



Target

Data Synchronization Implementation Guide

Version 6



Target Data Synchronization Implementation Guide

REVISION HISTORY

Date	Ver #	Description of Change	Author
04-20-2010	1	Initial document	R. Anderson
05-12-2010	2	Updated	R. Anderson
08-01-2011	3	Updated w/ IMN detail and changes in process	J. Carley
05-03-2012	4	Updated	S. Rouge
01-01-2013	5	Updated	J. Lavik
03-04-2013	6	Trading Partner Form now submitted online; added link in Section 3 and removed form	A. Biddle



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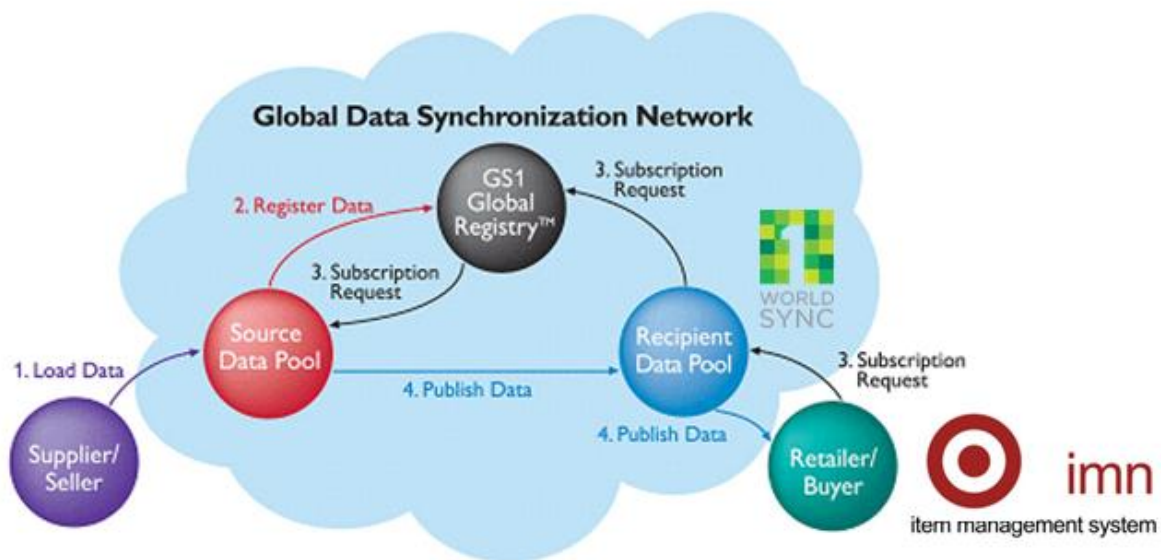
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1 OVERVIEW

Data Synchronization is the electronic transfer of standardized product and location information between trading partners and the continuous synchronization of that data over time. The Global Data Synchronization Network (GDSN) is an automated, standards based global environment that enables secure and continuous data synchronization, allowing all partners to have consistent item data in their systems at the same time.



Target’s goal is to establish Global Data Synchronization (GDS) as the preferred method of item setup and maintenance leading to improved efficiencies and item accuracy. Our objectives include developing a scalable and repeatable supplier onboarding program that provides a positive experience for all of Target’s supplier community.

Suppliers that leverage GDS with Target can save significant time and manual effort during the new item introduction process. Roughly half of the attributes that Target requires for new items can be supplied via GDS – saving approximately four minutes of supplier manual data entry in our Item Management system (IMN) per new item.



2 TARGET’S DATA SYNCHRONIZATION INFORMATION

2.1 Primary Data Synchronization Contact

Name: Target GDS Data Operations

Email: Target.GDS@target.com

2.2 Target’s GLN - Publish To

Production: 0085239000007

Data Pool: 1WORLDSYNC

2.3 Target’s Data Sync Requirements

Suppliers should publish items that Target currently carries or have agreed to carry in the near future. Partner with the Target account team (sales team) at your company to obtain an up-to-date list of items carried by Target and confirm the items have a GTIN hierarchy accepted by Target.

