: V11.01.00

#	Description of Changes
2	V11.02.00 Updated domain structures to current versions.

Table 4.2: Interchange Code List Changes

#	Description of Changes
	-NIL-

4 Changes to Domain Objects

Table 5.1: Domain Class Changes	
#	**Description of Changes**

1	**CLASS**: Logistics::ExportDeclaration
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Added attribute description (Type: string, Cardinality: 0..n)
	    (2) Added attribute identifier (Type: string, Cardinality: 1)
	
	BUSINESS REQUIREMENT(s):
	
	To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	<table><tr><td>ExportDeclaration</td></tr><tr><td>description[0..1] : string
	identifier : string</td></tr></table>
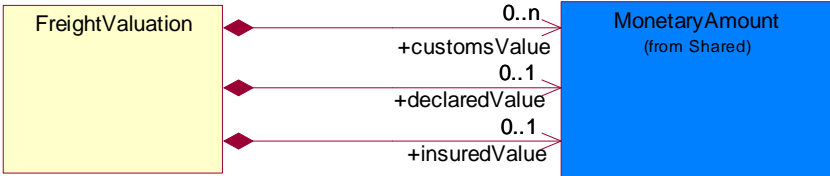
Table 5.1: Domain Class Changes	
#	**Description of Changes**

2	**CLASS**: Logistics::FreightValuation
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Created class FreightValution
	         - Added an association to Shared::MonetaryAmount (Rolename: customsValue, Cardinality: 0..n)
	         - Added an association to Shared::MonetaryAmount (Rolename: declaredValue, Cardinality: 0..n)
	         - Added an association to Shared::MonetaryAmount (Rolename: insuredValue, Cardinality: 0..n)
	
	BUSINESS REQUIREMENT(s):
	
	To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

Table 5.1: Domain Class Changes	
#	**Description of Changes**

3	**CLASS**: Logistics::GeographicRegion
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Created new class Logistics:GeographicRegion
	    (2) Added association to
	        - ISO_Country::Country (Cardinality : 0..n)
	        - Locations::Location (Rolename : regionIdentifier, Cardinality : 0..1)
	
	BUSINESS REQUIREMENT(s):
	
	To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
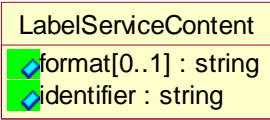
Table 5.1: Domain Class Changes	
#	**Description of Changes**

4	**CLASS**: Logistics:LabelInstruction
	
	ACTION: New
	
	CHANGE(s):
	
	  (1) Created new class Logistics:LabelInstruction
	  (2) Added association to RN_InstructionType(Rolename : type, Cardinality:1)
	
	BUSINESS REQUIREMENT(s):
	
	To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

|
| 5 | **CLASS**: Logistics:: LabelServiceContent

ACTION: New

CHANGE(s):

  (1) Added new attributes :
       - format (Type:String, Cardinality: 0..1)
       - identifier (Type:String, Cardinality: 1)

BUSINESS REQUIREMENT(s):

To standardize the business requirement.

Previous Version: V11.00.00

NIL

New Version: V11.01.00

|

Table 5.1: Domain Class Changes	
#	**Description of Changes**
6	**CLASS**: Logistics::ManufacturerProfile **ACTION**: Modify **CHANGE(s)**: 　　(1) Version bumped up due to the changes in the domains. **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00

Previous Version diagram:

```
+----------------------------+                        +------------------+
|     ManufacturerProfile    |                        |   <<codeList>>   |
+----------------------------+          0..1          |     Country      |
| manufactureDate[0..1] : date |◆----------------->  | (from ISO_Country) |
| productSerialIdentifier[0..n] : string |            +------------------+
+----------------------------+   +countryOfOrigin
```

New Version diagram:

```
+----------------------------+                        +------------------+
|     ManufacturerProfile    |                        |   <<codeList>>   |
+----------------------------+          0..n          |     Country      |
| manufactureDate[0..1] : date |◆----------------->  | (from ISO_Country) |
| productSerialIdentifier[0..n] : string |            +------------------+
+----------------------------+   +countryOfOrigin
```

Table 5.1: Domain Class Changes	
#	**Description of Changes**
7	**CLASS**: Logistics::ProductAttribute **ACTION**: New **CHANGE(s)**: (1) Created class ProductAttribute - Added an association to RN_PackageTypeCode::PackageTypeCode (Cardinality: 0..n) - Added an association to ProductPackaging class (Cardinality: 0..1). - Added an association to Shared::ProductQuality (Rolename: - packagingQuantity and smallestPackagingQuantity, Cardinality: 1) - Added an association to RN_UnitOfMeasure::UnitOfMeasure (Cardinality: 1) **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 NIL **New Version**: V11.01.00
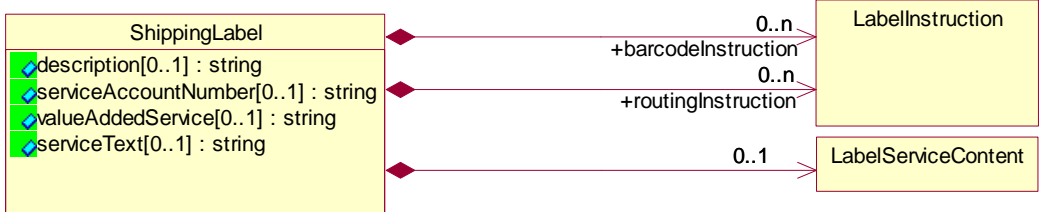
Table 5.1: Domain Class Changes	
#	**Description of Changes**

8	**CLASS**: Logistics::ShippingLabel
	
	ACTION: New
	
	CHANGE(s):
	
	(1) Created new class ShippingLabel
	    - attribute description (Type : String , Cardinality : 0..1)
	    - attribute serviceAccountNumber (Type : String , Cardinality : 0..1)
	    - attribute valueAddedService (Type : String , Cardinality : 0..1)
	    - attribute serviceText (Type : String , Cardinality : 0..1)
	(2) Added association to class ShippingLabel
	    - Added an association to LabelInstruction class(Rolename: barcodeInstruction and routingInstruction, Cardinality: 0..n.)
	    - Added an association to LabelServiceContent class (Cardinality: 0..1)
	
	BUSINESS REQUIREMENT(s):
	
	To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	ShippingLabel
	description[0..1] : string
	serviceAccountNumber[0..1] : string
	valueAddedService[0..1] : string
	serviceText[0..1] : string
	
	0..n +barcodeInstruction → LabelInstruction
	0..n +routingInstruction
	0..1 → LabelServiceContent
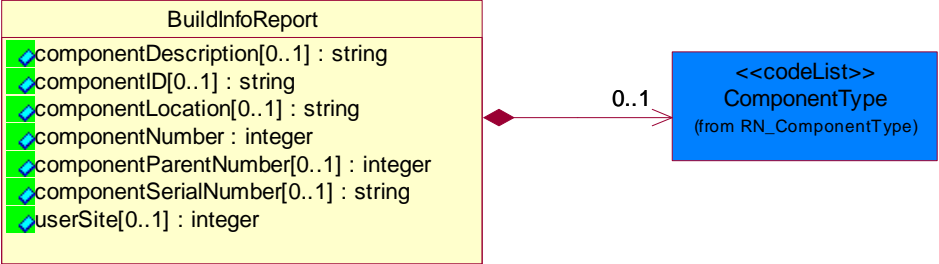
Table 5.1: Domain Class Changes	
#	Description of Changes

9	**CLASS**: Manufacturing::BuildInfoReport
	
	ACTION: New
	
	CHANGE(s):
	    (1) Added new class, Manufacturing::BuildInfoReport:
	    (2) Added new attribute under Manufacturing::BuildInfoReport:
	      - componentDescription (Type: String, Cardinality: 0..1)
	      - componentID (Type: String, Cardinality: 0..1)
	      - componentLocation (Type: String, Cardinality: 0..1)
	      - componentNumber (Type: Integer, Cardinality: 1)
	      - componentParentNumber (Type: Integer, Cardinality: 0..1)
	      - componentSerialNumber (Type: String, Cardinality: 0..1)
	      - userSite (Type: Integer, Cardinality: 0..1)
	    (3) Added association to
	Manufacturing::CodeList::RN_ComponentType::ComponentType (Cardinality: 0..1).
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

