



GS1 Global Standards Management Process

Management Level Quarterly Review

Q3 2013

July 1 – September 30th 2013

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INTRODUCTION

GSMP provides a comprehensive set of methods and rules allowing the GS1 Community and affected Industry groups to submit their needs and lead in the creation of globally agreed standards and guidelines. This report provides a summary of all GSMP activities this quarter.

1. PUBLICATIONS DELIVERED THIS QUARTER

Q3 Jul 1 – Sep 30th

Data Accuracy Standard (1) Improvements to package measurement rules for unpackaged do it yourself (DIY) plumbing parts

General Specification Change Notices (7)

- five Global Trade Item Number (GTIN) Allocation Rules clarifications in definition of net content, marketing declarations, major formulations, multipack use, removal of rules allowing different recipes in food items
- an improvement to Bar Code production and quality assessment
- GS1 National Health Reimbursement Number Application Identifier for Brasil - allowing the use of the GS1 System for pharmaceuticals within Brazil

Global Data Synchronisation Network Standard (2) New release provides more efficient, cost effective and timely on-boarding of all sectors and industries into GDSN

Global Product Classification (GPC) June 2013 Publication (1) new Bricks to expand classification in Lubricant Products, Display Stands, Washer Fluid, Take-Out Containers, Fresh Fruits & Vegetables, Automotive, Confectioneries, and Beauty Care/Type of Sun

GS1 Source (formerly Trusted Source of Data) (1) incorporated European Union (EU) Food Ingredients Regulations

Imaging Specification (4) improvements to resolution requirements, file formats, assignment of multiple files to a GTIN, peg hole and shelf ready products

2. PUBLICATIONS DELIVERED YEAR TO DATE

Q2 Apr 1 – Jun 30th

Standards

Components and Parts (1) developed a new GS1 identifier for components and parts, including its representation in bar code and RFID/EPC formats

eCom Maintenance Release 3 (1) added 17 new attributes in Order Response

eCom Warehouse messages for Warehousing & Logistics Inventory Report (1) based on the LIM (Logistics Interoperability Model), eCom messages for Warehousing have been developed and focus on the operational and information interoperability needs when outsourcing warehousing operations to a Logistic Service Provider

Global Protocol on Packaging Sustainability (GPPS) Sustainability Standard (1) a new standard created to support the sharing of packaging sustainability-related information in an automated and homogenous way. Protecting and preserving products and raw materials as they transit through the supply chain, this standard is critical to the consumer goods industry and will be supported by GS1's Global Data Synchronisation Network (GDSN), used by over 20,000 trading partners

General Specification Change Notices for the GS1 General Specification Standard (6): updates to reduce confusion and clarify the differences between what is a Combination Pack and what is a Bonus Pack, ensure correct reporting of verification results is achieved internationally, aligned the GS1 verification template with the ISO/IEC standard, allowed the use of GS1 Data Matrix for GDTI for Healthcare, additions to differentiate packaging material changes and change the rule to be more globally applicable, addition of a global definition for the term National Trade Item Number (NTIN) to provide needed clarity, reduced potential misinterpretation of EAN/UPC Symbol heights to include minimum bar heights Specification and changed term "printing density" with "x-dimensions"

GTIN Allocation Rules (6): clarified rules for loose Produce and Variable Measure Fresh Food at Point Of Sale, removed ambiguity on the use of a 'logo' and the requirements when a certification mark is removed, removed ambiguity to expand package report to include weight in addition to count, ensured trading partners understand minor packaging changes have a definition that involves an understanding of other GTIN Allocation Rules and simplified dealing with a price printed on a package

Healthcare GTIN Allocation Rules (3) updates to provide clear and consistent guidance on "Level Below the Each" identification and marking for use across the spectrum of GS1 Healthcare sector solutions, no longer allow GTINs to be reused in healthcare products and defined National Trade Item (NTIN) for healthcare

Image Specification Standard (4) updates for image size, allowance of supporting images that contain props or additional objects and clarified how images are cropped and represent image size askb.

