



The Global Language of Business

Global Standards Management Process (GSMP) 2018 Q3 2018 Management Report

An update on the previous quarter's key facts and figures

Release 1.0, Final, Oct 2018





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1 Introduction

The Global Standards Management Process (GSMP) is a community-based process for creating deliverables that serve the GS1® community.

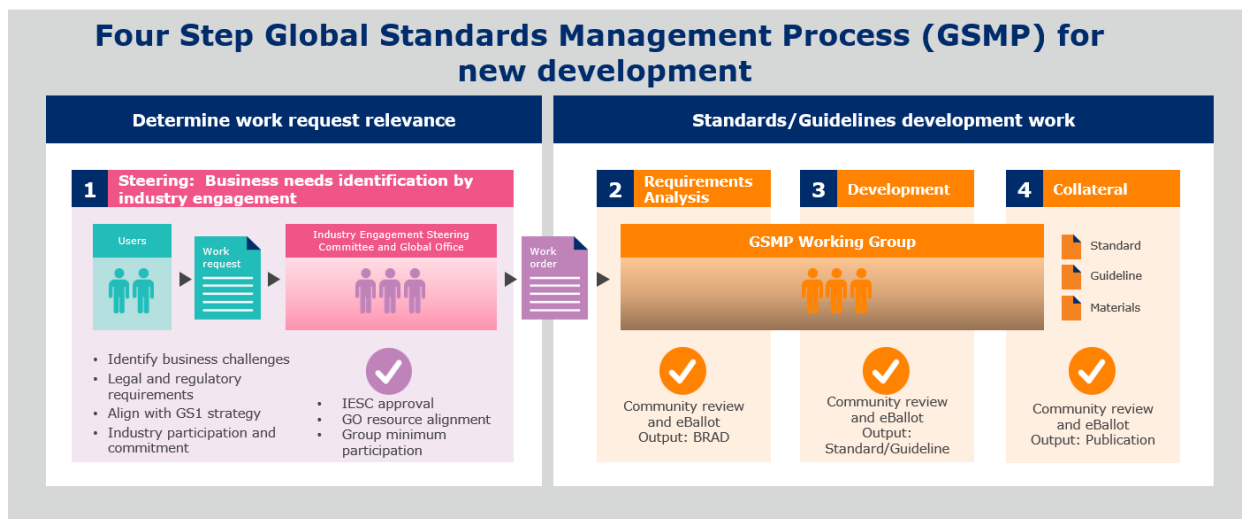
The deliverables from GSMP are:

- **GS1 standards:** documents that trading partners agree to follow in order to achieve interoperability goals. The rules that must be followed are called *normative* statements.
- **GS1 guidelines:** non-normative documents that assist individual organisations in understanding and applying GS1 standards.
- **Collateral materials:** other documents that provide an understanding of GS1 standards and GS1 guidelines and how to use them.

GSMP is measured by activity, performance, participation and quality. This report contains measurements for the first quarter of 2018.

2 Standards and guidelines are created through the GSMP 4-Step Process

Figure 2-1 GSMP process



3 Standards and guidelines delivered in 2018

3.1 Delivered in Q3

An addendum to the **Identification of Components and Parts in the Rail Industry Application Standard** to add dos and don'ts for Identification of Components and Parts

Updates to the **Healthcare GLN Implementation Guideline** to provide implementation guidance for those considering the use of the GS1 Global Location Number (GLN) in healthcare

Updates to the **General Specifications Standard** to separately identify pieces of a large trade item when the pieces are shipped separately in some quantity within different logistic units

Updates to the **General Specifications Standard** to meet a regulatory requirement for a Marine Requirement Certificate

A new Application Standard for **Uniform Resource Identifier (URI) Structure (now known as GS1 Digital Link)** to define a standard structure for URIs that enables reliable encoding of GS1

identifiers and sub-identifiers, regardless of domain name, such that those keys can be extracted without looking up information on (or even being connected to) the web

A new **Mobile Ready Hero Images Guideline** for product images presented in online retail environments on small screens, typically alongside 'add to basket' functions

Updates to the **Product Image Specification i3.2 Standard** for images saved with transparent backgrounds

Updates to the **Core Business Vocabulary Standard** for the addition of attributes for fish Traceability

Updates to the **Global Data Synchronisation (GDS) – Trade Item Implementation Guideline** for the usage of GS1 additional country codes and how they should be used for Target Market

Updates to the **Global Data Synchronisation Standard**, Maintenance release 3.1.7 for the is a small release which encompasses Attributes, Codelist and Validation Rules

Updates to the **EPC™ Radio-Frequency Identity Protocols Generation-2 UHF RFID Standard** to harmonize the standard with ISO 18000-63 clarifications

Updates to the **Global Product Classification Standard Publication June 2018** to support the consolidation of 35 GPC Work Requests and brings valuable new content to expand classification in Lawn/Garden Equipment, Crops, Home Goods, and Tableware

