



Global Data Synchronization  
for  
InfoSphere Master Data Management Collaboration  
Server

*BMS 2.8 upgrade on Demand Side  
&  
1SYNC 6.8 upgrade on Supply Side*

**Note:** Before using this information and the product it supports, read the information in “Notices” at the end of this document.

21 Aug, 2012

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# 1. Overview

This document details support for Business Message Standard (BMS) 2.8 specifications, 1SYNC 6.8 XML specifications, product fixes, installation and other updated information for IBM Global Data Synchronization (GDS).

This document provides comprehensive details of what can be expected in this release. New features and changes to existing features by Global Data Synchronization Network (GDSN) and 1SYNC described in their specifications that do not impact or are not handled by IBM Global Data Synchronization are not part of this release. Moreover, any updates to these specifications (documents and schema) made after the versions that are referred to in preparing this requirement document, as mentioned in the related documents section (refer [Appendix K](#)), are not handled in this release.

This release is for both Global Data Synchronization Demand and Supply side customers. Customers are advised to read through the sections appropriate to their business and implementation.

## **Note:**

1. Deprecated core and extension attributes per 1SYNC or GDSN specifications will not be deleted in this fix pack. The decision to remove these attribute from specs is left to the implementation team.
2. Obsolete valid values for attributes will not be removed from the corresponding lookup tables. The decision to remove these valid values from lookup tables is left to the implementation team.
3. Valid values that have changed in keys are also not handled in migration provided with this fix pack. This needs to be taken care of by the implementation team. Such valid values are called out separately in this document under different sections.

## 2. Demand Side Upgrade

### 2.1 Scope

Global Data Synchronization Demand side has to be upgraded to handle BMS 2.8 specifications. Prior versions of Global Data Synchronization are compliant with BMS 2.7 specifications. Hence, a migration path needs to be provided to upgrade the existing data model such that it is compliant with the BMS 2.8 specifications.

Highlights of changes to upgrade from BMS 2.7 to BMS 2.8 XML specifications are:

1. Non-backward compatible, attributes moved from extensions to core
2. About 260 more new attributes relative to BMS 2.7,
3. About 88 new core attributes introduced
4. Three new extensions added: Plumbing & Heating Ventilation and Air Conditioning HVAC) [16 new attributes], Books and Publication [239 new attributes] & Chemical Ingredients [214 new attributes].
5. New attributes added to existing extensions.
6. New validations.
7. Obsolete extensions.
8. New code lists and updates to existing code lists.
9. Production release scheduled for 08-Oct-2012.

Following changes have been identified and included in this fix pack upgrade:

1. Global attribute changes (refer [Appendix A](#)) ---> WIP
2. Target market attribute changes (refer [Appendix B](#)) ---> WIP
3. Extension attribute changes (refer [Appendix C](#)) ---> WIP
4. Valid value updates (refer [Appendix D](#)) ---> WIP

### 2.2 Product Fixes

PMR	APAR	Tracking Number	Description
	ER		Upgrade GDS Demand side to conform to GDSN BMS 2.8 XML specifications.

## 3. Supply Side Upgrade

### 3.1 Scope

Global Data Synchronization Supply side has to be upgraded to handle 1SYNC 6.8 specifications. Prior versions of Global Data Synchronization are compliant with 1SYNC 6.6 specifications and hence a migration path is required to upgrade the data model.

Highlights of changes to upgrade from 1SYNC 6.6 to 6.8 XML specifications

1. Non-backward compatible
2. New core attributes introduced
3. Attributes moved across sections - mainly for flex types
4. Preproduction release scheduled for 14-Jul-2012 with 6.8 release and updated documents
5. Preproduction scheduled for 11-Aug-2012 with full GDSN operability restored.
6. Production release scheduled for 06-Oct-2012.

Following changes have been identified and included in this fix pack upgrade:

1. Global attribute changes (refer [Appendix E](#))
2. Target market core/structured attribute changes (refer [Appendix F](#))
3. Target market extension attribute changes (refer [Appendix G](#))
4. Valid value updates (refer [Appendix H](#))
5. Validation updates (refer [Appendix I](#))
6. Validation property file updates (refer [Appendix J](#))

### 3.2 Product Fixes

PMR	APAR	Tracking Number	Description
	ER		Upgrade GDS Supply side to conform to 1SYNC 6.8 XML specifications

## 4. Appendix A: Global Data Synchronization Demand Side – Global Attributes Changes

This section details the impact and changes done to handle updates to Global attributes per BMS 2.8 specifications.

**Table 1: Global attribute changes (Global Attributes Spec)**

ATTRIBUTE PATH	CHANGE	
	Type	Details
None		



## 5. Appendix B: Global Data Synchronization Demand Side – Target Market Attributes Changes

This section details the impact and changes done to handle updates to Target Market attributes per BMS 2.8 specifications. Lot of changes, Refer "SA2 Worldsync v2.8 Data Model.xls" to complete list.

Table 2: Target market attribute changes (Global Local Attributes Spec)

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/packagingMaterial/packagingRecyclingSchemeCode	New	String, Length: 70 Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/packagingMaterial/returnablePackageDepositCodeOriginAgency	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/packagingType/shippingContainerQuantityDescription	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/packagingType/shippingContainerQuantityDescription/language	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/packagingType/shippingContainerQuantityDescription/language/languageISOCODE	New	LOOKUP_TABLE: Languages_Lookup Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/packagingType/shippingContainerQuantityDescription/text	New	String, Max Length: 200

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHandlingInformation/isTradeItemShippedInMultipleContainers	New	LOOKUP_TABLE: FLAG_LookUp Max Occurrence:1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHandlingInformation/unitsPerTradeItem	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHandlingInformation/unitsPerTradeItem/measurementValue	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHandlingInformation/unitsPerTradeItem/measurementValue/unitOfMeasure	New	String , Length: 3
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHandlingInformation/unitsPerTradeItem/measurementValue/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHandlingInformation/supplierSpecifiedMinimumConsumerStorageDays	New	String, Length: 6 Max Occurrence: 9999 Pattern: ^([0-9]{0,5})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHazardousInformation/hazardousInformationDetail/eRGNumber	New	String , Length: 35
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHazardousInformation/hazardousInformationDetail/extremelyHazardousSubstanceQuantity	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHazardousInformation/hazardousInformationDetail/extremelyHazardousSubstanceQuantity/unitOfMeasure	New	String, Length: 3
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHazardousInformation/hazardousInformationDetail/extremelyHazardousSubstanceQuantity/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHazardousInformation/aDRTunnelRestrictionCode	New	String, Length: 70 Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHazardousInformation/dangerousGoodsRegulationAgency	New	String, Length: 70

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHazardousInformation/hazardousInformationDetail/hazardousClassSubsidiaryRiskCode	New	String, Length: 35
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/inBoxCubeDimension	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/inBoxCubeDimension/measurementValue	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/inBoxCubeDimension/measurementValue/unitOfMeasure	New	String , Length: 3
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/inBoxCubeDimension/measurementValue/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/percentageOfAlcoholByVolume	New	String, Length: 8 Max Occurrence: 9999 Pattern: ^-?[0-9]{0,3}(\.[0-9]{0,2})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/individualUnitMaximumSize	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/individualUnitMaximumSize/unitOfMeasure	New	String, Length: 3 Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/individualUnitMaximumSize/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/individualUnitMinimumSize	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/individualUnitMinimumSize/unitOfMeasure	New	String, Length: 3 Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/individualUnitMinimumSize/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/variableWeightAllowableDeviationPercentage	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/variableWeightRangeMaximum	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/variableWeightRangeMaximum/unitOfMeasure	New	Lookup Table: Weight_UOM_LookUp Max Occurrence:1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/variableWeightRangeMaximum/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/variableWeightRangeMinimum	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/variableWeightRangeMinimum/unitOfMeasure	New	Lookup Table: Weight_UOM_LookUp Max Occurrence:1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemMeasurements/variableWeightRangeMinimum/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/cataloguePrice/sheetName	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemTemperatureInformation/isFrostResistant	New	Lookup Table: FLAG_STRING_Lookup
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemTemperatureInformation/tradeItemTemperatureConditionTypeCode	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/marketingInformation/isAssemblyRequired	New	Lookup Table: FLAG_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemOrderInformation/returnGoodsPolicy	New	Lookup Table: Return Goods Policy

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemOrderInformation/shippingQuantityMinimum	New	String, Length: 6 Max Occurrence: 1 Pattern: ^([0-9]{0,5})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemSustainabilityInformation/tradeItemEnvironmentalProperties/flammableAerosolContainmentCode	New	Lookup Table: Flammable Aerosol Containment Code
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemSustainabilityInformation/tradeItemEnvironmentalProperties/flammableGasWeight	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemSustainabilityInformation/tradeItemEnvironmentalProperties/flammableGasWeight/unitOfMeasure	New	Lookup Table: Weight_UOM_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemSustainabilityInformation/tradeItemEnvironmentalProperties/flammableGasWeight/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemSustainabilityInformation/tradeItemRecyclingContent	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemSustainabilityInformation/tradeItemRecyclingContent/postConsumerRecycledMaterialContentPercentage	New	String, Length: 6 Pattern: ^([0-9]{0,5})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemSustainabilityInformation/tradeItemRecyclingContent/totalRecyclableContentPercentage	New	String, Length: 6 Pattern: ^([0-9]{0,5})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/purchaseOrderReceiver/partyName	New	String, Length: 200
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/areBatteriesIncluded	New	Lookup Table: FLAG_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/areBatteriesRequired	New	Lookup Table: FLAG_LookUp

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/batteryTypeInfo	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/batteryTypeInfo/areBatteriesBuiltIn	New	Lookup Table: FLAG_STRING_Lookup
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/batteryTypeInfo/batteryTechnologyType	New	String, Length: 70 Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/batteryTypeInfo/batteryType	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/batteryTypeInfo/quantityOfBatteriesBuiltIn	New	String, Length: 6 Pattern: ^([0-9]{0,5})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/batteryTypeInfo/quantityOfBatteriesRequired	New	String, Length: 6 Pattern: ^([0-9]{0,5})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/batteryTypeInfo/batteryWeight	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/batteryTypeInfo/batteryWeight/unitOfMeasure	New	String, Length: 3
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBatteryInformation/batteryTypeInfo/batteryWeight/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemAIDCInformation	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBarcodeInformation	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemCertificationInformation	New	Grouping, Max Occurrence: 9999