Guidelines

Fruit & Vegetable Master Data Attribute Implementation Guide (1) provides best practice guidelines for industry-wide adoption of New Item Listing to support companies seeking to electronically exchange fruit & vegetable product information in accordance with GDS Standards.

GS1 Identification Keys in Transportation & Logistics Guideline (1) for the use of GS1 Identification Keys in the Transport & Logistics Sector for all transport modes, including road, rail, air and maritime.

Q1 Jan 1 – Mar 30th

Product Image Specification (5): updates to format storage option alternatives, improvements to file naming convention position and image code value of the file naming convention, new position code values in naming convention, and require clipping path for outlined images

Global Product Classification (GPC) December 2013 Publication (1): New bricks to expand classification in Beer, Packaged Water, After Sun Care, Soup Additives, Sauces and Condiments, Camping, Origin of Wine, Alcoholic Beverages/Pre-mixed Drinks, Herbal Snuff Tobacco, Cleaning & Hygiene, Electronics, and Alternate Meat/Poultry Species. The GPC system gives buyers and sellers a common language for grouping products in the same way, everywhere in the world.

GS1 General Specification New Version: The GS1 General Specifications is the core standards document describing how bar codes and identification keys should be used to comply with GS1 AIDC Standards. Updates incorporated are bar code conformance, identification key for global coupon number, identification of patient care caregiver, additional security in care processes.

3. WORK REQUEST ACTIVITY

Sixty (60) new Work Requests have been entered this quarter. Work Requests are entered for new standards or modifications to existing standards. The number of Work Requests are reported in several categories:

Table 1. Work Requests submitted for each standard

Standard	2009	2010	2011	2012	2013 ytd
Automatic Identification Data Capture (AIDC) *	25	31	24	45	37
Data Accuracy	5	5	0	3	2
eCom	63	46	50	64	9
EPCglobal	3	23	7	7	0
Global Data Synchronisation	75	119	95	144	49
Global Product Classification	15	33	62	53	27
Global Traceability Standard	4	2	1	2	1
Trusted Source of Data			1	1	0
Other	2	4	7	14	1
Total	192	263	247	333	126

Table 2. Work Requests submitted by category

Category	2009	2010	2011	2012	2013 ytd
Maintenance	158	220	220	298	111
Development	34	43	23	16	11
In Analysis	0	0	4	5	3
Other				14	1
Total	192	263	247	333	126

Table 3. Work Requests submitted by region

Region	2009	2010	2011	2012	2013 ytd
Americas	76	115	101	92	63
Asia Pacific	7	35	14	20	3
Middle East & Africa	0	1	0	0	0
Europe	109	112	132	221	60
Total	192	263	247	333	126

* Find the GS1 regional country list [here](#)

Table 4. Work Requests submitted by member type

Member Type	2009	2010	2011	2012	2013 ytd
Member Organisation	123	164	155	211	96
User	15	26	22	29	9
Solution Provider/Data Pool	16	23	48	65	10
Other	38	50	22	28	11
Total	192	263	247	333	126

3.1. WORK REQUEST AGING REPORT

Seventy-Five (75) Work Requests are open as of 30 September 2013.

Table 5. Work Request Aging Report

Days Open	Under 100	100-200	200-500	Over 500
GSMP Maintenance	24	15	10	0
GSMP Development	2	1	7	5
Industry Engagement	4	0	4	3
Total	30	16	21	8