Table 5.1: Domain Class Changes	
#	**Description of Changes**
10	**CLASS**: Manufacturing::Environment **ACTION**: New **CHANGE(s)**: (1) Added new attributes into Manufacturing::Environment class. – description (Type: String, Cardinality: 0..1) – type (Type: String, Cardinality: 1) – value (Type: String, Cardinality: 1) **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 NIL **New Version**: V11.01.00 Environment description[0..1] : string type : string value : string

Table 5.1: Domain Class Changes	
#	**Description of Changes**
11	**CLASS**: Manufacturing::FinalPackageReport **ACTION**: New **CHANGE(s)**: 　　(1) Added new class, Manufacturing::FinalPackageReport: 　　(2) Added new attribute under Manufacturing::FinalPackageReport: 　　　　- componentNumber (Type: Integer, Cardinality: 0..1) 　　　　- keyWord (Type: String, Cardinality: 0..1) 　　　　- primaryIdentifier (Type: Integer, Cardinality: 0..1) 　　　　- userSite (Type: Integer, Cardinality: 0..1) 　　　　- value (Type: String, Cardinality: 0..1) **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 NIL **New Version**: V11.01.00 FinalPackageReport componentNumber[0..1] : integer keyword[0..1] : string primaryIdentifier[0..1] : integer userSite[0..1] : integer value[0..1] : string

Table 5.1: Domain Class Changes	
#	**Description of Changes**

12	**CLASS**: Manufacturing::OperationGate
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Added new class Manufacturing::OperationGate
	    (2) Added new attributes under Manufacturing::OperationGate:
	       - operationGateDescription (Type: string, Cardinality: 0..1)
	       - quantityIn (Type: integer, Cardinality: 0..1)
	       - quantityOut (Type: integer, Cardinality: 0..1)
	       - quantityRejected (Type: integer, Cardinality: 0..1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	OperationGate
	◇ operationGateDescription[0..1] : string
	◇ quantityIn[0..1] : integer
	◇ quantityOut[0..1] : integer
	◇ quantityRejected[0..1] : integer
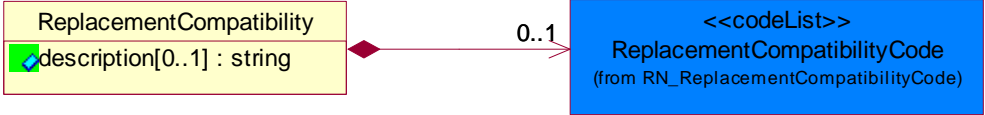
Table 5.1: Domain Class Changes	
#	**Description of Changes**
13	**CLASS**: Manufacturing::ReplacementCompatibility **ACTION**: New **CHANGE(s)**: (1) Create new class Manufacturing:: ReplacementCompatibility with attribute description(Type : String, Cardinality :0..1) (2) Added association to CodeList::RN_ReplacementCompatibilityCode::ReplacementCompatibility Class (Cardinality:0..1) **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 NIL **New Version**: V11.01.00

ReplacementCompatibility
☑description[0..1] : string   ◆————0..1———▷ <<codeList>>
ReplacementCompatibilityCode
(from RN_ReplacementCompatibilityCode)

Table 5.1: Domain Class Changes	
#	**Description of Changes**

14	**CLASS**: Manufacturing::Result
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Create new class Manufacturing::Result with attribute date(Type : dateTime, Cardinality :0..1)
	
	    (2) Added association to
	        - Attachment class (Cardinality: 0..1)
	        - ProductIdentification::TextualDescription (Cardinality: 0..1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

Table 5.1: Domain Class Changes	
#	**Description of Changes**

15	**CLASS**: Manufacturing::SoftwareReport
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Added new class, Manufacturing::SoftwareReport
	    (2) Added new attributea under Manufacturing::SoftwareReport:
	        - buildID (Type :String, Cardinality: 0..1)
	        - name (Type: String, Cardinality: 0..1)
	        - type (Type: String, Cardinality: 0..1)
	        - version (Type: String, Cardinality: 0..1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	SoftwareReport
	buildID[0..1] : string
	name[0..1] : string
	type[0..1] : string
	version[0..1] : string

Table 5.1: Domain Class Changes	
#	**Description of Changes**

16	**CLASS**: Manufacturing::WaferCoordinate
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Created new class Manufacturing:: WaferCoordinate
	    (2) Added new attributes to WaferCoordinate
	         – maxX (Type: Float, Cardinality : 0..1)
	         – maxY (Type: Float, Cardinality : 0..1)
	         – minX (Type: Float, Cardinality : 0..1)
	         – minY (Type: Float, Cardinality : 0..1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	WaferCoordinate
	maxX[0..1] : float
	maxY[0..1] : float
	minX[0..1] : float
	minY[0..1] : float

Table 5.1: Domain Class Changes	
#	**Description of Changes**

17	**CLASS**: Manufacturing:: ChangeDescription
	
	ACTION: Modify
	
	CHANGE(s):
	
	(1) Added new attributes to ChangeDescription class.
	    – category (Type : String, Cardinality : 0..1)
	    – comment (Type : String, Cardinality : 0..1)
	    – impact (Type : String, Cardinality : 0..1)
	    – title (Type : String, Cardinality : 0..1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	New Version: V11.01.00

ChangeDescription

description[0..1] : string

0..1

<<codeList>>
ChangeReason
(from RN_ChangeReason)

ChangeDescription

category[0..1] : string
comment[0..1] : string
description[0..1] : string
impact[0..1] : string
title[0..1] : string

0..1

<<codeList>>
ChangeReason
(from RN_ChangeReason)
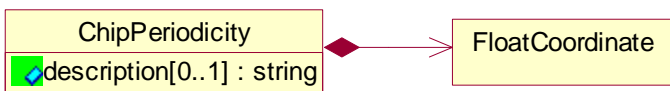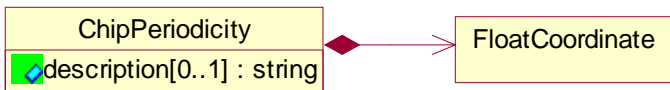
#	Table 5.1: Domain Class Changes
	Description of Changes
18	**CLASS**: Manufacturing::ChipPeriodicity **ACTION**: Modify **CHANGE(s)**: (1) Version bumped up due to the changes in domain structure. **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00

Previous Version diagram:

ChipPeriodicity
description[0..1] : string ——◆——> FloatCoordinate

New Version diagram:

ChipPeriodicity
description[0..1] : string ——◆——> FloatCoordinate

Table 5.1: Domain Class Changes	
#	**Description of Changes**

19	**CLASS**: Manufacturing::ECIDReport
	
	ACTION: Modify
	
	CHANGE(s):
	