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemAIDCInformation/aIDCPresenceCode	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemAIDCInformation/applicationIdentifierTypeCode	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemAIDCInformation/dataCarrierTypeCode	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBarCodeInformation/isBarCodeDerivable	New	Lookup Table: FLAG_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBarCodeInformation/barCodeInformation	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBarCodeInformation/barCodeInformation/barCodeValue	New	String, Length: 3000
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBarCodeInformation/barCodeInformation/barCodeValueType	New	Lookup Table: EANUCC_Type_Barcode
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemCertificationInformation/certificationStandard	New	String, Length: 3000
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemCertificationInformation/certificationValue	New	String, Length: 3000
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemCertificationInformation/certificationValue/description	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemCertificationInformation/certificationValue/description/language	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemCertificationInformation/certificationValue/description/language/languageISOCode	New	Lookup Table: Languages_Lookup
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemCertificationInformation/certificationAgency	New	String, Length: 3000

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemCertificationInformation/certificationValue/description/text	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemCertificationInformation/certificationEffectiveStartDate	New	Date
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemCertificationInformation/certificationEffectiveEndDate	New	Date
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/isRadioFrequencyIDOnPackaging	New	Lookup Table: FLAG_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/totalNumberOfComponents	New	String, Length: 6 Pattern : ^([0-9]{0,5})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemBarCodeInformation/barCodeInformation/barCodeValueType	New	Lookup Table: EANUCC_Type_Barcode
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentNumber	New	String, Length: 6 Pattern : ^([0-9]{0,5})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentIdentification	New	String, Length: 35
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentDescription	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentDescription/language	New	Grouping, Max Occurrence: 1



ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentDescription/language/languageISOCode	New	Lookup Table: Languages_Lookup
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentDescription/text	New	String , Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/contentsDescription	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/contentsDescription/language	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/contentsDescription/language/languageISOCode	New	Lookup Table: Languages_Lookup
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/contentsDescription/text	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentDepth	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentDepth/measurementValue	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentDepth/measurementValue/unitOfMeasure	New	Lookup Table: Linear_UOM_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentDepth/measurementValue/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentWidth	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentWidth/measurementValue	New	Grouping, Max Occurrence: 9999

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentWidth/measurementValue/unitOfMeasure	New	Lookup Table: Linear_UOM_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentWidth/measurementValue/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentHeight	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentHeight/measurementValue	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentHeight/measurementValue/unitOfMeasure	New	Lookup Table: Linear_UOM_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentHeight/measurementValue/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentGrossWeight	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentGrossWeight/measurementValue	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentGrossWeight/measurementValue/unitOfMeasure	New	Lookup Table: Weight_UOM_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemComponents/componentInformation/componentGrossWeight/measurementValue/value	New	String, Length: 15 Pattern: ^[0-9]{0,15}(\.[0-9]{0,14})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemProcessing	New	Grouping, Max Occurrence: 1
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemProcessing/ingredientIrradiatedCode	New	Lookup Table: FLAG_STRING_Lookup

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemProcessing/rawMaterialIrradiatedCode	New	Lookup Table: FLAG_STRING_Lookup
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemProcessing/tradeItemGeneticallyModifiedCode	New	Lookup Table: FLAG_STRING_Lookup
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemProcessing/tradeItemIrradiatedCode	New	Lookup Table: FLAG_STRING_Lookup
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/doesTradeItemHaveAutoReaderTracker	New	Lookup Table: FLAG_STRING_Lookup
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/isProductCustomizable	New	Lookup Table: FLAG_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/isTradeItemANonFunctioningDisplayUnit	New	Lookup Table: FLAG_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/isTradeItemRecalled	New	Lookup Table: FLAG_LookUp
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemConditionTypeCode	New	Lookup Table: TradeItem Condition Type
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/primaryDistributionMethodCode	New	Lookup Table: Distribution Method Code List
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/TradeItemOperatingEnvironment	New	String, Length: 70 Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/consumerSafetyInformation	New	String, Length: 70 Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradeItemRegulatoryInformation	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradeItemRegulatoryInformation/regulatoryAct	New	String, Length: 80
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradeItemRegulatoryInformation/regulatoryAgency	New	String, Length: 80
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradeItemRegulatoryInformation/permitIdentification	New	Grouping, Max Occurrence: 9999
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradeItemRegulatoryInformation/permitIdentification/permitEndDate	New	Date

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradeItemRegulatoryInformation/permitIdentification/permitStartDate	New	Date
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradeItemRegulatoryInformation/permitIdentification/regulatoryPermitIdentification	New	String, Length: 80
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/packagingType/isPackagingSuitableforAirShipment	New	Lookup Table: FLAG_STRING_Lookup
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/brandOwnerOfTradeItem/nameOfBrandOwner	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/manufacturerOfTradeItem/nameOfManufacturer	New	String, Length: 70
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHierarchy/quantityOfInnerPack	Update	String, Length: 6 Pattern: ^([0-9]{0,6})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHierarchy/quantityOfLayersPerPallet	Update	String, Length: 6 Pattern: ^([0-9]{0,6})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHierarchy/quantityOfTradeItemsContainedInACompleteLayer	Update	String, Length: 6 Pattern: ^([0-9]{0,6})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHierarchy/quantityOfTradeItemsPerPallet	Update	String, Length: 6 Pattern: ^([0-9]{0,6})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHierarchy/quantityOfTradeItemsPerPalletLayer	Update	String, Length: 6 Pattern: ^([0-9]{0,6})?\$
Global_Local_Attributes_Spec/tradeItem/tradeItemInformation/tradingPartnerNeutralTradeItemInformation/tradeItemHierarchy/quantityOfNextLevelTradeItemWithinInnerPack	Update	String, Length: 6 Pattern: ^([0-9]{0,6})?\$

## 6. Appendix B: Global Data Synchronization Demand Side – Food and Beverage Extension Attributes Changes

This section details the impact and changes done to handle updates to Target Market attributes per BMS 2.8 specifications. Lot of changes, Refer "SA2 Worldsync v2.8 Data Model.xls" to complete list.

**Table 2: Food and Beverage extension attribute changes (Food And Beverage Spec)**

ATTRIBUTE PATH	CHANGE	
	Type	Details
Food_And_Beverage_Spec/foodAndBeverageInformation/foodAndBeverageIngredientInformation/degreeOfOriginalWort	New	String, Length: 5
Food_And_Beverage_Spec/foodAndBeverageMarketingInformationExtension	Existing	Grouping, Max Occurrence: 1
Food_And_Beverage_Spec/foodAndBeverageMarketingInformationExtension/compulsoryAdditivesLabelInformation	New	Grouping, Max Occurrence: 1
Food_And_Beverage_Spec/foodAndBeverageMarketingInformationExtension/compulsoryAdditivesLabelInformation/description	New	Grouping, Max Occurrence: 9999
Food_And_Beverage_Spec/foodAndBeverageMarketingInformationExtension/compulsoryAdditivesLabelInformation/description/language	New	Grouping, Max Occurrence: 1
Food_And_Beverage_Spec/foodAndBeverageMarketingInformationExtension/compulsoryAdditivesLabelInformation/description/language/languageISOCODE	New	Lookup Table: Languages_Lookup
Food_And_Beverage_Spec/foodAndBeverageMarketingInformationExtension/compulsoryAdditivesLabelInformation/description/longText	New	String, Length: 1000

## 7. Appendix B: Global Data Synchronization Demand Side – Case Level Non GTIN Logistics Unit Extension Attributes Changes

This section details the impact and changes done to handle updates to Target Market attributes per BMS 2.8 specifications. Lot of changes, Refer "SA2 Worldsync v2.8 Data Model.xls" to complete list.

**Table 2: Case Level Non GTIN Logistics Unit extension attribute changes  
(CaseLevel NonGTIN LogisticsUnit Spec)**

ATTRIBUTE PATH	CHANGE	
	Type	Details
CaseLevel_NonGTIN_LogisticsUnit_Spec /isNonGTINLogisticUnitPackedIrregularly	New	Lookup Table: FLAG_STRING Lookup

## 8. Appendix B: Global Data Synchronization Demand Side – Specific Technical Characteristics Extension Attributes Changes

This section details the impact and changes done to handle updates to Target Market attributes per BMS 2.8 specifications. Lot of changes, Refer "SA2 Worldsynchron v2.8 Data Model.xls" to complete list.

**Table 2: Specific Technical Characteristics extension attribute changes  
(Specific Technical Characteristics Spec)**

ATTRIBUTE PATH	CHANGE	
	Type	Details
Specific_Technical_Characteristics_Spec/extensionSpecificsTechnicalCharacteristics/productCharacteristics/additionalCharacteristicsDescription	New	Grouping
Specific_Technical_Characteristics_Spec/extensionSpecificsTechnicalCharacteristics/productCharacteristics/additionalCharacteristicsDescription/language	New	Grouping
Specific_Technical_Characteristics_Spec/extensionSpecificsTechnicalCharacteristics/productCharacteristics/additionalCharacteristicsDescription/language/languageISOCODE	New	Lookup Table: Languages_Lookup
Specific_Technical_Characteristics_Spec/extensionSpecificsTechnicalCharacteristics/productCharacteristics/additionalCharacteristicsDescription/longText	New	String, Length: 1000

## 9. Appendix C: Global Data Synchronization Demand Side – Extension Attributes Changes

This section details the impact and changes done to handle updates to extension attributes per BMS 2.8 specifications. The following extensions will be deprecated in version 2.8, to be removed in version 3.0:

1. FMCG
2. Hardlines
3. Office Supplies
4. Regulatory Compliance.
5. Barcode

These extension attributes have moved into Core. Migration rules are currently checked at datapool level.