3.2. WORK REQUESTS IN INDUSTRY ENGAGEMENT

- 11 WR are open in Industry Engagement

Table 6. Work Requests in Industry Engagement

WR #	Topic	Status
13-127	We request a work team to discuss and develop a direction for GDSN around the topic of including Local Attributes (see definition in WR 13-100) into GDSN.	In analysis by GDS User Group
13-126	Review the business need and technical capabilities (or lack of) of publishing GDS data below the standard/current Target Market level; i.e. at a target market subdivision level.	In analysis by GDS User Group
13-024	Develop a Fish Master Data Attribute Implementation Guide	Implementation Guide in development in the Fresh Foods IE group to be contributed to GSMP upon completion
13-119	The GDSN can be used to synchronise product data that has a trading partner relationship context. This includes such information as item availability and pricing. Because of the context of the data it is critical to be able to uniquely identify the trading partners for which the information relates to. We would like to ensure it is clearly understood how this should be achieved via the GDSN.	In analysis by GDS User Group
13-014	Enable scanning of SSCC in GS1-128 barcodes from 8 meters in harsh conditions	In testing at Ohio University Lab, report expected late February 2014
13-012	Establish a single solution for variable measure trade item identification	Industry analysis
12-301	Revise SSCC definition to align with Turkey pharma traceability practices	On hold due to recent changes at the Turkish MoH
12-165	Integrating Turkish traceability messages into GS1 XML	On hold due to recent changes at the Turkish MoH
12-126	Enable Network Pedigree (Re-named: Event Based Traceability (EBT))	On hold, SBN is approved - Industry prioritized work to begin Jan 2014 in EBT MSWG
11-208	AgroScience	On hold for industry participation
11-207	AgroScience	

4. PROCESS CHANGE NOTIFICATIONS (PCN'S)

Process Change Notifications (PCN) are used to make changes and additions to the GMSP process. Once approved, they are distributed to the GSMP Community and incorporated into the next version of the GSMP User Manual. The following PCNs have been approved but have not yet been incorporated into the GSMP Process Manual:

12-001 Assigning Application Identifiers

13-001 Charter Amendment Process

13-002 Clarification of Abstention Votes in GSMP

13-003 Length of Community Review Efficiencies Added

5. GSMP WORKING GROUPS

GSMP Working Groups are responsible for carrying out GS1 System development, developing GS1 Standards, GS1 Guidelines, and other deliverables that support their deployment. Consistent with the principles of openness and community development, all GSMP Working Groups are open to all GSMP members. There are two kinds of GSMP Working Groups:

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

5.1. GSMP WORKING GROUPS OVERVIEW

Quarter Summary:

- Zero (0) Call to Actions for new MSWG's were issued this quarter. Zero (0) year to date.

Working Group status at end of Q3:

- Six (6) Standards Maintenance Groups (SMGs) are active, Barcodes SMG awaits work requests
- 8 Mission-specific Working Groups (MSWGs) are active 1 is in group formation

Correction from last quarter:

- GDS-GPP Sustainability MSWG was reported closed but remains open for Implementation Guide development

Two (2) MSWGs closed:

- eCom Logistics Standards MSWG
- GDS Major Release 3 MSWG

5.1.1. DEVELOPMENT PROJECTS OVERVIEW FOR QUARTER

Table 7. Development Projects at a Glance

GSMP Strategic Projects (*OGSM)	Target	Step 1	Step 1B	Step 2	Step 3	Step 4
		Business Need Identified	Group Formed	Requirements Identified	Standard in Development	Deployment Materials
AIDC Healthcare Application Standard Updates	Dec '13	[Progress bar from Step 1 to Step 3]				
B2C Trusted Source of Data Implementation Guideline	Dec '13	[Progress bar from Step 1 to Step 3]				
Components and Parts Implementation Guideline	Dec '13	[Progress bar from Step 1 to Step 4, labeled "In Ratification"]				
EPCIS Core Business Vocabulary	Dec '13	[Progress bar from Step 1 to Step 3]				
Event Based Traceability - Security in Healthcare * (OGSM: Requirements in community review)	Dec '13	[Progress bar from Step 1 to Step 3]				
GDS GPP Sustainability Implementation Guideline	Jun '14	[Progress bar from Step 1 to Step 3]				
GDS Key Validation	Dec '14	[Progress bar from Step 1 to Step 2]				
GDS Major Release 3	Nov '13	[Progress bar from Step 1 to Step 4, labeled "Ratified"]				
GLN Allocation Rules Update	TBD	[Progress bar from Step 1 to Step 1B, labeled "In Group Formation"]				
UHF Air Interface 1 and 2 * (OGSM: MB approved)	Dec '13	[Progress bar from Step 1 to Step 3, labeled "IP declaration negotiation"]				

