
How standards are developed in GS1

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Log of Changes

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<td>3.0</td>
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<td>Two key process changes made were: 1) Removed the need for the formation of an “SMG” to make “process” changes and 2) reassign some of the tactical actions the Industry Engagement Steering Committee (IESC) is required to perform.</td>
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<td>3.1</td>
<td>Mar 2017</td>
<td>E.Harpell</td>
<td>As a result of the implementation of Best in Class, and the need to deliver standards at the speed at which business changes, removed obsolete process parameters that do not serve a purpose in today’s business world. The following changes were made: Allow documents that do not change from Community Review to directly enter Community eBallot Allow Work Groups to determine how they achieve consensus for Work Group Motions/Ballots Add the use of sub-teams in a GSMP Work Groups Remove the term “work order” as not used Replace “Working Group” with “Work Group” for simplicity Combine redundant sections of the manual and remove duplicated content Documented the role of the Architecture Group as approved by the Board Committee for Standards Documented the role of the Industry Engagement Steering Committee as approved by the Board Committee for Standards.</td>
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Appendix: Voting Procedures

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Appendix: Piloting of GS1 standards and guidelines
1 Introduction

This document defines GS1’s Global Standards Management Process, or GSMP. It is written in 2 parts, the first section is an overview and the second section provides more in depth detail.

General Information

■ What is GSMP?
■ Principles

Deliverables

■ Deliverables: the things that are developed in GSMP

Organisation and Participation

■ How GSMP is Organised – the GSMP Community
■ Different Ways to Participate in GSMP
■ Direct Participation in Work Groups
■ Work Groups and Governance Groups
■ Work Group Membership Requirements

The GSMP 4-Step Process

■ The 4-Step Process for Creating a GSMP Deliverable
■ Step 1: Work Requests and Steering
■ Step 2: Requirements Analysis
■ Step 3: Development
■ Step 4: Collateral
■ Drafting, Finalisation, Community Review, eBallot
■ Work Group Meetings
■ Work Group Decision Making

Policies

■ Appeals
■ Loss of Membership Rights
■ Policies: Anti-Trust, Code of Conduct, IP
■ Publication of GSMP Deliverables

Throughout this document, the symbol in the left margin says where further information can be found by consulting one of the appendices.

Key to colours used in figures

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2 What is GSMP?

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**: documented agreements 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 documented agreements that assist individual organisations in understanding and applying GS1 standards.

- **Collateral materials**: other publications that provide an understanding of GS1 standards and guidelines and how to use them.

Deliverables are created through the **GSMP 4-Step Process**. In each of the four steps, an intermediate deliverable or final deliverable is created by a Work Group through a Consensus Development Process which is designed to ensure that all members of the GSMP Community have the opportunity to shape and approve each deliverable. The four steps are: Steering, Requirements, Development, and Collateral. GS1 standards and guidelines are created in the Development step, based on the intermediate deliverables created in the Steering and Requirements steps. The Collateral step creates any additional collateral materials that are needed.

Every GSMP Deliverable is created by a **Work Group** or in some cases a deliverable is developed outside of the group and submitted to the group for review and processing. A Work Group consists of members of the GSMP Community who come together to work on a particular Deliverable. Any member of the GSMP Community may join any Work Group by opting into the Work Group. Membership in Work Groups is balanced to ensure that each Work Group has sufficient representation and subject matter expertise, so that the final deliverable reflects a balance of concerns across all affected stakeholders.

Each deliverable reflects the consensus of the GSMP community. Consensus is achieved first among members of the Work Group that contribute to the authoring of the deliverables, then confirmed through a review and eBallot by the entire GSMP community. In some cases, an even wider consensus is obtained by offering the public at large the opportunity to review and comment.

Once the GSMP community confirms its acceptance of a GS1 standard or guideline, it is ratified by the GS1 Management Board and published by GS1. The GS1 standard or guideline is then freely available for anybody in the world to download, read, and adopt.

The remaining sections of this manual explain all of this in greater detail.
3 Principles

GSMP is founded upon a set of principles intended to ensure fairness and broad acceptance.

**Openness & Transparency**
- The standards development process is open to all organisations to join and its workings are made visible to all participants.

**User Driven Standards**
- GS1 standards are created in response to business needs clearly articulated by participating organisations. Equally important, they are developed only where there is the expressed will (by stakeholders) to implement the resulting standards.

**Consistency**
- GS1 standards drive consistency and interoperability between the stakeholders who adopt them. All GS1 standards are validated during their development to fit in the GS1 System Architecture and adhere to architectural principles.

**Stakeholder Participation**
- Participation in GSMP is open to all GS1 system users and all stakeholders impacted by a defined business issue; this includes End Users, Solution Providers and GS1 Member Organisations representing their local End Users and Solution Providers. These stakeholders come from companies of all sizes, in multiple industries, and across all geographies.

**Standards Protection**
- Standards developed through the GSMP are maintained by GS1 on behalf of all GS1 stakeholders. The GS1 standards are protected by the GS1 Intellectual Property Policy for the benefit of all GS1 stakeholders.

**Governance**
- The GSMP is accountable to GSMP governance groups and ultimately to the GS1 Management Board, all of which are populated by End Users of the GS1 system.

**Consensus and Voting**
- All GSMP deliverables are developed in a process that strives for consensus of all stakeholders. All voting members have an equal voice in determining outcomes. When consensus is not possible, a formal process exists for recording the approval or (any) disapproval of final standards solutions. Participation and voting minimums ensure that the result of a vote is not unduly influenced by any one stakeholder or group.

**Global Applicability**
- GS1 standards strive for global applicability across multiple industry sectors. Priority is given to commonality wherever possible across different sectors, and for relevance to companies of all sizes.
4 Deliverables: What Is Developed in GSMP

The principal deliverables from GSMP are GS1 standards and guidelines, as defined in the GS1 System Architecture:

- **GS1 standards**: A GS1 standard is a specification that defines the behaviour of one or more system components so that interoperability goals are achieved. Standards contain normative statements, which specify what a system component must be or do in order to be in conformance to the standard; a standard is written in such a way that conformance to the normative statements is a sufficient condition for a component to achieve the interoperability goals for which the standard is designed.

- **GS1 guidelines**: A GS1 guideline is a document that provides information considered useful in implementing one or more GS1 standards. A GS1 guideline never provides additional normative content beyond the standards to which it refers; instead, the purpose of a GS1 guideline is to provide additional explanation and suggestions for successful implementation.

GS1 standards may be further distinguished according to the type of normative content they contain: can be found in the [GS1 System Architecture](#).

All GS1 standards and guidelines are subject to a mandatory review 3 years after the original publication date. This review will result in reaffirmation or a Work Request for the GS1 standard or guideline to be withdrawn, updated, or the determination that no change is needed. The review is conducted by the Standards Maintenance Group (SMG) responsible for the standard or guideline, or by another group appointed by the Vice President of Standards Development.
5 How GSMP Is Organised – the GSMP Community

All GSMP Deliverables are created by the GSMP Community, which consists of:

- **Voting Members**: Organisations that join GSMP with full voting rights, including:
  - **GS1 or GS1 MO Members**: Companies or other organisations that are members in good standing of GS1 or one or more GS1 Member Organisations (MOs), according to their membership criteria. These include:
    - **End Users**: Companies and other organisations that make use of components of the GS1 system (especially GS1 standards) to conduct their business.
    - **Solution Providers**: Companies and other organisations that offer products and services that help end users implement the GS1 system (especially GS1 standards).
  - **GS1 Member Organisations (MOs)**: Over 100 not-for-profit organisations that administer the GS1 system and provide local support and represent end users within a given country or assigned area. Within GSMP, GS1 MOs represent End Users and Solution Providers who do not wish to participate directly in GSMP Work Groups. This is especially important where language or geography would otherwise create an insurmountable barrier to participation.

- **Non-Voting Members**
  - **GS1 Global Office (GO)**: The GS1 Organisation that facilitates GSMP. GO staff provide facilitation and subject matter expertise to GS1 Work Groups and Governance Groups.
  - **Non-Voting GSMP Member**: An organisation that is not a member of GS1 or a GS1 MO but who wishes to participate in GSMP. Such an organisation may not comment or vote.

All GSMP Deliverables are created by GSMP Work Groups and voted upon by the voting members of the entire GSMP community. Any GSMP Community member may join a GSMP Work Group.

Oversight of GSMP is provided by the Board Committee for Standards. GSMP Operations provides staff support to facilitate GSMP.

Different Ways to Participate in GSMP
Direct Participants in GSMP have access to work-in-progress and contribute to the creation of deliverables. All Direct Participants must sign the GS1 IP Policy. Direct participation roles include:

- **Opted-In Work Group Member**: An organisation that signs the GSMP IP Policy and opts-in to a specific GSMP Work Group may participate in all stages of work, from initial drafting to final review and voting. Consensus of the Opted-In Work Group members is required to finalise a deliverable for community review and community eBallot.

- **Non-Voting Work Group Member**: An organisation that is not a member of GS1 or any GS1 Member Organisation (MO) may sign the GSMP IP Policy and opt-in to a GSMP Work Group, but may not submit formal comments nor vote. They do not count towards Work Group membership minimums.

- **GSMP Community Member**: An organisation that signs the GSMP IP Policy is a GSMP Community Member. A voting GSMP Community Member has the opportunity during Community Review to review and comment on a deliverable whether or not it is opted-in to that Work Group. Following any revisions stemming from Community Review, consensus of the GSMP community is obtained through a community eBallot of all Voting GSMP Community Members.

Any organisation may join the GSMP Community and/or opt-in to any GSMP Work Group. An organisation may send any number of representatives to meetings; however, all votes are conducted on the basis of one organisation, one vote.

Indirect Participants in GSMP do not have access to work-in-progress nor do they vote at any stage, but they may provide input to GSMP Work Groups under specified conditions. Indirect Participants include:

- **End Users and Solution Providers** (other than Direct Participants) who are represented by their local GS1 Member Organisation (MO). The MO joins the Work Group and relays explicit contributions of indirect participants as well as any other knowledge or opinions obtained from them. The MO must identify each indirect participant it represents in this way.

- **Members of industry trade organisations, regulatory bodies, or other bodies whose input is sought by a Work Group** (other than those who join as Direct Participants).

- **In some circumstances**, a Work Group may post a deliverable for public comment prior to eBallot; in such cases, any member of the public may contribute a comment at that stage.

While Indirect Participants do not sign the GS1 IP Policy, they must accompany each contribution with a signed GS1 IP Contribution Form. Their access to work-in-progress may be limited compared to Work Group members, unless they sign an MO IP Policy designed to provide similar access rights as the GS1 IP Policy.
6 Direct Participation in Work Groups

The majority of the work done to create a GS1 standard or guideline is carried out by the Direct Participants in GSMP Work Groups. All Direct Participants of a Work Group must sign the GS1 IP Policy and Opt-in to that Work Group. This gives Direct Participants full rights to access work-in-progress of the group, to influence the content by participating in discussions during Work Group meetings and contributing to the drafting of Work Group deliverables, and (except for non-voting members) to finalise the deliverables for community review and eBallot.

Direct Participants are expected to commit to regular participation in their Work Groups so that the business of the Work Group may be carried out as expediently as possible. Recognising that not all Work Group members have the capacity to contribute equally, the following types of direct participation are provided for by GSMP:

- **Regular Work Group Member**: A representative of an opted-in Work Group member company who participates directly in regular Work Group meetings facilitated by the GS1 Global Office. In many workgroups, regular work group members are expected to attend all work group meetings, with the understanding that occasional absences inevitably occur. Other work groups choose to organise into teams, for example:
  - A core editorial team of work group members who are able to attend work group meetings on a weekly or bi-weekly basis.
  - A peripheral team of work group members who do not attend every work group meeting, but who attend meetings specially arranged to include the peripheral team, typically on a monthly or every six week basis. This allows the core editorial team to make steady progress, while regularly consulting with the peripheral team who may have deep subject matter expertise but who are unable to commit the time needed to join the core editorial team.
  - A sub-team of work group members may work in separate meetings specially arranged to progress a work effort and bring that work effort back to the main group.

- **Distributed Work Group Member**: A representative of an opted-in Work Group member company who participates in Work Group meetings organised by a local GS1 MO, typically in a different language or at a more convenient time of day than can be provided by the GS1 Global Office. GS1 MO representatives, along with regular work group members who choose to attend distributed work group meetings, are responsible for ensuring that input from distributed members is incorporated into the work product of the regular work group. When a Work Group has affiliated Distributed Work Groups, it must proceed more deliberately to ensure that the Distributed Work Groups are fully integrated into Work Group decision making. This means providing adequate advance notice of pending Work Group decisions, and greater use of electronic communication and virtual votes.

  Voting rights are the same regardless of whether an organisation chooses to participate via a distributed work group, a regular work group, or both.

- **Non-voting Work Group Member**: An organisation that is not a member of GS1 or of any GS1 MO may still send a representative to a GS1 Work Group meeting, but such organisations may not submit formal comments nor vote. Non-voting members do, however, sign the GS1 IP Policy and opt-in to the Work Group.
7 Work Groups and Governance Groups

GSMP has three standing Governance Groups:

- **Board Committee for Standards (BCS):** The BCS is the governing body of GSMP, reporting to the GS1 Management Board, who is responsible for ratifying GS1 standards and guidelines. The BCS confirms that due process is followed in all GSMP activities, and is the last point of appeal in case of conflict. The other two Governance Groups are accountable to, and work under the authority of, the BCS.

- **Industry Engagement Steering Committee (IESC):** The purpose of the IESC is to approve and prioritise work undertaken in GSMP based on established entrance criteria (especially, commitment of industry to adopt the deliverables). In addition, the IESC acts as an advisory body to the BCS.

- **Architecture Group (AG):** An advisory body to the BCS whose primary responsibility is to develop and document the GS1 System Architecture and, by reference to the architecture, assure the technical integrity, consistency and efficient interoperation of the GS1 system.

Also shown in the figure is **GSMP Operations**, a group of GS1 GO staff and others who facilitate the day-to-day operation of GSMP. It is not a Governance Group, but provides assistance to all other parts of GSMP.

In contrast to Governance Groups, there is not a fixed set of Work Groups. Instead, Work Groups are created as needed based on the work to be done in GSMP. Every Work Group is open for all GSMP Community members to participate; while there is a minimum number of participants required in each Work Group to ensure adequate representation, there is no maximum.

The current list of GSMP Work Groups is maintained separately from this document and is available in the work group section of the Standards Development web site. There are two types of Work Groups:

- **Standards Maintenance Group (SMG):** An SMG has indefinite lifetime and is responsible for the ongoing maintenance and enhancement of one or more existing GS1 standards or guidelines. SMGs provide continuity of expertise, as well as rapid response to requests for small changes.

- **Mission-Specific Work Group (MSWG):** An MSWG is formed to do a specific piece of work as described in its Charter, and disbands when the work is complete. MSWGs are created for most work efforts of substantial scope. Work Group Membership Recommendations
GS1 standards and guidelines are intended to meet global needs and reflect a broad consensus of the GS1 community. All GSMP Work Groups are subject to minimum requirements for membership and voting in order to ensure that a suitable cross-section of the community is involved in the output. Failure to meet minimum membership requirements results in remedial actions designed to restore membership, or else change course to reflect a change in community interest in and support for a work effort.