**Table 3: Extension attribute changes**

EXTENSION / SPEC NAME / ATTRIBUTE PATH	CHANGE	
	Type	Details
<b>Plumbing &amp; Heating Ventilation and Air Conditioning (HVAC) [16 new attributes]</b>		
This is a new extension added in 2.8. Attribute details as per GDSN 2.8 specifications. <b>This extension is not included in MDMCS v10.0.0-FP003 release.</b>		
<b>Books and Publication [239 new attributes]</b>		
This is a new extension added in 2.8. Attribute details as per GDSN 2.8 specifications. <b>This extension is not included in MDMCS v10.0.0-FP003 release.</b>		
<b>Chemical Ingredients [214 new attributes]</b>		
This is a new extension added in 2.8. Attribute details as per GDSN 2.8 specifications. <b>This extension is not included in MDMCS v10.0.0-FP003 release.</b>		
<b>Case Level Non GTIN [1 new attribute]</b>		
<b>Food And Beverage / Food And Beverage Spec [4 new attributes]</b>		



## 10. Appendix D: Global Data Synchronization Demand Side – Valid Value Changes

This section details the impact and changes done to handle updates to valid value list as per BMS 2.8 specifications. Refer " SA2 Code Lists.xls" for details.

**Table 4: Lookup table changes**

ATTRIBUTE PATH	LOOKUP TABLE	CHANGE	
		Type	Added Valid Values
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/materialComposition /materialAgencyCode	Material Agency	Update	ANSI ASME ASTM CISPI CSA IAPMO ISO MSS NSF
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/organicTradeItemCha racteristics/organicClaimAgency	Organic Claim Agency Code List	Update	6
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/packagingMarking/pa ckageMarksEnvironment	Packaging Marks Environment Code List	Update	PEFC USDA
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/packagingMarking/pa ckageMarksFreeFrom	Packaging Marks Free From Code List	Update	VERY_LOW_GLUTEN
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/packagingMarking/pa ckageMarksHygienic	Packaging Marked Hygienic Code List	Update	EC_NATIONAL_HEALTH_MARK EC_NATIO NAL_HEALTH_MARK
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/tradeItemMeasuremen ts/priceComparisonContentType	Packaging Recycling Scheme Code	New	A_PULLO ALKO EKO_PULLO PALPA
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/tradeItemMeasuremen ts/priceComparisonContentType	Price Comparison Content Type	Update	PER_DAILY_DOSE
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/tradeItemConditionT	TradeItem Condition Type	New	TO_BE_CUT_FOR_SALE CUT_FOR_SALE

ypeCode			
	Trade Item Unit Indicator	Update	TRANSPORT_LOAD
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/tradeItemPalletInformation/palletTypeCode	Pallet Type Code	Update	48 49 50
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/tradeItemTemperatureInformation/tradeItemTemperatureConditionTypeCode	Temperature Condition Type Code	New	DEEP_FROZEN THAWED FRESH FROZEN
	PegHole Type Code	New	SL3
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/tradeItemSustainabilityInformation/tradeItemEnvironmentalProperties/flammableAerosolContainmentCode	Flammable Aerosol Containment Code	New	FLAMMABLE_AEROSOL NONFLAMMABLE_AEROSOL NOT_APPLICABLE
ELECTRONIC_GAMES_SPEC /electronicGameBatteryInformation/batteryType	Battery Type	Update	A AA AAA B C D 9_VOLT
	Application Identifier Type Code	New	10 15 17 310N
	aIDC Presence Code	New	ALWAYS NEVER SOMETIMES
	Battery Technology Type Code	New	ALKALINE CARBON_ZINC LITHIUM_ION_POLYMER METAL_LITHIUM NICKEL_CADMIUM NICKEL_METAL_HYDRIDE OTHER SILVER_OXIDE
	Data Carrier Type	New	GS1_128 GS1_DATABAR GS1_DATAMATRIX RFID_EPC_TAG
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/primaryDistribution MethodCode	Distribution Method Code List	New	DS

	Referenced File Type Code	New	SDS HAZARDOUS_SUBSTANCES_DATA CHEMICAL_ASSESSMENT_SUMMARY SAFETY_SUMMARY_SHEET CHEMICAL_SAFETY_REPORT
Global_Local_Attributes_Spec /tradeItem/equivalentTradeItem/ additionalTradeItemIdentification	Additional Trade Item ID	Update	ISBN_NUMBER ISSN_NUMBER LOTTERY_GAME_NUMBER LOTTERY_PACK_BOOK_NUMBER MANUFACTURER_PART_NUMBER NABCA_PRODUCT_CODE MODEL_NUMBER EPD NDC
Global_Local_Attributes_Spec /tradeItem/tradeItemInformation /tradingPartnerNeutralTradeItem Information/tradeItemTaxInforma tion/tradeItemTaxAmount/taxAgen cy/taxExemptPartyRole	PartyRoleLis tType	Update	GROWER BREEDER FATTENER CUTTER MINCER SLAUGHTERER
Food_And_Beverage_Spec /foodAndBeverageInformation/fo dAndBeverageDietRelatedInforma tion/foodAndBeverageDietTypeInfo rmation/dietTypeCode	Diet Type Code List	Update	FREE_FROM_GLUTEN COELIA
	Nutrition Label Type Code	New	1
Food_And_Beverage_Spec /foodAndBeverageInformation/fo dAndBeverageAllergyRelatedInfor mation/foodAndBeverageAllergen/ allergenTypeCode	Allergen Type Code List	Update	AA AH AI AL AT AX BA BB BE BI BS CA CL CN CO CT EG EP EV FA GB GE GK GO GS HC HX

			HY ML MO NE SA SC SH SM SP SQ SR ST SW TN X99
	UN INFOODS	New	IODIZED SALT
Food_And_Beverage_Spec /foodAndBeverageMarketingInform ationExtension/nutritionalClaim Code	Nutritional Claim Code List	Update	ADDITIVE_FREE ARTIFICIALLY_SWEETENED CHOLESTEROL_FREE COLOURING_AGENT_FREE CONTAINS_GLYZYRRHIZIN CONTAINS_LIQUORICE CONTAINS_SOY EGG_FREE FREE_FROM GLUTEN GUARANTEED_LACTOSE_FREE LACTOSE_FREE LOW_LACTOSE LOW_PROTEIN MILK_FREE MILK_PROTEIN_FREE NON_ALCOHOLIC NUT_FREE PEANUT_FREE PRESERVATIVE_FREE SOY_FREE STRONGLY_SALTED SWEETENED_WITH_AGAVE_SYRUP SWEETENED_WITH_CANE_SUGAR SWEETENED_WITH_CORN_SYRUP SWEETENED_WITH_FRUCTOSE SWEETENED_WITH_FRUIT_JUICE SWEETENED_WITH_FRUIT_SYRUP SWEETENED_WITH_HONEY SWEETENED_WITH_MALT SWEETENED_WITH_RAW_BEET_SUGAR SWEETENED_WITH_WHITE_SUGAR VERY_LOW_GLUTEN WHEAT_FREE

## 11. Appendix E: Global Data Synchronization Supply Side – Global Attribute Changes

This section details the impact and changes done to handle updates to Global attributes per ISYNC 6.8 specifications.

**Table 5: Global attribute changes (Global Attributes Spec)**

ATTRIBUTE PATH	CORE / FLEX	CHANGE	
		Type	Details
packagingType/shippingContainerQuantityDescription	Core	New	Multiple Grouping
packagingType/shippingContainerQuantityDescription/languageCode	Core	New	Languages_Lookup
packagingType/shippingContainerQuantityDescription/text	Core	New	String:200
packagingType/isPackagingSuitableForAirShipment	Core	New	String:60
packagingType/returnablePackageDepositCodeOriginAgency	Core	New	String:70

## 12. Appendix F: Global Data Synchronization Supply Side – Target Market Core Attribute Changes

This section details the impact and changes done to handle updates to core Target Market attributes (structured target market attributes) per 1SYNC 6.8 specifications.

**Table 6: Target market attribute changes(Global Local Attributes Spec)**

ATTRIBUTE PATH	CORE / FLEX (TYPE)	CHANGE	
		Type	Details
productDescription - grouping node containing productDescription/languageCode & productDescription/text	Core	Rule change at 1SYNC	Currently 1SYNC defaults the value to "Brand + Sub Brand + Functional Name + Variant" if value is not populated. Starting v6.8, defaults will not apply.
isBarcodeSymbologyDerivable	Core		Change not clear
hazardousMaterial/hazardousMaterialAdditionalInformation	Core	New (added in 6.7)	Grouping, Min:0 Max:1
hazardousMaterial/hazardousMaterialAdditionalInformation/languageCode	Core	New (added in 6.7)	Languages_Lookup
hazardousMaterial/hazardousMaterialAdditionalInformation/text	Core	New (added in 6.7)	String:1000
hazardousMaterial/aDR TunnelRestrictionCode	Core	New	String:70, Min:0 Max:1
hazardousMaterial/aDR DangerousGoodsLimitedQuantitiesCode	Core	New	String:35, Min:0 Max:1
hazardousMaterial/dangerousGoodsRegulationAgency	Core	New	String:70, Min:0 Max:1
safetyPhrases	Core		Change not clear, hence no changes done
cataloguePrice/sheetName	Core	New	String:70
hazardousMaterial/dangerousGoods/netExplosiveMass	Core	New (added in 6.7)	Grouping, Min:0 Max:1
hazardousMaterial/dangerousGoods/netExplosiveMass/uom	Core	New (added in 6.7)	Lookup table
hazardousMaterial/dangerousGoods/netExplosiveMass/value	Core	New (added in 6.7)	String:6, Pattern: ^[0-9]{0,2}([\.][0-9]{0,1})?\$
hazardousMaterial/dangerousGoods/dangerousGoodsClassificationCode	Core	New (added in 6.7, perhaps)	String: 70 (Could be a lookup as well) Min:0 Max:1
orderingUnitOfMeasure	Core	Update - RDD type	Grouping, Min:0 Max:1
orderingUnitOfMeasure/dataRecipientG	Core		String: 13, Min:0, Max:1

LN			Pattern: ^([0-9]{13})?\$
orderingUnitOfMeasure/value	Core		Price_Comparison_Measurement_UOM_Lookup, Maxlength: 70

## 13. Appendix G: Global Data Synchronization Supply Side – Target Market Extension Attribute Changes

This section details the impact and changes done to handle updates to Target Market extension attributes (target market attributes that have flex structure) per 1SYNC 6.8 specifications.