5.1.2. PROJECT UPDATES

- **AIDC Healthcare Application Standard Updates deliverable #2:** requirements document and technical analysis is complete. Five sub teams have formed to accelerate the standard development.
- **Components and Parts Implementation Guide:** in ratification
- **B2C Trusted Source of Data Implementation Guide:** standard development is complete. The group remains open to develop the implementation guidelines. Low participation interest is under assessment.
- **Event Based Traceability - Security in Healthcare:** the name of the Work effort has changed since last reported. From: Pedigree Security, Choreography and Checking Service, to: Event Based Traceability – First phase focused on “Security” component of EBT Standard. The group needs suppliers and solution providers participate. To complete on-time, additional face-to-face sessions and resources may be needed.

- **EPC UHF Air Interface 1 and 2:** Intellectual property (IP) was declared in the 2nd IP review. We are working with legal to assess the declarations and determine a plan forward.

5.1.3. GSMP DEVELOPMENT WORKING GROUPS SCORECARDS

Project level scorecards are provided for each development working group in GSMP. They include project description, risks, milestones, accomplishments and status. Monthly updates are available by the 7th day of the month, on our GSMP InSight webpage at www.gsl.org/gsm/scorecards.

5.1.4. STANDARDS MAINTENANCE GROUPS (SMGS) OPERATING

Table 8. Standards Maintenance Groups Operating

Group Name	Call to action Date	Group Status
1. Bar Codes	15 Apr 2010	Inactive due to lack of WR
2. Data Accuracy	15 Apr 2010	Working
3. eCom	15 Apr 2010	Working
4. Global Data Synchronisation (GDS)	15 Apr 2010	Working
5. Global Product Classification (GPC)	15 Apr 2010	Working
6. Identification	15 Apr 2010	Working
7. Traceability and Event Sharing	26 May 2011	Working

5.1.5. MISSION-SPECIFIC WORKING GROUPS (MSWG'S) OPERATING

Table 9. Mission Specific Working Groups Operating

Group Name	Call to action Date	Group Status
1. AIDC Healthcare Application Standard Updates	23 Feb 2012	Working
2. B2C Trusted Source of Data (TSD)	2 Dec 2011	Working on Phase II
3. Components and Parts	25-Aug-2011	Developing guideline
4. EPC Information Service (EPCIS) 1.1 and Core Business Vocabulary (CBV)	10 Jun 2012	Working
5. GDS-GPP Sustainability	10-Jun-2013	Working

6. GDS Key Validation	23 Feb 2012	Working
7. Event based traceability – security in healthcare formerly named Pedigree Security, Choreography and Checking Service	16 Aug 2012	Working
8. UHF Air Interface 1 and 2	Transitioned from EPC	Working

6. 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.

- GSMP community member (non-voting)
 - Company has signed GS1 IP Policy
 - Member has joined the GSMP group in GS1 Community Room
- GSMP community member (voting)
 - All of the above
 - A member of GS1
- GSMP Group Member
 - Company has signed the GS1 IP Policy
 - Company has signed the group Opt-in Agreement
 - Member has joined the GSMP group in GS1 Community Room

6.1. GSMP MEMBERSHIP

GSMP has 922 individual members, a 3% increase over the last quarter. Forty-five (45) are non-voting. Five hundred eighty three (583) users and 337 from Member Organisations (MOs)

GSMP has 377 member companies, a 4% increase over last quarter, forty-one (41) are non-voting.