The specific minimum requirements for any Work Group are set forth in its charter. Each organisation counts only once toward meeting the minimum, regardless of how many individual representatives of an organisation participate. Typical minimums are:

- A minimum of 12 organisations must vote. Only organisations eligible to vote count toward the minimum requirement.
- A minimum balance of different participant roles must be achieved. A recommended balance for a Work Group are:
  - Two Data Source (voting organisations) from one side of the relevant trading relationship
  - Two Data Recipients (voting organisations) from the other side of the relevant trading relationship
  - Two MOs
  - Solution Providers

The minimum requirements are intended to be flexible enough to accommodate different kinds of standards efforts provided that the overall goal of balance is still met. For example, if a given work effort affects user companies falling into three distinct trading roles, then that Work Group should specify at least two End Users from each of the three roles in addition to the other roles (e.g., in the Pharmaceutical industry, this might be Manufacturer, Distributor, Pharmacy). In certain circumstances, there may be a clear need to identify Solution Providers as part of the balance rule. For example, a Work Group developing a technical standard such as an RFID air interface protocol might not distinguish user company’s roles, but may distinguish solution provider roles; e.g., it may require just two user companies of any type, and additionally require two RFID tag vendors and two RFID reader vendors.

Similar minimum requirements are established for participation in a Work Group before the group can form. If a group falls below its stated participation minimums, the Vice President of Standards Development is informed.

It is recommended that each Work Group elect two co-chairs from among its members and that at least one co-chair be present at each Work Group meeting or teleconference.
### 8 The 4-Step Process for Creating a GSMP Deliverable

#### GSMP Step | What Happens | Outputs
--- | --- | ---
1 Steering | A Work Request enters the system from a GSMP Community or Staff Member. **Development:** GSMP Operations, with final consideration and approval by the IESC considers pending Work Requests. Most of the work in this step is carried out by GSMP Operations, with the IESC **Maintenance:** GSMP Operations with the final consideration by the SMG considers pending Work Requests for entrance into the SMG. Information to assess the GSMP entrance criteria provided by the submitter in the original Work Request becomes the initial draft of the Business Case. | **Internal outputs:** Approved Work Request

2 Requirements | Work Group analyses and documents business requirements for meeting the stated business need. | **Internal outputs:** Business Requirements Analysis Document (BRAD) or other documented requirements

3 Development | Work Group develops a GS1 standard or guideline to meet the requirements. | **Public outputs:** Ratified GS1 standard or guideline, or ratified revision to existing GS1 standard or guideline

4 Collateral | Work Group develops collateral materials (for example: impact statement, value proposition, migration plans, FAQs, etc.). | **Public outputs:** Collateral materials
8.1 Step 1: Work Requests and Steering

Step 1 of GSMP begins with a GSMP Work Request. Any GS1 member, or Global Office staff in support of the community, may file a Work Request, suggesting a new effort to be initiated in GSMP. A Work Request can ask for something as simple as correcting an error in a published standard to something as complex as creating a completely new GS1 standard or guideline, as well as anything in between.

Work Requests are assessed and approved for development in three stages:

1. The GSMP Operations team reviews the Work Request to confirm that all information needed to assess the entrance criteria has been provided. If not, the Work Request is returned to the submitter to complete. Otherwise, GSMP Operations routes the Work Request to the next stage. Work Requests for simple maintenance or correction of errata in existing GSMP deliverables are routed directly to the responsible SMG without further assessment. Anything else proceeds through the next steps below.

   **GSMP Operations provide an initial response within 14 days of submission.**

2. The Work Request is assessed in the following two areas, collectively called "steering":
   - Does the Work Request meet or exceed the entrance criteria established for new GSMP work? This includes a commitment to implement from a sufficient number of community members. If not, the Work Request is returned to the requestor.
   - How does the Work Request relate to the entire portfolio of GS1 standards, the GS1 System Architecture, and to other GSMP work already planned or in progress? The GS1 Architecture Group may be consulted at this stage. This assessment leads to a determination of:
     - Whether to combine this Work Request with others in the pipeline, and/or split it into multiple efforts
     - Which GSMP Work Group should carry out the work: an existing SMG or a new MSWG
     - If a new MSWG is called for, the new MSWG’s participation minimums and related SMG

   The IESC has decision authority over development work that enters GSMP; however, GSMP Operations carries out a detailed analysis prior to bringing the Work Request to the IESC, including obtaining input from the appropriate GS1 Industry Engagement Groups, so that the work of the IESC itself is focused more on approval than on analysis.

3. The GS1 Global Office Leadership Team confirms that the work is consistent with the GS1 Strategy and that the proposed timing of the work is aligned with the available resources. GSMP Operations drafts a Work Group charter (if a new MSWG is to be formed) and the President of GSMP, as an IESC Member, confirms that the charter is consistent with the IESC’s intent.

   **The IESC and Global Office must provide an initial response within 45 days of the original submission**

Because the steering assessment in Step 1 may combine incoming Work Requests that should be handled together and/or split incoming Work Requests that are too large to carry out at once, the Work Requests that proceed through the process are not necessarily in one-to-one correspondence with the original Work Requests. Each Work Request carries links to the relevant original Work Request(s).
8.2 Step 2: Requirements Analysis

In Step 2 of the GSMP 4-step process, a Work Group analyses the business requirements that arise from the information provided in the Work Request. The form the requirements analysis takes depends on the scope of the Work Request:

- For most development efforts to create or revise a GS1 standard, or where the ultimate outputs are uncertain pending requirements analysis, the result of requirements analysis is a Business Requirements Analysis Document (BRAD). Most of the time this is based on the established BRAD template. For certain types of requirements analysis efforts, there may be other recommended tools or intermediate work products to help in the creation of good business requirements, such as use case templates, and so forth.

- For a Work Request to create a GS1 guideline, some sections of the BRAD template may not apply. The requirements analysis phase should concentrate on documenting all of the use cases that the guideline needs to address.

- For a Work Request to address errata in a published GS1 standard or guideline, or for extremely narrow maintenance Work Requests, it may be more appropriate simply to document the changes that are needed. For purposes of Step 2, this need not be extremely precise; e.g., it suffices in Step 2 to document a requirement “change all occurrences of ‘Widget’ to ‘Approved Widget’”, rather than document each place in the existing standard where such a change must be made.

- For maintenance Work Requests pertaining to EDI and GDSN where requirements are periodically consolidated and fed back to GSMP Step 1, the result of requirements analysis may take a highly stylised form, such as a row added to a spreadsheet that will form the basis for the subsequent consolidated Work Request.

Most of the time spent in Step 2 takes place within the “drafting” sub step (2.1). The Work Group begins a draft BRAD or other output as soon as possible, and revise this draft as work progresses over the course of work group meetings.

When the Work Group believes that the BRAD or other output is complete, it proceeds to finalisation, community review, and eBalloting. These sub steps are described in more detail in section 9.

Following the completion of a successful eBallot, the BRAD or other output is now a final document (see section 15). If the Work Group is chartered to both requirements analysis and development, the Work Group proceeds to GSMP Step 3. Otherwise, the Working Group has completed its work. Different requirements may be routed to different work groups, and/or combined with others to be addressed in a single development effort.
8.3 **Step 3: Development**

In Step 3 of the GSMP 4-step process, a Work Group develops a GS1 standard or guideline according to the Work Request, guided by the business requirements that were developed in Step 2. The deliverable may be a completely new GS1 standard or guideline, or it may be a new version of an existing GS1 standard or guideline.

Most of the time spent in Step 3 takes place within the "drafting" sub step (3.1). The Work Group begins a draft standard or guideline or other output as soon as possible, and revises this draft as work progresses over the course of work group meetings. When appropriate, the Work Group may solicit assistance at this stage from GS1 Global Office staff who are assigned to provide specific technical help to Work Groups. Examples include UML modelling, technical writing, and others.

When the Work Group believes that the draft standard, guideline or other output is complete, it proceeds to finalisation, community review, IP review, eBalloting, and ratification. These sub steps are described in more detail in section 9. All of these sub steps, in the figure above, are required.

Depending on the nature of the Work Request, there may be additional sub steps in Step 3:

- (Sub steps 3.5–3.7) If the Work Request is to develop or revise a GS1 standard for which GS1 offers a conformance certification program, the Work Group also develops a Conformance Requirements document. This document is drafted, finalised, and community reviewed separately from the GS1 standard itself. The Work Group is encouraged to overlap work on the Conformance Requirements document with other work; normally work on the Conformance Requirements document begins when the draft GS1 standard is finalised.

- (Sub step 3.8) For technical GS1 standards, it is highly encouraged for a Work Group to conduct Prototype Testing following community review of the standard. During Prototype Testing, members of the Work Group each attempt to implement the standard, and compare these efforts with each other to identify potential areas where the standard document may be insufficiently clear or contains errors. As a result, further revisions may be made to the draft standard.

- (Sub step 3.4) If a Work Group develops conformance requirements, carries out prototype testing, or both, a preliminary IP review may be done in order to uncover IP issues as early as possible, while work on the former tasks is underway. This does not eliminate the need for the final IP review, which the GS1 IP policy requires be initiated 30 days prior to ratification. A preliminary IP review is not necessary if no significant time would elapse between it and the final IP review.
8.4 **Step 4: Collateral Development**

In Step 4 of the GSMP 4-step process, a Work Group develops collateral materials that are used to support deployment of GS1 standards and guidelines by end users, solution providers, and MOs. These materials may include any of the following. Note that not all such materials need be created by a GSMP Work Group; in many cases, it will be more appropriate for GS1 Global Office or MO staff to do so. In the collateral planning sub-step (4.1), the Work Group decides which materials it will create.

- **Impact Statement**: The Impact Statement describes issues that user companies may face in deploying the new GS1 standard or guideline, particularly as it relates to compatibility, transition, and interaction with other GS1 standards and guidelines. The Impact Statement may also provide some qualitative information as to the size of the effort that is likely required to deploy.

- **Value Proposition**: The Value Proposition describes why a user company or solution provider should implement the standard, in business terms that they can take to their budget holders for approval. For example, the Value Proposition might indicate the expected cost to implement and compare it to the expected benefit to the user companies.

- **Implementation/Migration Plans**: These documents are intended to answer questions such as: How will end users adopt a new or revised standard and at what pace? Is there a need for coordinated community action? Do two (or more versions) co-exist and what are the sunrise and sunset dates?

- **Training Materials/Support Tools**: These are materials intended to help the user understand the key concepts and principles upon which a GS1 standard is built, specific material or exercises to support classroom or online trainings, and online tools that provide simplified access to a given GS1 standard or guideline.

- **Marketing Collateral**: Marketing Collateral refers to materials intended to introduce the GS1 standard or guideline to user companies, solution providers, and other community members who may have no prior knowledge of the GS1 standard or guideline or who may not understand to what extent it applies to them. The purpose of Marketing Collateral is to achieve as broad adoption as possible by encouraging community members to examine the new GS1 standard or guideline and determine how it may be of benefit to them. Examples of marketing collateral include:
  - Brief Abstract
  - Frequently Asked Questions
  - Overview Slides
  - Areas of Applicability

After the initial publication of collateral materials, the Work Group may be asked to revise them as necessary.
In Steps 2, 3, and 4 of the GSMP 4-Step Process, a work group creates a deliverable that is approved by the GSMP Community through an eBallot. Within each of these steps, the work group carries out the following sub steps which are designed to drive towards progressively wider consensus.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Exit Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drafting</td>
<td>This is the step where the majority of time is spent. The Work Group carries out the work to create the GSMP Deliverable(s) for this step, through Work Group meetings and electronic communication between meetings. Typically, a Work Group appoints a Work Group member or GS1 staff member to act as Editor for the deliverable(s). The group may choose to delegate work to a smaller editorial committee within the Work Group and less frequent meetings of the entire Work Group to ensure consensus is reached. At all stages of development, the Work Group must seek to reach consensus.</td>
<td>The Work Group agrees, through a Work Group Motion, to enter the Finalisation sub-step.</td>
</tr>
<tr>
<td>Finalisation</td>
<td>The editor prepares a Final Work draft. All members of the Work Group are asked to do a final review of this draft and provide comments. The Work Group addresses all comments, resulting in a Community Review draft.</td>
<td>A Community Review draft is ready. The Work Group agrees, through a Work Group motion or Work Group Ballot, to enter Community Review.</td>
</tr>
<tr>
<td>Community Review</td>
<td>The Community Review draft is posted to the entire GSMP Community for a recommended period of at least 14 days (see Appendix F.6 for exceptions). This timeframe may be changed by the work group to meet the needs of business. Interested members of the GSMP Community provide comments. The Work Group then addresses each comment received during community review, either by making a change to the Deliverable or recording a reason why no change was made. For technical standards, prototype testing may take place resulting in further revisions. When all revisions are complete, the resulting draft is a Candidate document (Candidate Standard, Candidate Guideline, etc.)</td>
<td>A revised draft is complete. All community comments are addressed, as are issues arising from prototype testing (if applicable). The Work Group agrees, through a Work Group motion or Ballot, to proceed to Community eBallot. If the Community Review draft is not changed, the document can proceed directly to Community eBallot.</td>
</tr>
<tr>
<td>Community eBallot</td>
<td>The Candidate document is posted to the entire GSMP Community for a recommended period of at least 7 days. This timeframe may be changed by the work group to meet the needs of business.</td>
<td>The deadline for the eBallot is reached, and at least 2/3 of the votes are affirmative.</td>
</tr>
<tr>
<td>Ratification</td>
<td>(For GS1 standards and guidelines only.)</td>
<td>The GS1 Management Board</td>
</tr>
</tbody>
</table>

Appendix F.5

Appendix F.6
10 Work Group Meetings

GSMP Work Groups and Governance Groups conduct business through teleconferences and physical face-to-face meetings (collectively referred to simply as "meetings"), as well as through electronic mail and electronic voting facilities of the GSMP Community Room.

- An invitation is sent to members and the Community Room calendar in advance of each meeting.
- Each meeting has a written agenda, distributed to all group members via the Community Room prior to the meeting. The agenda is distributed at least three days in advance of a periodic weekly meeting, or at least one week in advance of a less frequent or irregularly-scheduled meeting.
- Minutes are taken at each meeting by the group facilitator or co-chair and made available to all group members via the Community Room. Minutes indicate the name and organisation of every meeting attendee. To facilitate this, the group facilitator or co-chair ensures that an accurate roll call is taken or sign-up sheet used. Minutes also include a record of business transacted at the meeting, sufficiently detailed so that group members who missed the meeting can understand what took place and participate in subsequent group work on an equal footing with those members who were present.
- Every attendee of a Work Group meeting shall belong to an organisation that has signed the IP Policy and opted-in to the Work Group. The group facilitator confirms this.
- Attendance at a group meeting should meet the minimum membership requirements established by the group work plan. A group may choose to continue a meeting even if minimum membership requirements are not met. If a meeting does not meet the minimum membership, the group may choose to supplement a group decision or motion by a Group Virtual Vote or email.) In general, the group should be cautious about progressing too far when minimum membership is not present.
- The first order of business on every meeting agenda are the anti-trust caution and code of conduct reminder, and approval of prior meetings' minutes.
- Group business is carried out through consensus of the group membership (See section 6).
- Group members are be encouraged to carry on group business between group meetings by using the electronic mail facilities of the Community Room. Messages sent using the Community Room mail list are archived in the Community Room and available for all group members to review.
11 Work Group Decision Making

GSMP Work Groups (WGs) make decisions by consensus. Consensus is defined as general agreement, characterized by the absence of sustained opposition to substantial issues by any important part of the concerned interests and by a process that involves seeking to take into account the views of all parties concerned and to reconcile any conflicting arguments. It is important to understand that consensus does not mean unanimity. It is the responsibility of the group co-chairs to judge whether consensus indeed has been reached (subject to the appeals process defined in section 12).