**Table 7: Target market attribute changes(TM Core Extension Attribute Spec)**

ATTRIBUTE PATH	FLEX TYPE	CHANGE	
		Type	Details
tradeItemConditionTypeCode	A	New	TradeItemConditionType Max length: 70, Min:0 Max:1
tradeItemOperatingEnvironment	AM	New	Multiple String: 70
consumerSafetyInformation	AM	New	Multiple String: 70
tradeItemTemperatureConditionTypeCode	A	New	Temperature_Condition_Type_Code Max length: 70, Min:0 Max:1
	A	New	String: 70
flammableAerosolContainmentCode	A	New	String: 35
flammableGasWeight	AQ	New	Qual: Linear_UOM_LookUp Value: String: 38 Pattern: ^[0-9]{0,22}([\.][0-9]{0,14})?\$\$
supplierSpecifiedMinimumConsumerStorageDays	A	New	String: 11, Pattern: ^([0-9]{11})?\$\$ Min:0, Max:1
variableWeightAllowableDeviationPercentage	A	New	Value: String: 38 Pattern: ^[0-9]{0,22}([\.][0-9]{0,14})?\$\$ Min:0, Max:1
variableWeightRangeMaximum	AQ	New	Qual: Linear_UOM_LookUp Value: String: 38 Pattern: ^[0-9]{0,22}([\.][0-9]{0,14})?\$\$ Min:0, Max:1
variableWeightRangeMinimum	AQ	New	Qual: Linear_UOM_LookUp Value: String: 38 Pattern: ^[0-9]{0,22}([\.][0-9]{0,14})?\$\$ Min:0, Max:1
shippingQuantityMinimum	A	New	Value: String: 38 Pattern: ^[0-9]{0,22}([\.][0-9]{0,14})?\$\$ Min:0, Max:1
certificationEffectiveStartDate	A	Moved from F&B ext	Date, Min:0, Max:1
certificationEffectiveEndDate	A	Moved from F&B ext	Date, Min:0, Max:1
areBatteriesBuiltIn	A	Moved from EG	String:60, Min:0, Max:1



		ext	
batteryTechnologyType	A	Moved from EG ext	Battery_Technology_Type Length:60, Min:0, Max:1
batteryWeight	AQ	Moved from EG ext	Qual: Linear_UOM_LookUp Value: String: 38 Pattern: ^[0-9]{0,22}([\.][0-9]{0,14})? \$ Min:0, Max:1

## 14. Appendix H: Global Data Synchronization Supply Side – Valid Value Changes

This section details the impact and changes done to handle updates to valid value list as per ISYNC 6.8 specifications.

**Table 9: Lookup table changes**

ATTRIBUTE PATH	LOOKUP TABLE	CHANGE	
		Type	Added Valid Values
TM_Core_Extension_Attribute_Spec/batteryTechnologyType	Battery_Technology_Type	New	ALKALINE CARBON_ZINC LITHIUM_ION_POLYMER METAL_LITHIUM NICKEL_CADMIUM NICKEL_METAL_HYDRIDE OTHER SILVER_OXIDE
Global_Local_Attributes_Spec/materialComposition/materialAgencyCode	Material_Agency_Code_Lookup	Update	DIN60001_PART4 ANSI ASME ASTM CISPI CSA IAPMO ISO MSS NSF
Global_Local_Attributes_Spec/organic/claimAgency	Organic_ClaimAgency_Code_Lookup	Update	5 (BFA - Biological Farmers of Australia) 6 (No description available)
Global_Local_Attributes_Spec/packageMarksEnvironment	Package_Mark_Types_Lookup	Update	PEFC USDA
Global_Local_Attributes_Spec/packageMarksFreeFrom	Package_Marks_Free_Form_Lookup	Update	FREE_FROM_GLUTEN (Free from gluten) VERY_LOW_GLUTEN (Very Low Gluten)
TM_Core_Extension_Attribute_Spec/packageMarksHygienic	PackageMarks_Hygienic_Lookup	Update	EC_NATIONAL_HEALTH_MARK
Global_Local_Attributes_Spec/priceComparisonContentType	Price_Comparison_Content_Type_Lookup	Update	PER_DAILY_DOSE
TM_Core_Extension_Attribute_Spec/tradeItemConditionType	TradeItemConditionType	New	TO_BE_CUT_FOR_SALE (TO_BE_CUT_FOR_SALE) CUT FOR SALE (CUT FOR SALE)
Global_Attributes_Spec/ProductType	Product_Type_Lookup		TRANSPORT_LOAD (TRANSPORT_LOAD)
Global_Local_Attributes_Spec/palletCode			28 (Missing VV - Find out more) 29 (Missing VV - Find out more) 30 (1/2 EUR Pallet) 31 (1/2 ISO 2 Pallet) 32 (Block Pallet)

			33 (Dolly) 34 (EUR 2) 35 (EUR 3) 36 (EUR 6) 37 (EUR Pallet) 38 (Horizontal Drum Pallet) 39 (IBC Pallet) 40 (ISO 3 Pallet) 41 (ISO 4 Pallet) 42 (ISO 5 Pallet) 43 (ISO 6 Pallet) 44 (Skid) 45 (Stringer Pallet) 46 (Vertical Drum Pallet) 47 (1/3 EUR Pallet) 48 (New VV - Desc not yet provided) 49 (New VV - Desc not yet provided) 50 (New VV - Desc not yet provided)
TM_Core_Extension_Attribute_Spec/tradeItemTemperatureConditionTypeCode	Temperature_Condition_Type_Code	New	DEEP_FROZEN (DEEP_FROZEN) THAWED (THAWED) FRESH (FRESH) FROZEN (FROZEN)
Global_Local_Attributes_Spec/pegMeasurements/pegHoleType	Peg_Hole_Type	Update	ES1 (Euro Slot 25 millimetre) ES2 (Euro Slot 33 millimetre) HH1 (Hole Hook) SL3 (New VV - Desc not yet provided)
Could not find any attribute mapping for this VV	flammableAerosolContainmentCode	New	FLAMMABLE_AEROSOL (FLAMMABLE_AEROSOL) NONFLAMMABLE_AEROSOL (NONFLAMMABLE_AEROSOL) NOT_APPLICABLE (NOT_APPLICABLE)
TM_Core_Extension_Attribute_Spec/purchaseOrderReceiver/purchaseOrderReceiverPartyRole	PartyRoleListType	Update	GROWER (GROWER) BREEDER (BREEDER) FATTENER (FATTENER) CUTTER (CUTTER) MINCER (MINCER) SLAUGHTERER (SLAUGHTERER)
Food & Beverages ext (Not OOTB)	nutritionLabelTypeCode	Update	1 (USDA Child Nutrition Label)
Food & Beverages ext (Not OOTB)	dietTypeCode	Update	FREE_FROM_GLUTEN (Free from Gluten) COELIAC (Coeliac)
Food & Beverages ext (Not OOTB)	allergenTypeCode	Update	AA (amylcinnamyl alcohol) AH (anise alcohol) AI (alpha-Isomethyl Ionone) AL (amyl cinnamal) AX (other gluten containing grain and gluten containing grain products) BA (benzyl alcohol) BB (benzyl benzoate) BE (butylphenyl methylpropionate)

			BI (benzyl cinnamate) BS (benzyl salicylate) CA (cinnamyl alcohol) CL (cinnamal) CN (citronellol) CO (coumarin) CT (citral) EG (eugenol) EP (evernia prunastri) EV (evernia furfuracea) FA (farnesol) GB (barley and barley products (glutencontaining grain)) GE (geraniol) GK (kamut and kamut products (glutencontaining grain)) GO (oat and oat products (gluten containing grain)) GS (spelt and spelt products (gluten containing grain)) HC (Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde Isoeugenol Limonene Linal) HX (hexyl cinnamal) HY (hydroxycitronellal) ML (lactose) MO (methyl 2-octynoate) NE (peas and pea products) SA (almond and almond products) SC (cashew and cashew products) SH (hazelnut and hazelnut products) SM (macadamia nut and macadamia nut products) SP (pecan nut and pecan nut products) SQ (queensland nut and queensland nut) SR (brazil nut and brazil nut products) ST (pistachio and pistachio products) SW (walnut and walnut products) TN (Contains traces of tree nuts, i.e. almonds, various kinds of tree nuts) X99 (Does not contain declaration obligatory allergens)
Global_Local_Attributes_Spec/alternateItemIdentification/agency	Alternate_Item_Maintenance_Agency_Lookup	Update	90 (Assigned By Manufacturer) DA (Distributor Assigned) DHM (Drug Identification Number - Homeopathic) DIN (Drug Identification Number) EPD (Electronisk Produkt Database) F10 (The National Drug Code)

			unique 10-digit code) F11(The National Drug Code unique 11-digit code) HIB(Health Industry Business Communication Barcode) I01(For Internal Use 1) I02(For Internal Use 2) I03(For Internal Use 3) I04(For Internal Use 4) I05(For Internal Use 5) I06(For Internal Use 6) I07(For Internal Use 7) I08(For Internal Use 8) I09(For Internal Use 9) I10(For Internal Use 10) I11(For Internal Use 11) I12(For Internal Use 12) I13(For Internal Use 13) I14(For Internal Use 14) I15(For Internal Use 15) I16(For Internal Use 16) I17(For Internal Use 17) I18(For Internal Use 18) I19(For Internal Use 19) I20(For Internal Use 20) IB(International Standard Book Number (ISBN)) INV(National Institute of Surveillance of Medications and Foods for Colombia) IS(International Standard Serial Number (ISSN)) MDL(The Canadian Medical Device License) MG(Manufacturer Part Number) MODEL_NUMBER(Model Number) MPN(Manufacturers Part number) NA(National Alcohol Beverage Control Association Number) NAN(Nordic Article Number) NDC(National Drug Council) NIN(Nordic Item Number) NPN(Natural Health Product Number) NSN(National Stock Number) PLU(Price Look Up Number) RVG(Register Verpakte Geneesmiddelen) RVH(Register Verpakte Homeopatische Geneesmiddelen) SAN(The SAN-4 is a standard trade item number for a variable measure trade item.) ZA(GTIN Case Code) ZD(GTIN Consumer Code) ZE(Lottery game number)
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			ZF(Lottery pack book number) ZG(Buyer Assigned) ZIN(ID used on medical supplies/drugs in the Netherlands for managing reimbursements)
Global_Local_Attributes_Spec/Pr imaryDeliveryMethod	PrimaryDeliv eryMethod_Lo okUp	Update	D2C(Direct to Consumer)

## 15. Appendix I: Global Data Synchronization Supply Side – Validation Rule Changes

This section details the impact and changes done to handle updates to validation rules list as per 1SYNC 6.8 specifications.