	    (1) Added new attribute under Manufacturing::ECIDReport:
	       - ECIDType (Type: String, Cardinality: 0..1)
	       - componentNumber (Type: Integer, Cardinality: 0..1)
	    (2) Added documentation for rolename: rawbits
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	New Version: V11.01.00
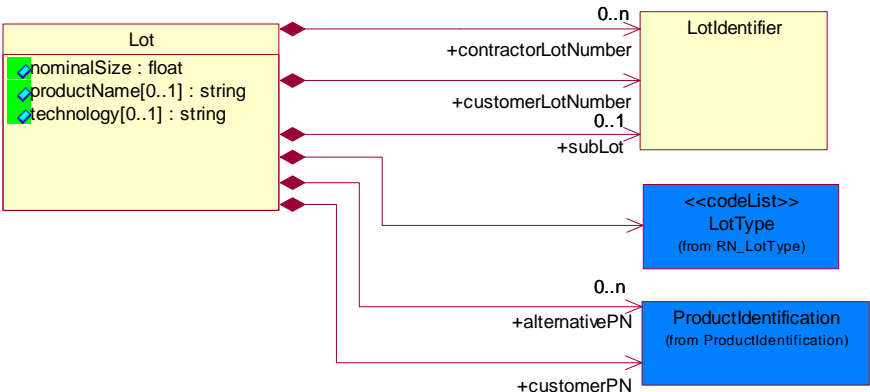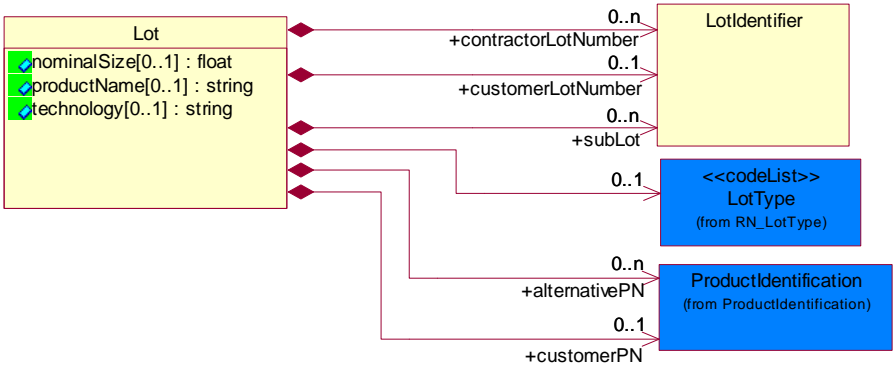
Table 5.1: Domain Class Changes	
#	**Description of Changes**

20	**CLASS**: Manufacturing::Lot
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Changed element nominalSize cardinality from 1..1 to 0..1
	    (2) Changed cardinality of rolename customerLotNumber from 1..1 to 0..1
	    (3) Changed cardinality of rolename subLot from 0..1 to 0..n
	    (4) Changed cardinality of LotType from 1..1 to 0..n
	    (5) Changed cardinality of rolename customerPN from 1..1 to 0..n
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	New Version: V11.01.00
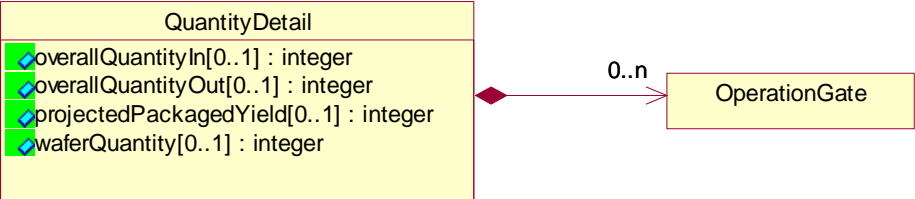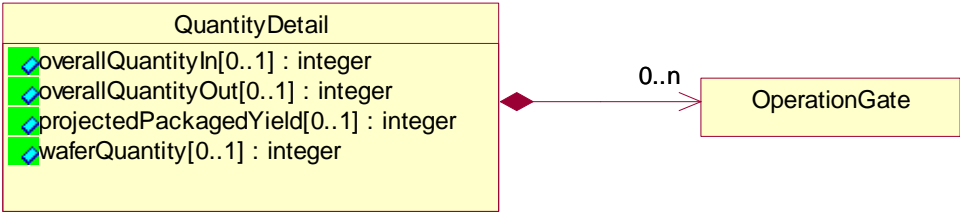
Table 5.1: Domain Class Changes	
#	**Description of Changes**
21	**CLASS**: Manufacturing::QuantityDetail **ACTION**: Modify **CHANGE(s)**: (1) Updated documentation for QuantityDetail. **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00

Previous Version diagram:

QuantityDetail
- overallQuantityIn[0..1] : integer
- overallQuantityOut[0..1] : integer
- projectedPackagedYield[0..1] : integer
- waferQuantity[0..1] : integer

0..n → OperationGate

New Version diagram:

QuantityDetail
- overallQuantityIn[0..1] : integer
- overallQuantityOut[0..1] : integer
- projectedPackagedYield[0..1] : integer
- waferQuantity[0..1] : integer

0..n → OperationGate
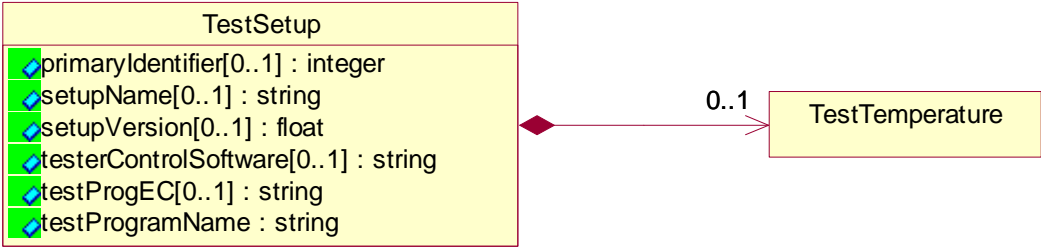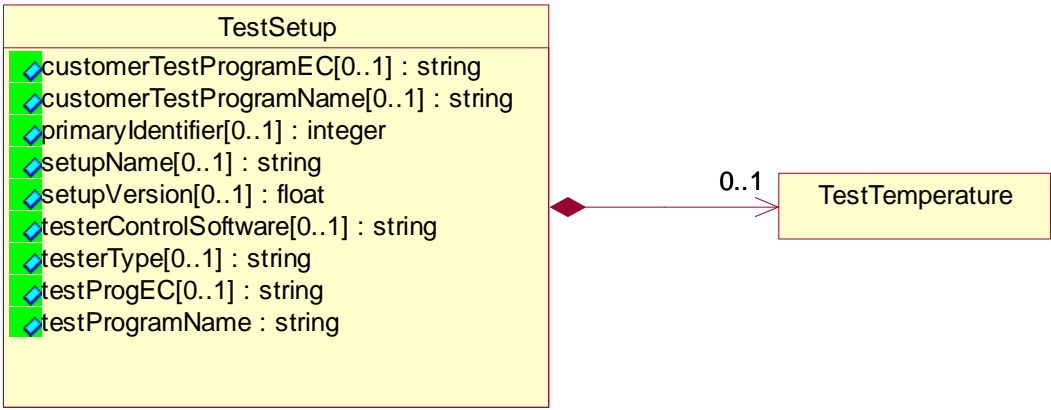
Table 5.1: Domain Class Changes	
#	**Description of Changes**

22	**CLASS**: Manufacturing::TestSetup
	
	ACTION: Modify
	
	CHANGE(s):
	
	    (1) Added new attribute under Manufacturing::TestSetup:
	        - customerTestProgramName (Type: String, Cardinality: 0..1)
	        - customerTestProgramEC (Type: String, Cardinality: 0..1)
	        - testerType (Type: String, Cardinality : 0..1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	TestSetup
	primaryIdentifier[0..1] : integer
	setupName[0..1] : string
	setupVersion[0..1] : float
	testerControlSoftware[0..1] : string
	testProgEC[0..1] : string
	testProgramName : string
	
	0..1 — **TestTemperature**
	
	New Version: V11.01.00
	
	TestSetup
	customerTestProgramEC[0..1] : string
	customerTestProgramName[0..1] : string
	primaryIdentifier[0..1] : integer
	setupName[0..1] : string
	setupVersion[0..1] : float
	testerControlSoftware[0..1] : string
	testerType[0..1] : string
	testProgEC[0..1] : string
	testProgramName : string
	
	0..1 — **TestTemperature**
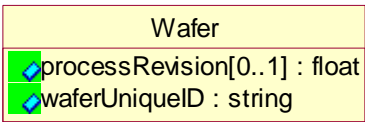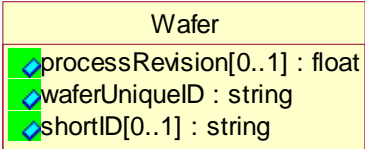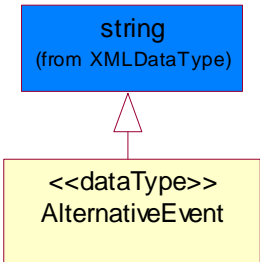
Table 5.1: Domain Class Changes	
#	**Description of Changes**
23	**CLASS**: Manufacturing::Wafer **ACTION**: Modify **CHANGE(s)**: (1) Added 1 new attribute called sortID (Cardinality: 0..1) **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 Wafer processRevision[0..1] : float waferUniqueID : string **New Version**: V11.01.00 Wafer processRevision[0..1] : float waferUniqueID : string shortID[0..1] : string
24	**CLASS**: Procurement::AlternativeEvent **ACTION**: New **CHANGE(s)**: (1) Added generalization association to XMLDataType::string **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 NIL **New Version**: V11.01.00 string (from XMLDataType) <<dataType>> AlternativeEvent