WGs have four specific types of decision processes, as specified in the following table.

<table>
<thead>
<tr>
<th>Decision Type</th>
<th>When Used</th>
<th>Decision Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordinary Working Decision</td>
<td>This is what a WG does in the normal course of developing work products. These include decisions taken during collaborative development, as well as decisions taken regarding resolution of comments received during formal comment review.</td>
<td>Most ordinary working decisions are achieved through discussion-based consensus during WG meetings. WG co-chairs and facilitators should actively seek the input of all meeting participants to ensure that discussion in meetings accurately reflects group consensus. Any WG member or the WG facilitator may request that a specific decision be put to a WG motion (below). A WG ballot (below) may also be used if a WG member or the facilitator feels that a WG motion is not sufficient to fully represent the group’s opinion.</td>
</tr>
<tr>
<td>WG Motion or WG ballot</td>
<td>GSMP mandates a WG motion or ballot to confirm a Work Group is ready to subject a draft to formal review by WG members prior to releasing for community review or eBallot and to confirm a Work Group is ready to advance a draft, previously reviewed by the WG for Community Review or Ballot</td>
<td>WG motions are carried out following the procedure in Appendix G.1. As explained there, a WG motion is carried out by asking for objections, in contrast to a ballot in which each WG member casts an explicit &quot;yes&quot; or &quot;no&quot; vote. Normally a WG motion is carried out by voice during a WG meeting, but if voting minimums are not present it may be extended to the entire WG by asking for objections via email over a 7-day period. In contrast to a WG motion, a WG ballot asks each WG member to explicitly cast a &quot;yes&quot; or &quot;no&quot; vote using the Community Room balloting feature. Only WG voting members participate in this vote. If a majority of WG members or the facilitator feels that a WG motion is not sufficient to fully represent the group opinion, a WG ballot may be used instead. WG Motions and ballots are carried out following the procedure in Appendix F.3.10.</td>
</tr>
<tr>
<td>Community eBallot</td>
<td>GSMP mandates a ballot by the larger voting community to approve a draft that has undergone community review and revisions by the WG stemming from that review.</td>
<td>Community eBallots are carried out following the procedure in Appendix G.3. The duration of the vote is recommended to be 7 calendar days but may be changed by the Work Group to meet the needs of business (for WG meeting on a weekly schedule, the duration may be a day less so that the vote concludes immediately prior to a scheduled WG meeting). The work group should consider to accommodate holidays or events when WG member absence is expected when determining the length of an eBallot.</td>
</tr>
</tbody>
</table>
12 Appeals

All GSMP groups operate according to the principle of consensus, and are expected to use the consensus building process to resolve disagreements when they occur. An appeals process is provided for those rare cases where a group is unable to resolve differences on its own.

Appeals of Matters Related to Due Process or of Voting Results

If a GSMP member believes that process has not been correctly followed, or if a voting organisation believes that the outcome of any particular vote has been unduly influenced by one stakeholder group, and has thereby resulted in a non-optimal outcome it may appeal according to the following steps:

- (Due Process Appeal only) The organisation shall first make the group co-chairs and group facilitator aware of the concern. The organisation shall make specific reference to the process that is believed to be incorrectly carried out, and provide supporting evidence. The group co-chairs and group facilitators shall then attempt to resolve the issue.

- If the organisation believes that the group co-chairs and group facilitator have not satisfactorily resolved the issue, or if the concern is about voting results, it may appeal its concern to the Vice President of Standards Development. The Vice President of Standards Development provides an initial response within 30 days and indicates when a final response will be forthcoming.

- Following the final response from the Vice President of Standards Development, if the organisation believes that the Vice President of Standards Development has not satisfactorily resolved the issue, it may appeal its concern to the Board Committee for Standards (BCS). The BCS provides an initial response within 30 days and indicates when a final response will be forthcoming. The decision of the BCS is final.

Architectural Consultation and Appeal

Work Groups shall at all times seek to ensure that they possess sufficient technical expertise in order to carry out their assigned missions. In certain instances, additional architectural guidance may be called for, either to clarify a GS1 system architectural principle or because a group member is concerned that architectural principles are not being adhered to by the work of the group. This is especially important for issues that have deep architectural impact or that span many areas of the GS1 system. In such cases, the group may solicit the input of the GS1 Architecture Group (at any point in the development process), as follows:

- The group may solicit the opinion of the GS1 Architecture Group (AG) by submitting a “request for finding.” In the request, the group shall clearly state the issue that is to be resolved, provide supporting documentation, and any relevant group discussion or opinions. The AG responds within 30 days to indicate if it will consider the matter, and on what schedule. As the AG considers the issue, it may call upon group members to provide additional information. The AG completes its deliberations by issuing an architecture finding, which becomes part of the permanent archive of GS1 architecture materials.

- If the group believes that the AG has not satisfactorily resolved the issue, it may appeal its concern to the Board Committee for Standards (BCS). The BCS shall provide an initial response within 30 days, and indicate when a final response will be forthcoming. The decision of the BCS shall be final.
13 Membership Rights and Responsibilities

Membership in GSMP Work Groups is open to all MOs, MO Members, GDSN Certified Data Pools, and interested stakeholders that meet eligibility requirements. Membership, however, is subject to policies for participation as specified in this manual.

An organisation may have its membership rights suspended for any of the following causes:

- The organisation violates the GS1 Anti-Trust Caution, and continues to do so even after being advised that it is in violation.
- Any member of the organisation violates the GS1 Code of Conduct in a group meeting or in community email, and continues to do so even after being advised that it is in violation.
- Interested Stakeholders (non-GS1 members) who show evidence of “bad faith”

The procedure by which an organisation may lose its membership rights is as follows:

- The group co-chairs and the Vice President of Standards Development shall discuss the matter with the individual participant and with his/her organisation’s primary contact (if different), and seek to resolve the problem without suspending membership rights.
- If the problem is not resolved to the satisfaction of the Vice President of Standards Development, the Vice President of Standards Development may decide to suspend membership. In that case, the Vice President of Standards Development will escalate the suspension to the BCS for approval with a recommendation for reinstatement. The Vice President of Standards Development shall notify the organisation of the decision, the group facilitators of all groups to which the organisation belongs, and the BCS. The IESC shall also specify the conditions the organisation must meet in order to have its membership reinstated.
- While membership is suspended, no member of the suspended organisation may participate in group meetings, group votes, or community votes. Group facilitators shall be responsible for enforcing this. The Vice President of Standards Development may also determine that access to Community Room be suspended for that organisation.
- The organisation may appeal its suspension to the Board Committee for Standards (BCS). During this appeal, the organisation’s participation continues to be suspended. The opinion of the BCS shall be final.

The procedure by which an organisation’s membership rights are reinstated is as follows:

- The organisation provides proof to the Vice President of Standards Development that it has met the conditions for reinstatement as previously agreed.
- If the Vice President of Standards Development concurs that the conditions for reinstatement have been met, it advises the organisation and all group facilitators that membership rights are reinstated.
- Immediately following reinstatement, the organisation may resume its participation in group meetings, group votes, and community votes, and regains the same access rights to Community Room facilities as it had previously.
14 Policies: Anti-Trust, Code of Conduct, IP

Anti-trust Caution

All members of GSMP groups are subject to the GS1 Anti-trust Caution, which defines behaviour that is impermissible on anti-trust grounds. The full text of the GS1 Anti-trust Caution is available on the GS1 website at: [http://www.gs1.org/gs1-anti-trust-caution](http://www.gs1.org/gs1-anti-trust-caution). Every GSMP group meeting shall include a reading of the Anti-trust Caution at the beginning of its agenda.

During any GSMP group teleconference or physical meeting, if any participant believes that discussion is in violation of the Anti-trust Caution, the participant may request that the group co-chair halt the discussion. The Group Facilitator will then call in GS1 Legal Counsel to resolve the issue. Repeated failure by a group participant to heed the Anti-trust Caution may result in suspension from membership in GSMP for that participant and his/her organisation.

Code of Conduct

All membership in GSMP groups is subject to the GS1 Code of Conduct, which defines behaviour that is impermissible due to its negative impact on the working of a group. The full text of the GS1 Code of Conduct is in Appendix L of the GSMP Manual. Every GSMP group meeting shall include a reminder of the Code of Conduct at the beginning of its agenda.

Repeated failure by a group participant to follow the code of conduct may result in suspension from membership in GSMP for that participant and his/her organisation.

Intellectual Property (IP) Framework

The GS1 Intellectual Property (IP) Framework is designed to promote standards that have minimal barriers to adoption by user companies and solution providers, by making intellectual property required to implement the standards available on a non-discriminatory and, to the extent possible, royalty-free basis. As it relates to the GSMP Process, the IP Framework has these components:

- **IP Policy**: A contract signed by a participating organisation that establishes the legal framework for licensing of intellectual property that an organisation owns that is necessary to implement standards in whose development the organisation participates. Signing the IP Policy is a pre-requisite for a company to be involved in GSMP. The provisions of the IP Policy only become operative, however, upon signing one or more of the other documents that are part of the IP Framework.

- **Work Group Opt-In**: A participating organisation that has signed the IP Policy may "opt in" to the policy with respect to a particular GSMP Work Group. In so doing, the participating organisation gains the right to access work-in-progress of the Work Group and to join the Work Group, in exchange for the organisation becoming obligated to the terms of the IP Policy with respect to the standards produced by that Work Group.

- **Contribution Declaration**: A participating organisation that has signed the IP Policy but has not opted in to a given Work Group may nonetheless participate in community review of draft standards created by that Work Group (though the organisation does not have access to any other work-in-progress of that Work Group). If such an organisation wishes to submit comments to the Work Group during community review and that contribution is used in the standard, a Contribution Declaration Form may be required which subjects the substance of the comments to IP obligations similar to what would have occurred had the organisation opted-in to the Work Group.

- **IP Declaration**: Prior to ratification of a standard, organisations that have signed the IP Policy are asked whether they intend to exercise their rights under the IP Policy to exempt specific intellectual property from the royalty-free license terms specified in the IP Policy. If an organisation wishes to exercise such rights, it does so by submitting an IP Declaration form.
# 15 Publication of GSMP Deliverables

<table>
<thead>
<tr>
<th>BRAD or other requirements document</th>
<th>GS1 guideline</th>
<th>GS1 standard</th>
<th>What happens at this stage?</th>
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<tbody>
<tr>
<td>Working draft</td>
<td>Working draft</td>
<td>Working draft</td>
<td>Working Group Development</td>
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<tr>
<td>Community Review draft</td>
<td>Community Review draft</td>
<td>Community Review draft</td>
<td>Community Review and revision based on comments</td>
</tr>
<tr>
<td>Candidate document</td>
<td>Candidate guideline</td>
<td>Candidate standard</td>
<td>Prototype testing (if applicable)</td>
</tr>
<tr>
<td>Unratified guideline</td>
<td>Unratified standard</td>
<td>Unratified standard</td>
<td>Community eBallot</td>
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<tr>
<td>Final document</td>
<td>Ratified guideline</td>
<td>Ratified standard</td>
<td>Ratification by BCS</td>
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<td></td>
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<td>Publication</td>
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</table>

Following community review of a new or revised GS1 standard, GS1 guideline, or the GSMP Manual, the new document is published in GSMP Step 4. Here is how publication takes place.

## Documents Published As Changed

Most GS1 standards and guidelines are published each time they are changed.

- The Work Group delivers the candidate GS1 standard or guideline for eBallot. The document delivered is the complete GS1 standard or guideline including all changes that were made from the previous version (if applicable).
- Following a successful eBallot, and subsequent ratification by the BCS in the case of a GS1 standard, to the GS1 Global Office publications staff.
- GS1 publications staff is responsible for final formatting. This is limited to formatting, legal notices, file naming, and the content of the title page. GS1 publications staff may not alter the content in any way.
- GS1 publications staff releases the published form of the standard or guideline to the GS1 public website.

## Documents Published Using Change Notifications

The GS1 General Specifications is not published each time it is changed. Instead, each change results in publication of a General Specification Change Notification (GSCN), which is a document that specifies precisely what changes are to be made to the last published version of the primary document. Periodically (typically once per year), a new version of the primary document is published that incorporates all of the change notifications that have been published since the last time the primary document was published.
## Appendix: Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Term</th>
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<tbody>
<tr>
<td>AG</td>
<td>Architecture Group</td>
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<tr>
<td>AI</td>
<td>GS1 Application Identifier</td>
</tr>
<tr>
<td>AIDC</td>
<td>Automatic Identification and Data Capture</td>
</tr>
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<td>BCS</td>
<td>Board Committee for Standards</td>
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<tr>
<td>BRAD</td>
<td>Business Requirements Analysis Document</td>
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<tr>
<td>CDG</td>
<td>Combined Development Group</td>
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<tr>
<td>FAQ</td>
<td>Frequently Asked Question</td>
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<tr>
<td>GDSN</td>
<td>Global Data Synchronisation Network</td>
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<td>GDG</td>
<td>Guideline Development Group</td>
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<td>GO</td>
<td>GS1 Global Office</td>
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<tr>
<td>GSCN</td>
<td>General Specifications Change Notification</td>
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<td>GSMP</td>
<td>Global Standards Management Process</td>
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<tr>
<td>IE</td>
<td>Industry Engagement</td>
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<tr>
<td>IESC</td>
<td>Industry Engagement Steering Committee</td>
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<tr>
<td>IP</td>
<td>Intellectual Property</td>
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<tr>
<td>LT</td>
<td>GS1 Leadership Team</td>
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<td>MB</td>
<td>GS1 Management Board</td>
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<tr>
<td>MO</td>
<td>GS1 Member Organisation</td>
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<tr>
<td>MSWG</td>
<td>Mission-Specific Work Group</td>
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<tr>
<td>RDG</td>
<td>Requirements Development Group</td>
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<tr>
<td>SME</td>
<td>Subject Matter Expert</td>
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<tr>
<td>SMG</td>
<td>Standard Maintenance Group</td>
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<tr>
<td>SP</td>
<td>Solution Provider</td>
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<tr>
<td>WR</td>
<td>Work Request</td>
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<tr>
<td>WG</td>
<td>Work Group</td>
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Appendix: Group Policies

This appendix describes in more detail policies that apply to all GSMP groups, including both GSMP Work Groups and GSMP Governance Groups.