**Table 9: Validation rule changes**

ATTRIBUTE PATH	CHANGE	
	Type	Details
Global_Local_Attributes_Spec/packagingMaterial/composition/value and Global_Attributes_Spec/packagingType/weight/value	New	The total of values in packagingMaterial/composition/value may not exceed the value in packagingType/weight/value for the same item.
Global_Local_Attributes_Spec/depth/value and Global_Local_Attributes_Spec/width/value	New	For non-Consumer Units ONLY the GS1 Standard for Product Measurement states that for Width and Depth, width MUST be less than, or equal to, depth.
Global_Local_Attributes_Spec/grossWeight/value	Is this handled?	Negative values are not allowed for grossWeight* *(because the attribute is mandatory and non-physical items exist in the GDSN, it is permissible to enter a zero for such items)
Global_Local_Attributes_Spec/leadTime/value	New	If populated, value must be greater than zero
Global_Local_Attributes_Spec/minimumTradeItemLifespanFromArrival/value	New	If populated, value must be greater than zero
Global_Local_Attributes_Spec/grossWeight/value and Global_Attributes_Spec/netContent/value	New	Value in grossWeight must be greater than or equal to value in netContent if this is given as weight. Allowance must be made for different units of measure.
Global_Local_Attributes_Spec/palletCode and GTIN_Spec/Child Item/Quantity	New - Publication level	Value in quantityofNextLowerLevelTradeItem may not exceed 2 when the pallet type is any type of full size pallet and the child item's pallet type is any type of half size pallet.  Full size pallets are: - EUR Pallet (code 37) - ISO 1 Pallet (code 11)

		<p>Half size pallets are:</p> <ul style="list-style-type: none"> <li>- 1/2 EUR Pallet (code 30)</li> <li>- EUR 6 Pallet (code 36)</li> <li>- ISO 0 Pallet (code 10)</li> </ul>
<p>individualUnitMinimum individualUnitMaximum (Could not find these attributes)</p> <p>And</p> <p>Global_Attributes_Spec/BaseUnitIndicator</p>	New	<p>If individualUnitMinimum and/or individualUnitMaximum are populated, then isTradeItemABaseUnit must be TRUE.</p> <p>If TradeItemABaseUnit is FALSE, then individualUnitMinimum and/or individualUnitMaximum should never be populated.</p>
<p>individualUnitMinimum individualUnitMaximum (Could not find these attributes)</p>	Is this handled?	<p>When individualUnitMinimum or individualUnitMaximum is provided, its associated unitOfMeasure must be from the Unit Of Measure Code List from the Trade Item Standard.</p> <p>If both the min and max are populated, then individualUnitMinimum must be equal to or less than individualUnitMaximum.</p>
<p>Global_Local_Attributes_Spec/height/value Global_Local_Attributes_Spec/width/value Global_Local_Attributes_Spec/depth/value Global_Local_Attributes_Spec/netWeight/value Global_Local_Attributes_Spec/grossWeight/value Global_Attributes_Spec/packagingType/weight/value Global_Local_Attributes_Spec/drainedWeight/value</p>	New	<p>All items in a hierarchy must be expressed using measurements from the same system (either imperial or metric) for height, width, depth, netWeight, grossWeight, packagingWeight and drainedWeight</p>
<p>Global_Local_Attributes_Spec/grossWeight/value Global_Attributes_Spec/isTradeItemAService</p> <p>Mapping missing for isTradeItemAService and isTradeItemADisplayUnit</p>	New	<p>Gross Weight must be included at all levels where isTradeItemAService does not equal TRUE</p>
<p>Global_Attributes_Spec/SpecialItemCode</p>	New	<p>If specialItemCode does not equal DYNAMIC_ASSORTMENT, then the grossWeight of the GTIN MUST BE greater than 96% of the sum of</p>



		<p>that GTIN's packagingWeight plus the sum of the grossWeight of all next lower-level child items (whether or not packagingWeight is populated in the child items). The formula is:  [Parent GTIN Gross Weight] &gt; 96% * ((sum of [Parent GTIN Packaging Weight]) + ([Parent GTIN Qty of Next Lower Level] * [Child GTIN Gross Weight]))</p>
<p>Global_Attributes_Spec/ProductType  GDSN name is: tradeItemUnitDescriptor</p>	<p>New</p>	<ol style="list-style-type: none"> <li>1. If tradeItemUnitDescriptor is "TRANSPORT_LOAD", and the item has a parent, then the tradeItemUnitDescriptor of the parent item can only be "TRANSPORT_LOAD".</li> <li>2. If tradeItemUnitDescriptor is "PALLET", and the item has a parent, then the tradeItemUnitDescriptor of the parent item can only be TRANSPORT_LOAD or "PALLET".</li> <li>3. If tradeItemUnitDescriptor is "PALLET", and the item has a children, then the tradeItemUnitDescriptor of the children can never be TRANSPORT_LOAD.</li> <li>4. If tradeItemUnitDescriptor is "CASE", and the item has a parent, then the tradeItemUnitDescriptor of the parent item can never be BASE_UNIT_OR_EACH or PACK_OR_INNER_PACK.</li> <li>5. If tradeItemUnitDescriptor is CASE, and the item has a children, then the tradeItemUnit</li> </ol>

		<p>quantityOfTradeItemsPerPallet Descriptor of the children can never be TRANSPORT_LOAD or PALLET.</p> <p>6. If tradeItemUnitDescriptor is PACK_OR_INNER_PACK, and the item has a parent, then the tradeItemUnitDescriptor of the parent item can never be BASE_UNIT_OR_EACH.</p> <p>7. If tradeItemUnitDescriptor is PACK_OR_INNER_PACK, and the item has a children, then the tradeItemUnitDescriptor of the children can never be "TRANSPORT_LOAD, "PALLET" or "CASE".</p>
Global_Local_Attributes_Spec/packagingMaterial/returnablePackageDepositCode Global_Local_Attributes_Spec/packagingMarkedReturnable	New	returnablePackageDepositCode may only be populated when isPackagingMarkedReturnable=true
Global_Local_Attributes_Spec/height/value Global_Local_Attributes_Spec/width/value Global_Local_Attributes_Spec/depth/value	New	A Trade item's smallest measurement (any of width, depth or height) cannot be smaller than the child item's smallest measurement (any of width, depth or height) .
Could not find the attributes	New	If isNonGTINLogisticUnitPackedIrregularly = False then value in quantityOfTradeItemsPerPallet must be equal to value in quantityOfLayersPerPallet multiplied by value in quantityOfTradeItemsPerPalletLayer
Global_Local_Attributes_Spec/packagingMaterial/composition/uom	New	packagingMaterialCompositionQuantity can only be entered in weight and the weight must be in the metric system (UOM)
Global_Attributes_Spec/IsTradeItemAConsumerUnit Global_Local_Attributes_Spec/barCodeType	New	1. If isTradeItemAConsumerUnit = true and barCodeType = EAN_UCC_13_SYMBOL or

		<p>UPC_A_SYMBOL or UPC_E_SYMBOL the first digit of the trade item's GTIN must be zero (0)</p> <p>2. If isTradeItemAConsumerUnit = true and barCodeType = EAN_UCC_8_SYMBOL then the first six digits of the trade item's GTIN must be zero (000000)</p>
XML message validation	New	GLN for sender in Standard Business Document Header and content owner at message level must be the same in the GDSN XML message.
<p>Global_Local_Attributes_Spec/depth/value Global_Local_Attributes_Spec/grossWeight/value Global_Local_Attributes_Spec/width/value Global_Local_Attributes_Spec/diameter/value Global_Local_Attributes_Spec/drainedWeight/value Global_Local_Attributes_Spec/netWeight/value Global_Local_Attributes_Spec/height/value layerHeight (Attribute not found)</p>	New	None of the child items' largest measurements is allowed to be larger than 5 times the largest measurement of the item. Only applies to tradeItemMeasurements class. The purpose of this rule is to find errors of data entry, for example: incorrect UOM.
<p>Global_Attributes_Spec/IsTradeItemAConsumerUnit Global_Attributes_Spec/netContent/value</p>	New	For TMs Australia, New Zealand, Sweden, Hungary, Netherlands, Canada and US; netContent must be populated when isTradeItemAConsumerUnit = true
<p>Global_Local_Attributes_Spec/percentageOfAlcoholPerVolume Global_Attributes_Spec/BaseUnitIndicator Global_Attributes_Spec/globalClassificationCategory/code (GPC)</p>	New	The percentageOfAlcoholByVolume must be populated for all items on the lowest level of the hierarchy where isTradeItemABaseUnit = true and classificationCategoryCode is a brick in the 50202200 class except for bricks 10000142 and 10000143.
layerHeight (Attribute not found)		For Sweden TM, layerHeight must have the same value as one of the values in width, depth or height of the child item.
Global_Local_Attributes_Spec/suggestedRetail/basisPerUnit/uom	New	For Sweden TM, this may be specified with the