3.2 Delivered in Q2

Updates to the **Consumer Product Variant into GDSN Implementation Guideline** to provide guidance data exchange for Consumer Product Variant information through the Global Data Synchronisation Network (GDSN)

Updates to the **Global Data Synchronisation Network Maintenance release 3.1.6** to encompass new attributes and technical validation rules

Updates to the **Human Readable Interpretation (HRI) Implementation Guideline** to fully align with the GS1 General Specifications

Updates to the **Leveraging GDSN for the FDA Global Unique Device Identifier Database (GUDID) Implementation Guideline** to decouple the attribute-mapping document from the guideline

Updates to the **Logistics Interoperability Model Application Standard** to align the GS1 Logistics Interoperability Model (LIM) with the latest GS1 XML and EANCOM Standard releases

3.3 Delivered in Q1

GDSN Maintenance Release 3.1.5 was published and went into production May 2018. It is a small GDSN release with the addition of optional attributes and Efficient Code List (ECL)

Updates to the **GDSN Trade Item Implementation Guideline** for

- Clarification implementation of components Efficient Code List (ECL)
- Additions to the Unit of Measure (UoM) code

Updates to the **Core Business Vocabulary Standard** for Tax ID

Updates to the **Global Fish, Seafood and Aquaculture Implementation Guideline** to aid in the adoption of consistent business practices to effectively manage traceability for the seafood industry

4 Work request activity

Work requests (WR) entered for new standards or modifications to existing standards.

- 122 work requests were entered this quarter. Up from 80 entered in Q2. 291 work requests have been entered this year.
- 91 work requests closed this quarter, in line with 85 closed in Q2. 254 work requests closed as of Q3.

Figure 4-1 Work requests submitted to Standards Maintenance Groups in this quarter

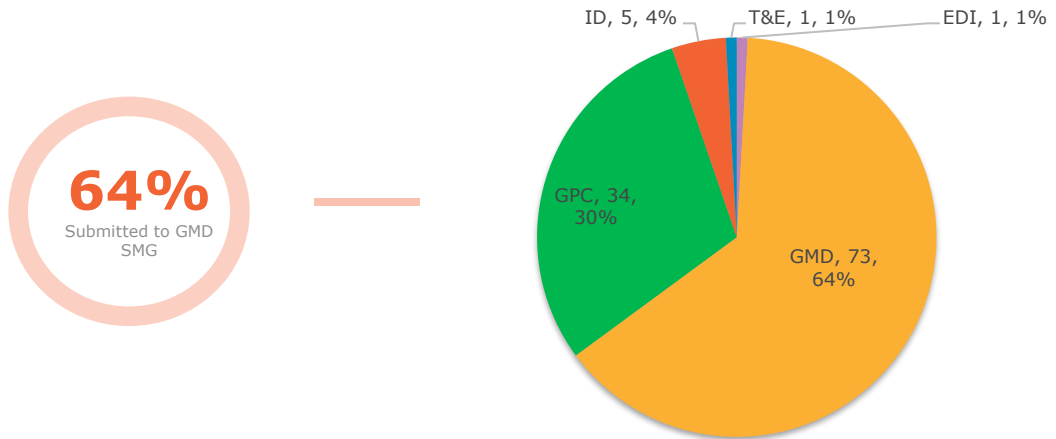
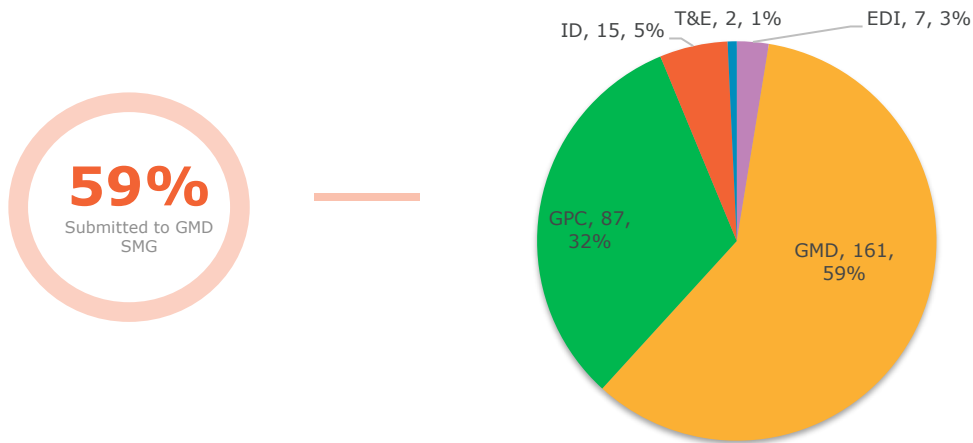


Figure 4-2 Work requests submitted to Standards Maintenance Groups year to date



Work request activity is classified and reported in several ways below:
Table 4-1 Work requests submitted for each standard

