Ahold USA

Data Synchronization Implementation Guide

Version 4

REVISION HISTORY

Date	Ver #	Description of Change	Author
12-08-2010	1	Initial document	C. Macias
10-18-2011	2	Revised with Ahold-specific requirements	M. Atkins
09-14-2012	3	Revised with attribute cross-reference to itemMaster values	M. Atkins
12-04-2012	4	Revised SDP GLN info, dynamic asst, GLN change, and ti/hi requirements	M. Atkins

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1   OVERVIEW

This document is intended to be used by vendors who will be sending item data to Ahold USA (AUSA) using electronic Data Synchronization with the Global Data Synchronization Network (GDSN®).

Data Synchronization is the electronic transfer of standardized product information between Trading Partners and the continuous synchronization of the data over time.
The benefits of data synchronization include:
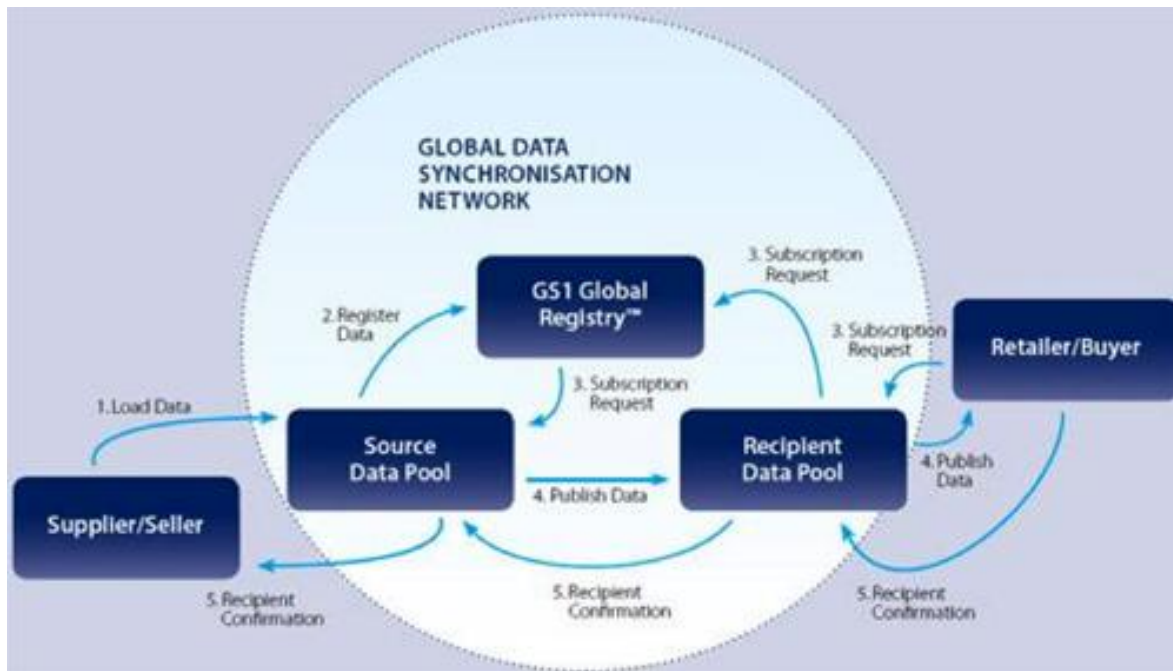
Easier Administrative Data Handling

- Streamline new item data submission
- Facilitate collaborative item attribute maintenance
- More efficient administrative activities
- Less time spent maintaining catalogues
- Less need for cross-reference tables
- Fewer invoice disputes
- Fewer order defects

Smoother Logistics

- Savings from more accurate weights & measures
- Reduction in shipment receiving errors
- Optimized location ship notice
- Reduction in shrink

The following diagram depicts the standard message choreography within the GDSN.