Table 10. Membership Growth

	31 Dec 11	31 Mar 12	30 Jun 12	30 Sep 12	31 Dec 12	31 Mar 13	30 Sep 13
Individuals	541	608	678	742	802	867	922
Companies	245	268	284	315	332	363	377

Table 11. Individual Membership by Interest Category

Interest Category	# of Participants
Distributor/Group Purchasing	19
GS1 Member Organisation	337
Manufacturer	206
Other	83
Retailer/Hospital(13)	99
Solution Provider	178
Total	922

Table 12. Member Companies by Interest Category

Interest Category	# of Companies
Distributor/Group Purchasing	12
GS1 Member Organisation	45
Manufacturer	101
Other	54
Retailer/Hospital(11)	49
Solution Provider	116
Total	377

Table 13. Member Companies by Region

Region	# of Companies
Asia Pacific	32
Europe	164
Middle East & Africa	8
The Americas	173
Total	377

6.2. VOTING PARTICIPATION

Each company/organisation has one vote in GSMP, regardless of the number of participating individuals representing them. GSMP requirements and standards are approved by Community eBallots. Each eBallot requires approximately 12 votes with additional minimum requirements of supply chain role votes (unless a variation exists for the work effort). The average number of votes per ballot this quarter was 23, up from 20 last quarter.

6.3. EVENT ATTENDANCE

GS1 hosts two physical meetings every year for the GSMP community to collaborate face-to-face on industry needs and the development of GS1 Standards. This meeting is called the GS1 Standards Event. A summary of attendance is shown in the charts below. Note: Lisbon will be reported in Q4.

Table 14. GS1 Standards Event Attendance by member

By individual	Apr '11 Brooklyn	Sep '11 Cologne	Mar '12 Brooklyn	Oct '12 Dublin	Mar '13 Dallas
Member Organisations	84	122	103	112	95
End Users	59	58	42	56	49
Solution Providers	39	39	25	31	36
Affiliates (Academia, Assoc., Gov.)	13	7	5	12	10
Global Office Staff	50	51	49	49	53
Totals	245	277	224	260	243

Table 15. GS1 Standards Event Attendance by organization

By organisation	Apr '11 Brooklyn	Sep '11 Cologne	Mar '12 Brooklyn	Oct '12 Dublin	Mar '13 Dallas
Member Organisations	24	30	26	28	26
End Users	39	43	27	43	38
Solution Providers	27	26	20	23	29
Affiliates	10	6	5	9	7
Totals	100	105	78	103	100



Note: Apr '10 attendance was low due to travel restrictions caused by volcanic activity in Iceland

7. 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 ultimately meet the needs and requirements defined by its members.

7.1. DUE PROCESS

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

7.2. CONSENSUS

Decision-making is achieved through consensus, which is defined as approval without sustained opposition.

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

- Zero (0) due process infractions
- Thirty (33) eBallots were approved this quarter; 5 were approved with “no votes”
- Eight-one percent (87%) of ballots were approved unanimously, up from eighty-one percent last quarter
- Seven hundred fifty-seven (757) total yes votes were cast this quarter with 8 total ‘no votes’
 - Ninety-eight percent (99%) of votes were affirmative, up from ninety-eight the previous quarter

7.3. SATISFACTION

GS1 issues several surveys to measure satisfaction with GSMP. An annual survey sent to members, an annual survey sent to Member Organizations, and a survey sent to event attendees. Below are the GSMP results from all 3 surveys.

7.3.1. GSMP MEMBER SATISFACTION SURVEY

GSMP favourable results have been growing for last 3 years. Below are the results for the March 2013 survey. 92 of 867 members responded to the survey. Overall the strong points were overall satisfaction and satisfaction with GSMP staff. Weak points were the efficiency of the process.