Standard	2015	2016	2017	2018 ytd
Automatic Identification Data Capture (AIDC) *	27	31	22	21
Electronic Data Interchange (EDI) (Transactional Data)	37	118	35	8
Electronic Product Code (Tag Data Standard & UHF)	6	3	4	2
EPCIS & Core Business Vocabulary (CBV)	2	3	2	1
GDSN Package Measurement Rules	5	6	3	2
Global Data Synchronisation	217	239	193	161
Global Product Classification	77	123	39	87
Global Traceability Standard	5	1	5	2
Product Image Specification	3	10	2	3
Other (Process, SmartSearch, New Standards, in assessment, ..)	4	1	10	4
Total	383	535	315	291

Table 4-2 Work requests submitted by category

Category	2015	2016	2017	2018 ytd
Maintenance	368	527	306	254
Development	15	8	9	18
Errata (2015 – 2017 included in Maintenance)	0	0	0	19
Total	383	535	315	291

Table 4-3 Work requests submitted by region

Region	2015	2016	2017	2018 ytd
Asia Pacific	10	9	12	5
Europe	198	378	191	195
Latin America	0	1	3	0
North America	175	147	109	91
MEMA	0	0	0	0
Total	383	535	315	291

Table 4-4 Work requests submitted by member type

Member type	2015	2016	2017	2018 ytd
Global Office	28	22	34	27
Member Organisation	229	364	195	209
Users	126	149	86	55
Total	383	535	315	291

4.1 Top 9 work request submitters

Figure 4-3 Top work request submitters year to date (remaining work request submitters entered 1-4 WR year to date)

Organisation	2015	2016	2017	2018 ytd	Totals
GS1 Belgium & Luxembourg *	5	0	3	46	54
GS1 France *	16	43	33	46	138
GS1 Netherlands *	34	43	39	36	152
1WorldSync Holdings, Inc.	100	86	55	30	271
GS1 Canada *	14	21	22	27	84
FSEnet	0	0	3	16	19
GS1 US *	49	32	14	12	107
GS1 Czech Republic	1	6	8	10	25
GS1 Germany	77	161	15	9	262

4.1.1 Work request aging report

115 work requests remain open at quarter-end

Table 4-5 Overall aging report in days

Days open = WR submission to end of quarter	Under 100	100-200	200-500	Over 500	Total
GSMP Maintenance	82	12	6	0	100
GSMP Development	6	2	4	0	12
In assessment or WR not actionable	1	1	1	0	3
Total	89	15	11	0	115

4.2 Standards Development Work Group

Standards Development (SD) Groups are responsible for GS1 system development including, developing GS1 standards, GS1 guidelines, and other deliverables that support their deployment. There are two kinds of SD work groups:

- **Standards Maintenance Groups (SMG):** SMGs have an indefinite lifetime, are responsible for the on-going maintenance and enhancement of one or more existing GS1 standards or GS1 guidelines.
- **Mission-specific Work Groups (MSWG):** MSWGs are formed to do a specific piece of work as described in its charter, which disbands when the work is complete. Mission-specific Work Groups are created for most work efforts of substantial scope.

Standards Development Work Group overview:

- 6 Standards Maintenance Groups (SMGs) are active; Barcodes SMG is not active at this time
- 6 Mission-specific Work Groups (MSWGs) are active

4.2.1 Standards Maintenance Groups (SMGs)

Table 4-6 Standards Maintenance Groups operating

Group name	Call to action date	Group status
Barcodes	15 Apr 2010	Inactive
Data Accuracy (DA)	15 Apr 2010	Working

Group name	Call to action date	Group status
Electronic Data Interchange (EDI)	15 Apr 2010	Working
Global Master Data (GMD)	15 Apr 2010	Working
Global Product Classification (GPC)	15 Apr 2010	Working
Identification (ID)	15 Apr 2010	Working
Traceability and Event Sharing (T&E)	26 May 2011	Working

4.2.2 Mission-specific Work Groups (MSWG)

Table 4-7 Mission-specific Work Groups operating

Group name	Call to action date	Group status
Clinical Trials Processes	21 March 2018	Working
EPCIS and CBV v2	19 February 2018	Working
Fighting Illicit Trade, formerly High-speed Barcode Printing (HSBP)	21 March 2018	Working
Messaging for Verification of Pharmaceutical Saleable Returns	21 May 2018	Working
Mobile Ready Hero Images	5 September 2017	Guideline complete, group evaluating adoption before disbanding
Uniform Resource Identifier (URI) Structure	11 December 2017	Phase II is in planning

4.2.3 Mission-specific Work Groups closed this quarter

GSMP Consumer Product Variant in the Global Data Synchronisation Network MSWG

4.3 Performance

Work requests are the entry point into the GSMP process to request new standards or modify existing standards per the process and procedures laid out in the GSMP Manual. The time it takes for a work request to be processed in GSMP is measured below.

4.3.1 Standards maintenance work

A work request is categorised as maintenance if it is a single, or a group of small changes to an existing standard or guideline, that can be developed in a Standards Maintenance Group. Examples: errata, new EDI code values, new symbol placement rules, GDSN Validation Rules.