B.1 Group Leadership

Every GSMP group shall include the following designated members:

- **Group Co-Chairs**: It is recommended that two or more group voting members share the responsibility for leading the activity of the group. The work group may approve a different number of chairs based on its business need. It is recommended at least one co-chair be present at every group teleconference and physical meeting. A group may also occasionally ask a group member to volunteer to serve as a temporary co-chair for the duration of a scheduled meeting for which all regular co-chairs are unavailable. If there is a vacancy in one co-chair position the group may continue its activity while a replacement is sought according to the process defined in section C.1.2.1. It is preferred not to have two or more co-chairs from the same type of Participant Company. Work Groups should strive to elect co-chairs from different communities within the group (retailers, suppliers, different geographies, etc.)

  The responsibilities of the co-chairs are defined in section B.1.1, below.

- **Group Facilitator**: A GS1 Global Office staff person assigned to handle administrative responsibilities for the group. The facilitator must be present at every group teleconference and physical meeting. A facilitator may designate another GS1 Global Office staff person as a substitute if the facilitator is unavailable to attend a meeting.

  The GSMP Group Facilitators are guided by these principles, which remind them of their commitment to the community they serve. GSMP Group Facilitators agree to:
  
  □ Be results driven and take ownership for the effectiveness of meetings
  □ Maintain an environment where everyone contributes
  □ Inform – Excite – Empower – Involve their community
  □ Gain maximum global commitment to the solution
  □ Personalise the meeting experience
  □ Ensure consistent meeting facilitation across the organisation

  The responsibilities of the Group Facilitator are defined in section B.1.2, below.

- **GS1 Subject Matter Expert (SME)**: A GS1 Global Office staff person who is familiar with the subject matter of the standard or guideline being developed in the work group, and understands the relationship of the material to the rest of the GS1 system and to GS1’s global strategy. This is especially important in Standards Maintenance Groups (SMGs), where continuity of experience is important.

- **GS1 Architecture Group (AG) Liaison**: A GSMP Community Member who also is a member of the GS1 Architecture Group. The AG Liaison opts-in and participates in the Work Group as an ordinary participant. In addition, the AG Liaison brings to the WG broad understanding of all GS1 standards and how they relate to each other and to GS1’s architecture principles. The AG Liaison keeps the GS1 Architecture Group informed of the WG’s progress, and ensures that the AG is aware of any WG activity that may have architectural impact.

Any GSMP group may designate additional leadership roles at the recommendation of the Group co-chairs and be confirmed by a motion of the group. It is common for a standards Work Group to designate a Document Editor in this way to take responsibility for editing the final work product of the Work Group. (The Editor may be the Facilitator, the SME, or any other WG member.) As another example, a Work Group creating a Business Message Standard may have a Modeller assigned from GS1 Global Office staff who prepares the UML and/or GS1 XML schema.

Regardless of leadership positions, all decisions of a GSMP group are made by consensus and confirmed by motions and votes in which all group voting members are equal participants; co-chairs
and other designated leadership roles do not have special rights in this regard. GS1 Global Office staff has limited rights in Work Groups; in particular, they may not vote.

B.1.1 Responsibilities of the Group Co-Chairs
The responsibilities of the co-chairs of any GSMP group are as follows:

- Ensure that the group fulfils its mission
- Develop and/or review the agenda for group meetings, in consultation with the Group Facilitator
- Lead the conducting of business in group meetings
- Work to resolve conflicts that arise during group discussion
- Make best effort to attend every group meeting (at least one co-chair must be present at every meeting or an alternate elected)
- Recommend the appointment of additional group leadership positions, subject to confirmation by a motion of the group
- Represent the group in interactions with other groups, including Governance Groups
- Ensure that the discussion in meetings accurately reflects group consensus
- Judge if consensus was reached

B.1.2 Responsibilities of the GSMP Facilitator
GSMP Facilitators bear the overall responsibility for the organisation & management of Work Group calls and meetings within GSMP. Work with the group co-chairs, they facilitate all Work Group activities and additionally are responsible for basic logistics of:

- Scheduling of calls, face-to-face meetings
- Meeting Minutes
- Management of motions and voting
- Coordination of related Community Rooms
- Document Management
- Roster Management

GSMP Facilitators also coordinate with Technology SME’s to meet the needs of the user in the Work Groups, informing them of any possible conflicts arising out of standards development against any approved strategy.

- Specific types of GSMP groups may have additional responsibilities for group facilitators.
- The key to success for a facilitator is to build a rapport with the community to assure trust, a key enabler to efficiency. Additionally, the facilitator must remain neutral both in action and in appearance.
C Appendix: Work Group Types and Formation

This section describes in more detail the various types of GSMP Work Groups and how they are formed.

C.1 GSMP Work Groups (WG)

GSMP Work Groups are responsible for carrying out GS1 system development – developing GS1 standards, GS1 guidelines, and collateral materials that support their deployment. Consistent with the principles of openness and community development, all GSMP Work Groups are open to all GSMP members. GSMP Work Groups are the means by which community development takes place.

There are two kinds of GSMP Work Groups:

- Standards Maintenance Groups (SMG)
- Mission-Specific Work Groups (MSWG)

The decision to address a Work Request (WR) by within an existing SMG or by forming a new MSWG is made during the initial project initiation phase (Step 1 of the GSMP Process), according to established criteria.

C.1.1 Standards Maintenance Groups (SMG)

SMGs have an indefinite lifetime, and are responsible for the ongoing maintenance and enhancement of one or more existing GS1 standards or guidelines. SMGs are intended to provide continuity of expertise, as well as to respond rapidly to requests for small changes. SMGs participate in both requirements analysis and system development (Steps 2 and 3 of the GSMP Process). SMGs also review the work of Mission-Specific Work Groups during community review and play a role in prioritisation and classification of Work Requests.

Changes that are handled by SMGs typically include correcting errata, additions to code lists, and other small changes. Errata are defined as changes that do not materially affect the standard or those who have implemented the standard (see section \ref{sec:E.3.3.1} for information on correcting errata).

C.1.1.1 SMG Formation and Termination

The Vice President of Standards Development is responsible for forming and terminating SMGs. A request to form a new SMG must have evidence of community support and a foreseen work stream of maintenance to an existing standard. Examples of situations leading to such a request include:

- An existing SMG wishes to split into two or more SMGs in order to better accommodate changing scope
- An existing MSWG finds that it is increasingly asked to handle ongoing maintenance, and so decides it would be better to be re-chartered as an SMG
- The Vice President of Standards Development decides a new SMG is warranted based on the flow of Work Requests or to better maintain the integrity of a standard

The Vice President of Standards Development considers a request to form a new SMG and is responsible for approving the request. In this process, the Vice President of Standards Development consults with GSMP Operations and relevant community members to consider staffing resources and other constraints.

The Vice President of Standards Development is also responsible for terminating SMGs. Examples of situations leading to the termination of an SMG include:

- Two or more existing SMGs wish to consolidate into a single SMG
- An existing SMG determines that its work is finished (e.g., because the standard it was responsible for maintaining has been sunset), or that its remaining work would be better carried out in another SMG or by Mission-Specific Work Groups
- Or that terminating an SMG is warranted based on the flow of Work Requests
A decision to create or terminate an SMG may be appealed to the Board Committee for Standards.

C.1.2 **Mission-Specific Work 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 Work Groups are created for most work efforts of substantial scope.

**Note:** A complete list of GSMP Work Groups can be found on the GSMP website at: http://www.gs1.org/standards-development-work-groups.

C.1.2.1 **Group Chairs**

The first order of business for a newly created group shall be to elect co-chairs from among the initial voting membership (excluding Global Office staff). A group shall have two co-chairs, except that the group may designate a different number of chairs based on its business needs. Each co-chair election requires a group eBallot that must meet the minimum participation required by the group; for example: (2-2-2-12) with 2/3 affirmative votes. It is recommended that one co-chair must be from 1 side of the trading partner relationship and the other from a different membership category. For a newly formed group, the call-to-action serves as the solicitation for co-chairs, and co-chairs should be selected prior to the first meeting according to the procedure above. Alternatively, the facilitator may choose to solicit co-chair volunteers during the first meeting if it is not possible to determine them beforehand, again following the procedure above. In a SMG, it is recommended each co-chair serve a one-year term, with a maximum three consecutive terms. In a MSWG the term is for the life of the group. At any time, at most one individual from an organisation may serve as co-chair of a given group.

Whenever there is a vacancy in a co-chair seat, the facilitator shall send a notification to the group indicating that one or more co-chair vacancies exist, and solicit voting members to volunteer for the vacant seat or seats. Each vacancy is then filled by a vote as described above. A vote is required even if there is only one volunteer for a vacancy. At most one person may volunteer from each organisation.

Each chair is expected to make his or her best effort to attend every group meeting. If a chair is absent for three or more consecutive meetings, unless the absence was arranged in advance with the knowledge and consent of the group, the group may appeal have the absent chair removed after which the resulting vacancy shall be filled as described above. An individual removed from the chair position in this way may continue to serve as an ordinary member of the group.

C.1.3 **Work Group Charters**

Each Work Group has a Charter that includes the following information:

- The name of the Work Group
- A description of the work to be carried out, delineating the scope as precisely and narrowly as possible. For an MSWG, much of this description can be made by reference to a specific Work Request.
- A description of the kind of organisations that are expected to particularly benefit from participating in this Work Group, or whose membership is especially sought by the Work Group. (It should be noted that Work Group membership is open to all organisations as described in Section 6, regardless of what this section of the charter says.)

When the scope of work group changes, the charter must be updated. If changes to the charter are required, they are voted upon by the work group and then sent to the Vice President of Standards Development for approval.

C.1.3.1 **Charter Amendment**

The Charter Amendment Process allows for existing approved charters to be supplemented. Supplementing an existing charter can be initiated as a result of new, emerging user requirements or new realisations that the scope of the charter be adjusted for business or technical reasons that
weren’t envisioned at the time of the original charter’s creation. The reasons for initiating a supplemental charter should be documented and supporting evidence for generating the change should be kept within the record retention area of the impacted Work Group (WG).

All requests for a supplemental charter will be presented to the Vice President of Standards Development for impact and legal assessment.

Once the request is approved, the work group will draft a supplemental charter. The draft shall be approved by WG participants using a Work Group Ballot as specified in section 6.

The amended charter will take effect 30 days (or as dictated by a group vote) after notification to the work group participants that the ballot has carried. There is no requirement to re-opt-in to a WG that is using a supplemental charter (the original WG opt-in is considered to remain in force), though participants can withdraw from the WG if they consider the amendments to be unacceptable.

Additionally, all intellectual property contributed under the original charter now carries over to the supplemental charter and to any standard or technical specification produced under the charter, subject to any IP Declarations previously and properly submitted as per the IP Policy.

A WG may also use the process specified above to reduce the scope of work specified in its charter, including the deliverables, subject to the same approval process specified above.
D Appendix: Governance Group Members and Responsibilities

This Appendix describes in detail the composition and responsibilities of the GSMP Governance Groups.

D.1 Board Committee for Standards (BCS)

The Board Committee for Standards (BCS) is the governing body of GSMP. The GSMP organisation structure includes BCS advisory groups to aid in the leadership and operation of GSMP. Governance Groups are accountable to, and work under the authority of, the BCS.

Note: The following is reprinted from the Board Committee for Standards Internal Regulation. If there is a contradiction, the version in the GS1 Operational Manual will prevail.

The principal responsibilities of the BCS are:

- Assess that “due process” has occurred in the GSMP
- Provide operational and strategic policy and guidance in support of the GSMP
- Oversee the smooth operation of the governance sub-teams of the BCS, namely the GSMP Process and Architecture Groups and advisory groups to the BCS
- Assess the progress of standards programmes and provide direction on major issues and opportunities
- Ensure consistent and effective application of the GS1 Intellectual Property policy
- Review and adapt the ongoing role of GSMP within the changing GS1 strategic landscape
- Ensure that there is a consistently applied GS1 System Architecture and that all GS1 standards created align with it
- Make recommendations to the GS1 Management Board (MB) for the ratification of all GS1 standards
- Oversee all standards created under the GS1 umbrella to ensure that they conform to the principles of the GS1 system and the GS1 Architecture
- Ensure that GS1 has a standards strategy to deliver world class leading standards within the landscape of new and evolving technologies.
- Authorise the structures and process that GS1 will use to operate GSMP
- Regularly monitor GSMP performance to ensure
  - That it is delivering results in line with the GS1 Business Plan
  - Escalations are resolved
  - Correct trade-offs are made between speed and quality of standards
  - Balance occurs between global user priorities and needs of SME and local requirements
- Ensure that the broad community is aware of and committed to the role of GSMP, its scope, performance and plans
- Report to the GS1 Management Board (MB)

D.2 Ratification

The following outlines the procedure for approving standards (in between Management Board meetings):

1. The Management Board has delegated its authority to approve standards to the BCS.
2. Each Management Board member not present on the BCS may appoint a representative for Standards Approval Oversight
a. For users, this could be the Management Board member or another person.
b. For MOs, this will be the MO CEO Board member

3. Standards are submitted to the BCS and to the Standards Oversight Group (not members of the BCS).

4. The BCS reviews and unanimously approves the standards.

5. Each member of the Oversight Group has 7 days to object to the standards.
   a. No feedback from the Oversight Group during the 7 days period, shall be considered as ‘no objection’.
   b. The members of the Standards Oversight Group do not need to vote/support the standard(s). They can only object during the period of 7 days.

6. The Standards are approved if:
   a. The BCS unanimously approves the standards
   b. There is no member of the Standards Oversight Group objecting to the standards.

7. If the standards are not approved, in line with point 6, the standards will need to be approved by the GS1 Management Board.

D.3 Industry Engagement Steering Committee (IESC)

GS1 engages with specific industries in order to understand their needs for standards, services & solutions for the improvement of industry processes. Those needs can vary within an industry and across industries though some needs, such as those to support warehousing and logistics, can span multiple industries.

The purpose of the Industry Engagement Steering Committee (IESC) is to assess required entrance criteria of all work requests submitted to GSMP other than simple maintenance. (The latter are routed directly to a Standards Management Group (SMG).) In addition, the IESC acts as an advisory body to the BCS.

The BCS maintains oversight on GSMP-related Industry Engagement activities to ensure that due process is followed. The BCS appoints 1 MO and 1 Industry tri-chair as well as MO and Industry delegates to the IESC to ensure geographic and sector balance and to support process oversight as required. (The third tri-chair is the GS1 Global Office President of Industry Engagement, ex officio.) BCS oversight is integrated across the industry engagement, development of, or maintenance to a standard through the ratification of that standard.

The principal responsibilities of the IESC are:

- Perform a qualitative review of business cases submitted for new standards or complex maintenance to ensure entrance criteria, including and especially evidence of a commitment of end users to adopt the deliverables, have been met.
- Initial prioritisation and recommendation where overlap may exist between incoming Work Requests.
- Review GSMP Work Group Charters prepared by GSMP Operations.
- The IESC can provide support for proposals to engage with new industry sectors as they progress through the GS1 sector assessment process. The IESC does not in itself approve engagement with new sectors. It can however provide background information and opinion to assist the GS1 Advisory Council and GS1 Management Board in doing so.