Table 5.1: Domain Class Changes	
#	**Description of Changes**

25	**CLASS**: Procurement::AncillaryDates
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Added new attributes into Procurement::AncillaryDates class.
	        – dateTime (Type: dateTime, Cardinality: 0..1)
	        – dateDescription (Type: String, Cardinality: 0..1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	AncillaryDates
	dateTime[0..1] : dateTime
	dateDescription[0..1] : string

26	**CLASS**: Procurement::AncillaryDocument
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Added new attributes into Procurement::AncillaryDocument class.
	        – name (Type: String, Cardinality: 1)
	        – version (Type: String, Cardinality: 1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	AncillaryDocument
	name : string
	version : string

Table 5.1: Domain Class Changes	
#	**Description of Changes**

27	**CLASS**: Procurement::ChangeIndicator
	
	ACTION: New
	
	CHANGE(s):
	
	(1) Added new attributes into Procurement::ChangeIndicator class.
	    – equipmentOrderChangeIndicator (Type: Boolean, Cardinality: 1)
	    – purchaseOrderValueChangeIndicator(Type: Boolean, Cardinality: 1)
	    – dateChangeIndicator (Type: Boolean, Cardinality: 1)
	    – ancillaryDocumentChangeIndicator (Type: Boolean, Cardinality: 1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	ChangeIndicator
	◇ancillaryDocumentChangeIndicator : boolean
	◇dateChangeIndicator : boolean
	◇equipmentOrderChangeIndicator : boolean
	◇purchaseOrderValueChangeIndicator : boolean

Table 5.1: Domain Class Changes	
#	**Description of Changes**

28	**CLASS**: Procurement::LotIdentification
	
	ACTION: Modify
	
	CHANGE(s):
	
	    (1) Added association to ISO_Country::Coountry (Rolename: countryOfOrigin,
	        Cardinality : 0..n)
	    (2) Changed attribute::Primary cardinality of 1 to 0..1
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	LotIdentification
	primary : string
	secondary[0..1] : string
	lotType[0..1] : string
	
	New Version: V11.01.00
	
	LotIdentification
	lotType[0..1] : string
	primary[0..1] : string
	secondary[0..1] : string 0..n +countryOfOrigin <<codeList>> Country (from ISO_Country)

Table 5.1: Domain Class Changes	
#	**Description of Changes**

29	**CLASS**: Procurement::ChangeIndicator
	
	ACTION: New
	
	CHANGE(s):
	
	(1) Created new class Procurement::ChangeIndicator
	(2) Added new attributes under Procurement::ChangeIndicator
	    - ancillaryDocumentChangeIndicator (Type: Boolean, Cardinality : 1)
	    - dateChangeIndicator (Type: Boolean, Cardinality : 1)
	    - equipmentOrderChangeIndicator (Type: Boolean, Cardinality : 1)
	    - purchaseOrderValueChangeIndicator (Type: Boolean, Cardinality : 1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	ChangeIndicator
	◇ ancillaryDocumentChangeIndicator : boolean
	◇ dateChangeIndicator : boolean
	◇ equipmentOrderChangeIndicator : boolean
	◇ purchaseOrderValueChangeIndicator : boolean
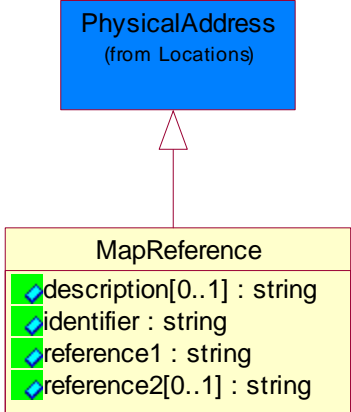
Table 5.1: Domain Class Changes	
#	**Description of Changes**

30	**CLASS**: Procurement::MapReference
	
	ACTION: New
	
	CHANGE(s):
	
	(1) Added new attributes into Procurement::MapReference class.
	    – description (Type: String, Cardinality: 0..1)
	    – identifier (Type: String, Cardinality: 1)
	    – reference1(Type:String, Cardinality: 1)
	    – reference2(Type:String, Cardinality: 0..1)
	(3) Added generalization association to Universal::Locations::PhysicalAddress.
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	PhysicalAddress
	(from Locations)
	
	MapReference
	  description[0..1] : string
	  identifier : string
	  reference1 : string
	  reference2[0..1] : string

	Table 5.1: Domain Class Changes
#	**Description of Changes**

31	**CLASS**: Procurement::MilestoneDate
	
	ACTION: New
	
	CHANGE(s):
	    (1) Added new attributes into Procurement::MilestoneDate class.
	        – eventDate (Type: Date, Cardinality: 1)
	    (2) Added association to Procurement::CodeList:: DateType (Cardinality: 1).
	    (3) Added association to Procurement::MilestoneDateChoice choice structure (Cardinality: 1).
	    (4) For Procurement::MilestoneDateChoice
	        • Added association to Procurement::CodeList::Event (Cardinality: 1).
	        • Added association to PRocurement::AlternativeEvent datatype (Cardinality: 1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

Table 5.1: Domain Class Changes	
#	**Description of Changes**

32	**CLASS**: Procurement::OrderProvision
	
	ACTION: New
	
	CHANGE(s):
	
	    (2) Added new class Procurement::OrderProvision and added new attribute sampleAvailability(Type: Date, Cardinality: 1)
	    (4) Added generalization association to ProductAvailability.
	    (5) Added association
	        - ProductLeadTime with cardinality 0..1
	        - Shared::ProductQuantity with role name orderSizeRounding and cardinality 0..1
	        - ProductQunaityRange with role name orderQuantity and cardinality 0..1
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

Table 5.1: Domain Class Changes	
#	**Description of Changes**

33	**CLASS**: Procurement::OrderQuantity
	
	ACTION: Modify
	
	CHANGE(s):
	
	    (1) Added new attributes.
	          a. remainingQuantity (Type: float, Cardinality: 0..1)
	          b. totalReceivedQuantity (Type: float, Cardinality: 0..1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	<table><tr><td>OrderQuantity</td></tr><tr><td>requestedQuantity : float
	scheduledShipQuantity[0..1] : float</td></tr></table>
	New Version: V11.01.00
	
	<table><tr><td>OrderQuantity</td></tr><tr><td>remainingQuantity[0..1] : float
	requestedQuantity : float
	scheduledShipQuantity[0..1] : float
	totalReceivedQuantity[0..1] : float</td></tr></table>
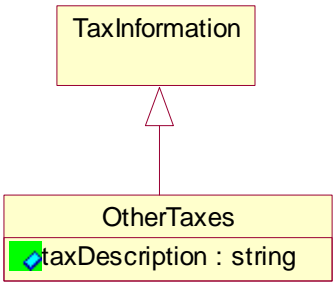
Table 5.1: Domain Class Changes	
#	**Description of Changes**

34	**CLASS**: Procurement::OtherTaxes
	
	ACTION: New
	
	CHANGE(s):
	
	    (5) Added new attributes into Procurement::OtherTaxes class.
	        – taxDescription (Type: String, Cardinality: 1)
	    (6) Added generalization to Procurement::TaxInformation class.
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