There are two types of maintenance Work requests:

- **Maintenance Type 1:** Simple changes to a standard, considered on-time if it is completed within 180 days (10 day variance)
- **Maintenance Type 2:** Development time is expected to be longer than 180 days. These are considered on-time, if completed within 365 days (10 day variance)

4.3.1.1 Standards Maintenance Groups' Performance

- 97% of all maintenance work requests completed this quarter were completed within the service level agreement stated above.
- The median development time for a 2017 maintenance work request is was 66 days (there are still some outstanding WR to be closed). The median development time for a 2018 maintenance work request is 48 days year to date

Figure 4-4 Median days in development for all Standards Maintenance Group work

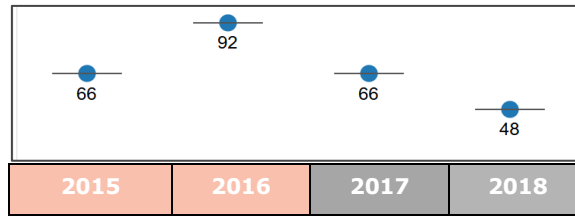
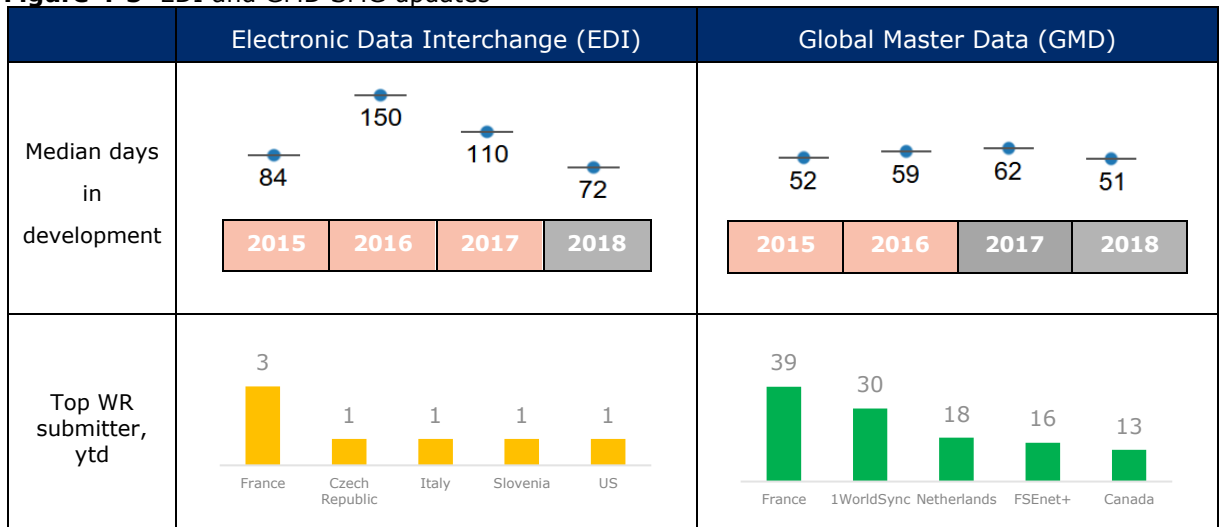


Table 4-8 Standards Maintenance Groups work request activity summary for the quarter

Standards Maintenance Group (SMG)	Total WR entered as of Q3	Total WR entered this Qtr	Total WR closed this Qtr	Closed on time	Additional time needed	% Closed on-time	Withdrawn/ Solution exists/bundled	Open WR 30 June 2018
Data Accuracy (DA)	1	0	0	0	0	N/A	0	0
Electronic Data Interchange	7	1	11	4	0	100%	7	3
Global Master Data (GMD)	161	73	43	33	2	94%	8	62
Global Product Classification (GPC)	87	34	28	26	0	100%	2	27
Identification (ID)	15	5	4	3	0	100%	1	11
Traceability & Event Sharing	2	1	1	1	0	100%	0	1
Total (SMG)	273	114	87	67	2	97%	18	104

Note: Maintenance on-time performance is measured from the submission date, to the GSMP complete date, and ready for ratification (if applicable).