The IESC can provide support for proposals to engage with new industry sectors as they progress through the GS1 sector assessment process. The IESC does not in itself approve engagement with new sectors. It can however provide background information and opinion to assist the GS1 Advisory Council and GS1 Management Board in doing so.
The IESC does NOT have the power to:

- Change decisions regarding the content of work carried out by GSMP groups. Consequently, no appeals may be made to the IESC regarding decisions on standards.
- Vary agreed financial budgets, including budgeted headcount, but may make recommendations to the BCS.
- Change priorities established by Industry Engagement.

D.3.1 IESC Work Method

IESC meetings are scheduled monthly, normally by teleconference, but will meet face-to-face twice a year in conjunction with the GSMP Global Events. If Charter approvals are required, the IESC may meet as needed. On the other hand, the IESC does not meet if there are no pending agenda items to consider.

The IESC works based on analysis provided by GSMP Operations to evaluate Development-Related Work Requests and the associated Charter for moving into GSMP Step 2. Any disagreement between the IESC and GSMP Operations regarding staff resources allocation is resolved by the GS1 Leadership Team who may confer with the BCS if, in their opinion, the importance of the topic warrants such escalation (the BCS must be informed of any resolutions in the matter).

IESC members, with the exception of the President of Industry Engagement, are appointed by the BCS. The IESC has a minimum of ten members and a maximum of 12 members (not including GS1 GO facilitators) and should represent the GSMP member base (size as well as sector). The voting members of the IESC are as follows:

- Three co-chairs:
  - President of Industry Engagement (ex officio)
  - Industry Executive
  - MO Executive
- Four or five members representing industry
- Three or four members representing GS1 MOs.

Each IESC member serves for a two-year term, with terms staggered so that 50% of IESC members’ terms are subject to renewal each year. 50% of the initial members of the IESC will begin with 3-year terms, as determined by a random selection process.

In addition to the voting members, other members of the GS1 Leadership Team and experts on particular topics will participate in an advisory, non-voting capacity, as required. This includes the President of Industry Engagement (ex officio), GS1 President of Global Solutions and the GS1 President of Standards Development, who will attend every IESC meeting, and also at least one member of the GS1 Architecture Group.

The qualifications of IESC members:

- Members must be familiar with the GSMP mission, procedures and practices. Members must be employed by a member company in good standing of a GS1 MO, a GS1 Member Organisation, or the GS1 Global Office.
- Members must guarantee that they will dedicate the necessary time to participate actively and fully in the IESC.
- Leadership and influence within their company and their industry
- Experience in a broad range of business functions
- An understanding of GSMP and GS1 business segments in relation to similar entities in the marketplace
- Members commit to uphold the GSMP principles including neutrality, transparency and due process.
D.3.2 Work Request flow to the IESC

Sections 8.1 and F.1 describe the process by which the IESC steers and approves GSMP work in Step 1 of the GSMP process.

D.3.3 Voting Eligibility

No GS1 User Member or Member Organisation may have more than one vote.

D.3.4 Voting

GS1 encourages decision making through discussion and consensus. However, consensus does not mean unanimous decisions and provided a quorum is present at the time, and it is deemed by the President of Industry Engagement that a vote is required, then a two thirds majority vote of those present will be needed to approve the assessment.

D.3.5 Rationalisation/Prioritisation/Work plan

The IESC will rationalise industry needs. Activities will include:

- Organise disparate recommendations under broader critical initiatives
- Harmonise input from multiple sources (industry groups)
- Work to identify and resolve conflicting initiatives
- Linkages to other critical initiatives or strategic imperatives
- Assess and quantify impact to the main strategic imperatives (aid in prioritisation)

The IESC will prioritise industry work requests according to the following criteria in order of priority:

- Work Requests which provide the greatest beneficial impact for the GS1 community as measured by the criteria specified in the business plan including end users who have committed to implement as well as industry group priorities. While this is not a precise measurement it serves as a general indication of relevance and support.
- Work Request for correction of errors and omissions in prior releases of standards, services or solutions.
- Work Requests for standardisation, which enable compliance to legal, regulatory or public policy requirements.
- If there are no constraints in terms of skills or resources available then priority will equate to the order in which industry work requests have been submitted.

D.3.6 Standards Development

Standards Development will proceed with development activities as approved by the Industry Engagement Steering Committee using the Industry Engagement Steering Committee Proposal for Standards Development Work Document and the GS1 1 Year Plan balancing standards related work requests. In cases where this is not possible due to constraints of resource from GS1 or MO/user side and/or skills availability then GSMP Standards Development will advise the IESC and GS1 LT accordingly and offer an alternative work plan based upon availability.

Should the required resources/skills become available then, whenever possible, work should revert back to the original priorities.

For major work efforts a basic assessment of time, effort and skills/resources required to complete should be sought from GSMP Standards Development by the relevant Industry Director/submitter in advance of submission to the IESC.

D.3.7 IESC Secretariat

The manager appointed by GS1 to lead GSMP Operations will also act as the IESC Secretariat. The duties of the IESC Secretariat are:
■ Confirm the date, time and location of each meeting
■ Set the agenda
■ Publish reading materials at least one week in advance of the meeting
■ Publish the minutes
■ Monitor action items
■ Assist the Co-Chairs

D.4 **GS1 Architecture Group (AG)**

The GS1 Architecture Group is an advisory body to the BCS and the standards community whose primary responsibility is to develop and document the GS1 System Architecture and, by reference to the architecture, assures the technical integrity, consistency and efficient interoperation of the GS1 system.

**The principal responsibilities of the AG are to:**

■ Provide review and recommendations for business requirements, standards and services development as required against the GS1 System Architecture and relevant emerging standards developments through the Architecture Review Process.
■ Promote and ensure the continuing relevance of the GS1 system, including its technical integrity and future-proofing.
■ Ensure consistency across the GS1 standards, services, solutions and guidelines.
■ Ensure the GS1 System Architecture is well documented, accessible, extensible, and broadly understood.
■ Ensure that the GS1 System Architecture strives for broad cross-sector applicability but can support the needs of local, regional and sectoral requirements.
■ Ensure the GS1 System Principles and Architecture are fully aligned to GS1 Strategy, Vision, and Mission.
■ Ensure the role of the GS1 Architecture Group and its work items are recognised and understood across the GS1 Community.
■ Advise the GS1 Global Office on liaisons with third party standards organisations.
■ Upon request, respond to issues or questions submitted by members of the GS1 community regarding the GS1 system.

The AG does not change decisions regarding the content of work carried out by GSMP groups; but makes recommendations on matters that affect the technical integrity and interoperability of GS1 system.

The success of the AG is measured by:

■ The delivery of the GS1 System Architecture and clear and consistent architectural principles
■ GS1 system specifications are delivered in a manner that maintains the integrity and interoperability of the GS1 system
■ All “requests for finding” submitted by members of the GS1 community are addressed

D.4.1 **Architecture Group Structure**

The GS1 Architecture Group comprises technical experts from End User companies, GS1 Member Organisations, Solution Providers, the research community, and GS1 staff. It consists of a Core team supported by mission-specific sub teams.

The Architecture Group charters sub teams on a mission-specific basis as required to address technical issues related to a particular subject (e.g. EPC, GDSN). Sub teams shall have a defined Charter and scope. Sub teams are disbanded by the Core Team when the Chartered work is complete, unless a business need for continuance is defined.
The Core Team is responsible to provide to the sub teams:

- Final recommendations on issues with Architectural Principles and Strategic Issues
- Guidance and Maintenance of the GS1 Architectural Principles
- Prompt response to all ‘Requests for Finding’
- Attendance at sub team Conference Calls or Physical Meetings as needed
- One Core Team member assigned to each sub team to act as Chair
- Provide a determined membership composition for each sub team
- Review and approve sub team output

The sub teams are responsible to provide:

- Expert insight to technical issues related specifically to a particular technology, as such sub team members must have extensive knowledge of the current state of the entity application or topic and technical specifications
- A Chair to serve as the main representative to the Core Team and a Co-Chairperson (and additional Co-Chairs if required)
- A call for participation to ensure wider representation from the community. The core team determines the balance and representation of each sub team.

Sub teams do not vote in the Core Team, but make recommendations to the Core Team with divergent opinions noted.

### D.4.2 Architecture Group Work Method

The AG meets every two weeks provided there are appropriate agenda items, normally by teleconference, but will meet face-to-face as required.

The AG Core Team has a minimum of ten members and a maximum of twenty-five members. The composition of the AG is as follows:

- Three representatives from GS1 GO Staff (non-voting members)
- A balanced representation of GS1 Member Organisations (MOs) and of End Users, Solution Providers and Auto-ID Labs. To achieve this general balance, the difference between the number of MOs and the sum of the total of End Users plus Solution Providers plus Labs shall not exceed two.

The membership of the sub teams should be limited to 12 persons, excluding the Core Team representative

**The qualifications of AG members:**

- Members must have extensive knowledge of the overall GS1 system, GS1 standards and guidelines, IT infrastructure/networks, and supply chain
- Experience in technical system design or architecture design
- Must have current knowledge of GS1 architecture and input to the system architecture of their own organisation
- Must be an active participant in the GS1 standards process
- Prior working knowledge of standards bodies is helpful, but not required

### D.4.3 Architecture Group Liaisons to Work Groups

The Architecture Group carries out its responsibilities to review ongoing work within GSMP by participating in Community Review of deliverables and also through active participation in GSMP Work Groups by individual AG members. The latter is formalised in the Architecture Group Liaison process.
The AG designates an AG liaison (AGL) for each GSMP work group. The AGL is a member of the AG and is an active member of the work group in question (subject to the same membership requirements as any other Direct Participant). The AGL:

- Plays an ambassador role, making the work of AG better known to the WG, with an emphasis on the Architecture and the Architecture Principles;
  - Provides regular scheduled status reports to the AG so that the AG is kept abreast of progress in all WGs;
  - Plays an advisory role within the WG, communicating their personal view on whether BRADs and Standards drafts are consistent with the GS1 Architecture and comply with GS1 Architecture Principles.
  - When the BRAD and draft standards enter Community Review, the AGL and WG Subject Matter Expert review them against relevant Architecture Principles.
  - When the AGL has a concern, they ask WG Chairs for WG Agenda time to discuss.
  - If the AGL concern is not satisfied by the WG, the AGL may request an AG Sub-Team be formed. The Sub-team would be open to AG and WG members and formal outcomes would be documented in a report.

- All WG deliverables will be made available for AG review at the community review stage. An AG member can request a formal AG review of any particular document, or else the AG minutes will reflect that no formal review was considered necessary. A formal AG review is always done if the WG does not have an AGL assigned. If the AG does a formal review, the resulting comments will be submitted into community review process as any other community review comment is, but identified as originating from the AG as whole.

- Topics in the AG related to work in progress in GSMP should be limited to strategic issues related to the Architecture and the Architecture Principles.

- Other comments may be submitted through the normal community review process by individual members of the AG.

D.5 General Governance Operating Methods

This section outlines operating methods that apply to all the governance groups described above.

D.5.1 General Operating Rules

Governance Groups should maintain a rolling six-month meeting schedule and follow all standard GSMP meeting protocols. Meeting agendas need to be posted to the GS1 Community Room one week in advance. Minutes of meetings are drafted for approval by the Work Group and once approved are posted within two weeks of the meeting.

Decision-making is achieved through consensus, which is defined as approval without sustained opposition. If the team is unable to achieve consensus after all avenues have been explored then a formal GSMP voting procedure will be invoked. One member equals one vote; invited guests do not vote. In cases when votes are taken the minority view should be conveyed to the BCS together with the majority decision. All group dispute resolutions will be escalated to the BCS.

D.5.2 General Membership Rules

The size of the groups may vary at the discretion of the BCS. Membership composition should if possible include GS1 members from all of the GS1 regions (EMEA, North America, Latin America and Asia-Pacific) and sectors, but expertise, leadership and contribution take precedence over regional and sector balance.

Membership eligibility is consistent with GSMP voting membership rules. The membership process begins with a call for nominations. Candidates are reviewed and approved by the BCS.

All members serve a maximum term of three years with staggered terms ensuring continuity and representation (at which time they will need to be re-nominated) except the GS1 standards Executive Representative whose membership remains for as long as he or she is in post. Members
may assign a designee in the event they cannot attend a specific meeting. However, the designee has no voting privileges; votes must be cast by the member.

**The principal responsibilities of Members are to:**
- Dedicate the necessary time to participate actively and fully in scheduled meetings and conference calls (members must provide a declaration to this effect signed by their line manager)
- Appropriately prepare prior to meetings, and achieve familiarity with posted meeting materials
- Follow-up and report on all action items and assignments at and between meetings
- Participate actively (or have extensive experience) in the standards process
- Participate actively in the consensus-building process with wisdom and integrity
- Commit to uphold the GSMP principles including neutrality, transparency and due process

**Chairs are chosen in accordance with the GSMP SMG rules and approved by the BCS. The duties of the Chair are to:**
- Call and preside at meetings
- In conjunction with the facilitator:
  - Approve agendas and organise the meeting program in accordance with the agenda
  - Facilitate the consensus process
  - Assign duties as necessary to advance the work of the group
  - Report to the BCS
  - Ensure the group reaches decisions and conclusions

**The duties of the GS1 staff facilitator are consistent with GSMP**
- GS1 will provide a facilitator to each group with no voting rights

**The duties of the GS1 standards Executive Representative are to:**
- Implement the group’s decisions
- Report to the BCS
- Ensure that the chair has sufficient support from the GO staff

**GS1 Intellectual Property (IP) Requirements:**
- Members of all Governance Groups (Core & sub teams) will be required to sign the GS1 Intellectual Property Agreement. AG members must opt-in to work groups in order to perform their duties within the group (see Appendix I).
- Sub team members will be required to sign an Opt-In relevant to topics covered by that work group. Sub team invited guests will also be required to sign relevant Opt-In agreements. A list of relevant topics per Sub team will need to be maintained. It may be decided that Automatic opt-ins are more appropriate, depending on the nature of the Sub team.

**Changes to Member Company status:**
- Members who leave their company will receive an email requesting whether or not they wish to continue being a GSMP group member.
- If the member is employed by a company in membership of an MO and they leave their company but wish to continue to serve, he/she may complete their term provided the new company meets membership criteria and is approved by the BCS. The member will then reapply at end of term as required by all members.
- If the member is employed by an MO or GS1 Global Office and leaves their organisation, the seat is considered vacant and will be reassigned.
Removal due to Lack of Participation:
- Members who do not participate in 3 consecutive calls (unless previously discussed with and agreed to by the group) will receive an email requesting whether or not they wish to continue participating.
- If the participant does not participate in 3 subsequent meetings, another email will be sent requesting that they withdraw from the group.
- If there is no response to this second email, their names will be removed from the roster of the group and a new member will be appointed to take their place.
- Members can petition twice to be reinstated via the BCS.

D.6 GS1 Staff Roles in GSMP

This section defines the roles of GS1 Global Office staff in GSMP.

D.6.1 GS1 Leadership Team

The GS1 Global Office Leadership Team (LT) is comprised of GS1 CEO executive staff responsible for creating and managing an environment of skilled and dedicated GSMP staff. The GS1 Leadership Team ensures the execution of the GSMP mission and provides guidance in areas of escalation to the BCS.