Table 5.1: Domain Class Changes	
#	**Description of Changes**
35	**CLASS**: Procurement::PackingSlip **ACTION**: New **CHANGE(s)**: 　　(2) Added new attributes into Procurement::PackingSlip class. 　　　　– packingSlipIdentifier (Type: String, Cardinality: 1) 　　　　– quantity (Type: Integer, Cardinality: 0..1) 　　(3) Added association to Universal::CodeList::UnitOfMeasure class. **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 NIL **New Version**: V11.01.00
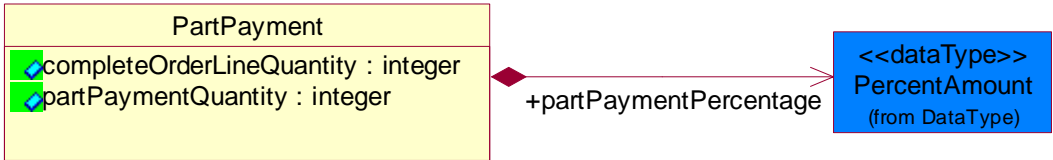
Table 5.1: Domain Class Changes	
#	**Description of Changes**

36	**CLASS**: Procurement::PartPayment
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Added new attributes into Procurement::PartPayment class.
	        – completeQuantity (Type: Integer, Cardinality: 1)
	        – quantity (Type: Integer, Cardinality: 1)
	    (2) Added association to Universal::DataType::PercentAmount (Role Name:
	        partPaymentPercentage, Cardinality: 1).
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

Table 5.1: Domain Class Changes	
#	**Description of Changes**

37	**CLASS**: Procurement::PortalAccess
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Added new attributes into Procurement::PortalAccess class.
	        – authorizationCode (Type: String, Cardinality: 0..n)
	        – url (Type: String, Cardinality: 1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00
	
	PortalAccess
	authorizationCode[0..n] : string
	url : string
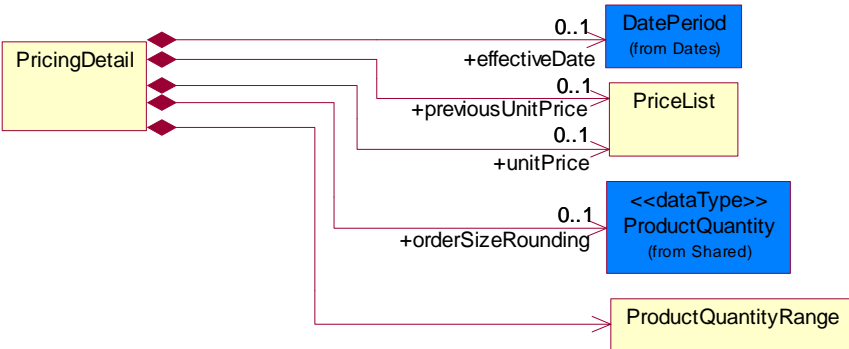
Table 5.1: Domain Class Changes	
#	**Description of Changes**

38	**CLASS**: Procurement::PricingDetail
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Created new class Procurement::PricingDetail
	    (2) Added association to
	        - Dates::DatePeriod class with rolename effectiveDate and cardinality 0..1
	        - PriceList with rolenames
	            i. previousUnitPrice, cardinality 0..1
	            ii. unitPrice, cardinality 0..1
	        - Shared::ProductQuantity with rolename orderSizeRouding and cardinality 0..1
	        - ProductQuantityRange with cardinality 1.
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

Table 5.1: Domain Class Changes	
#	Description of Changes

39	**CLASS**: Procurement::ProductPricing
	
	ACTION: New
	
	CHANGE(s):
	
	    (3) Created new class Procurement::ProductPricing
	    (4) Added association to
	         - Class IsCallFactory (Cardinality: 0..1)
	         - Class IsCostCharge (Cardinality: 1)
	         - Class IsPriceProtect (Cardinality: 1)
	         - Class IsSuggestedResaleChange (Cardinality: 1)
	         - Class PricingDetail (Cardinality: 0..n)
	         - Class RN_PricingTypeCode::PricingTypeCode (Cardinality: 0..n)
	         - Class SubstituteProductReference (Role: associatedProduct, Cardinality: 0..n)
	         - Class RN_UnitOfMeasure::UnitOfMeasure (Cardinality: 0..1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

Table 5.1: Domain Class Changes	
#	**Description of Changes**

40	**CLASS**: Procurement::ResponseStatus
	
	ACTION: New
	
	CHANGE(s):
	
	    (1) Created new class called Procurement::ResponseStatus with attribute reason (Type : String, Cardinality: 0..n)
	    (2) Added association with RN_Response::Response(Role: response, Cardinality : 1)
	
	BUSINESS REQUIREMENT(s): To standardize the business requirement.
	
	Previous Version: V11.00.00
	
	NIL
	
	New Version: V11.01.00

Table 5.1: Domain Class Changes	
#	**Description of Changes**
41	**CLASS**: Shared::DatePeriodAndDuration **ACTION**: Modify **CHANGE(s)**: (1) Changed the description of DatePreriodAndDuration to "The collection of business properties that describe a date period or duration". (2) Changed the description of SCACType to "The Standard Carrier Alpha Code (SCAC) is a unique two-to-four-letter code used to identify transportation companies. NMFTA developed the SCAC identification codes in the mid 1960's to facilitate computerization in the transportation industry.Refer http://www.nmfta.org for more detail." **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00

Table 5.1: Domain Class Changes	
#	Description of Changes
	CLASS: **Logistic:: ManufacturerProfile** **ACTION**: Modify **CHANGE(s)**: **(1)** Added parentProductSerialIdentifier. **BUSINESS REQUIREMENT(s)**: Parent product serial number is required for container shipping product management. **Previous Version**: V11.01.00 **New Version**: V11.01.00

Table 5.2: Domain Code List Changes	
#	**Description of Changes**
1	**CLASS**: Domain::Manufacturing::CodeList::RN_LotQuantityClassification **ACTION**: Modify **CHANGE(s)**: (1) Removed whitespace in the description for codelist instance LPR **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00

5 Changes to Universal Structure

Table 6.1: Universal Class Changes	
#	**Description of Changes**
1	**CLASS**: Universal::ContactInformation::ContactAndPhone **ACTION**: Modify **CHANGE(s)**: (1) Changed the element name from Emai to Email. **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00

Previous Version: V11.00.00

ContactAndPhone
- emai[0..1] : string
- fax[0..1] : string
- identifier[0..1] : string
- phone : string

<<dataType>>
Contact
(from DataType)

New Version: V11.01.00

ContactAndPhone
- email[0..1] : string
- fax[0..1] : string
- identifier[0..1] : string
- phone : string

<<dataType>>
Contact
(from DataType)

#	Table 6.1: Universal Class Changes
	Description of Changes
2	**CLASS**: Universal::ContactInformation::ContactInformation **ACTION**: Modify **CHANGE(s)**: (1) Update the description of Email to "The electronic mail for the specified contact". **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00

Previous Version: V11.00.00

ContactInformation
- email[0..1] : string
- fax[0..1] : string
- identifier[0..1] : string
- phone[0..1] : string

+contact → <<dataType>> Contact (from DataType)

New Version: V11.01.00

ContactInformation
- email[0..1] : string
- fax[0..1] : string
- identifier[0..1] : string
- phone[0..1] : string

+contact → <<dataType>> Contact (from DataType)