Table 16. Overall GSMP member satisfaction survey

Questions	% FAVS/UNFAVS	
	2012	2013
Overall satisfaction with GSMP	n/a	66/10
Satisfaction with GSMP staff	80/1	84/6
Efficiency of process	49/15	44/19

7.3.2. GSMP EVENT SATISFACTION SURVEY

The GS1 Standards Event took place March 18-22 in Dallas, Texas, U.S.A. Attending the event were 243 individuals representing 100 companies and organisations from 25 countries. It was a memorable site each evening as our GS1 logo lit up the skyline of Dallas. By day, participants actively collaborated to drive development of standards, industry guidelines and future roadmaps. For a report of accomplishments, see the Work Group Report on the post event website: <http://www.gs1.org/events/2013/dallas/post-event/welcome>. Note: Lisbon will be reported in Q4.

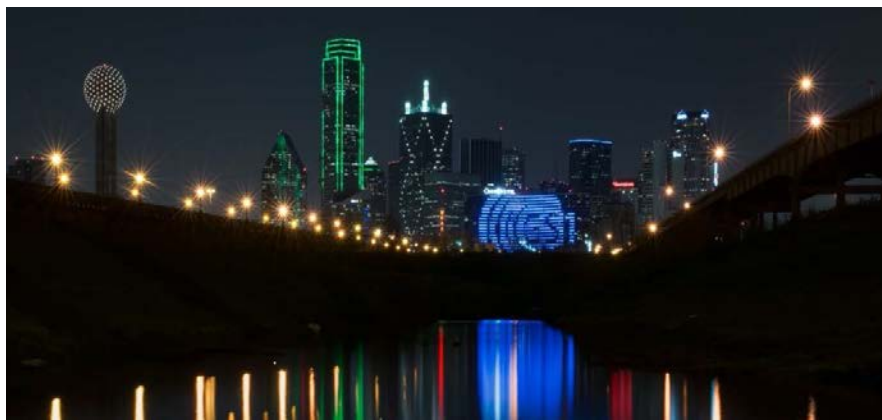


Table 17. Standards event satisfaction survey

Questions	%favourable/%unfavourable
Overall satisfaction with the event	89/2
Event facilities	95/3
Agenda	79/4
Working groups you attended	87/3
Working groups facilitator	84/4

7.3.3. GS1 MEMBERS ORGANIZATION SATISFACTION SURVEY

GS1 issues an annual survey to all GS1 Member Organisations (MOs) to rate their satisfaction with GSMP. GSMP favourable results have been growing for last 3 years. Below are the results for the March 2013 results. 92 MOs responded to the survey.

Table 18. MO satisfaction survey

	% favourable/% unfavourable		
	2013	2012	2011
GSMP	61/1	57/5	51/5



Note: GSMP favourable responses are 61%, up from 57% last year

7.3.4. WORK-ORDER ON-TIME PERFORMANCE

Work Requests are the entry point into the GSMP process to request new standards or modify existing standards. Work Requests follow the process and procedures laid out in the GSMP Manual for approval and development. The time it takes for GSMP projects to be processed are measured below.

7.3.5. MAINTENANCE ON-TIME PERFORMANCE

A Work Order is categorised as maintenance if it is a single or a group of small changes to an existing standard or guideline that can be handled by a standing committee. Examples: errata, new EDI code values, new symbol placement rules, GDSN Validation Rules. Maintenance Type 1 is considered on-time if it is completed in or under 180 days; Maintenance Type 2 is considered on-time if completed in or under 365 days. Maintenance on-time performance is measured from the submission date to the GSMP work complete date and ready for ratification (if applicable).

Ninety-one percent (91%) of Maintenance Work Requests closed on-time as of 30 September 2013, consistent with last quarter. The on-time close rate by technology is detailed below:

Table 19. Maintenance on-time performance

SMG	Total closed	Closed on-time	Exceeded benchmark	% Closed on-time	Withdrawn or not approved	Remain open
AIDC	50	37	13	74%	20	22
Data Accuracy	4	4	0	100%	0	1
eCom	78	67	11	86%	18	6

GDS	209	208	1	100%	16	7
GPC	66	58	8	88%	24	12
Traceability & Event Sharing	2	0	2	0%	2	1
Totals	409	374	35	91%	80	49

7.3.6. DEVELOPMENT ON-TIME PERFORMANCE

A Work Order is categorised as development if it involves creation of a new standard/guideline or significant change to existing standard/guideline. Examples: extension to GDSN, a new EPCglobal High Frequency (HF) Air Interface Standard, an enhancement to the EPCIS standard to include aggregation layers, a new bar code 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.