2.4 Acceptable GTIN hierarchies

Supplier publications must be in one of the following GTIN hierarchies in order for Target to translate it our Item Management system (IMN):

4 level GTIN Hierarchies	PL/CA/PK/EA	PL/DS/PK/EA	MX/DS/PK/EA	MX/DS/PK/EA
3 level GTIN Hierarchies	PL/CA/EA	PL/DS/EA	MX/CA/EA	MX/DS/EA
	CA/PK/EA	DS/PK/EA		
2 level GTIN Hierarchies	CA/EA	DS/EA	PK/EA	
1 level GTIN Hierarchies	EA			

Key:

PL = Pallet

CA = Case

PK = Pack

EA = Each

MX = Modified Pallet

DS = Display Shipper

Target **cannot** support a GTIN hierarchy with multiple Case, Inner Pack or Each options. Target will **not** use the Global Data Synch network for assortment items, display shippers, or bonus packs.



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3 SYNCING YOUR DATA WITH TARGET

3.1 INITIAL LOAD

1. Have your accurate item data loaded into your home data pool and insure it is ready for publication
 - Contact your data pool for any education you might require to complete this step.
2. Review attribute requirements in Section 4 of this document to insure you can meet our requirements
3. Complete and submit the [Target Trading Partner Form](#)¹ online.
4. Request complete list of items carried by Target from your internal Target Account team.
5. Target will create a subscription for your Information Provider GLN/Target Market US and confirm readiness to accept the initial publication.
 - Publish items to the Target GLN in production: **0085239000007**
 - Publish as **Initial Load**.
 - Publish only items carried by Target.
6. E-mail Target.GDS@target.com to provide notification of publication.
7. Target and Supplier will work together to manage Catalogue Item Confirmation (CIC) Responses from Target.
 - CIC with state of **“SYNCHRONIZED”** is sent when item match is found and data aligns
 - CIC with state of **“REVIEW”** is sent if there are data discrepancies that need attention by Supplier or Target Merchant. The REVIEW will contain a message with the issue.
 - CIC with state of **“REJECT”** is sent when GTIN hierarchy is invalid or UPC Code does not match any Target item
8. Once all eligible items are “synchronized” Target will consider supplier complete
9. Continue to send all changes for all items through GDS. Target Merchants will handle item approvals and rejections as necessary.

3.2 NEW ITEM SETUP

1. Target awards business to Supplier
2. Supplier Sales Rep advises Supplier GDS Rep to publish
3. Supplier GDS Rep publishes the item with a publication type of “New” to Target’s GLN and advises Supplier Sales Rep
 - a. Target processes GDS publications every 4 hours so it may not immediately be seen in our system
4. Supplier Sales Rep logs into [Partners Online](#) and the IMN application to “top off” and submit item

¹ <http://pdm.1sync.org/customers/target/target-trading-partner-form>



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- a. Task = Finish Item Setup
- b. Source = GDS
- c. Step-by-step guided process to complete additional required fields
 - i. GDS attributes will already be populated
5. Target merchant reviews and approves item setup
 - a. CIC Message SYNCHRONIZED is sent for the GDS attributes synched
 - b. CIC Message REVIEW is sent if additional information is needed. Merchant has the option to include comments explaining next steps needed.

3.3 MODIFY/CORRECT

1. Supplier logs into [Partners Online](#) and accesses the Item Management Application (IMN)
2. Supplier searches for items in IMN to review for accuracy or updates
3. Supplier submits any necessary changes via GDS for any Target GDS item attributes
 - a. If attribute needing maintenance is not a GDS synched attribute, Supplier Sales Rep must update item information via IMN
4. GDS Publications are routed to the appropriate Target merchandising department associated with the barcode on the request.
5. If change is within a certain threshold, it will automatically be accepted by the system with no merchant action needed.
6. If change does not meet the auto approval thresholds, the merchant approves or rejects the item update that has been submitted from the Supplier via an IMN tasklist
 - a. If a Target merchant rejects a GDS submitted item change in IMN, then it will generate a REVIEW CIC message back to the supplier. They also have the option to include comments explaining the rejection.
 - b. If a Target merchant approves a GDS submitted item change in IMN, it will be synched to our item system and a SYNCHRONIZED CIC message will be sent back to the supplier
 - c. If supplier submits a GTIN hierarchy not accepted by Target or a UPC code that does not match any in our system, Target will send a REVIEW CIC message with description of error.
7. Any change to Case or Inner Pack quantity will require merchant review.
8. Suppliers can NOT request cost changes via GDS.

