

USAID GLOBAL HEALTH SUPPLY CHAIN PROGRAM

PROCUREMENT AND SUPPLY MANAGEMENT

DATA SYNCHRONIZATION IMPLEMENTATION GUIDE

Version 1.2, April 2018



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This publication was produced for review by the United States Agency for International Development. It was prepared under the USAID Global Health Supply Chain Program-Procurement and Supply Management (GHSC-PSM) Contract No. AID-OAA-I-15-00004; Task Order 01 Contract No. AID-OAA-TO-15-00007; Task Order 02 Contract No. AID-OAA-TO-15-00009; Task Order 03 Contract No. AID-OAA-TO-15-00010; and Task Order 04 Contract No. AID-OAA-TO-15-00018.

Recommended citation: USAID Global Health Supply Chain Program-Procurement and Supply Management Single Award IDIQ. 2017. Data Synchronization Implementation Guide. Washington, D.C.

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ACRONYMS

CIC	Catalog Item Confirmation
CIN	Catalog Item Notification
EDI	electronic data interchange
FAQ	.....	frequently asked question
IT	.....	information technology
GDS	.....	global data synchronization
GDSN	.....	Global Data Synchronization Network
GHSC	.....	Global Health Supply Chain
GLN	.....	Global Location Number
GTIN	.....	Global Trade Item Number
MIS	.....	management information system
MO	.....	Member Organization
PSM	.....	Procurement and Supply Management
RHSC	.....	Reproductive Health Supplies Coalition
UNFPA	.....	United Nations Population Fund
USAID	.....	U.S. Agency for International Development

REVISION HISTORY

Date	Version No	Description of Change	Author
Nov 8, 2017	1.0	Initial Document	K. Roche
Jan 15, 2018	1.1	Disaggregated attributes by product type Updated target market instructions Clarified GTIN submission process	K. Roche

INTRODUCTION

Chemonics is acting on behalf of the U.S. Agency for International Development (USAID) to implement the Global Health Supply Chain (GHSC) – Procurement and Supply Management (PSM) project. The purpose of the project is to:

- Serve as the primary vehicle through which USAID will procure and provide health commodities for all USAID health programs, including but not limited to, HIV/AIDS, Malaria, Reproductive Health, and Maternal & Child Health; and
- Provide systems strengthening technical assistance to improve supply chain management and commodity security in partner countries.

Through the Project, life-saving health commodities will be delivered to many of the most vulnerable people in the world.

USAID has been investigating the use of global standards to improve the management of health commodity procurements for a number of years and has instructed GHSC-PSM to:

- Develop a contract requirement on the implementation of global standards for product identification, labeling, and data exchange;
- Seek to harmonize requirements and implementation timelines with other global stakeholders;
- Design its management information system (MIS) to support and exchange data leveraging global standards; and
- Support country governments with regulation on global standards, product authentication, and track and trace solutions.

GHSC-PSM has adopted and implemented the GS1 Global Data Synchronization Network™ (GDSN®) to receive item attribute information as the basis of our product catalog, and seeks the benefits of synchronizing product data with trading partners for both new and existing items. Using the GDSN process will help improve supply chain data quality and management for you and all of our trading partners. It will provide USAID-supported countries with the information they need to optimize decision making for GHSC-PSM order planning, procurement, shipping, and receiving. Master data received from synchronization will allow countries to make the best purchasing decisions when ordering life-saving commodities for global health programs across the world.

This document provides the process and methods to be used by GHSC-PSM and its suppliers in achieving the goal of data synchronization.

GHSC-PSM'S DATA SYNCHRONIZATION INFORMATION

PRIMARY DATA SYNCHRONIZATION CONTACT

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GHSC-PSM'S GLOBAL LOCATION NUMBER (GLN) – PUBLISH TO

GHSC-PSM's production GLN is **0858939007009**. Please note that the registered name associated with GHSC-PSM's GLN is Chemonics International.

GHSC-PSM'S DATA POOL

GHSC-PSM's GDSN data pool is 1WorldSync. To learn more about 1WorldSync and its services, visit www.1worldsync.com or call +1 (866) 280-4013, Option 1.