A work effort is considered on-time if the work completes within 30 days of its targeted delivery date.

Table 20. Development on-time performance

Work Effort	Original Completion Date	MB Ratified Date	Status
Level Below Each	30 Jun 2013	12 Jun 2013	On time
Components and Parts Standard (OGSM – ready for MB approval)	30 Nov 2012	20 May 2013	On time
eCom Logistics Standards Warehousing Phase II Messages	30 Jun 2013	12 Jun 2013	On time
GDS GPP Sustainability	30 Jun 2013	9 Jul 2013	On time
GDS Major Release	30 Nov 2013	29 Aug 13	On time



Note: on-time if the work completes within 30 days of its targeted delivery date

8. GSMP GOVERNANCE GROUPS

8.1. BOARD COMMITTEE FOR STANDARDS (BCS) MEMBERS

Volker Zeiner, B. Braun

Miguel Lopera, GS1
Maria Palazzolo, GS1 Australia – Chairperson
Art Smith, GS1 Canada
Pierre Georget, GS1 France
Elzbieta Halas, GS1 Poland
Bernie Hogan, GS1 US
Lori Bigler, J.M. Smucker Co.
Antonius Kromwijk, Nestle
Juan Antonio Sanfeliu, Manufacturas Antonio Gassol
Gerd Wolfram, METRO AG

8.2. PROCESS OVERSIGHT COMMITTEE (POC) MEMBERS

Pat Vessey, Best Buy
Hanjoerg Lerch, METRO AG -Co-Chair
Robin Kidd, Nestle
Steve Robba, 1 Worldsync
Ron Moser, Wal-Mart
Steven Pereira, GS1 Australia
Mike Sadiwnyk, GS1 Canada – Co-Chair
Natascha Rossner, GS1 France
Klaus Foerderer, GS1 Germany
Marco Belanos, GS1 Mexico
Loek Boortman, GS1 Netherlands
Fiona van der Linde, GS1 South Africa
Mary Wilson, GS1 US

8.3. TECHNICAL STANDARDS COMMITTEE (TSC) MEMBERS

Steve Halliday, High Tech Aid – Co-Chair
Chris Diorio, Impinj

8.4. ARCHITECTURE GROUP MEMBERS

John Terwilliger, Abbott Laboratories
Mark Harrison, Auto-ID Lab Cambridge
Junyu Wang, Auto-ID Lab Fudan
Josef Preishuber-Pflügl, CISC
Tony Zhang, FSE Inc.
Ken Traub, Ken Traub Consulting
Jens Kungl, MGI METRO
Vera Feuerstein, Nestlé – Co-Chair
Robert Abate, Wal-Mart- New member
Fred Kempkes, Unilever – New member
Sue Schmid, GS1 Australia – Co-Chair
Eugen Sehorz, GS1 Austria
Kevin Dean, GS1 Canada

Xavier Barras, GS1 France
Andreas Fuessler, GS1 Germany
KK Suen, GS1 Hong Kong
Roberto Matsubayashi, GS1 Brasil
Hein Gorter de Vries, GS1 Netherlands
Kunle Oye-Igbemo, GS1 Nigeria
Pere Rosell, GS1 Spain
Staffan Olsson, GS1 Sweden
Andrew Osborne, GS1 UK
David Buckley, GS1
Henri Barthel, GS1 – Co-chair
Sean Lockhead, GS1

9. GSMP INSIGHT (REPORTING) DOCUMENTS AND CONTACT US

- Access this document and other GSMP InSight (reporting) documents at this website: www.gs1.org/gsm/insight
- Please contact Eileen Harpell with your questions or suggestions: Eileen.Harpell@GS1.org