3.4 WITHDRAWAL/DELETE

1. Target ignores withdrawal/delete messages sent via the GDSN.



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4 ATTRIBUTE REQUIREMENTS FOR SYNCING WITH TARGET

GDSN Attribute Name	Target Attribute Name	1WorldSync Attribute Name (Optional)	Required on what level of the hierarchy
gtin	GTIN	gtin	Pallet GTIN
hi	HI	hi	Pallet GTIN
ti	TI	ti	Pallet GTIN
depth	Pallet Depth	depth	Pallet GTIN
width	Pallet Width	width	Pallet GTIN
height	Pallet Height	height	Pallet GTIN
depth/uom	Pallet Dimensions UOM	depth/uom	Pallet GTIN
grossWeight	Pallet Weight	grossWeight	Pallet GTIN
grossWeight/uom	Pallet Weight UOM	grossWeight/uom	Pallet GTIN
gtin	GTIN	gtin	Case GTIN
TotalQuantityOfNextLowerLevelTradeItem	Vendor Case Pack (VCP) Quantity	TotalQuantityOfNextLowerLevelTradeItem	Case GTIN
Depth	Case (VCP) Depth	depth	Case GTIN
Width	Case (VCP) Width	width	Case GTIN
Height	Case (VCP) Height	height	Case GTIN
depth/uom	Casepack Dimensions UOM	depth/uom	Case GTIN
grossWeight	Case (VCP) Weight	grossWeight	Case GTIN
grossWeight/uom	Casepack Weight UOM	grossWeight/uom	Case GTIN
gtin	GTIN	gtin	Inner Pack GTIN
TotalQuantityOfNextLowerLevelTradeItem	Store Ship Pack (SSP) Quantity	TotalQuantityOfNextLowerLevelTradeItem	Inner Pack GTIN
depth	Inner Pack (SSP) Depth	depth	Inner Pack GTIN
width	Inner Pack (SSP) Width	width	Inner Pack GTIN
height	Inner Pack (SSP) Height	height	Inner Pack GTIN
depth/uom	Inner Pack (SSP) Dimensions UOM	depth/uom	Inner Pack GTIN
grossWeight	Inner Pack (SSP) Weight	grossWeight	Inner Pack GTIN



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grossWeight/uom	Innerpack Weight UOM	grossWeight/uom	Inner Pack GTIN
gtin	GTIN	gtin	Each GTIN
eanuccCode/code	Barcode	eanuccCode/code	Each GTIN
eanuccCode/type	Barcode Type	EANUCCCode/type	Each GTIN
productDescription	Vendor Description	productDescription	Each GTIN
globalClassificationCategory/code	GPC Brick	globalClassificationCategory/code	Each GTIN
brandName	GDS/EDI Brand	brandName	Each GTIN
depth	Depth	depth	Each GTIN
width	Width	width	Each GTIN
height	Height	height	Each GTIN
depth/uom	Dimensions UOM	depth/uom	Each GTIN
grossWeight	Weight	grossWeight	Each GTIN
grossWeight/uom	Weight UOM	grossWeight/uom	Each GTIN
netContent	Net Content	netContent	Each GTIN
netContent/uom	Net Content UOM	netContent/uom	Each GTIN
suggestedRetail/price	MSRP	suggestedRetail/price	Each GTIN
alternateItemIdentification/id	Manufacturer Style	alternateItemIdentification/id	Each GTIN