GHSC-PSM'S DATA SYNCHRONIZATION REQUIREMENTS

GHSC-PSM requires the following for all suppliers participating in the global data synchronization (GDS) process. Suppliers must:

1. Use a certified GDSN data pool. You can find a list of GDSN-certified data pools at <https://www.gs1.org/gdsn/certified-data-pools>
2. Be prepared to publish the “GDSN mandatory” attributes and “GHSC-PSM required” attributes.
 - Refer to the GHSC-PSM Attribute Guide on our landing page at www.1worldsync.com/customer-page/ghsc-psm for a detailed list of GHSC-PSM attributes
 - Refer to GS1.org for additional information about “GDSN mandatory” attributes
3. Assign a Global Trade Item Number® (GTIN®) to each level of packaging. Unique GTINs are required for the Each, Inner Box and Case levels. Refer to the Healthcare GTIN Allocation Rules at <https://www.gs1.org/1/gtinrules/en/healthcare> for more information.
4. Submit your GTINs to the GHSC-PSM Data Synchronization team (datasync@ghsc-psm.org) by downloading the GHSC-PSM GTIN Submission Form from the GSMC-PSM IWorldSync landing page found at <http://www.1worldsync.com/customer-page/ghsc-psm/>. This will prepare ARTMIS for publication. GHSC-PSM will send an email to your primary data synchronization contact when ready for initial publication.
5. Publish item information at each level of the packaging hierarchy.
 - Saleable Unit or Each
 - Example: Each
 - Intermediary Packaging or Inner Box (as applicable)
 - Example: Inner/Each
 - Case
 - Examples: Case/Each; Case/Inner/Each; etc.
 - Pallet
 - Examples: Pallet/Case/Each; Pallet/Case/Inner/Each; etc.
6. Only publish items applicable to GHSC-PSM product categories.
7. Publish all items to GHSC-PSM using **Target Market: Development Assistance**¹.
8. Establish a process to handle and react to Catalogue Item Confirmation (CIC) messages sent back to you from GHSC-PSM. (See section “Manage CIC Responses from GHSC-PSM” below.)

¹ Target Market: Development Assistance will be made available in the GDSN Standards Maintenance Release 3.1.5 on May 12, 2018.

GHSC-PSM ATTRIBUTE REQUIREMENTS

The GHSC-PSM Attribute Guide (on our landing page at www.1worldsync.com/customer-page/ghsc-psm) includes all initial priority attributes expected to be provided as relevant on products supplied to GHSC-PSM. For each attribute, the guide provides the common name, GDSN field name, data type, and a brief definition of the attribute.

GHSC-PSM prefers immediate publication of all attributes that are readily available rather than delaying publication to retrieve missing attributes. Therefore, if some of the required attributes are not immediately available, publish those that are and add the additional attributes when available.

MANDATORY VS. REQUIRED VS. OPTIONAL

The GHSC-PSM Attribute Guide identifies the cardinality of each attribute. There are three types:

Attribute Requirement	Pharmaceuticals	Other Commodities
GDSN Mandatory: attributes must be populated (according to GDSN rules) in order to load and/or share data via GDSN.	27 attributes	27 attributes
Required: attributes required for GHSC-PSM.	40 attributes	22 attributes
Optional: attributes that are valuable to GHSC-PSM and should be populated if available, but not required by GHSC-PSM at this time.	77 attributes	95 attributes
TOTAL ATTRIBUTES	144 attributes	144 attributes

Be prepared to publish the “GDSN mandatory” attributes and “Required” attributes. However, if some of the required attributes are not immediately available, load and publish the attributes that are. GHSC-PSM prefers that you not delay publication waiting additional attributes.

GHSC-PSM ATTRIBUTE GROUPINGS

GHSC-PSM has categorized project-specific attributes into 13 groups, provided below.