		<p>following units of measures:</p> <ul style="list-style-type: none"> <li>kilogram</li> <li>gram</li> <li>metre</li> <li>millimetre</li> <li>millilitre</li> <li>litre</li> <li>square metre</li> <li>cubic metre</li> <li>piece</li> </ul>
<p>Global_Local_Attributes_Spec/isOrderableUnit/value</p> <p>Global_Local_Attributes_Spec/alternateItemIdentification/id</p>	New	<p>For Sweden TM, if isTradeItemAnOrderableUnit = True, additionalTradeItemIdentificationValue may not have the same value on more than one Trade Item in the same item hierarchy</p>
<p>Global_Local_Attributes_Spec/packagingMaterial/code</p> <p>Global_Local_Attributes_Spec/packagingMaterial/composition/value</p> <p>Global_Attributes_Spec/BaseUnitIndicator</p>	New	<p>For Sweden TM, packagingMaterialCode and packagingMaterialCompositionQuantity are mandatory when isTradeItemABaseUnit = true, unless:</p> <p>Alternative 1: The item has the packagingTermsAndCondition = 12 (package recycling fee paid).</p> <p>Alternative 2: The item has the isPackagingMarkedReturnable = true .</p> <p>Alternative 3: The item has the packagingTypeCode = not packed / unpacked</p>
<p>Netherlands TM based rule</p>	New	<p>For target market 528 (the Netherlands,) if the GPC code of the product is different from any of the codes under segment 51000000 (Healthcare) and "isTradeItemAConsumerUnit" is populated with the value "True", then the GTIN of the product cannot be a GS1-14 Data Structure (i.e. the GTIN can never start with an indicator digit of 1-9)</p>
<p>Global_Attributes_Spec/ProductType (GDSN name is: tradeItemUnitDescriptor)</p> <p>Global_Local_Attributes_Spec/height/value</p>	New	<p>For TM 528 (Netherlands) when an item is identified as a Pallet</p>

		(PL) or Mixed Module (MX) in the 'tradeItemUnitDescriptor', the height of the item can not exceed 2600 mm
Global_Local_Attributes_Spec/groupDescription/text	New	If Target Market is Australia, Trade Item Group Identification Description MUST be provided for all GTINs
Global_Local_Attributes_Spec/taxRate/typeCode Global_Local_Attributes_Spec/percentageOfAlcoholPerVolume	New	For AU TM, If taxTypeCode = WET (Wine Equalisation Tax), percentageOfAlcoholByVolume must be populated
Global_Local_Attributes_Spec/partyReceivingPrivateDataGLN/value  publicReleaseDate - Attribute not found	New	For AU TM, 1. The partyReceivingPrivateData field cannot be populated when the communityVisibilityDate has been populated.  2. communityVisibilityDate cannot be specified for private data items.
Global_Local_Attributes_Spec/packagingMaterial/agency	New	For AU & NZ TMs, If the Packaging Material class is provided the Packaging Material Codelist Maintenance Agency must be provided and must be "E"
Global_Attributes_Spec/IsTradeItemAConsumerUnit Global_Local_Attributes_Spec/ProductName/text Global_Attributes_Spec/brandName	New	For TM Sweden, functionalName may not contain the same text as brandName. When validating, a space character should be added before and after brandName before searching for the same text in functionalName. This rule applies when isTradeItemAConsumerUnit=true and the target market is Sweden (752).
Global_Attributes_Spec/IsTradeItemAConsumerUnit Global_Local_Attributes_Spec/ProductName/text Global_Local_Attributes_Spec/productSize/descriptiveSize/text	New	For TM Sweden, functionalName may not contain the same text as tradeItemSizeDescription. When validating, a space character should be added before and after tradeItemSizeDescription

		before searching for the same text in functionalName. This applies when isTradeItemAConsumerUnit=true and the target market is Sweden (752).
Global_Local_Attributes_Spec/taxRate/taxRateApplicabilityCode	New	For Netherlands TM, The taxApplicabilityCode must be populated when target market includes 528 = Netherlands.
Global_Local_Attributes_Spec/stackingFactor Global_Local_Attributes_Spec/isDispatchUnit/value	New	For TM Sweden, stackingFactor is mandatory for Despatch Units in target market Sweden.
Global_Local_Attributes_Spec/ProductName/text	New	For TM Sweden, If populated, one instance has to be in Swedish for functionalName for TM Sweden.
Global_Local_Attributes_Spec/productSize/descriptiveSize/text	New	For TM Sweden, If populated, one instance has to be in Swedish for descriptiveSize for TM Sweden.
Global_Local_Attributes_Spec/shortDescription/languageCode Global_Local_Attributes_Spec/shortDescription/text	New	For TM Sweden, If populated, one instance has to be in Swedish for descriptionShort for TM Sweden.
Global_Local_Attributes_Spec/taxRate/agencyCode	New	For TM Sweden, The taxAgencyCode must be '9SE' if target market is Sweden.
Global_Local_Attributes_Spec/nonGTINPalletTier Global_Local_Attributes_Spec/nonGTINPalletHierarchy	New	For TM Australia, New Zealand and Hungary, QuantityOfTradeItemsPerPalletLayer and QuantityOfLayersPerPallet are conditionally required

**Note:** The Validations that are marked in **red** are not supported. The valid value TRANSPORT\_LOAD is not yet supported.

## 16. Appendix J: Global Data Synchronization Supply Side – Validation File

An updated list of properties in the “gdsSupplySideTradeItemFunctions.properties” file is given below. You are advised to maintain the same list in Global Data Synchronization environments apart from custom references that can be added towards the end of this file.

```
#Properties file to map the attributes and the validations
#####START GLOBAL ATTRIBUTES#####
Global_Attributes_Spec/BaseUnitIndicator=validateBaseForEach
Global_Attributes_Spec/brandOwnerGLN=validateFGLN
Global_Attributes_Spec/CanceledDate=validateDiscontinueDate
Global_Attributes_Spec/GlobalTradeItemNumber=validateFGTIN
Global_Attributes_Spec/GTINName/text=validateGTINNameText
Global_Attributes_Spec/Hi=validateHI
Global_Attributes_Spec/Hi=validateItemPackedIrrAndPackProd
Global_Attributes_Spec/Hi=validateItemPackedIrrandWeight
Global_Attributes_Spec/IsTradeItemAConsumerUnit=validateConsumerUnit
Global_Attributes_Spec/isTradeItemPackedIrregularly=validateItemPackedIrrAndPackProd
Global_Attributes_Spec/netContent/uom=validateMultiUOMValue
Global_Attributes_Spec/netContent/value=validateMultiValueUOM
Global_Attributes_Spec/netContent/value=validateNetWeightAndNetContent
Global_Attributes_Spec/Pack=validateItemPackedIrrAndPackProd
Global_Attributes_Spec/Pack=validatePackValue
Global_Attributes_Spec/packagingType/code=validatePackagingCodeAndWeight
Global_Attributes_Spec/packagingType/usableProductVolume/uom=validateMultiUOMValue
Global_Attributes_Spec/packagingType/usableProductVolume/value=validateMultiValueUOM
Global_Attributes_Spec/packagingType/weight/uom=validateMultiUOMValue
Global_Attributes_Spec/packagingType/weight/value=validateMultiValueUOM
Global_Attributes_Spec/Ti=validateHI
Global_Attributes_Spec/Ti=validateItemPackedIrrAndPackProd
Global_Attributes_Spec/tradeItemCompositionDepth/uom=validateMultiUOMValue
Global_Attributes_Spec/tradeItemCompositionDepth/value=validateItemPackedIrrandWeight
Global_Attributes_Spec/tradeItemCompositionDepth/value=validateMultiValueUOM
Global_Attributes_Spec/tradeItemCompositionWidth/uom=validateMultiUOMValue
Global_Attributes_Spec/tradeItemCompositionWidth/value=validateItemPackedIrrandWeight
Global_Attributes_Spec/tradeItemCompositionWidth/value=validateMultiValueUOM
#####Validations Global Flex Attributes#####
Global_Attributes_Spec/gpcBrickAttributes/gpcBrickAttributeValues/gpcBrickAttribute=validateGPCB
rickAttributes
Global_Attributes_Spec/gpcBrickAttributes/gpcBrickAttributeValues/gpcBrickAttributeValue=validat
eGPCBrickAttributes
Global_Attributes_Spec/gpcBrickAttributes/gpcBrickCode=validateGPCBrickAttributes
Global_Attributes_Spec/gslContextAttributes/characteristicsCategoryCode=validateGslContextAttrib
utes
Global_Attributes_Spec/gslContextAttributes/productCharacteristics/characteristicsCode=validateG
S1ContextCharacteristicsCodeAttributes
Global_Attributes_Spec/gslContextAttributes/productCharacteristics/characteristicsDescription=va
lidateGslContextMultiOccurAttribute
Global_Attributes_Spec/gslContextAttributes/productCharacteristics/characteristicsMeasurement/uo
m=validateGslContextCharacteristicsMeasurementAttribute
Global_Attributes_Spec/gslContextAttributes/productCharacteristics/characteristicsMeasurement/va
lue=validateGslContextAttributes
Global_Attributes_Spec/gslContextAttributes/productCharacteristics/characteristicsValue=validate
GslContextMultiOccurAttribute
#####Validations Global Flex Attributes Ends Here#####
#####END GLOBAL ATTRIBUTES#####
#####START LOCAL ATTRIBUTES#####
#Global_Local_Attributes_Spec/netWeight/value=validateNetWeightAndNetContent
#Global_Local_Attributes_Spec/volume/value=validateOrderingUnitIndicator
Global_Local_Attributes_Spec/agreedMaximumBuyingQuantity/dataRecipientGLN=validateDataRecipientG
LN
Global_Local_Attributes_Spec/agreedMinimumBuyingQuantity/dataRecipientGLN=validateDataRecipientG
LN
Global_Local_Attributes_Spec/alternateClassification/code=validateAlternateClassificationCode
Global_Local_Attributes_Spec/alternateItemIdentification/agency=validateAltIDMainAgencyAndNum
```