Figure 4-5 EDI and GMD SMG updates

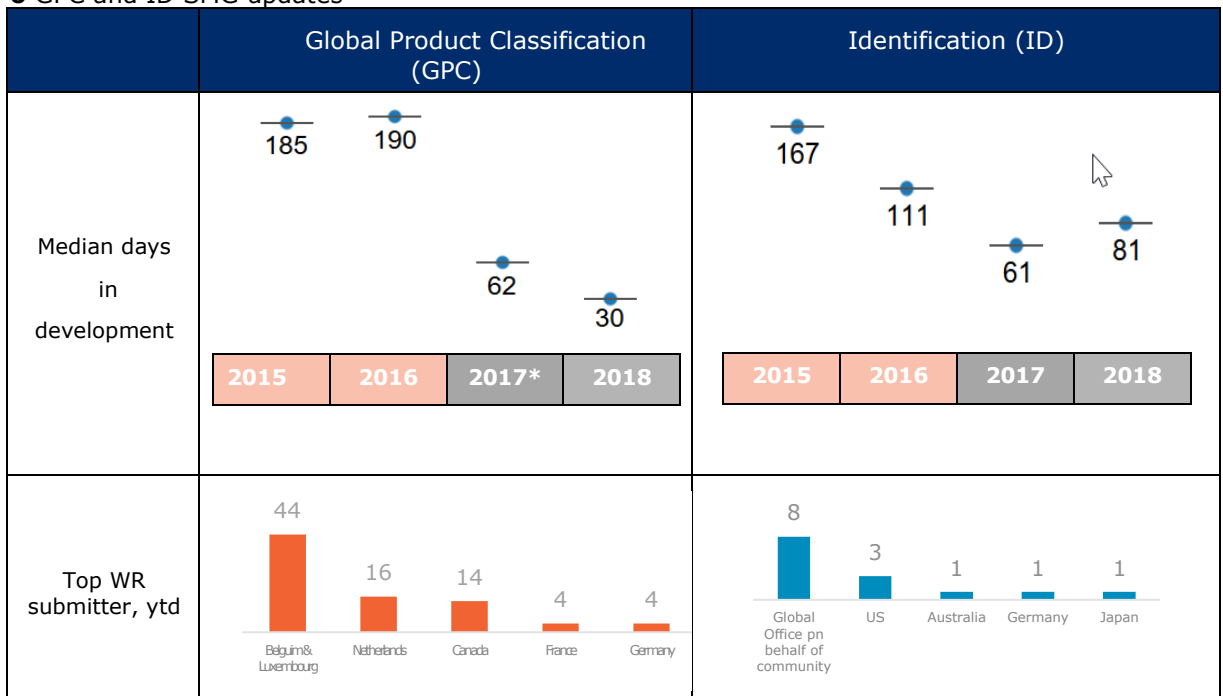


	Electronic Data Interchange (EDI)	Global Master Data (GMD)
Highlights	<ul style="list-style-type: none"> EDI XML Maintenance Release 3.4 is now under Technical Solution Development Fighting Illicit Trade project: The FIT regulation has an impact on EDI transactional messages, both in XML and EANCOM syntaxes. There could be some delay in the publication date for 3.4. Analysis is still going on 2016 Median Days in development is higher, due to the bundling of process steps for 84 WRs submitted by GS1 Germany for community efficiency 	<ul style="list-style-type: none"> The GMD SMG processed 59% of all WRs entered this quarter, higher than 53 last quarter The GDSN Automation project has resulted in improved release accuracy and efficiency Release 3.1.8 is in Community Review and has a Healthcare focus Release 3.1.7 was ratified and will be put into production November 2018

Legend:

All WR for year are closed WR are still open for year

Figure 4-6 GPC and ID SMG updates



	Global Product Classification (GPC)	Identification (ID)
Highlights	<ul style="list-style-type: none"> Transition in process of SME responsibilities to Mike Mowad, Jeanette McVeigh remains SDL GPC Translations were posted to one location on the GS1 website (with MO unique permissions), providing user's one location for all translations. Download contact date is being collected for MO's. Time to process work requests is at an all-time low <p>*In 2017: 1. GPC started closing WR that were in queue for the biannual publication 2. the group no longer accepted incomplete WR. These process changes contributed to lower cycle times</p>	<ul style="list-style-type: none"> The group is processing work for V2019 General Specification which incorporates inputs from Healthcare, Fish Seafood, Transport and Logistics, and Regulators The Dublin session included a discussion on 2D (or Not) strategy, next steps are being discussed The following GSCN's advanced to community eBallot; GTIN non reuse, 2D Logistics Label and Optically Readable Sensor Indicator Steve Keddie has joined GS1 GO as Senior Director AIDC There is a vacant Co-Chair position ID SMG participants are participating in ID related activities with URI Structure MSWG and Fighting Illicit Trade MSWG

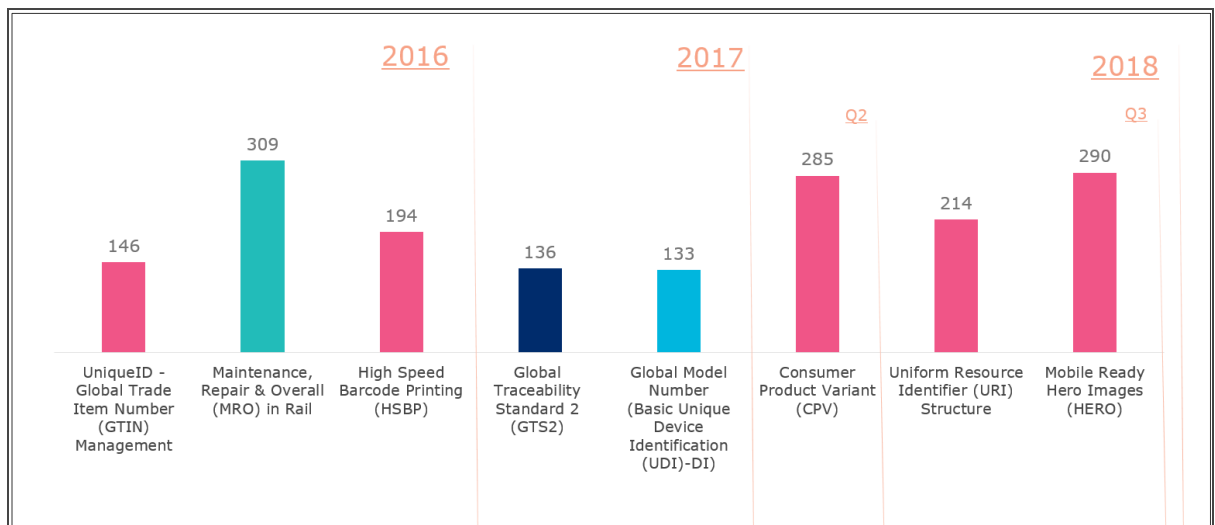
Note: Traceability & Event Sharing and Data Accuracy SMG's have minimal activity, and therefore, are not included