2   AHOLD USA DATA SYNCHRONIZATION INFORMATION

2.1   Primary Data Synchronization Contacts

Onboarding:
Name: Tom Kornfeld
Phone: 864.987.5683
Email: ausa.gdsnsupport.group@ahold.com

Technical:
Name: Mickey Atkins
Phone: 864.987.5757
Email: ausa.gdsnsupport.group@ahold.com

2.2   Ahold USA GLN - Publish To

Production: 0688267000003

Note: Item publications sent to Ahold USA will trigger item synchronization for the following divisions:
- American Sales Company (separate database repository)
- Giant Carlisle
- Giant Landover
- Stop & Shop (New England and New York)

1WorldSync (recent merger between 1SYNC and SA2WorldSync) is the recipient data pool for Ahold USA.

2.3   Key Points to Synchronizing Items with Ahold USA

CIN message types:
- <u>Initial Load message</u> : Used for existing items in the Ahold USA PIM repository.
- <u>New Item message</u> : Not currently used for new item placement. Please publish in advance of item introduction to Ahold USA. New Item message will be held up to 90 days looking for a match in the AUSA PIM repository. If no match is found after 90 days, the message will be rejected.
- <u>Change and Correct message</u>: Once an item is published, a Change or Correct message is required for any minor modifications to ensure the item remains synchronized with the most current attribute values.   If the GDSN item hierarchy changes, **AUSA requests a CIN delete** for the old hierarchy prior to publishing the new item hierarchy.
- <u>Delete message</u>: Once an item is published, a CIN delete will remove the hierarchy and break synchronization on that hierarchy. If the information provider GLN changes, **AUSA requests a CIN delete** for the old IP GLN prior to re-publication under the new IP GLN.

Scope of item synchronization:
- Ahold USA is attempting to synchronize item attribution with CPG manufacturers on all active items, some of which may be currently purchased from third parties. We realize the use of a third party makes it difficult for the manufacturer to identify which items Ahold currently carries; for this scenario Ahold will provide an item list to ensure all items are published for synchronization. Since this attribution will be used in the future for customer facing applications and data accuracy is critical, we will rely on the manufacturer of the product to supply this information and protect the integrity of the brand.
- Ahold USA is currently implementing a Product Item Management (PIM) solution in support of the GDSN initiative. When fully implemented, this solution has expanded capability beyond our previous repository (ASC excluded)
  - Integration of complex item hierarchies, i.e. shippers, displays, mixed modules, etc. **(excluding DYNAMIC ASSORTMENTS)**
  - Integration of DSD as well as warehouse items
  - Systemic RFCIN generation for previously rejected items
  - New Retail item creation from the submitted GDSN supplier item
  - Business visibility of all GDSN core item attributes; GDSN extensions noted in the documentation are available as well
  - Online attribute comparison between existing item and GDSN-submitted changed item
  - End user capability to trigger GDSN review with specific CIC reason code/description

Future Dated Changes:
- Ahold cannot currently handle future-dated changes. The internal process does not interrogate the date-specific fields; consequently, all changes are effective immediately.

Requested Item Attribution:
- Ahold has the capability to store and maintain all GDSN core item attributes. If suppliers can populate core attributes **with accurate data**, we strongly encourage the suppliers to include as many core attributes as possible. However, the attributes listed in section 4 provide tangible business benefit in the new item setup/decision process and ongoing supply chain functions; Ahold requests that suppliers populate the attributes at all applicable hierarchy levels. **Please include TI/HI information in all publications, as these attributes are critical to our process.** Ahold now integrates the **Food and Beverage extension** and requests that suppliers provide the attribution in this extension if applicable to the product lines.
- Ahold requests that each GDSN publication include all applicable levels of hierarchy; this includes the consumer unit, the inner pack if present, the case or display, and the pallet or mixed module if the GTIN exists. We recognize that some suppliers may convey multiple pallet configurations for the same orderable item. The ti/hi values will be used to identify the pallet configuration being purchased to ensure the correct hierarchy is synchronized, and the alternate hierarchies will be rejected.