Attribute Grouping	Description
General Item Information	General information regarding the trade item

Product Description Information	Supplier product descriptions and other descriptive information
Unit Indicators	Supply chain characteristics
Dimensions	Trade Item dimensions, weights and measures
Contact/Role Information	Manufacturer, supplier, and information provider contact information
Additional Item Identification	Additional identification information
Warranty Information	Warranty types and details
Packaging Information	Information about packaging and labeling
Pharmaceutical Information	Information on dosage and route of administration
Hierarchy	Trade item hierarchy information
Pallets & Logistic Units	Information to manage GTIN and non-GTIN pallets
Storage, Handling and Shelf Life	Information regarding storage and handling requirements, and estimated shelf life
Classifications	Product classification details
Ingredient Information	Information on ingredients and strengths
Dangerous / Hazardous Goods	Information on dangerous and hazardous goods and waste classification
Links to Additional Information	Links to additional external content for trade item
Market Authorization Information	Information about market authorizations

STEPS TO BEGIN SYNCHRONIZING YOUR DATA WITH GHSC-PSM

1. Sign up with a GDSN-certified data pool provider (such as 1WorldSync) if you are currently not a member of a data pool.
 - a. You can find a list of GDSN-certified data pools at <https://www.gs1.org/gdsn/certified-data-pools>
 - b. You can contact 1WorldSync directly at +1 (866) 280-4013 or businessdevelopment@1worldsync.com
 - c. Review the attribute requirements in Section 4 of this document and refer to the GHSC-PSM Attribute Guide located on the GHSC-PSM data synchronization landing page at www.1worldsync.com/customer-page/ghsc-psm to ensure you can meet GHSC-PSM's requirements.
2. Load accurate item data (i.e. the Global Trade Item Number (GTIN) and attributes) into your GDSN data pool and ensure it is ready for publication.
 - a. All suppliers need to publish data for all items to **Target Market: Development Assistance**² at a minimum, which will be used as the default for GHSC-PSM's product catalog.
 - b. Contact your data pool provider for any education you might require to complete this step.
3. Complete the GHSC-PSM Trading Partner Form to provide GHSC-PSM with your GDSN Information Provider GLN and data synchronization contact information.
 - a. The GHSC-PSM Trading Partner Form can be found on www.1worldsync.com/customer-page/ghsc-psm.
 - b. When the form is submitted, it will be sent directly to GHSC-PSM.
4. GHSC-PSM will create a subscription to the supplier's GDSN Information Provider GLN for relevant Target Markets. All suppliers need to publish data for all products to Target Market Development Assistance at a minimum, which will be used as the default for GHSC-PSM's product catalog. GHSC-PSM requests information for all additional Target Markets listed in Annex A, as available.
5. Submit your GTINs to the GHSC-PSM Data Synchronization team (datasync@ghsc-psm.org) by downloading the GHSC-PSM GTIN Submission Form from the GSMC-PSM 1WorldSync landing page found at <http://www.1worldsync.com/customer-page/ghsc-psm/> . This will prepare ARTMIS for publication. GHSC-PSM will send an email to the supplier's primary data synchronization contact when they are ready for the initial publication.
6. Publish items to GHSC-PSM's GLN **0858939007009**.
 - a. Ensure your data is accurate prior to publishing.
 - b. Load all packaging hierarchy levels for all items (e.g., Each, Inner Box, Case, Pallet)
 - c. Ensure publication of as many attributes as possible. For more information, see

² Target Market: Development Assistance will be made available in the GDSN Standards Maintenance Release 3.1.5 on May 12, 2018.

“Attribute Requirements” above and the GHSC-PSM Attribute Guide at www.1worldsync.com/customer-page/ghsc-psm.

- d. Publish your items with the appropriate Publication Type of “Initial Load” or “New”.
7. Manage Catalog Item Confirmation (CIC) Responses from GHSC-PSM:
 - a. You will receive a CIC of RECEIVED within hours of GHSC-PSM receiving your published item. A CIC with a state of “**RECEIVED**” means that the data has been received and integrated into GHSC-PSM’s back-end systems, but has not been reviewed for accuracy.
 - b. As we further mature our GDSN practice, other CIC responses will be used.
 8. Perform ongoing item maintenance through your GDSN-certified data pool.

GHSC-PSM TARGET MARKET REQUIREMENTS

GHSC-PSM may procure and deliver global health commodities on behalf of the countries below over the duration of the project. **All suppliers need to publish data for all products to Target Market Development Assistance at a minimum, which will be used as the default for GHSC-PSM’s product catalog.** However, GHSC-PSM also requests that data for other Target Markets listed below is published to GHSC-PSM as available.