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5 CIC MESSAGES

CIC State	Status	Response/Action
Synchronized	MERCHANT APPROVAL OR AUTO APPROVAL	Item has been approved and can be considered 'Synchronized'.
Synchronized	MERCHANT APPROVED AND ACCEPTED BY GMS	Item has been approved and can be considered 'Synchronized'.
Review	MERCHANT APPROVED AND REJECTED BY GMS	We send the message 'MERCHANT APPROVED AND REJECTED BY GMS' for NEW items sent to us where the status is not ACTIVE ITEM, TEMPITEM or C. We also send the message for INITIAL LOAD, MODIFY and CORRECTION items where the status is not ACTIVEITEM.
Review	MERCHANT REJECTED	Target Merchant has rejected this item. Contact Target Merchant to research.
Review	ITEM SETUP IS ALREADY WITH THE MERCHANT	Item has already been sent and is awaiting approval by Target. If item has not been accepted or rejected within 5 days, follow-up with Target Merchant
Review	999 - BARCODE MATCH NOT FOUND	Barcode not found in Target Item system for message type INITIAL LOAD, MODIFY, or CORRECTION. Item may be tied to a different vendor number for the same supplier. Supplier should only be sending items tied to the vendor numbers associated to GLN subscriptions.
Review	BARCODE, VENDOR AND ITEM COMBINATION IS NOT ACTIVE IN ANY LOCATION	This item is not currently an active item for Target. Item could show as "active" at DC level but be on clearance or discontinued at store level
Review	BARCODE TYPE OTHER THAN UK/UP/EO/EN WILL NOT BE PROCESSED BY TARGET	Target requires a barcode at the Each level with one of the following values: UK/UP/EO/EN. For pharmaceutical suppliers, could be using UG for the each and UH for the case and our Item system cannot accommodate
Review	LWH FOR CIN EXCEEDS TARGET SPECIFIED[4,1] LIMITS OR WEIGHT IS EMPTY	Target has a limit on dimension attributes. Target requires case and pack dimensions AND weight be sent.
		Target requires a weight at every level of sent hierarchy. Supplier needs to submit at gross weight, but does not need to submit net weight.
CIC State	Status	Response/Action



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Review	CASE / PACK VALIDATION FAILED	Case/Pack dimensions or units not valid under Target rules. IMN doesn't account for the rotation of the Pack in relation to the Case. It just checks to make sure each Inner Pack dimension is less than or equal to the Case dimension and if that isn't true this error is generated.
Review	999: CANNOT ACCEPT COMPLEX HIERARCHY. CONTACT POL.HELP	Target does not accept hierarchies with multiple eaches. Target cannot support a GTIN hierarchy with multiple Case, Inner Pack, or Each options (typically what we consider an assorted item).
Review	NONE OR MORE THAN ONE VENDOR MAPPED FOR INCOMING GLN	Target does not subscribe to this supplier at this time. Contact Target.GDS@target.com
		Flag in Host table (GBL_DSINC_OBRD_F) is set to N. Can use Host report in Access to verify if this is the case.
Review	THE INCOMING CIN MESSAGE IS NOT IN TARGET ACCEPTED FORMAT	CIN does not adhere to Target format. Correct and resend.
Review	VENDOR REJECTED	Supplier sales rep has rejected this item in IMN.
Review	MESSAGE TYPE DELETE IS IGNORED	Target does not accept DELETE messages. Target merchant must make an item inactive.
Review	INVALID CIN	Check to make sure CIN sent is valid 1WorldSync CIN.
Review	UNKNOWN ITEM SERVICE EXCEPTION	Internal Target error communicating with the DB2 database. (Send to Target.GDS@target.com to track instances so we can see how frequently this is happening)
Review	UNKNOWN WBIMB EXCEPTION	Internal Target error. Contact Target.GDS@target.com to investigate.
Review	DECISION MATRIX DOES NOT CONTAIN THIS CONDITION	Target Item system cannot process this item. Contact Target.GDS@target.com to investigate.
Review	ITEM CREATE REQUEST HAS BEEN CREATED IN IMN:999 SIGN INTO IMN TO PROVIDE ADDITIONAL INFO	Supplier has sent item as NEW. Supplier Sales Rep must log into IMN via Partners Online to "top off" and submit the new item request to Target merchant.
Review	NO ITEM SETUP REQUEST EXIST IN THE REQUEST TABLE FOR THE SUPPLIED VENDOR BARCODE COMBINATION	A supplier submitted a message type = NEW for a barcode that already exists in IMN. They would need to re-submit this GDS request as an INITIAL LOAD, CHANGE, MODIFY, or CORRECTION.



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CIC State	Status	Response/Action
Review	CHANGE REQUEST HAS BEEN SUBMITTED IN IMN 999 – REQUIRES MERCHANT APPROVAL	An approval task has been created in IMN. The information sent by supplier was different than the information in our system. No action needed merchant must approve/reject request.
Review	CIC013:MERCHANT REJECTED:999 – REQUEST REJECTED BY SYSTEM DUE TO LATEST REQUEST FROM GDS	There is an existing GDS request still pending for an item when another request for the same item is received. The system rejects the first pending submission and updates the request for that item using the latest submission.