Legend: All WR for year are closed WR are still open for year

4.3.2 Development work

A work request is categorised as development, if it involves creation of a new standard/guideline, or significant change to existing standard/guideline and the work is completed in a Mission Specific Work Group. Examples: extension to GDSN, a new EPCglobal High Frequency (HF) Air Interface Standard, enhancement to the EPCIS Standard to include aggregation layers, a new barcode symbology, a new Business Message Standard. Development work is on time, if the work is completed in, or under the estimated time to complete. The estimated completion date is defined in the project plan at the start of the development stage. Consumer Product Variant, Uniform Resource Identifier and the Mobile Ready Hero Image standards were delivered this quarter. The average time to deliver a large Standards Development project is 213 days.

Figure 4-7 Development projects delivered in GSMP since improvements



Industry Legend:

Retail Transport and Logistics Healthcare

4.4 Current projects status

Figure 4-8 Projects in process status

Mission Specific Work Group Name	IESC project approval/group formation	Requirements	Standard in development	Completed	Target delivery date
Digital Link (Uniform Resource Identifier (URI) Structure)					Aug-18
Messaging for Verification of Pharmaceutical Saleable Returns					Dec-18
Clinical Trials					Feb -19
Fighting Illicit Trade (FIT) (phase II of High-Speed Barcode Printing)					Mar-May 2019
EPCIS and CBV 2.0					Timeline in planning

Legend:

■ On-target
 ■ at risk
 ■ will not meet target
 ■ complete

5 Participation

Participants in GSMP are organisations (companies or other recognised entities); each organisation is represented by one or more individual persons belonging to that organisation. There is no limit to the number of individuals from a single organisation that may participate. Companies not a member of GS1 are non-voting. There are three types of participating members:

1. GSMP community member (non-voting)
 - Company has signed GS1 Intellectual Property (IP) Policy
 - Individual has joined the GSMP group in GS1 Community Room
2. GSMP community member (voting)
 - Company is a member of GS1
 - Company has signed GS1 Intellectual Property (IP) Policy
 - Individual has joined the GSMP group in GS1 Community Room
3. GSMP Work Group Member
 - Company has signed the GS1 Intellectual Property (IP) Policy
 - Company has signed a group Opt-in Agreement
 - Member has joined the GSMP group in GS1 Community Room

5.1 GSMP company membership

Table 5-1 Number of member companies in GSMP by year

Group	2015	2016 *	2017	2018 ytd
Users	442	496	317	411
MO's	56	56	52	55
Total	498	552	369	466

* GSMP changed membership management systems in April of 2017. All companies who did not have an active associate since January 1, 2016, were archived due to inactivity

Table 5-2 Member companies by interest category

Interest category	# of participants
Academia	6
Association	10
Auto-ID	3
Central Bank	5
Data Pool	7
Distributor / Group Purchasing	09
eTailer	3
Government Agency	8
GS1 Certified Data Pool	7
GS1 MO	55
Hospital	10
Logistics Provider	14
Manufacturer	137
Regulatory Body	2
Retailer	42
Solution Provider	148
Total	466

Table 5-3 Member companies by region

Region	# of Companies
Asia Pacific	25
Europe	258
Latin America	14
North America	159
Middle East & Africa	10
Total	466

- GSMP has 466 active member companies in a GSMP Work Group, 394 companies are voting members and 72 companies are non-voting

5.2 Voting

Each company/organisation represents one vote in GSMP, regardless of the number of associates. GSMP requirements and standards reach approval by community eBallots. Each eBallot requires approximately 12 votes with additional supply chain role minimum votes (charter variations may apply).

- The average number of votes per ballot this quarter was 20, consistent with last quarter. 35 ballots were passed this quarter.

5.3 Event attendance

GS1 Global Office hosts two events every year for the GS1 community to collaborate face-to-face on industry needs and the development of GS1 standards. The next event will be:

- GS1 Standards Event will be held in Denver, Colorado USA, co-located with GS1 Connect 17-21 June 2019.