Target Market	Country Code	Priority
Development Assistance	D_A	Mandatory
Afghanistan	AF	Optional
Angola	AO	Optional
Armenia	AM	Optional
Bahamas	BS	Optional
Bangladesh	BD	Optional
Barbados	BB	Optional
Benin	BJ	Optional
Bhutan	BT	Optional
Bolivia	BO	Optional
Botswana	BW	Optional
Brazil	BR	Optional
Burkina Faso	BF	Optional
Burundi	BI	Optional
Cambodia	KH	Optional
Cameroon	CM	Optional
Cape Verde	CV	Optional
Central African Republic	CF	Optional
Chad	TD	Optional
China	CN	Optional
Colombia	CO	Optional
Comoros	KM	Optional
Congo, Democratic Republic of	CD	Optional
Congo, Republic of	CG	Optional
Côte d'Ivoire	CI	Optional
Djibouti	DJ	Optional
Dominican Republic	DO	Optional
Egypt	EG	Optional
El Salvador	SV	Optional
Eritrea	ER	Optional
Ethiopia	ET	Optional
Gambia	GM	Optional
Georgia	GE	Optional
Ghana	GH	Optional
Guatemala	GT	Optional
Guinea	GN	Optional

Guinea-Bissau	GW	Optional
Guyana	GY	Optional
Haiti	HT	Optional
Honduras	HN	Optional
India	IN	Optional
Indonesia	ID	Optional
Iraq	IQ	Optional
Jamaica	JM	Optional
Jordan	JO	Optional
Kazakhstan	KZ	Optional
Kenya	KE	Optional
Korea, Democratic People's Republic of	KP	Optional
Kyrgyzstan	KG	Optional
Lao People's Democratic Republic	LA	Optional
Lesotho	LS	Optional
Liberia	LR	Optional
Madagascar	MG	Optional
Malawi	MW	Optional
Mali	ML	Optional
Mauritania	MR	Optional
Morocco	MA	Optional
Mozambique	MZ	Optional
Myanmar	MZ	Optional
Namibia	NA	Optional
Nepal	NP	Optional
Nicaragua	NI	Optional
Niger	NE	Optional
Nigeria	NG	Optional
Pakistan	PK	Optional
Papua New Guinea	PG	Optional
Paraguay	PY	Optional
Peru	PE	Optional
Philippines	PH	Optional
Rwanda	RW	Optional
São Tomé and Príncipe	ST	Optional
Senegal	SN	Optional
Sierra Leone	SL	Optional
Singapore	SG	Optional
Solomon Islands	SB	Optional
Somalia	SO	Optional
South Africa	ZA	Optional
South Sudan	SS	Optional
Sri Lanka	LK	Optional
Sudan	SD	Optional
Suriname	SR	Optional
Swaziland	SZ	Optional
Tajikistan	TJ	Optional
Tanzania	TZ	Optional

Thailand	TH	Optional
Timor-Leste	TL	Optional
Togo	TG	Optional
Trinidad and Tobago	TT	Optional
Uganda	UG	Optional
Ukraine	UA	Optional
Uzbekistan	UZ	Optional
Viet Nam	VN	Optional
Western Sahara	EH	Optional
Yemen	YE	Optional
Zambia	ZM	Optional
Zimbabwe	ZW	Optional

APPENDIX A. GHSC-PSM ATTRIBUTE GUIDE

The GHSC-PSM Attribute Guide includes all initial priority attributes expected to be provided as relevant on products supplied to GHSC-PSM. Additional information on the name of the attribute, GDSN field name, and whether the attribute is mandatory or optional is provided along with a brief definition of the attribute and data type.

If some of the prioritized attributes are not immediately available to publish, GHSC-PSM prefers immediate publication of all attributes that are readily available rather than delaying publication to retrieve missing attributes.

The GHSC-PSM Attribute Guide can be located on the GHSC-PSM data synchronization landing page at www.1worldsync.com/customer-page/ghsc-psm.

APPENDIX B. FREQUENTLY ASKED QUESTIONS (FAQS)

The FAQ document will be regularly updated to address common questions about GHSC-PSM's data synchronization initiative.

The GHSC-PSM Data Synchronization Frequently Asked Questions (FAQ) document can be located on the GHSC-PSM data synchronization landing page at www.1worldsync.com/customer-page/ghsc-psm.

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