3   STEPS TO BEGIN SYNCHING YOUR DATA WITH AHOLD USA

(Skip to step #3 if you are already synchronizing item data with retailers utilizing the GDSN)
1. Join a GDSN-certified data pool. A list of data pools can be found at:
http://www.gs1.org/docs/gdsn/gdsn_certified_data_pools.pdf
> • For your convenience, 1WorldSync can be reached at 866-280-4013, option 1 or
> mailto:customersupport@1worldsync.com

2. Start registering your items with your data pool.

3. Complete the Ahold USA GDSN Supplier Onboarding Form in section 5 and return to the email address at the bottom of section 5.

4. Based on the information provided in the GDSN Supplier Onboarding Form, Ahold USA will:
- Establish a GLN-level subscription for the new supplier GLN(s)
- Auto-generate an email notification from the Ahold USA GDSN support email address to the supplier primary contact confirming the subscription setup
- Provide list of active items if necessary- Ahold USA prefers to receive publication of the entire supplier catalog rather than supply a current list of active items in the Ahold USA repository due to item list volatility. However, if the supplier prefers AUSA can provide a list of current active items.
- Request publication of Initial Load CIN messages for the list of active items.

5. **Publish New and Existing Items through GDSN to Ahold USA (GLN 0688267000003)**
- For any new items, please publish as NEW prior to item introduction to Ahold USA
- For items already in the Ahold USA repository, publish Initial Item Load to synchronize
- Please populate the TI/HI, UPC, dimension, and weight attributes with accurate information
- As attribute discrepancies are identified in the item data, send a correction/change to resolve the attribute issue
- In the event the supplier needs to change the GDSN item hierarchy, **AUSA requests a CIN delete** for the old hierarchy prior to publishing the new item hierarchy
- Continue to update item data through GDSN to stay synchronized with Ahold USA
- If the supplier changes the information provider GLN and/or the source data pool, **AUSA requests a CIN delete** for each published hierarchy prior to re-publication; this approach will ensure the integrity of our PIM repository and the GDSN sync list
- If the supplier divests product lines to another supplier, **AUSA requests a CIN delete** from the current supplier for each divested item prior to re-publication by the new supplier

6. Ahold USA GDSN integration process will:
- Upon receiving publication, Ahold USA will return an ACCEPT CIC
- Attempt to match items published to existing items in the Ahold USA repository
- Generate attribute compare reports for business review and approval
- Upon business approval, certify publications and generate Confirmation (CIC) responses based upon the match process noted above

7. Manage Confirmation (CIC) responses from Ahold USA

- <u>Accepted</u>: Publication has been received and is currently involved in the matching/certification process.
- <u>Synchronised</u>: A match was found and the Ahold USA Product Item Management (PIM) repository is in alignment with the message.
- <u>Rejected</u>: No match was located in the Ahold USA PIM repository and subsequent updates are not desired.
- <u>Review</u>: Ahold USA has identified an item attribute discrepancy which requires supplier intervention for resolution. The GDSN support team will contact you regarding the next step.