The latest GS1 Industry & Standards Event took place 10-14 September 2018 in Dublin, Ireland. Attending the event were 358 individuals from 37 different countries.

Table 5-4 Event attendance by individual/organisation

By organisation	2015 Jersey City	2015 Warsaw	2016 Jersey City	2016 Brussels	2017 Jersey City	2017 Brussels	2018 Jersey City	2018 Dublin
Affiliate, Associates, Auto-ID Lab, other	5/5	19/15	5/5	36/26	12/7	21/14	21/12	18/14
Data Pool and Solution Provider	21/19	42/32	25/18	63/43	19/13	57/47	27/21	66/52

By organisation	2015 Jersey City	2015 Warsaw	2016 Jersey City	2016 Brussels	2017 Jersey City	2017 Brussels	2018 Jersey City	2018 Dublin
Distributor / Group Purchasing and Manufacturer	28/19	24/16	30/24	29/25	17/15	34/27	22/18	32/26
Global Office staff	51/1	53/1	49/1	80/1	50/1	84/1	53/1	61/1
GS1 MO	84/22	126/30	82/24	124/27	92/23	165/32	74/20	162/36
Hospital and Retailer	6/5	15/10	16/13	9/6	10/7	18/14	9/7	19/14
Total	195/71	279/104	207/85	340/128	200/66	379/135	206/79	358/143

6 Quality

The GSMP defines quality as the entire process employed to ensure that all GS1 standards are user-driven, globally applicable, royalty-free (to the best of our ability) and that ultimately meets the needs and requirements defined by its members.

6.1 Due process

All GSMP groups are expected to follow the processes and procedures specified in the GSMP Manual. A community eBallot is used to confirm community consensus to progress a draft standard, or other GSMP deliverable.

6.2 Consensus

Decision-making is achieved through consensus, which is defined as approval without sustained opposition. Voting options are yes, no and abstain. Total votes cast; 709 yes, 0 no, 28 abstain. Abstain is used when a voter is not familiar enough with the material to cast a vote, but has read the material.

Below are measures of due process and consensus in the GSMP:

- Zero (0) due process infractions
- 100% of all eBallots approved this quarter were unanimous, up from 79% last quarter
- 100% of votes cast this quarter were affirmative (not including abstain)

6.3 Satisfaction survey results

GS1 issues several surveys to measure satisfaction with GSMP. Survey results are structured in three categories:

- unfavourable = sum of very dissatisfied and fairly dissatisfied
- neutral
- favourable = sum of satisfied and very satisfied

Favourable and unfavourable answers are shown in percent using this structure: fav/unfav. Neutral answers are not used in reporting the survey results; they are viewed as opportunities to move a response to favourable. The results of the three surveys are detailed in the next three sections.

6.3.1 GSMP member satisfaction survey

Overall satisfaction with GSMP rose 12 percentage points to an all-time high of 81%, followed by a rise of 16 percentage points for staff to another all-time high of 90% favourable with 0 unfavourable ratings for the first time ever!. The Process followed suit and rose the largest percentage points – 25% to another all-time high of 67% satisfied.

Figure 6-1 GSMP member satisfaction survey results

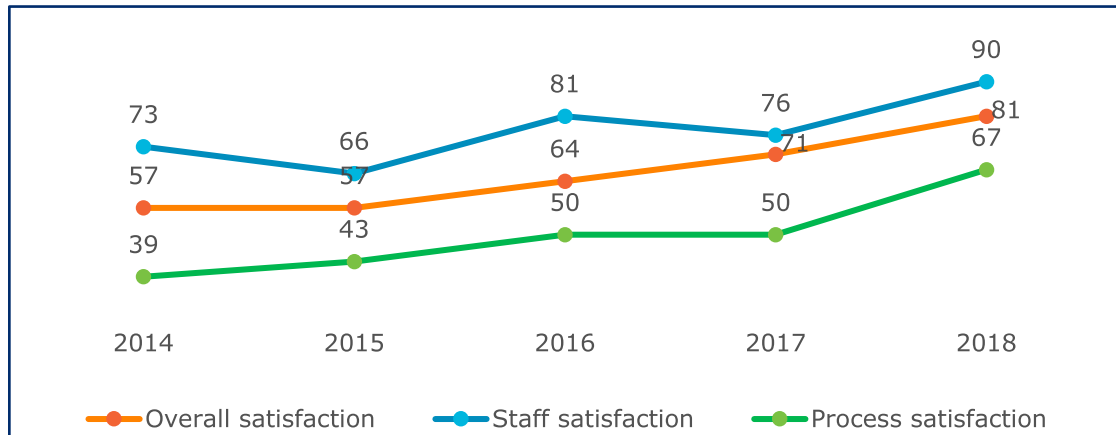


Table 6-1 GSMP member satisfaction survey results; satisfaction overall, with the staff, and with the process