Table 6.1: Universal Class Changes	
#	**Description of Changes**
3	**CLASS**: Universal::DataType::Hexadecimal **ACTION**: Modify **CHANGE(s)**: (1) Changed the facet of Hexadecimal to [0-9a-fA-F]{1,} and the description to [0-9a-fA-F]{1,} **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00
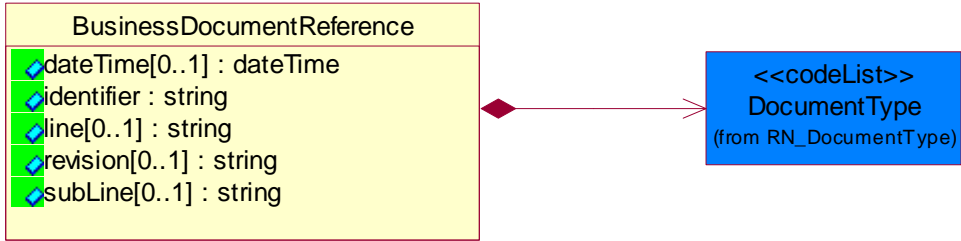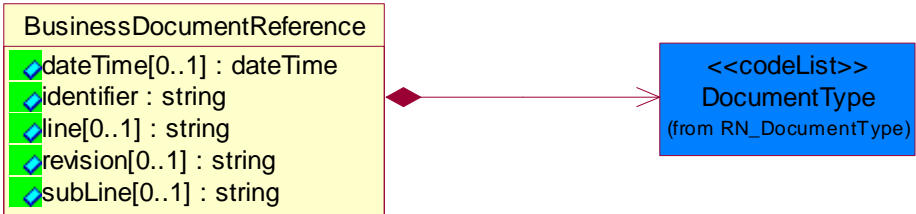
Table 6.1: Universal Class Changes	
#	**Description of Changes**
4	**CLASS**: Universal::Document::BusinessDocumentReference **ACTION**: Modify **CHANGE(s)**: (1) Version bumped up due to the changes in other domains. **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 BusinessDocumentReference ◇dateTime[0..1] : dateTime ◇identifier : string ◇line[0..1] : string ◇revision[0..1] : string ◇subLine[0..1] : string ◆———▶ <<codeList>> DocumentType (from RN_DocumentType) **New Version**: V11.01.00 BusinessDocumentReference ◇dateTime[0..1] : dateTime ◇identifier : string ◇line[0..1] : string ◇revision[0..1] : string ◇subLine[0..1] : string ◆———▶ <<codeList>> DocumentType (from RN_DocumentType)

Table 6.1: Universal Class Changes	
#	**Description of Changes**
5	**CLASS**: Universal::Locations::AlternativeIdentifier **ACTION**: Modify **CHANGE(s)**: (2) Update the description of Identifier to "The specified code to represent an entity (e.g. product, location, partner, etc.)". **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 AlternativeIdentifier ◇authority : string ◇identifier : string **New Version**: V11.01.00 AlternativeIdentifier ◇authority : string ◇identifier : string
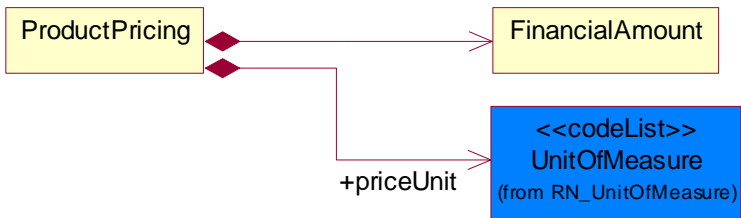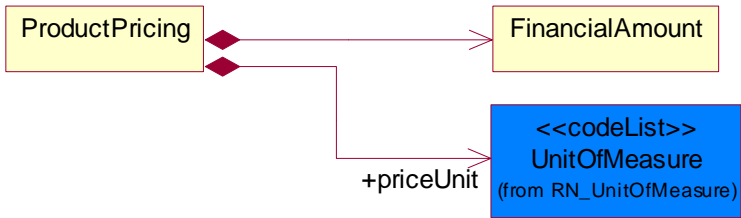
Table 6.1: Universal Class Changes	
#	**Description of Changes**
6	**CLASS**: Universal::MonetaryExpression::ProductPricing **ACTION**: Modify **CHANGE(s)**: (1) Update the description of PriceUnit to "This object represents the unit of the product." **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00

Table 6.1: Universal Class Changes	
#	**Description of Changes**
7	**CLASS**: Universal::MonetaryExpression::TaxJurisdiction **ACTION**: Modify **CHANGE(s)**: (1) Update the description of role name rate to "This object represents the tax rate". **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00
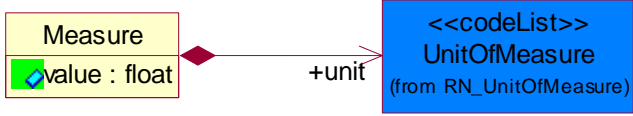
#	Table 6.1: Universal Class Changes
	Description of Changes
8	**CLASS**: Universal::PhysicalDimension::Measure

ACTION: Modify

CHANGE(s):

  (3) Rename the role name Unit to UnitOfMeasure.

BUSINESS REQUIREMENT(s): To standardize the business requirement.

Previous Version: V11.00.00

New Version: V11.01.00
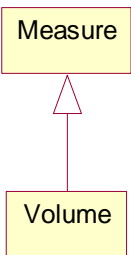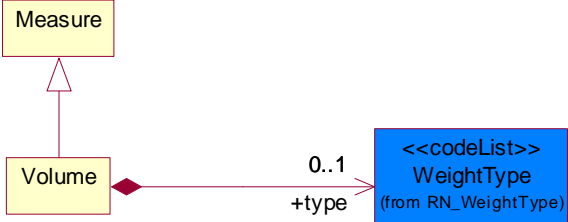
 |

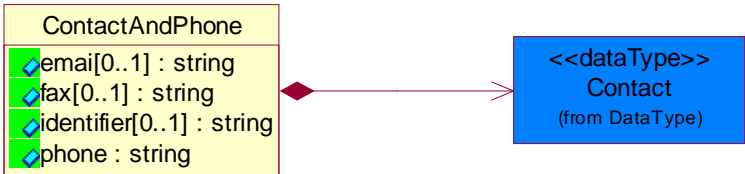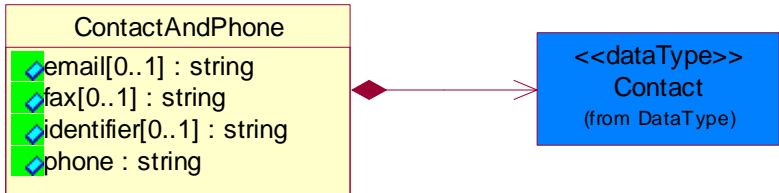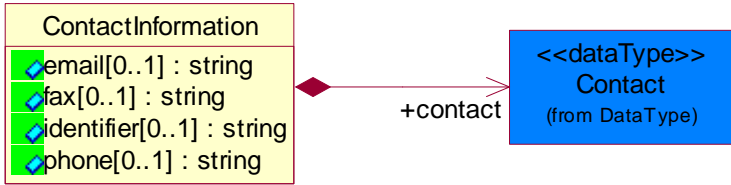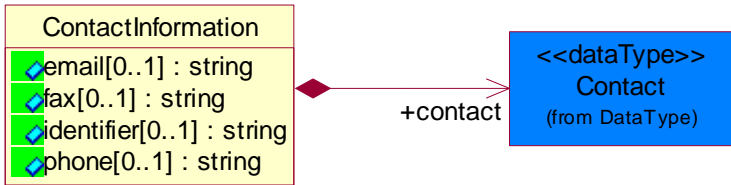| Table 6.1: Universal Class Changes	
#	**Description of Changes**
9	**CLASS**: Universal::PhysicalDimension::Volume **ACTION**: Modify **CHANGE(s)**: (1) Added association to WeightType (Rolename:Type, cardinality: 0..1) **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00
10	**CLASS**: Universal::ProductIdentification **ACTION**: Modify **CHANGE(s)**: (1) Version bumped up due to the changes in other domains. **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00

Table 6.2: Universal Code List Changes	
#	**Description of Changes**

1	**CODE LIST**: Universal::CodeList::RN_DocumentType::DocumentType
	
	ACTION: Modify
	
	CHANGE(s):
	
	    (1) Add new code list entity instances:
	         – ARA Authorization Request Approval.
	         – COA Certificate of Analysis.
	         – COS Consumption Notice.
	         – DOR Delivery Order.
	         – DRR Design Registration Request.
	         – ECO Engineering Change Order - The proprietary unique identification number that represents an engineering change order.
	         – EIR Engineering Information Request.
	         – EOL End of Life.
	         – PCN Product/Process Change.
	         – REN Release Number.
	
	BUSINESS REQUIREMENT(s):
	
	To standardize the usage of the latest code list.
	