D.6.2 GSMP Operations Group

GSMP Operations is a governance support entity which represents the staff function. The mission of GSMP Operations is to ensure effective functioning of the GSMP process by managing its day-to-day operations. It advises the BCS in areas of resourcing and feasibility. It is accountable to the Vice President of Global Standards for its role in the GSMP process.

GSMP Operations monitors and reports progress to the BCS against the Business Plan, assesses proposed changes and provides input to decisions made by the IESC regarding prioritisation and GS1 resource allocation within the development phase. The GSMP Operations group advises the GS1 Standards Executive Representative in the creation of a proposed GSMP Work Request by ensuring accurate completion of the Charter. Secondly, GSMP Operations ensures accurate completion of Charters for all approved Work Requests (WO).

The principal responsibilities of GSMP Operations are to:
- Monitor the process and evaluate performance against the Key Performance Indicators (KPIs) established by the BCS
- In conjunction with the BCS, develop action plans for process optimisation
- Ensure that Development-Related WR’s (section E.3.2) are submitted with a completed Charter which identifies resources, project deliverables, timelines, etc., as developed and approved by the IESC
- Direct resource allocation and address issues concerning the capacity of the process
- Develop, maintain and manage the GSMP infrastructure elements such as the Work Request system and GS1 Community Room, etc.
- Ensure that stage gate process requirements are met
- Update all tracking tools appropriately and in a timely manner

The success of GSMP Operations is measured by:
- Completion of the business plan on time
- Meeting target performance as measured by GSMP metrics
The GSMP Operations Group meets regularly either by teleconference or face-to-face. The GSMP Operations group. Participation in face-to-face meetings and teleconferences is limited to members and invited guests. The group liaises with the BCS on all matters of mutual concern.

The members of the GSMP Operations group are all relevant GS1 staff including the Global Office Standards Development, Solutions and Services and Industry Engagement teams.

The responsibilities of the members include:

- Attending scheduled meetings and conference calls
- Preparing appropriately prior to meetings, including familiarity with posted meeting materials
- Following-up and reporting on all action items and assignments at and between meetings
- Participating in the consensus-building process
Appendix: Work Request Steering

This Appendix specifies in detail the process for steering Work Requests through Step 1 of the GSMP process to create Work Requests.

E.1 Work Requests

Work Requests (WR), the entry point into the GSMP process, are submitted to request new standards or modify existing standards. A Work Request is always accompanied by information needed to assess whether it satisfies the entrance criteria for new GSMP work, including evidence that a sufficient number of companies support the effort and intend to adopt the results.

A Work Request defines the scope of a specific work activity to be undertaken by a GSMP Work Group.

- Two or more Work Requests that have similar or overlapping scope may be consolidated into a single (bundled) work item which specifies that the work will address all of the original Work Requests, and includes references to them.
- A single Work Request that has a large scope may be divided into two or more parts. Each new part specifies a portion of the original Work Request that will be addressed, and includes a reference to the original Work Request.

E.2 Work Requests that affect the GS1 keys

GS1 keys are the basis of the GS1 system. If a new or modified GS1 key is proposed, approval is required by the General Assembly.

New GS1 keys or modifications to existing keys should only be introduced to the standard if there are domains of entities for which existing GS1 identifiers are not sufficient for a use case defined in the future by a standards setting group in GSMP.

Creation of a new key means the approval of a new GS1 key which becomes added to the list of existing keys (see the GS1 General Specifications for definition of GS1 key).

Modification to the keys refers to changes to the data definition or format of any of the existing keys. It does not include the use or application of the keys such as the AIDC Application Standard selection of the GS1 keys, GS1 key management standards, assignment of Application Identifier values to keys, or GS1 keys use in GDSN, EDI, EPCIS, EPC Tag Data Standards, etc.

If a new or modification to a key is included in any proposed standard, it becomes a recommendation to the GA via the BCS and MB - electronic approval by the GA may be required.

Refer to the GS1 Operations Manual for more detailed information on GS1’s Policy on Keys.
E.2.1 Work Requests that affect GS1 Application Identifier (AI) Requests

Any individual or group putting forward a GSMP Work Request for a new or modified GS1 Application Identifier should be aware of the following rules and recommendations around GS1 Application Identifier assignment:

- Submitted WRs shall not include a request for the exact AI digits to be used (e.g., 888). However, the WR may state whether a 2, 3 or 4 digit AI is requested with justification. If the WR includes the actual values, it will be rejected and the submitter will be asked to resubmit without the values.
- The GS1 Global Office AIDC Leader shall assign GS1 Application Identifier digits to a Work Group during GSMP Step 3.1, ensuring the AI number will be included in the revised standards during community review and community eBallot.
- Technical Solution Design & Pilot (Note: these steps are optional and are work request dependent). Any pilot usage or testing of requested AI functionality should be undertaken using 90 series AIs.

E.2.2 Work Requests for New Data Carriers

A GS1 Industry User Group(s) (IUG) directs the process for evaluating the business need for a new AIDC data carrier. GS1 AIDC directs the process for evaluating the technical impact and market readiness to support the business need.

The GS1 Barcodes & Identification Technical Group (for barcodes) or RFID Hardware Standards Maintenance Group or related MSWG (for RFID) provides advice and guidance from the solution provider community regarding practical implementation issues and technical applications. In addition, it provides expertise for testing and trial implementations.

An AIDC Application Standard Mission Specific Work Group in coordination with the Identification SMG determines specifications for AIDC data carriers, to include endorsing specific AIDC data carriers for inclusion in the GS1 system, specifications for carrier quality, performance, and related ergonomic factors.

Sequence of Events for GS1 Adoption of New AIDC Carriers

1. One or more GS1 Industry User Groups, in concert with the GSMP Industry Engagement Steering Committee (IESC) and Global Office AIDC, qualify user community need for new AIDC data carriers and consults the Barcodes & Identification Technology Group or the RFID HW SMG or related MSWG on legacy impact and market readiness.

2. An Industry Engagement User Group in conjunction with GS1 Global Office AIDC submits a GSMP Work Request that addresses why and where (what application) the new AIDC data carrier technology is required (what unmet business requirement is met) and what affect the new technology will have on legacy solutions built based on GS1 standards.

3. If a Mission-Specific Work Group (MSWG) approves an AIDC Application Standard utilising the new AIDC data carrier, the AIDC data carrier technical specifications are added to the GS1 General Specifications and incorporated into Symbol Specification Tables (or equivalent for RFID) for all applicable scanner/reader operating environments.

E.2.3 Mandatory review of GS1 standards and guidelines after 3 years

As more standards and guidelines are added to the GS1 system there is a danger that, over time, the system becomes cluttered with unneeded components. This might happen because an individual standard or guideline has:

- been superseded by a better way to achieve the same function within the GS1 system
- been added to the system in a decision that, in retrospect, turns out to be wrong
- never been implemented

Having choices of standards tends to detract from interoperability and unnecessary choices are to be avoided. Therefore every effort should be made to deprecate and ultimately remove unneeded GS1 system components in support of the principles of interoperability and simplicity. For these reasons
each GS1 standards and guidelines that has not been updated in the 3-year period since the original publication date is subject to a mandatory review using the following process.

It is the responsibility of the GS1 Global Office to highlight each GS1 standard or guideline that has not been changed for a 3-year period. Where the standard or guideline is maintained under the responsibility of a Standards Maintenance Groups (SMGs), the responsible Standard Development Leader shall initiate an SMG review that will result in:

- a recommendation that the GS1 standard or guideline being reaffirmed for a further 3-years (possibly with minor edits, such as refreshed terminology or updated cross-references to other standards)
- a Work Request for the GS1 standard or guideline to be withdrawn
- a Work Request for the GS1 standard or guideline to be updated to highlight those sections of the standard or guideline which should be marked for deprecation

For any standard or guideline where there is no SMG responsible for the maintenance, the GSMP Operations Group shall be notified of the mandatory review limit date and make the judgement on the required next step.

### E.3 Work Request Variations

GSMP specifies a single process that is used for all system development. This includes development of new standards, new guidelines, and changes to existing standards and guidelines. In all cases, the steps outlined in sections 8 through 8.4 are followed, and the details of each step as specified in section F are largely the same.

The GSMP 4-Step Process does allow for certain variations, so that the process may be tuned to the need of a particular work effort. For example, a very small change to an existing standard, such as correcting an error or adding a new element to a list of data codes, is better handled by a Standards Maintenance Group (SMG) rather than going through the overhead of creating a Mission-Specific Work Group, whereas the creation of a standard for a new technology area requires a dedicated Work Group to develop requirements and a separate Work Group to develop the solution.

To accommodate this diversity, the GSMP 4-Step Process includes a set of adjustable parameters that allow the process to be tuned within the limits of allowed variations. The Work Request specifies the specific settings of these adjustable parameters.

**Work Requests include the following information:**

- References to any Work Requests from which this Work Request was created (see section E.1).
- The identification of the Work Group to which this Work Request is assigned; either:
  - The name of an existing Standards Maintenance Group (SMG); or
  - The name of a Mission-Specific Work Group that is formed to address this Work Request
- If this Work Request is assigned to a Mission-Specific Work Group, the following additional information is specified. If the Work Request is assigned to an SMG, this information is found in the SMG’s group work plan instead, or is not applicable.
  - The names, company affiliations, and contact information of the Work Group co-chairs
  - The name and contact information of the Work Group Facilitator
  - The membership and/or voting minimums that apply to this Work Group, including an identification of the participant roles that pertain to the balance condition. If the minimums are different than the normal minimums, justification must be included in the group work plan for approval by the IESC in Step 1.
  - The names of each “related” SMG, if any. See section C.1.2. The names, company affiliations, and contact information of each SMG liaison shall be specified (often, this is the same as one of the Work Group co-chairs).
- An expected timeline for the work. This timeline should identify the expected time to reach each of the relevant GSMP 4-Step Process milestones.
- An identification of resources needed from GS1 to support the work.
Work Requests that include the system development include the following information:

- Whether the deliverable is a GS1 standard (includes normative content) or GS1 guideline (does not include normative content)
- Whether or not prototype testing of the draft standard or guideline will be performed in GSMP Step 3
- Whether or not there will be a certification program for the standard, in which case Conformance Requirements must be developed in GSMP Step 3 and a certification test plan must be developed in GSMP Step 4
- A list of collateral materials that need to be created in GSMP Step 4. As a starting point, the work group shall consider all of the collateral materials listed in section H.3 as possible candidates for inclusion in the work plan. The list of collateral materials is subject to review and revision in GSMP Step 4.1 (section F.4.1).

Figure 15-1 Work Request Criteria

Note: The Work Request provides for other possible variations, such as having a Standards Maintenance Group (SMG) perform requirements analysis and a Mission-Specific Work Group be chartered separately to perform development, or vice versa. It is expected that such variations will be comparatively rare.

E.3.1 Maintenance Work Requests – Assigned to a Standards Maintenance Group (SMG)

When a Work Request relates mainly to the maintenance of an existing standard or guideline, it is typically assigned to a Standards Maintenance Group which is responsible for both requirements analysis and developing the change to the standard or guideline. This variation is best suited to small maintenance requests for these reasons:

- The overhead of forming a new work group is avoided, allowing maintenance requests to be handled with greater speed
- The continuity afforded by a standing group also increases speed, as it is not necessary to bring new members up to speed
- It is clear at the outset what standard or guideline is affected by the Work Request, so there is no need for the extra step of mapping between requirements efforts and system development efforts
The criteria for deciding when this variation is appropriate are discussed in section E.3.3. When there is doubt as to whether a Work Request is maintenance-related or not, it is categorised as a Development Request.

Maintenance Work Requests are handled in one of two ways, as described in the following subsections.

**E.3.1.1 Maintenance Work Requests Assigned to a Standards Maintenance Group for Requirements Analysis and System Development**

Most Maintenance Work Requests are assigned to a Standards Maintenance Group (SMG) for both Requirements Analysis and System Development. The SMG is responsible for analysing business requirements and documenting them in a Business Requirements Analysis Document (BRAD) or other requirements document. Once the requirements analysis is complete, the same SMG immediately begins work on developing the required changes to the standard or guideline.

**E.3.1.2 Maintenance Work Requests Assigned to a Standards Maintenance Group for Requirements Analysis Only, for periodic consolidation**

Certain standards, in particular EDI and GSDN standards, are updated on a regular calendar schedule. This is done to allow for a deliberate and planned transition from one version to the next in deployed systems. Work Requests that relate to maintenance of these standards are typically processed using a process flow variation that works in the following manner. The Work Request is assigned to a Standards Maintenance Group (as in section E.3.1.1), but the Standards Maintenance Group only performs requirements analysis. The results from the requirements analysis phase are then accumulated into a list of pending maintenance changes (typically as a spreadsheet rather than as a collection of BRAD documents). At predefined calendar intervals, these accumulated requirements are then consolidated into a new Work Request.

**E.3.2 Development Work Requests – Assigned to a Mission-Specific Work Group**

When a Work Request relates to development of new capabilities as opposed to maintenance or extremely small enhancements, a new Mission-Specific Work Group (MSWG) is formed to carry out the work. This allows the appropriate subject matter experts and interested parties from across the GSMP community to become involved and to focus on the single mission.

**E.3.3 Decision criteria for GSMP process variations**

GSMP Operations, is responsible for ensuring standards are delivered at the speed of business and for determining which process flow variation applies to each Work Request that is initiated in Step 1.

**E.3.3.1 Correcting errata**

Errata are defined as changes that do not materially affect the standard or those who have implemented the standard (ex. a typo, clarification, or minor change to the document formatting). Though these changes DO require a work request for tracking purposes, they DO NOT require public review and voting for approval. A motion of the SMG responsible for the maintenance of the documentation indicating that no one has concerns with the work request will suffice for errata approval. If there are any concerns with a change classified as errata, the full simple work request process (public review and vote) is required.

**E.3.3.2 Maintenance-related vs. Development-related**

One dimension on which a Work Request may be described is whether it is maintenance-related or development-related. These are not definite categorisations, and it is foreseen that many work efforts may not readily fit one description or the other. Instead, these descriptions should be viewed as extremes of a spectrum of possibilities. The goal is that Work Requests that are obviously at one extreme or another can be assigned a process flow variation with comparatively little effort during GSMP Step 1, while those lying in the middle will require more thought.
A Work Request lies at the maintenance-related end of the spectrum if it is a small change to an existing standard or guideline that can readily be handled by a standing committee. Examples include: Errata, New EDI code values, new symbol placement rules, GDSN validation rules.

In contrast, a Work Request lies at the development-related end of the spectrum if it involves creation of a new standard/guideline or significant change to existing standard/guideline. Examples include: an extension to GDSN, a new HF air interface standard, an enhancement to the EPCIS standard to include aggregation layers, a new barcode symbology, a new Business Message Standard.

Many Work Requests lie in between these extremes, including maintenance efforts that affect many parts of a standard or more than one standard, and development efforts that are small in scope.

In general, the steering criteria are expected to route Work Requests that are clearly maintenance-related to a Standards Maintenance Group (as in section E.3.1), and to route Work Requests that are development-related to a Mission-Specific Work Group (as in section E.3.2). In the middle of the spectrum, the steering process is expected to take into account the specific nature of the Work Request, the known capabilities of the relevant SMG(s), and the potential benefits of expanded and focused participation that can be obtained by chartering a Mission-Specific Work Group. It is expected to err on the side of forming a Mission-Specific Work Group when there is doubt.