	2014	2015	2016	2017	2018
Questions	% FAVS/UNFAVS				
Overall satisfaction with GSMP	57/7	57/13	64/8	71/3	81/3
Satisfaction with GSMP staff	73/4	66/9	81/2	76/3	90/0
Efficiency of process	39/14	43/17	50/8	50/5	67/5

6.3.2 GS1 Standards events satisfaction survey results

Table 6-2 GS1 Event satisfaction survey results

Programme activity	2015 Jersey City	2015 Warsaw	2016 Jersey City	2016 Brussels	2017 Jersey City	2017 Brussels	2018 Jersey City	2018 Dublin
Overall, how satisfied were you with the GS1 Standards Event?	93/2	93/1	98/2	97/0	92/2	98/0	96/2	97/0
How satisfied were you with the event facilities?	94/2	91/4	99/0	79/6	91/0	88/4	93/1	95/1
How satisfied were you with the week's agenda?	75/7	89/11	96/4	98.2	88/13	98/2	95/5	97/3
How satisfied were you with the Tuesday Plenary?	76/9	68/16	93/7	80/7	92/0	83/0	89/3	83/1
Average	85%	85%	97%	89%	91%	92%	93%	93%

6.3.3 GS1 Member Organisation satisfaction survey

Favourable responses from GS1 Member Organisations decreased to 74% favourable from 78% in 2017

Figure 6-2 GSMP MO satisfaction survey results

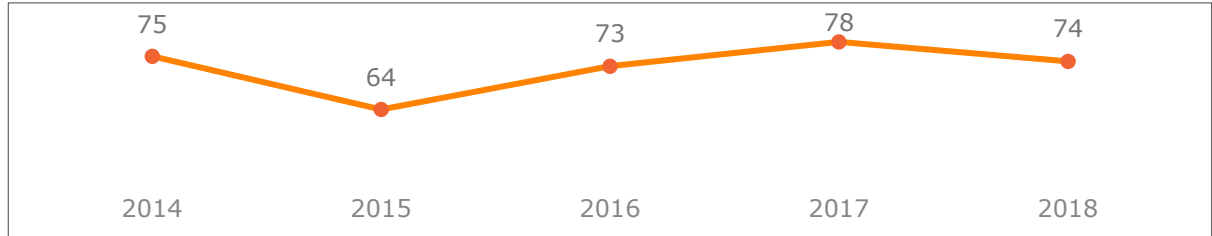


Table 6-3 GS1 MO satisfaction survey results table

Question	% FAVS/UNFAVS				
	2014	2015	2016	2017	2018
Overall satisfaction with GSMP	75/2	64/1	73/0	78/3	74/4

GSMP Governance Groups

6.4 Board Committee for Standards (BCS) members

Art Smith, GS1 Canada
 Barron Witherspoon, Procter & Gamble
 Carrie Wilkie, GS1 US
 Elzbieta Halas, GS1 Poland
 Jean-Marc Klopfenstein, Nestlé
 Juan Antonio Sanfeliu, Manufacturas Antonio Gassol
 Lori Schrop, J.M. Smucker Co.
 Maria Palazzolo, GS1 Australia – Chair
 Michael Rose, Johnson & Johnson
 Miguel Lopera, GS1
 Ulrich Schaefer, GS1 Germany
 Vivek Balasubramanian, Amazon
 Volker Zeiner, B. Braun
 Xavier Barras, GS1 France

6.5 Industry Engagement Steering Committee (IESC) members

Amber Walls, GS1 US
 Ana Paula Maniero, GS1 Brasil
 Cédric Lecolley, GS1 France – Chair
 Erin Hennessey, Procter & Gamble
 Halim Recham, GS1 Algeria
 Jeff Denton, Amerisource Bergen – Chair
 Joachim Wilkins, C&A Europe / RSC Commercial Services
 Loek Boortman, GS1 Netherlands
 Marcel Sieira, GS1 Australia
 Ruediger Hagedorn, Consumer Goods Forum
 Virginia Vaamonde, GS1 Brasil
 Yolande Diaz, Carrefour

6.6 Architecture Group (AG) members

Elizabeth Waldorf, TraceLink, Inc
Eugen Sehorz, GS1 Austria
Gina Tomassi, Pepsico
Giovanni Biffi, Logyca
Henri Barthel, GS1 GO – Chair
Jens Kungl, Metro Group
John Terwilliger, Abbott
Junyu Wang, Fudan Auto-ID Lab
Kevin Dean, GS1 Canada
Marc Cox, Philips
Mark Harrison, Milecastle Media
Paul Reid, GS1 UK
Ralph Tröger, GS1 Germany
Ray Delnicki, GS1 US
Robert Beideman, GS1 GO
Roberto Matsubayashi, GS1 Brasil
Seán Lightholder, Walmart
Staffan Olsson, GS1 Sweden
Sue Schmid, GS1 Australia – Chair
Sylvia Rubio Alegren, ICA
Tony Zhang, FSEnet
Vera Feuerstein, Nestlé – Chair
Xavier Barras, GS1 France

More information

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Please contact Eileen Harpell with your questions or suggestions: GSMP@GS1.org