	Previous PIP Package Version: V11.00.00
	
	New PIP Package Version: V11.01.00

Table 6.2: Universal Code List Changes	
#	Description of Changes

2	**CODE LIST**: Universal::CodeList::UnitOfMeasure
	
	ACTION: Modify
	
	CHANGE(s):
	
	(1) Add new code list entity instances:
	   – 1M2 1/Square Meter (1/M2).
	   – 1PM 1/minute (1/min).
	   – 22S Square Millimeter/Second (mm2/s).
	   – 3MH Cubic Millimeters/Hour (mm3/hour).
	   – ABC Absorbance per centimeter (Absorbance per cm).
	   – ABU Absorbance per Unit (absorbance per unit).
	   – ACC Atoms per Cubic Centimeters (atoms per cu cm).
	   – ACS Acidic strength/concentration.
	   – ACU Activity unit (Activ.unit).
	   – AM1 Ampoule.
	   – AMN Ångstroms/Minute (Ångst/min).
	   – ANG Angstrom (A).
	   – APB Atomic Parts per Billion (atomic ppb).
	   – APG API Specific Gravity (API Grav).
	   – APM Atomic Parts per Million (atomic ppm).
	   – APT Atomic Parts per Trillion (atomic ppt).
	   – APU APHA Units (apha).
	   – ASC Atoms per Square Centimeters (atoms per sq cm).
	   – ASY Assembly (ASY).
	   – ATG Atmospheric gauge.
	   – ATM Atmosphere absolute.
	   – ATP Atomic %.
	   – ATY Activity.
	   – BHP Brake HP.
	   – BLN Balance.
	   – BRB Bar absolute.
	   – BUB Bubbler.
	   – C0W Counts per Wafer (Counts/wf).
	   – C3M Cubic centimeter per minute (cm3/minute).
	   – CC2 Centipoises per hour per square centimeters (cps per hr per sq cm).
	   – CCC Counts per Square Centimeters (Counts/cm2).
	   – CD3 Cubic decimeter (Cubic dec).
	   – CM2 Square centimeter (cm2).
	   – CMH Centimeter/hour (cm/h).
	   – CML Colony/Milliliter (col/ml).
	   – CMS Centimeter/Second (cm/s).
	   – CST Centistokes.
	   – DAL Dalton units (dalton).
	   – DCM Defects per Square Centimeters (Defects/cm2).
	   – DE1 Defects.
	   – DE2 Degrees in Angles.
	   – DE3 Degree.
	   – DFW Defects per Wafer (Defects/Wafer).

Table 6.2: Universal Code List Changes	
#	**Description of Changes**
	– DNC Dynes per centimeter (Dynes per cm).
	– DPM Parts per Million per Day (ppm per day).
	– EML Enzyme Units/Milliliter (Enzyme/ml).
	– ENU Enzyme Units (Enzy.Units).
	– EQ2 Milliequivalent per 30 Kg (mequ/30Kg).
	– EQG Milliequivalent per gram (milliequivalent per g).
	– EQK Milliequivalent per Kilogram (mequ/Kg).
	– EQM Milliequivalent per Millimeter (milliequivalent per mm).
	– FIN 1/32 inch.
	– FPS Feet per second (Feet/s).
	– FRH Sales FT3 at 60°F per hour (FTR/hour).
	– FRM Sales FT3 at 60°F per minute (FTR/min).
	– FTR Sales FT3 at 60°F, 14.7 psia (SFT3_60F_S).
	– FTS Sales FT3 at 70°F, 14.7 psia (SFT3_70F_S).
	– FTT 1000 FT3 at 60°F, 14.7 psia (KFT3_60F_S).
	– FTU 1000 FT3 at 70°F, 14.7 psia (KFT3_70F_S).
	– G2S Gram square per second (g²/s).
	– GAI Gram act. ingrd. (g act.ing).
	– GAU Gram Gold.
	– GCL Gardner Color.
	– GEG Keim/Gramm (keim/g).
	– GEQ Gram per Equivalent (g/Eq).
	– GGM Gram per gram mole (g/gmole).
	– GHG Gram per Hectogram (g/hg).
	– GM4 Gram per 100 Milliliters (g/100ml).
	– GME Gram per Mole Equivalent (g/mole Eq)
	– GMO Gram per Mol (g/mol).
	– GNL Gram act.Ingrd per Liter (gai/liter).
	– GOH Gigaohm (GOhm).
	– GPN US Gallon per minute (gpm US).
	– HGM Hegman.
	– HZM Hertz per Minute (Hertz per min).
	– IH2 Inches of Water Gauge (inH2O-g).
	– IHG Inches of Mercury Gauge (inHg-g).
	– ILB Inch pounds (in.lb).
	– IPS Inch per second (inch / sec).
	– JKG Joule/Kilogram (J/kg).
	– JMO Joule/Mol (J/mol).
	– KAI Kilogram act. Ingrd. (kg ac.ing.).
	– KAK kg act.ingrd. / kg (kai/kg).
	– KCM Kilogram per cm2 gauge (kg/cm2-g).
	– KD3 Kilogram per Cubic Decimeter (kg/dm3).
	– KGE Container Fill Weight in Kg/Ea.
	– KGH Kilogram per Hour (kg/h).
	– KGL Kilograms per Liter (kg/L).
	– KGM Kilogram/Mol (kg/mol).
	– KGS Kilogram per Second (kg/s).
	– KJK Kilojoule per kilogram (KJ/kg).
	– KJM Kilojoule/Mol (KJ/mol).

#	Description of Changes
	Table 6.2: Universal Code List Changes
	– KMK Cubic meter/Cubic meter (m3/m3).
	– KMN Kelvin per Minute (K/min).
	– KMS Kelvin per Second (K/s).
	– KNM Kilonewton per square meter (kN/m2).
	– KNT Kilonewton (ND).
	– KPA Kilopascal (kPa).
	– KRU Kreb Unit.
	– KTN Kilotonne (kt).
	– KVA Kilovoltampere (kVA).
	– KWR Kilovolt ampere reactive hours (KVAH reac.).
	– LBH US Pound per Hour (lb/hour).
	– LBM US Pound per minute (lb/min).
	– LG2 Liter per Gram per Centimeter (l/g/cm).
	– LGC Liters per Gram-Centimeters (l/g-cm).
	– LHK Liter per 100 km (l/100 km).
	– LMI Liter per Minute (l/min).
	– LMS Liter per Molsecond (l/mol.s).
	– LPD Light Point Defects per Wafer (LPD/Wafer).
	– LPH Liter per hour (l/hr),
	– M15 Micron per 15 Square Millimeters (mu per 15 sq mm).
	– M20 Micron per 20 Square Millimeters (mu per 20 sq mm).
	– M25 Micron per 25 Square Millimeters (mu per 25 sq mm).
	– M26 Micron per 26 by 8 Millimeters (mu per 26 by 8 mm).
	– M2G Meters square per gram (m sq per gram).
	– M3A Sales m3 at 15 °C, 1 atmos (Sm3_15C_S).
	– M3B Sales m3 at 21 °C, 1 atmos (Sm3_21C_S).
	– M3C Sales m3 at 10 °C, 1 atmos (Sm3_10C_S).
	– M3D Sales m3 at 43 °C, 1 bar (Sm3_43C_D).
	– M3E Sales m3 at 9 °C, 1 bar (Sm3_9C_D).
	– M3F Sales m3 at 15 °C, 1 bar (Sm3_15C_D).
	– M3G Sales m3 at 27 °C, 1 atmos (Sm3_27C_S).
	– M3H Cubic Meter per Hour (m3/h).
	– M3J Sales m3 at 35 °C, 1 atmos (Sm3_35C_S).
	– M3K Cubic Meter/Kilogram (m3/Kg).
	– M3M Milliliter per Cubic Meter (ml/m3).
	– M3N Mol per Cubic Meter (Mol/m3).
	– MBZ Meterbar per Second (m.bar/s).
	– MC2 Millisecond per Centimeter (mS/cm).
	– MCA Microampere (μA).
	– MCH Micromhos (μmhos).
	– MCK Microcuries per Kilogram (μci/kg).
	– MCL Microcuries per Gaseous Liter (μc/l).
	– MCN Metal Can.
	– MCP Manifolded Cylinder Pack.
	– MEJ Megajoule (MJ).
	– MFD Microfarad (μF).
	– MGA Milligram per Amp (mg per amp).
	– MGF Milligram per Square Centimeter (mg/cm2).
	– MGG Milligram per Gram (mg/g).
	– MGL Microgram per Liter (μg/l).