Certain small maintenance-related Work Requests apply to standards that are updated on a periodic schedule, principally EDI and GSDN standards. The preferred path for these Work Requests is requirements analysis followed by periodic consolidation (as in section E.3.1.2). Other maintenance-related Work Requests are simply routed to an SMG for both requirements analysis and system development.
Appendix: Detailed GSMP process flow

This Appendix describes the GSMP 4-Step Process in detail. The description of each step of the process flow includes the following information:

- **Conditions**: Indicates under what conditions this step is to be carried out. If no conditions are indicated, then the process step is always carried out.
- **Responsible Group**: Which group is responsible for carrying out this step? The responsible group may collaborate with other groups, as noted.
- **Inputs**: Documents or other artefacts produced in earlier steps that are relevant to the carrying out of this step.
- **Process**: A description of what the responsible group does during this step.
- **Criteria for completing this Step**: A list of all the things that must be true or must have been completed in order for this step to be considered “finished” and the Work Group proceed to the next step.
- **Outputs**: New or revised documents or other artefacts produced in this step. In addition to outputs explicitly noted, most process steps also result in the creation of meeting minutes, archived email messages, and other records of Work Group activity.
- **Exceptions**: Conditions that result in a process or outcome different than the expected process and outcome, and what happens under those conditions. If omitted, then this process step has no exception conditions.
- **Termination**: Indicates under what conditions processing of the Work Request terminates; that is, under what conditions this step is the last process flow step for a Work Request. If no termination conditions are indicated, then this process step is never the last step.

F.1 GSMP Step 1: Steering

This section describes the detailed process flow within GSMP Step 1, Steering.

F.1.1 Step 1.1: GSMP Operations Review

**Responsible Group**: GSMP Operations

**Inputs**: Work Request submitted by a GS1 member

**Process**: Any GS1 member or Global Office on behalf of the community, may submit a Work Request using the submission system operated by GS1. The form provided to submitters includes a set of entrance criteria. As part of the submission form, the submitter is prompted to supply information needed to assess the Work Request against those criteria.

The GSMP Operations team reviews the Work Request to confirm that all information needed to assess the entrance criteria has been provided, and then to determine the nature of the work requested:
If the information needed to assess the entrance criteria is missing or incomplete, GSMP Operations returns the Work Request to the submitter to complete.

Otherwise, GSMP Operations assesses the nature of the work requested:

- If the Work Request is for simple maintenance or correction of errata in existing GSMP deliverables, the Work Request is routed directly to the responsible SMG as a Work Request approved to proceed with Step 1.6 (in which the SMG reviews the Work Request and moves to begin GSMP Step 2).
- All other Work Requests proceed to Step 1.2 below.

Criteria for completing this Step: GSMP Operations has completed the assessment described above and selected one of the three possible outcomes for the Work Request.

Outputs: Incomplete Work Request to be returned to the submitter, Work Request routed directly to an SMG, or a Work Request ready for Step 1.2, depending on the decision described above.

It is recommended GSMP operations completes its review within 14 days of the Work Request being submitted.

F.1.2 Step 1.2: IESC Assesses non-Maintenance Work Requests (Conditional)

Conditions: Only performed for Work Requests not routed directly to an SMG in Step 1.1.

Responsible Group: GSMP Operations, with final discussion and approval by the IESC

Inputs: Work Request determined by GSMP Operations in Step 1.1 to be complete and to be something other than simple maintenance. The Industry Engagement Steering Committee Proposal for Standards Development Work document.

Process: The Work Request is assessed in the following two areas, collectively called “steering”:

- Does the Work Request meet or exceed the entrance criteria established for new GSMP work? This includes a commitment to implement from a sufficient number of community members. If not, the Work Request is returned to the requestor.

- How does the Work Request relate to the entire portfolio of GS1 standards, the GS1 System Architecture, and to other GSMP work already planned or in progress? This assessment, described in more detail in section E, leads to a determination of:
  - Whether to combine this Work Request with others in the pipeline, and/or split it into multiple efforts
  - Which GSMP Work Group should carry out the work: an existing SMG or a new MSWG
  - If a new MSWG is called for, the new MSWG’s participation minimums and its related SMG, and any other GSMP process flow “settings” that will apply to the new MSWG.

To assess the commitment from the community, GSMP Operations may post the Work Request to the GSMP Community to solicit additional statements of support for the work and intention to adopt. This adds to the statements of support already submitted by the Work Request submitter as part of the entrance criteria.

The IESC has decision authority; however, GSMP Operations carries out a detailed analysis prior to bringing the Work Request to the IESC, so that the work of the IESC itself is focused more on approval than on analysis. The IESC takes a more active role for steering decisions that are not routine. Both GSMP Operations and the IESC may consult the GS1 Architecture Group, existing GSMP Work Group co-chairs, GS1 Subject Matter Experts (SMEs), or any other source that may help lead to a better assessment. In all cases, GSMP Operations sends a preliminary analysis to the relevant GS1 Industry Engagement groups (sector leadership teams and/or Industry User Groups (IUGs)) for review. Feedback from the GS1 Industry Engagement group(s) is included in the final analysis brought to the IESC.

Note: The GS1 Healthcare Leadership Team (HCLT) charter stipulates that the HCLT has the authority to approve any healthcare-only work request (other than maintenance) before it proceeds through GSMP. The IESC must respect the HCLT’s decision for healthcare-only, non-maintenance Work Requests.
It is essential that steering during this step be carried out in an open and transparent manner. The IESC is responsible for approving entrance criteria adopted by GSMP Operations for the triage and prioritisation of Work Requests as defined above and the process by which those criteria are to be applied.

Criteria for Completing this Step:

- The IESC approves new work for large work efforts.
- The completed Work Request has been created, including the entrance criteria from the original Work Request(s), the indication of which GSMP Work Group will carry out the Work Request, and all relevant process flow settings for a new MSWG (if applicable). See section F.3 for the content of a Work Request.

Outputs: Approved standards development project or rejected standards development project.

Exceptions:

- If the IESC determines that a Work Request does not sufficiently meet the GSMP entrance criteria (despite the earlier review by GSMP Operations) the Work Request is returned to the submitter to rectify and resubmit.
- The IESC may recommend that commencement of work on the Work Request be delayed to coordinate with the completion of other work or the commencement of other anticipated work, if the IESC judges that will result in an overall better outcome for the community. Such decisions must be explained clearly to the community.

F.1.3 Step 1.3: GO LT Strategy/Resource Check, and Charter Creation (Conditional)

Conditions: Only performed for Work Requests not routed directly to an SMG in Step 1.1.

Responsible Group: GO Leadership Team and GSMP Operations

Inputs: Work Request proposal for the IESC

Process: The GS1 Global Office Leadership Team confirms that the work outlined in the Work Request is consistent with the GS1 Strategy and that the proposed timing of the work is aligned with the available resources.

If in Step 1.2 it was determined that the Work Request is to be carried out by a new Mission-Specific Work Group (MSWG), GSMP Operations drafts a Work Group charter based on the output of Step 1.2, and the President of GSMP, as an IESC Member, confirms that the charter is consistent with the IESC’s intent. See section C.1.3 for details of the content of a Work Group Charter.

Criteria for completing this Step:

- The GO Leadership Team has confirmed that the work may begin immediately.
- A Call-to-Action has been issued, specifying a deadline for sign up of initial members

Outputs: Confirmed Work Request, new MSWG Charter (if applicable)

Exceptions:

- The GO Leadership Team may postpone commencement of the work if insufficient resources are available to support it at the present time. Such decisions must be explained clearly to the community.

F.1.4 Step 1.4: GSMP Operations Issues Call-to-Action (Conditional)

Conditions: Only performed if a Work Group is new or an existing group requires additional expertise.

Responsible Group: GSMP Operations

Inputs: Work Request and MSWG Charter

Process: The GSMP Operations issues a Call-to-Action derived from the Charter developed in Step 1.3 to solicit membership in the newly formed Mission-Specific Work Group. The Call-to-Action shall include the Work Request including the accompanying information used to assess the entrance
criteria. The Call-to-Action shall also specify a deadline for sign up of initial members, after which the first meeting of the Mission Specific Work Group will take place.

**Criteria for completing this Step:**
- A Call-to-Action has been issued, specifying a deadline for sign up of initial members

**Outputs:** Call-to-Action

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### F.1.5 Step 1.5: Mission-Specific Work Group formed (Conditional)

#### Conditions:
Only performed if a Work Request specifies that work is to be performed by a new Mission-Specific Work Group.

#### Responsible Group: GSMP Operations

#### Inputs:
Work Request, Call-to-Action

#### Process:
GSMP Operations creates a new Community Room for the Mission-Specific Work Group. A Work Group Facilitator is appointed. The facilitator enters a link to the Work Request and all supporting materials into the Community Room. As participants respond to the Call-to-Action, the GS1 Membership Manager confirms their eligibility to participate (that their organisation has signed the IP Policy and opted-in), and approves their request for group membership. The facilitator keeps track to determine whether the membership minimums established are met. Work Group co-chairs are selected according to the process defined in section C.1.2.1.

**Criteria for completing this Step:**
- A new Community Room for the Work Group is set up, and the Work Group Charter and supporting materials entered there.
- A Work Group Facilitator is appointed, and his or her contact information is posted in the Community Room.
- A sufficient number of eligible initial members respond to the Call-to-Action and are accepted into the team’s Community Room roster, according to the membership minimums established in the Work Group Plan.
- An announcement of the first Work Group meeting has been sent to the Work Group via the Community Room e-mail function. (The schedule for meetings beyond the first will be established by consensus of the Work Group.)
- Co-chairs have been selected according to the process defined in section C.1.2.1. If an election is necessary, this step completes after the election process is complete.

**Outputs:** A New Community Room

#### Exceptions:
- An insufficient number of members respond to the Call-to-Action, according to the membership minimums established in the Work Group Plan. In this case, Work Group Facilitator shall work with IE to engage additional members, and notify GSMP Operations and the IESC that the initial Call-to-Action failed to gather minimum membership. If this is not successful in meeting the minimums, the IESC is notified, and they decide what to do. The IESC may choose to lower the minimum membership requirements for this Work Group, allowing the group to proceed. Otherwise, the Work Request is terminated for lack of interest. As long as the minimums have not been met, no announcement of initial meeting is sent, and the Work Group does not meet.
- A sufficient number of volunteers for co-chairs cannot be found. In this case, the Vice President of Standards Development is notified, and decides what to do. No announcement of initial meeting is sent, and the Work Group does not meet. (If co-chair volunteers are solicited during the initial meeting according to section C.1.2.1, then no further meetings may be held until the Vice President of Standards Development resolves the co-chair issue.)

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### F.1.6 Step 1.6: Work Group Reviews Work Request and Moves to Proceed to Step 2

#### Responsible Group: Work Group
**Inputs:** Work Request, including information provided with the original Work Requests to support the entrance criteria.

**Process:** The Work Group Facilitator presents the Work Request and the information provided with the original Work Requests to support the entrance criteria, to the Work Group. The supporting information is now called the Business Case, which the Work Group Facilitator (with assistance from GSMP Operations) will maintain as the Work Group continues its work.

The Work Group reviews the Work Request and Business Case to ensure that it is fully understood by the Work Group. If not fully understood, the Work Group shall seek the assistance of GSMP operations, and if necessary the IESC, to clarify the intent of the Work Request.

When the Work Group is satisfied that it has fully understood the Work Request, it carries out a Group Voice Motion (section G.1) to confirm that the group is ready to proceed to Step 2.

**Criteria for completing this Step:**
- The Work Group is satisfied that it understands the Work Request.
- The Group Voice Motion to proceed to Step 2 carries.

**Outputs:** None

**Exceptions:**
- If the motion does not carry, the Work Group shall consult the Vice President of Standards Development for assistance.

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**F.2 GSMP Step 2: Requirements Analysis**

This section describes the detailed process flow within GSMP Step 2, Requirements Analysis.

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**F.2.1 Step 2.1: Work Group Performs Requirements Analysis**

**Responsible Group:** Work Group

**Inputs:** Work Request, including the entrance criteria information submitted with the original Work Request if applicable

**Process:** The Work Group analyses the business requirements that arise from the stated business need. The form the requirements analysis takes depends on the scope of the Work Request:

- For most development efforts that are chartered to create or revise a GS1 standard, or where the ultimate outputs are uncertain pending requirements analysis, the result of requirements analysis is a Business Requirements Analysis Document (BRAD). The Work Group shall use the established BRAD template, and work to complete as much of the template as is relevant. For certain types of requirements analysis efforts, there may be other recommended tools or intermediate work products to help in the creation of good business requirements, such as use case templates, and so forth.

- For a Work Request chartered to create a GS1 guideline, some sections of the BRAD template may not apply. The requirements analysis phase should concentrate on documenting all of the use cases that the guideline needs to address.

- For a Work Request chartered to address errata in a published GS1 standard or guideline, or for extremely narrow maintenance Work Requests, it may be more appropriate simply to document the changes that are needed. For purposes of Step 2, this need not be extremely precise; e.g.,
it suffices in Step 2 to document a requirement “change all occurrences of ‘Widget’ to ‘Approved Widget’”, rather than document each place in the existing standard where such a change must be made.

- For maintenance Work Requests pertaining to EDI and GDSN where requirements are periodically consolidated and fed back to GSMP Step 1, the result of requirements analysis may take a highly stylised form, such as a row added to a spreadsheet that will form the basis for the subsequent consolidated Work Request.

As the Work Group carries out requirements analysis, it should as soon as possible begin a draft BRAD or other output, and revise this draft as work progresses. Orienting the Work Group towards revising a draft deliverable and formulating all Work Group decisions in the form of revisions to the draft helps to keep the Work Group focused on the ultimate goal of producing a document that reflects Work Group consensus. The Work Group co-chairs and Work Group facilitator shall strive to ensure that the draft deliverable reflects the consensus of the group, and to use the group decision making procedures (section 11) to help drive consensus as necessary. Most substantive issues should be addressed before the Work Group proceeds to finalisation of the document in the next step.

**Criteria for completing this Step:**

- A clean copy of a “next-to-final” draft BRAD or other requirements document is posted to the Work Group’s Community Room. In most cases, this should take the form of a Word or PDF document with line numbers, to facilitate the finalisation process in the next step.

**Outputs:** A draft BRAD or other requirements document, ready for finalisation.

### F.2.2 Step 2.2: Work Group Finalises Requirements Analysis

**Responsible Group:** Work Group

**Inputs:** Draft BRAD or other requirements document

**Process:** Work Group finalises the BRAD or other requirements document, following the procedure in section F.5.

**Criteria for completing this Step:**

- All Work Group comments collected during finalisation have been addressed by the Work Group, either by making the suggested change to the BRAD or other requirements document or agreeing that no change is required.
- The Work Group successfully completes a Group Virtual Vote or a Group voice Motion (section G.1) to approve the completed BRAD or other requirements document. A clean copy of the revised BRAD or other requirements document is posted to the Work Group’s Community Room. This is now a Community Review draft (except in the case of a maintenance Work Request subject to periodic consolidation following section E.3.1.2, where the output at this stage is not subject to community review).