4   AHOLD USA ATTRIBUTE REQUIREMENTS

GDSN Attribute Name	Ahold PIM Attribute Name	itemMaster Attribute Name
tradeItemUnitDescriptor	Item Unit Descriptor	
tradeItemIdentification/gtin	UPC/GTIN/PLU/NDC	
additionalTradeItemIdentification/additionalTradeItemIdentificationValue	GDSN VPN	Manufacturer SKU
informationProvider/gln	GLN	
nameOfInformationProvider	Information Provider Name	
brandName	GDSN Brand	Brand
descriptionShort/description/shortText	Vendor Item Description Short	
functionalName/description/shortText		
tradeItemDescription/text	Vendor Item Description Long	Long Description
Manufacturer/gln		
nameOfManufacturer	GDSN Manufacturer	Manufacturer
retailPriceOnTradeItem/priceAmount		
colorDescription/description/text		
tradeItemCountryOfOrigin/countryISOCode	Country Of Origin	Country Of Origin
couponFamilyCode		
firstOrderDate		
minimumTradeItemLifespanFromTimeOfArrival	Shelf Life	
minimumTradeItemLifespanFromTimeOfProduction	Life Span from Production	
dangerousGoodsHazardousCode	Hazmat Code	
unitedNationsDangerousGoodsNumber		
dangerousGoodsTechnicalName/text		
quantityOfCompleteLayersContainedInATradeItem	Vendor Hi	
quantityOfLayersPerPallet	Vendor Hi (non-GTIN)	
quantityOfTradeItemsContainedInACompleteLayer	Vendor Ti	
catalogueItemChildItemLink quantity	Containment	
quantityOfTradeItemsPerPalletLayer	Vendor Ti (non-GTIN)	
depth/measurementValue/unitOfMeasure	(Product Length/Depth uom)	(Package Dimension Length uom)
depth/measurementValue/value	Product Length/Depth	Package Dimension Length
grossWeight/measurementValue/unitOfMeasure	(Gross Weight uom)	(Package Dimension Weight uom)
grossWeight/measurementValue/value	Gross Weight	Package Dimension Weight
height/measurementValue/unitOfMeasure	(Product Height uom)	(Package Dimension Height uom)
height/measurementValue/value	Product Height	Package Dimension Height
width/measurementValue/unitOfMeasure	(Product Width uom)	(Package Dimension Width uom)
width/measurementValue/value	Product Width	Package Dimension Width
netContent/measurementValue/unitOfMeasure	Package UOM	(Package Information Size uom)
netContent/measurementValue/value	Package Size	Package Information Size
netWeight/measurementValue/unitOfMeasure	(Net Weight uom)	(Net Weight uom)
netWeight/measurementValue/value	Net Weight	Net Weight
orderingLeadTime/measurementValue/unitOfMeasure	(Lead Time uom)	
orderingLeadTime/measurementValue/value	Lead Time	
orderQuantityMaximum	Max Order Qty	
orderQuantityMinimum	Min Order Qty	
orderSizingFactor/measurementValue/unitOfMeasure	(Cube Adjusted Weight Factor uom)	
orderSizingFactor/measurementValue/value	Cube Adjusted Weight Factor	
agreedMinimumBuyingQuantity	Min Order Qty	
agreedMaximumBuyingQuantity	Max Order Qty	
goodsPickUpLeadTime/measurementValue/unitOfMeasure		
goodsPickUpLeadTime/measurementValue/value	Pickup Lead Time	
cataloguePrice/tradeItemPrice/value		
suggestedRetailPrice/tradeItemPrice/value		
eANUCCCode/code	UPC/GTIN/PLU/NDC	UPC Code
eANUCCCode/type	Item Number Type	
classificationCategoryCode		GS1 Category (concat)
classificationCategoryName		GS1 Category (concat)

5   AHOLD USA GDSN SUPPLIER ONBOARDING FORM

Supplier Name	
Supplier Information Provider GLN (please include all GLN's under which you will publish items to Ahold USA; your input will be used to establish subscriptions)	
Ahold USA Divisions with which supplier does business, i.e. ASC/Giant Carlisle/Giant Landover/Stop & Shop	
Ahold USA Internal Vendor Number(s)	
Supplier GDSN Primary Contact Name	
Supplier GDSN Primary Contact Name	
Supplier GDSN Primary Contact Email Address	
Supplier GDSN Primary Contact Phone Number	
Supplier Source Data Pool Name	
Supplier Source Data Pool GLN (please note this attribute will be matched against the <sourceDataPool> attribute on inbound publications. AUSA validates the SDP GLN matches the value we have on file to ensure the SDP GLN has not changed for this supplier. Please indicate if multiple source data pools are utilized by this supplier; please note some source data pools have multiple GLN's.)	

Complete and submit to ausa.gdsnsupport.group@ahold.com.