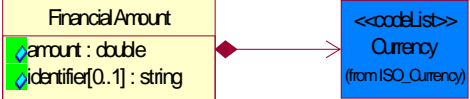| Table 6.2: Universal Code List Changes |
|---|
| # | Description of Changes |
| | – MGO Megohm (MOhm).
– MGR Micrograms per Gram (µg/g).
– MGS Milligram per Second (mg per sec).
– MH1 Millimeter per Hour (mm/h).
– MHC Micromhos per Centimeter (µmhos/cm)
– MHR Meter per Hour (m/h).
– MHV Megavolt.
– MJM Wobbe Number (MJ/m3).
– MKG Milligrams of KOH per Gram (mg KOH per g).
– MKL Millimol per Gram (mmol/g).
– ML1 Milliliter per Liter (ml/l)
– ML2 Milliliter per Liter (ml/l).
– ML3 Mol per Liter (Mol/Liter).
– ML4 Millimol per Liter (Millimol/l).
– MLG Milliliter per Gallon (ml per gal).
– MLM Mole per Mole (mole/mole).
– MLP Mole Percent (% mole).
– MLR Microliter (µl).
– MLW Milliliter act. Ingr. (ml act.in.).
– MM3 Cubic Millimeter (mm3).
– MMA Millimeter per Year (mm/a).
– MMG Millimol/gram (mmol/g).
– MMM   0.000001 meter (1 millionth of a meter). (Micrometer/Micron).
– MMN   Meter per Minute (m/min).
– MMS Millimeter per Second (mm/s).
– MNM   Millinewton per meter (mN/m).
– MNT Meganewton (MN).
– MPB Mass parts per billion (ppb(m)).
– MPG Miles per Gallon (US) (Mi/Gal(US)).
– MPM Mass Parts per Million (ppm(m)).
– MPT Mass Parts per Trillion (ppt(m)).
– MPZ Meterpascal per Second (m.Pa/s).
– MQG   Mircoequivalent per Gram (microeq/g).
– MRF Millifarad (mF).
– MS1 MilliSiemen per Centimeter (mS/cm).
– MS2 Meter per Second Squared (m/s2).
– MS3 Microsiemens per Centimeter (µS/cm).
– MTS Meters per second.
– MVA Megavoltampere (MVA).
– MWH   Megawatt Hours (mwh).
– MWR   Megavolt Ampere Reactive Hours (MVAH reac.).
– MWT   Molecular Weight (mW).
– MYS Micro Siemens (mic. Siem.).
– N2M Newton/Square millimeter (N/mm2).
– NM2 Newton per Square Meter (N/m²).
– NM3 Normal m3 at 0°C, 1 atmos (Normal m3).
– NMH Newton per Hour (N/h).
– NMM   Newton per Millimeter (N/mm).
– NMR Normal m3 per Hour (Nm3/h).
– NOL Normality. |

Table 6.2: Universal Code List Changes	
#	**Description of Changes**
	– NPK Nowpac Container (Nowpac).
	– NRG Bar Gauge.
	– NRU Nanofarad (nF).
	– NTU Nephelometric Turbidity Units (NTU).
	– NTY Equivalents per Liter (equ/l).
	– NUM Numbers.
	– NWM Newton per Meter (N/m).
	– NXM Newton per 25 mm (N/25mm).
	– O2P Percent Oxygen (% Oxygen).
	– OHC Ohm-Centimeter (ohm cm).
	– OPH Operating hour (Oper. Hour).
	– OZG Ounce per Gallon (oz per gal).
	– PBA PPBA Silicon (ppba Si).
	– PBW Parts Per Billion by Weight (ppbw).
	– PC2 Parts per Square Centimeters (part per sq cm).
	– PCA Percent Active (% Active).
	– PCL Picocuries per Liter (pCi/l).
	– PF3 Per Cubic Foot (per cu ft).
	– PF4 Particles per Cubic Feet (particles per cu ft).
	– PFA Percent Failed Area (Failed Area %).
	– PH PH Factor (pH).
	– PI2 Parts per Square Inch (part per sq in).
	– PL2 Parts per Milliliter (parts per ml).
	– PL3 Part per Millilitre (Part/ml).
	– PLA Plate.
	– PLI Pounds per Linear Inch (lb/Lin. In).
	– PLR Per Liter.
	– PMA Percent Mass (%(m)).
	– PMI Per Mille (%0).
	– PML Particles per Milliliter (particles/mL).
	– PMO Per Mille mass (%0(mass)).
	– PMP Parts Per Million Platinum (ppm Pt).
	– PMV Parts Per Million (weight/Vol) (ppm (w/v)).
	– PMW Parts Per Million by Weight (ppmw).
	– PNJ Particles per Injection (particles per inj).
	– PNT Points.
	– POR Pores.
	– PP3 Parts per Million mole (ppm mole).
	– PP4 Parts per Billion Mole (ppb mole).
	– PPF Parts per Ft3 (Parts/Ft3).
	– PPH Parts Per Hundred (pph).
	– PPT Parts per Trillion (ppt).
	– PRS Number of Persons.
	– PSA Pounds per Square Inch Absolute.
	– PSG Pound per Square Inch Gauge (psi gauge).
	– PSI PSI Unit (PSI).
	– PSV Poise.
	– PTL Particles per Liter (Part/Liter).
	– PWF Particles per Wafer (particles/wf).
	– QML Kilomol (kmol).

Table 6.2: Universal Code List Changes	
#	Description of Changes
	– RLU Relative Light Unit (RLU). – RPM Revolutions per Minute (Revs/min). – SCL Scales. – SIE Siemens per Meter (Siemens/m). – STP Steps. – STU Stabilizer Units (SU). – SVU Say Bolt Viscosity Units (SVU). – TAR Target pieces (target). – TM3 1/Cubic Meter (1/m3). – TOM Ton per Cubic Meter (t/m3). – TPT Pass Test (Pass). – VAL VO mat. (Value). – VAP Voltampere (VA). – VHN Vickers Micro-Hardness (VHN10). – VMP Molar %. – VPB Volume Parts per Billion (ppb(V)). – VPC Percent Volume (%(V)). – VPM Volume Parts per Million (ppm(V)). – VPR Per Mille Volume (%O(V)). – VPT Volume parts per Trillion (ppt(V)). – WPT Parts Per Trillion by Weight (pptw). **BUSINESS REQUIREMENT(s)**: To standardize the usage of the latest code list. **Previous PIP Package Version:**V11.00.00 **New PIP Package Version:** V11.01.00

3	**CODE LIST**: Universal::CodeList::RN_WeightType
	
	ACTION: Modify
	
	CHANGE(s):
	
	    (1) Add new code list entity instances:
	        – EXA - Exact Net.
	        – NOM - Customs Nominal Net.
	        – CLF - Tare.
	
	BUSINESS REQUIREMENT(s):
	
	To standardize the usage of the latest code list.
	
	Previous PIP Package Version:V11.00.00
	
	New PIP Package Version: V11.01.00

Table 6.2: Universal Code List Changes	
#	**Description of Changes**
4	Change **amount** from **float** to **double** to allow for more precise amount representation. Previous PIP Package Version: V11.04.00 New PIP Package Version: V11.05.00

6   Changes to System Structure

Table 7.1: System Class Changes	
#	**Description of Changes**
1	**CLASS**: System::StandardDocumentHeader **ACTION**: Modify **CHANGE(s)**: (1) Impacted domain due to changes in Universal domain **BUSINESS REQUIREMENT(s)**: To standardize the business requirement. **Previous Version**: V11.00.00 **New Version**: V11.01.00

Table 7.2: System Code List Changes	
#	**Description of Changes**
	-NIL-