Global\_Local\_Attributes\_Spec/alternateItemIdentification/id=validateAltIDMainAgencyAndNum  
Global\_Local\_Attributes\_Spec/cataloguePrice/basisPerUnit/uom=validateCataloguePrice  
Global\_Local\_Attributes\_Spec/cataloguePrice/basisPerUnit/value=validateCataloguePrice  
Global\_Local\_Attributes\_Spec/cataloguePrice/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/cataloguePrice/effectiveStartDate=validateCataloguePrice  
Global\_Local\_Attributes\_Spec/cataloguePrice/price/currency=validateCataloguePrice  
Global\_Local\_Attributes\_Spec/cataloguePrice/price/value=validateCataloguePrice  
Global\_Local\_Attributes\_Spec/cataloguePrice/price/value=validateCataloguePriceEffectiveEndDate  
Global\_Local\_Attributes\_Spec/color/agency=validateColor  
Global\_Local\_Attributes\_Spec/color/code=validateColor  
Global\_Local\_Attributes\_Spec/color/description/text=validateColor  
Global\_Local\_Attributes\_Spec/CouponFamilyCode=validateCouponFamilyCode  
Global\_Local\_Attributes\_Spec/deliveryToDCTemperatureMaximum/dataRecipientGLN=validateDataRecipie  
ntGLN  
Global\_Local\_Attributes\_Spec/deliveryToDCTemperatureMaximum/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/deliveryToDCTemperatureMaximum/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/deliveryToDCTemperatureMinimum/dataRecipientGLN=validateDataRecipie  
ntGLN  
Global\_Local\_Attributes\_Spec/deliveryToDCTemperatureMinimum/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/deliveryToDCTemperatureMinimum/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/deliveryToMarketTemperatureMaximum/dataRecipientGLN=validateDataRec  
ipientGLN  
Global\_Local\_Attributes\_Spec/deliveryToMarketTemperatureMaximum/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/deliveryToMarketTemperatureMaximum/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/deliveryToMarketTemperatureMinimum/dataRecipientGLN=validateDataRec  
ipientGLN  
Global\_Local\_Attributes\_Spec/deliveryToMarketTemperatureMinimum/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/deliveryToMarketTemperatureMinimum/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/depth/uom=validateDimensionsUOM  
Global\_Local\_Attributes\_Spec/depth/value=validateDimensionsValue  
Global\_Local\_Attributes\_Spec/diameter/uom=validateDimensionsUOM  
Global\_Local\_Attributes\_Spec/discontinueDate=validateDiscontinueDate  
Global\_Local\_Attributes\_Spec/drainedWeight/uom=validateWeightUOM  
Global\_Local\_Attributes\_Spec/EANUCC/EANUCCCode=validateEANUCCCode  
Global\_Local\_Attributes\_Spec/EANUCC/EANUCCType=validateEANUCCCode  
Global\_Local\_Attributes\_Spec/endAvailabilityDate/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/endAvailabilityDate/value=validateAvailabilityDate  
Global\_Local\_Attributes\_Spec/endDateMaximumBuyingQuantity/dataRecipientGLN=validateDataRecipient  
GLN  
Global\_Local\_Attributes\_Spec/endDateMinimumBuyingQuantity/dataRecipientGLN=validateDataRecipient  
GLN  
Global\_Local\_Attributes\_Spec/endDateTimeOfExclusivity/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/fatContent/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/fatContent/value=validateFatContentBasisOfMeasure  
Global\_Local\_Attributes\_Spec/fatContent/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/fatContentBasisOfMeasure/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/fatContentBasisOfMeasure/value=validateFatContentBasisOfMeasure  
Global\_Local\_Attributes\_Spec/fatContentBasisOfMeasure/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/firstArrivalDate=validateArrivalDate  
Global\_Local\_Attributes\_Spec/firstDeliveryDateTime/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/genericIngredientStrength/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/genericIngredientStrength/value=validateGenericIngredientAndStrengt  
h  
Global\_Local\_Attributes\_Spec/genericIngredientStrength/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/goodsPickUpLeadTime/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/goodsPickUpLeadTime/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/goodsPickUpLeadTime/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/grossWeight/uom=validateWeightUOM  
Global\_Local\_Attributes\_Spec/grossWeight/value=validateGrossWeight  
Global\_Local\_Attributes\_Spec/groupDescription/text=validateTradeItemGroupDescription  
Global\_Local\_Attributes\_Spec/hazardousMaterial/flashPointTemperature/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/hazardousMaterial/flashPointTemperature/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/height/uom=validateDimensionsUOM  
Global\_Local\_Attributes\_Spec/height/value=validateDimensionsValue  
Global\_Local\_Attributes\_Spec/imageThumbnailFileName=validateImageThumbnailPathAndName  
Global\_Local\_Attributes\_Spec/imageThumbnailPath=validateImageThumbnailPathAndName  
Global\_Local\_Attributes\_Spec/importIdentification/importClassificationType=valideteImportTypeAnd  
Value  
Global\_Local\_Attributes\_Spec/importIdentification/importClassificationValue=valideteImportTypeAn  
dValue  
Global\_Local\_Attributes\_Spec/isDispatchUnit/dataRecipientGLN=validateDataRecipientGLN



Global\_Local\_Attributes\_Spec/isInvoiceUnit/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/isOrderableUnit/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/isTradeItemReorderable/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/isTradeItemSizeBasedPricing/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/lastArrivalDate=validateArrivalDate  
Global\_Local\_Attributes\_Spec/leadTime/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/leadTime/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/leadTime/value=validateLeadTimeValue  
Global\_Local\_Attributes\_Spec/minimumTradeItemLifespanFromArrival/value=validateMultiNonNegativeValue  
Global\_Local\_Attributes\_Spec/manufacturer/gln=validateFGLN  
Global\_Local\_Attributes\_Spec/materialComposition/materialAgencyCode=validateMaterialAgencyCodeAndMaterialCode  
Global\_Local\_Attributes\_Spec/materialComposition/materialCode/text=validateMaterialAgencyCodeAndMaterialCode  
Global\_Local\_Attributes\_Spec/materialComposition/materialCode/text=validateMaterialCodeAndContent  
Global\_Local\_Attributes\_Spec/materialComposition/materialContent/text=validateMaterialCodeAndContent  
Global\_Local\_Attributes\_Spec/materialWeight/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/materialWeight/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/maximumOrderQuantity/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/maximumStackingWeight/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/maximumStackingWeight/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/minimumOrderQuantity/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/minimumTradeItemLifespanFromArrival/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/minimumTradeItemLifespanFromProduction/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/netWeight/uom=validateWeightUOM  
Global\_Local\_Attributes\_Spec/nonGTINPalletGrossWeight/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/nonGTINPalletGrossWeight/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/nonGTINPalletGrossWeight/value=validateProductType  
Global\_Local\_Attributes\_Spec/nonGTINPalletHeight/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/nonGTINPalletHeight/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/nonGTINPalletHeight/value=validateProductType  
Global\_Local\_Attributes\_Spec/nonPackageDimensions/nonPackageSizeDimension/descriptiveSizeDimension/text=validateSizeDimensions  
Global\_Local\_Attributes\_Spec/nonPackageDimensions/nonPackageSizeDimension/sizeDimension/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/nonPackageDimensions/nonPackageSizeDimension/sizeDimension/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/nonPackageDimensions/nonPackageSizeDimension/sizeDimension/value=validateSizeDimensions  
Global\_Local\_Attributes\_Spec/numberOfItemsPerPallet=validateNumOfItemsPerPallet  
Global\_Local\_Attributes\_Spec/orderQuantityMultiple/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/orderQuantityMultiple/value=validateTradeQuantityValue  
Global\_Local\_Attributes\_Spec/orderSizingFactor/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/orderSizingFactor/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/orderSizingFactor/value=validateOrderSizingFactor  
Global\_Local\_Attributes\_Spec/organic/claimAgency=validateOrganicClaimAgencyAndCode  
Global\_Local\_Attributes\_Spec/organic/tradeItemCode=validateOrganicClaimAgencyAndCode  
Global\_Local\_Attributes\_Spec/packagingMaterial/agency=validatePackagingMaterial  
Global\_Local\_Attributes\_Spec/packagingMaterial/code=validatePackagingAgencyCode  
Global\_Local\_Attributes\_Spec/packagingMaterial/code=validatePackagingMaterial  
Global\_Local\_Attributes\_Spec/packagingMaterial/composition/uom=validateWeightUOM  
Global\_Local\_Attributes\_Spec/packagingMaterial/composition/value=validatePackagingMaterial  
Global\_Local\_Attributes\_Spec/packagingMaterial/returnableAssetCapacityContent/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/packagingMaterial/returnableAssetsContainedQuantity/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/packagingMaterial/returnableAssetCapacityContent/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/packagingMaterial/returnableAssetsContainedQuantity/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/packagingMaterial/returnablePackageDepositAmount/currency=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/packagingMaterial/returnablePackageDepositAmount/value=validateMultiValueCurrency

Global\_Local\_Attributes\_Spec/packagingMaterial/returnablePackageDepositCode=validateReturnablePackageDepositCode  
Global\_Local\_Attributes\_Spec/partyReceivingPrivateDataGLN/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/pegMeasurements/pegHoleNumber=validatePegMeasurementValues  
Global\_Local\_Attributes\_Spec/pegMeasurements/pegHorizontal/uom=validatePegMeasurementUOM  
Global\_Local\_Attributes\_Spec/pegMeasurements/pegHorizontal/value=validatePegMeasurementValues  
Global\_Local\_Attributes\_Spec/pegMeasurements/pegVertical/uom=validatePegMeasurementUOM  
Global\_Local\_Attributes\_Spec/pegMeasurements/pegVertical/value=validatePegMeasurementValues  
Global\_Local\_Attributes\_Spec/priceByMeasureType/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/priceComparisonContentTypes=validatePriceComparisonContentTypes  
Global\_Local\_Attributes\_Spec/priceComparisonMeasurement/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/priceComparisonMeasurement/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/priceComparisonMeasurement/value=validatePriceComparisonMeasurement  
Global\_Local\_Attributes\_Spec/pricingUPC=validatePricingUPC  
Global\_Local\_Attributes\_Spec/productSize/code=validateProductSizeCodeMainAgency  
Global\_Local\_Attributes\_Spec/productSize/descriptiveSize/text=validateDescriptiveSize  
Global\_Local\_Attributes\_Spec/productSize/maintenanceAgency=validateProductSizeCodeMainAgency  
Global\_Local\_Attributes\_Spec/productStrength/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/productStrength/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/productStrength/value=validateProductStrengthAndBasis  
Global\_Local\_Attributes\_Spec/productStrengthBasis/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/productStrengthBasis/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/productStrengthBasis/value=validateProductStrengthAndBasis  
Global\_Local\_Attributes\_Spec/replacedItemGTIN=validateFGTIN  
Global\_Local\_Attributes\_Spec/replacementItemGTIN=validateFGTIN  
Global\_Local\_Attributes\_Spec/retailPriceOnTradeItem/currency=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/retailPriceOnTradeItem/value=validateMultiValueCurrency  
Global\_Local\_Attributes\_Spec/securityTagLocation/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/securityTagLocation/value=validateForConsumableProd  
Global\_Local\_Attributes\_Spec/securityTagType/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/securityTagType/text=validateForConsumableProd  
Global\_Local\_Attributes\_Spec/startAvailabilityDate/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/startAvailabilityDate/value=validateAvailabilityDate  
Global\_Local\_Attributes\_Spec/startDateMaximumBuyingQuantity/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/startDateMinimumBuyingQuantity/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/storageHandlingHumidityMaximum/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/storageHandlingHumidityMaximum/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/storageHandlingHumidityMinimum/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/storageHandlingHumidityMinimum/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/storageHandlingTempMax/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/storageHandlingTempMax/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/storageHandlingTempMin/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/storageHandlingTempMin/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/SubBrand/text=validateSubBrand  
Global\_Local\_Attributes\_Spec/suggestedRetail/basisPerUnit/uom=validateSuggestedRetailUOM  
Global\_Local\_Attributes\_Spec/suggestedRetail/basisPerUnit/value=validateSuggestedRetail  
Global\_Local\_Attributes\_Spec/suggestedRetail/dataRecipientGLN=validateDataRecipientGLN  
Global\_Local\_Attributes\_Spec/suggestedRetail/effectiveStartDate=validateSuggestedRetail  
Global\_Local\_Attributes\_Spec/suggestedRetail/price/currency=validateSuggestedRetail  
Global\_Local\_Attributes\_Spec/suggestedRetail/price/value=validatePricingOnProduct  
Global\_Local\_Attributes\_Spec/suggestedRetail/price/value=validateSuggestedRetail  
Global\_Local\_Attributes\_Spec/suggestedRetail/price/value=validateSuggestedRetailEffectiveEndDate  
Global\_Local\_Attributes\_Spec/taxAmount/agencyCode=validateTaxAmount  
Global\_Local\_Attributes\_Spec/taxAmount/amountValue=validateTaxAmount  
Global\_Local\_Attributes\_Spec/taxAmount/currency=validateTaxAmount  
Global\_Local\_Attributes\_Spec/taxAmount/typeCode=validateTaxAmount  
Global\_Local\_Attributes\_Spec/taxAmount/typeDescription=validateTaxAmount  
Global\_Local\_Attributes\_Spec/taxRate/agencyCode=validateAgencyCode  
Global\_Local\_Attributes\_Spec/taxRate/rate=validateTaxRate  
Global\_Local\_Attributes\_Spec/taxRate/typeCode=validateTaxRate  
Global\_Local\_Attributes\_Spec/taxRate/typeDescription=validateTaxRate  
Global\_Local\_Attributes\_Spec/volume/uom=validateMultiUOMValue  
Global\_Local\_Attributes\_Spec/volume/value=validateMultiValueUOM  
Global\_Local\_Attributes\_Spec/width/uom=validateDimensionsUOM  
Global\_Local\_Attributes\_Spec/width/value=validateDimensionsValue  
Global\_Local\_Attributes\_Spec/width/value=validateDepthWidthForNonConsumerItems  
Global\_Local\_Attributes\_Spec/isDispatchUnit/value=validateDispatchUnit  
Global\_Local\_Attributes\_Spec/taxRate/taxRateApplicabilityCode=validateTaxRateAppCode

```
Global_Local_Attributes_Spec/percentageOfAlcoholPerVolume=validatePercentageAlcohol
Global_Local_Attributes_Spec/packagingMaterial/returnablePackageDepositCode=validateReturnablePa
ckageDepositCode
Global_Local_Attributes_Spec/shortDescription/text=validateShortDescription
Global_Local_Attributes_Spec/nonGTINPalletTi=validatePallet
Global_Local_Attributes_Spec/nonGTINPalletHi=validatePallet
Global_Local_Attributes_Spec/height/value=validateHeight
#####END LOCAL ATTRIBUTES#####
#####Methods TM Core Flex Attributes#####
TM_Core_Extension_Attribute_Spec/electricalUsage/groupNodes/electricalUsageClassModeCode=validat
eElectricalUsageClassMode
TM_Core_Extension_Attribute_Spec/electricalUsage/groupNodes/maximumElectricalUsageClassModeValue
/uom=validateElectricalUsageClassMode
TM_Core_Extension_Attribute_Spec/electricalUsage/groupNodes/maximumElectricalUsageClassModeValue
/value=validateElectricalUsageClassMode
TM_Core_Extension_Attribute_Spec/nestingDirection=validateNestingDirectionType
TM_Core_Extension_Attribute_Spec/nestingType=validateNestingDirectionType
TM_Core_Extension_Attribute_Spec/tradeItemOrientation/orientationPreferenceSequence=validateOrie
nTypeAndPrefSeq
TM_Core_Extension_Attribute_Spec/tradeItemOrientation/orientationType=validateOrienTypeAndPrefSe
q
#####Methods TM Core Flex Attributes#####
```

## 17. Appendix K: Related Documentation

The following documents were referred to in deriving the requirements for this fix pack. These documents are available on the 1SYNC, SA2 WorldSync and GDSN websites.

- 1SYNC documents and specifications
  - 1SYNC 6.8 XML Schema - IM\_R6.8\_1SYNC\_XML\_Schemas\_DRAFT\_12-22-2011.zip
  - 1SYNC 6.8 Release Notes - IM\_R68 Release Notes v1.pdf
  - 1SYNC MR5 Delta Document - 1SYNC Delta Doc\_v1.xls
  - 1SYNC Participant Dictionary - IM\_Participant\_Dictionary\_R6.7.4v1.pdf
  - 1SYNC Data Source Guide - Data\_Source\_1SYNC\_XML\_Guide\_MR5v1.pdf
  - 1SYNC Valid Values - 1SYNC\_IM\_Valid\_Values\_R6.7.4v1.xls
  - 1SYNC Validations - IM\_Validations\_Document\_R6.7.4v1.xls
  
- SA2 WorldSync documents and specifications
  - GDSN 2.8 Schema - gdsn\_implementation\_package\_bms\_2.8
  - SA2 datamodel and code list - sa2\_worldsync\_data\_dictionary\_v2.8\_2
  - SA2 presentation - differences\_bms\_versions\_2\_8\_to\_2\_7\_customerversion.pptx
  
- GDSN references
  - Code list - <http://gdd.gs1.org/gdd/public/codelists.asp>

## 18. Appendix Z: Terms and Acronyms

The following are the terms and acronyms used in this document.

TERM OR ACRONYM	DESCRIPTION
CIC	Catalog Item Confirmation – A GS1 message used by recipients to send confirmation messages back to the source about particular items. A confirmation message can be Accept, Review, Reject, or Synchronize.
CIN	Catalog Item Notification – A GS1 message used to communicate item information. A CIN is sent from a source data pool to a recipient data pool
CIP	Catalog Item Publication – A GS1 message used by a source to publish items to a recipient via a source data pool.
CIS	Catalog Item Subscription – A GS1 message used by recipients to subscribe to item information at the recipient data pool.
CISR	Catalog Item Subscription Response – A GS1 message sent from the recipient datapool to the recipient to confirm that a subscription has been processed and will be sent to the Global Registry.
Data Pool	Repositories of data where trading partners can obtain, maintain, and exchange information on items and parties in a standard format.
Global Attributes	A global attribute indicates that the attribute is relevant for business cases around the world and does not change across different variants of the same item.(For example, GTIN)
Global-Local Attributes or Target Market Attributes	Global-Local Attributes are to 1Sync’s Target Market attributes. These attributes may have different values depending on the geography. For example, VAT tax values, 1.00 in France, 1.05 in Belgium.
Global Location Number (GLN)	This is a unique 13-digit number used to identify a trade location. The first seven digits represent the company prefix, the next five digits represent the trade location, and the last digit is the check digit.
Global Trade Item Number (GTIN)	This is a unique 14-digit number used to identify trade items. The first 13 digits represent the item reference number and the last digit is the check digit.
GS1 Response Messages	Response messages sent to confirm GS1 processing of the CIS, CIC, and RFCIN messages.
Information Provider (IP)	Information provider indicates the information owner. For example, a distributor, broker, manufacturer or franchisee. The retailer could receive information from sellers and this field indicates the information owner.
Recipient	The party responsible for subscribing and receiving items published to them by a source. Recipient is also referred to as buyer, retailer or demand-side
RFCIN	Request for Catalog Item Notification – A GS1 message used by a recipient to request a copy of previously received items or to erase a rejected status on an item.
Source	The party responsible for creating and publishing items to recipients. Also referred to as supplier, vender or supply-side.

Target Market (TM)	Geographic areas in which a trade item is available for sale.
Trade Item	Any product or service for which there is a need to retrieve pre-defined information and that may be priced, ordered or invoiced at any point in any supply chain.
Trading Partner	A party to transact in the supply chain, such as a supplier (seller) or a customer (buyer).

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