**Outputs:** Community Review draft of BRAD or other requirements document (except as noted above)

**Termination:** In the case of a maintenance Work Request subject to periodic consolidation following section E.3.1.2, this is the last process step for this Work Request. All other Work Requests proceed to Step 2.3.

### F.2.3 Step 2.3: Community Review of Requirements Analysis

**Responsible Group:** Work Group, with input solicited from AG, any affiliated SMG(s), and the GSMP community

**Inputs:** Community Review draft of BRAD or other requirements document

**Process:** Work Group conducts a community review of the Community Review draft BRAD or other requirements document, following the procedure in section F.6.

During this review, of particular importance are comments received from the GS1 Architecture Group (AG) and any Standards Maintenance Groups to which this Work Group is related. The Work
Group shall ensure that comments from those groups are solicited, received, and given special attention during the review process. In particular, any comment received from the AG relating to an inconsistency with the established GS1 architecture and architecture principles must be resolved by the Work Group.

Criteria for completing this Step:

- All comments collected during the community review have been addressed by the Work Group, either by making the suggested change to the BRAD or other requirements document or agreeing that no change is required.
- The Work Group successfully completes a Group Voice Motion or a Group Virtual Vote (section G.1) to commence a community eBallot.
- The status page of the BRAD or other requirements document is changed to indicate its status as a Candidate Document, and a clean copy is posted to the Work Group’s Community Room.

Outputs: Candidate BRAD or other requirements document

F.2.4 Step 2.4: eBallot of Requirements Analysis

Responsible Group: Work Group, with assistance of GSMP Operations

Inputs: Candidate BRAD or other requirements document

Process: The Candidate BRAD or other requirements document is posted for an eBallot (section G.3).

Criteria for completing this Step:

- The Work Group successfully completes a Community eBallot (section G.3).
- The BCS is informed of any “no” votes and of all comments that accompany votes received during the Community eBallot.
- A summary of the vote as described in section G.3 is posted in an area of the Community Room accessible to the GSMP community.
- The status page of the BRAD or other requirements document is changed to indicate its status as a Final Document, and a clean copy is posted to the Work Group’s Community Room and to the Community Room accessible to the GSMP community.

Outputs: Final BRAD or other requirements document

Termination: If the Work Request specified that requirements analysis and system development are to be carried out by separate Work Groups (section E.3.2), then this Work Request terminates. The BRAD or other requirements document, however, will be considered during GSMP Step 2.5, and one or more new Work Requests will be chartered to carry on the system development work. All other Work Requests proceed directly to system development beginning with GSMP Step 3.1.
F.3 GSMP Step 3: System Development

This section describes the detailed process flow within GSMP Step 3, System Development.

F.3.1 Step 3.1: Work Group Performs System Development

**Responsible Group:** Work Group

**Inputs:** Work Request, BRAD

**Process:** The Work Group develops a new GS1 standard or guideline, or develops a revised version of an existing GS1 standard or guideline, in accordance with the scope identified in the Work Request. The resulting GS1 standard or guideline shall fulfill the business requirements documented in the BRAD.

As the Work Group carries out system development, it should as soon as possible begin a draft GS1 standard or guideline (if not revising an existing document), and revise this draft as work progresses. Orienting the Work Group towards revising a draft deliverable and formulating all Work Group decisions in the form of revisions to the draft helps to keep the Work Group focused on the ultimate goal of producing a document that reflects Work Group consensus. The Work Group co-chairs and Work Group facilitator shall strive to ensure that the draft deliverable reflects the consensus of the group, and to use the group decision making procedures (section 11) to help drive consensus as necessary. Most substantive issues should be addressed before the Work Group proceeds to finalisation of the document in the next step.

When appropriate, the Work Group may solicit assistance at this stage from GS1 Global Office staff who is assigned to provide specific technical help to Work Groups. Examples include UML modelling, technical writing, and others.

**Criteria for completing this Step:**

- A clean copy of a “next-to-final” draft GS1 standard or guideline is posted to the Work Group’s Community Room. In most cases, this should take the form of a Word or PDF document with line numbers, to facilitate the finalisation process in the next step. However, where a standard or guideline is being delivered in HTML, or other online format, a PDF copy with paragraph numbers should be generated from the HTML master to provide an archive version for the Community Room.

**Outputs:** A draft GS1 standard or guideline, ready for finalisation.
F.3.2 Step 3.2: Work Group Finalises draft GS1 standard or guideline

**Responsible Group:** Work Group

**Inputs:** Draft GS1 standard or guideline

**Process:** Work Group finalises the GS1 standard or guideline following the procedure in section F.5.

**Criteria for completing this Step:**

- All Work Group comments collected during finalisation have been addressed by the Work Group, either by making the suggested change to the GS1 standard or guideline or agreeing that no change is required.
- The Work Group successfully completes a Group Virtual Vote (section G.1) to approve the completed GS1 standard or guideline.
- A clean copy of the revised GS1 standard or guideline document is posted to the Work Group’s Community Room. This is now a Community Review draft.

**Outputs:** Community Review draft of GS1 standard or guideline

F.3.3 Step 3.3: Community Review of GS1 standard or guideline

**Responsible Group:** Work Group, with input solicited from AG, any affiliated SMG(s), and the GSMP community

**Inputs:** Community Review draft of GS1 standard or guideline

**Process:** Work Group conducts a community review of the Community Review draft GS1 standard or guideline, following the procedure in section F.6.

During this review, of particular importance are comments received from the GS1 Architecture Group (AG) and any Standards Maintenance Groups to which this Work Group is affiliated. The Work Group shall ensure that comments from those groups are solicited, received, and given special attention during the review process. In particular, any comment received from the AG relating to an inconsistency with the established GS1 architecture and architecture principles must be resolved by the Work Group.

**Criteria for completing this Step:**

- All comments collected during the community review have been addressed by the Work Group, either by making the suggested change to the GS1 standard or guideline or agreeing that no change is required.
- The Work Group successfully completes a Group Voice Motion (section G.1) to commence a community eBallot.
- The status page of the draft GS1 standard or guideline is changed to indicate its new status, and a clean copy is posted to the Work Group’s Community Room. The new status is a Prototype Standard, if the Work Plan calls for prototype testing, or a Candidate Standard or Guideline, if not.

**Outputs:** Prototype GS1 standard, Candidate GS1 standard, Candidate GS1 guideline

F.3.4 Step 3.4: Preliminary IP Review (conditional)

**Condition:** Only performed if the Work Request specifies that Conformance Requirements are required or if Prototype Testing is called for, and the Work Group determines that these steps will take sufficient time so that an initial IP review is warranted. Otherwise, only the final IP review need be performed. The purpose of the initial IP review is to uncover IP problems earlier in the process, but does not take the place of the final IP review which is mandated by the GS1 IP Policy.

**Note:** If performed, this step is initiated immediately following the completion of Step 3.3, and runs in parallel with any remaining sub steps within Step 3.

**Inputs:** Prototype or Candidate GS1 standard or guideline
Process: Work Group facilitator issues a community announcement that the initial IP review for the GS1 standard or guideline has commenced. This announcement shall include the Prototype or Candidate GS1 standard or guideline, shall indicate that this is the initial (not final) review, and that organisations have 30 days to respond using the IP Declaration if they wish to declare IP.

After 30 days have elapsed from the time the announcement is sent, the Work Group facilitator shall gather any received IP Declarations and send them to GS1 Legal Counsel, which shall respond to the Work Group indicating if any action need be taken.

Criteria for completing this Step:
- An announcement as described above has been sent to the community.
- 30 days have elapsed since the announcement, and all received IP Declarations forwarded to GS1 Legal Counsel.
- GS1 Legal Counsel has responded to the Work Group indicating any action that must be taken, such as forming an IP Advisory Group (IPAG) which is an ad hoc group formed to resolve IP issues.

Outputs: none

F.3.5 Step 3.5: Work Group Develops Conformance Requirements (conditional)

Note: The Work Group may perform much of the development work for this step in parallel with Step 3.1, and is encouraged to do so to reduce the total time required.

Condition: Only performed if the Work Request specifies that Conformance Requirements are required; i.e., if there is to be a certification program for the finished GS1 standard.

Responsible Group: Work Group

Inputs: Prototype or Candidate GS1 standard

Process: The Work Group develops a Conformance Requirements Document (section H.2.7) for the Prototype or Candidate GS1 standard. The Conformance Requirements Document specifies the requirements that a conformance certification test shall meet in order to test an implementation of the GS1 standard for conformance to the standard. The Conformance Requirements Document is used during Step 4 to develop a certification test program. The Conformance Requirements Document is a separate document from the GS1 standard itself.

In the course of developing the Conformance Requirements Document, the Work Group may discover errata to the Prototype GS1 standard. These should be recorded on a comment spreadsheet or using the Community Room comment tracking function, for processing in GSMP Step 3.8.

As the Work Group carries out development, it should as soon as possible begin a draft Conformance Requirements Document (if not revising an existing document), and revise this draft as work progresses. Orienting the Work Group towards revising a draft deliverable and formulating all Work Group decisions in the form of revisions to the draft helps to keep the Work Group focused on the ultimate goal of producing a document that reflects Work Group consensus. The Work Group co-chairs and Work Group facilitator shall strive to ensure that the draft deliverable reflects the consensus of the group, and to use the group decision making procedures (section 11) to help drive consensus as necessary. Most substantive issues should be addressed before the Work Group proceeds to finalisation of the document in the next step.

When appropriate, the Work Group may solicit assistance at this stage from GS1 Global Office staff who is assigned to provide specific technical help to Work Groups.

When the Work Group believes its draft deliverable is complete and reflects consensus, a Group Voice Motion (section G.1) is used to advance to the step of finalising the document.

Criteria for completing this Step:
- A clean copy of a “next-to-final” draft Conformance Requirements Document is posted to the Work Group’s Community Room. In most cases, this should take the form of a Word or PDF document with line numbers, to facilitate the finalisation process in the next step. However,
where a standard or guideline is being delivered in HTML, or other online format, a PDF copy with paragraph numbers should be generated from the HTML master to provide an archive version for the Community Room.

- The Work Group successfully completes a group voice motion (section G.1) to proceed to the next step, finalisation.

**Outputs:** A “next-to-final” draft Conformance Requirements Document.

**Exceptions:**

- If the motion does not carry, the Work Group shall continue to work to drive towards consensus through revisions to the Conformance Requirements Document. If the Work Group feels it has reached an impasse, it may escalate the issue to the Vice President of Standards Development for assistance.

- If the Work Group determines that development of a Conformance Requirements Document will cause an unacceptably long delay in the ratification of the GS1 standard, the Work Group may appeal to the Vice President of Standards Development to have the development of Conformance Requirements deferred to a separate work effort. In that case, the first version of the GS1 standard will be ratified without Conformance Requirements, and no conformance certification test will be available. At a later time, a Work Request is entered to develop Conformance Requirements and a certification test; this activity is often accompanied by a revision to the GS1 standard itself as errata are typically discovered during the creation of a Conformance Requirements Document. This Work Request proceeds through the GSMP 4-Step Process as does any other Work Request.

**F.3.6 Step 3.6: Work Group Finalises Draft Conformance Requirements Document (conditional)**

**Condition:** Only performed if the Work Request specifies that Conformance Requirements are required; i.e., if there is to be a certification program for the finished GS1 standard.

**Responsible Group:** Work Group

**Inputs:** “next-to-final” draft Conformance Requirements Document

**Process:** Work Group finalises the Conformance Requirements Document following the procedure in section F.5.

In the course of finalising the Conformance Requirements Document, the Work Group may discover errata to the Prototype GS1 standard. These should be recorded on a comment spreadsheet or using the Community Room comment tracking function, for processing in GSMP Step 3.8.

**Criteria for completing this Step:**

- All Work Group comments collected during finalisation have been addressed by the Work Group, either by making the suggested change to the Conformance Requirements Document or agreeing that no change is required.

- The Work Group successfully completes a Group Virtual Vote (section G.1) to approve the completed Conformance Requirements Document.

- A clean copy of the revised Conformance Requirements Document is posted to the Work Group’s Community Room. This is now a Community Review draft.

**Outputs:** Community Review draft of Conformance Requirements Document

**F.3.7 Step 3.7: Community Review of Conformance Requirements Document (Conditional)**

**Condition:** Only performed if the Work Request specifies that Conformance Requirements are required; i.e., if there is to be a certification program for the finished GS1 standard.

**Responsible Group:** Work Group, with input solicited from AG, any affiliated SMG(s), and the GSMP community

**Inputs:** Community Review draft of Conformance Requirements Document

During this review, of particular importance are comments received from the GS1 Architecture Group (AG) and any Standards Maintenance Groups to which this Work Group is affiliated. The Work Group shall ensure that comments from those groups are solicited, received, and given special attention during the review process.

In the course of processing community review comments for the Conformance Requirements Document, the Work Group may discover errata to the Prototype GS1 standard. These should be recorded on a comment spreadsheet or using the Community Room comment tracking function, for processing in GSMP Step 3.8.

Criteria for completing this Step:
- All comments collected during the community review have been addressed by the Work Group, either by making the suggested change to the Conformance Requirements Document or agreeing that no change is required.
- The Work Group successfully completes a Group Voice Motion (section G.1) to commence a community vote.
- The Work Group successfully completes a Community eBallot (section G.3).
- The BCS is informed of any “no” votes and of all comments that accompany votes received during the Community eBallot.
- A summary of the vote as described in section G is posted in an area of the Community Room accessible to the GSMP community.
- The status page of the Conformance Requirements Document is changed to indicate new status, and a clean copy is posted to the Work Group’s Community Room and to the Community Room accessible to the GSMP community. The new status is a Candidate Conformance Requirements Document.

Outputs: Candidate GS1 Conformance Requirements Document

F.3.8 Step 3.8: Work Group Performs Prototype Testing of Standard or Guideline (conditional)

Condition: Only performed if the Work Request specifies that prototype testing is to be done

Responsible Group: Work Group

Inputs: Prototype GS1 standard or guideline

Process: The Work Group tests the draft GS1 standard or guideline to ensure that it is implementable. Specifically, the Work Group seeks to ensure that the GS1 standard or guideline is clear, accurate, unambiguous, self-consistent, and complete. No new development or change in scope shall be contemplated at this stage, except as necessary to correct any failure to achieve these properties.

In most cases, the process of prototype testing of a standard or guideline entails Work Group members each individually attempting to implement the standard or guideline, and comparing these efforts with each other to identify potential areas where the standard or guideline document may be insufficiently clear or contains errors. When possible, Work Group members attempt to achieve interoperability of independent implementations as a means to identify such problem areas. If the Work Group finds a disagreement between two implementations, it does not necessarily indicate that the standard or guideline needs revision (it could, for example, simply be an error in one or both implementations). Instead, the Work Group should consider such disagreements to identify a potential place where the standard or guideline needs revision, and then the Work Group must delve deeper to determine what action to take. Any proposed changes should be recorded formally for later review by the Work Group during finalisation.

The Work Group members should attempt to devise a sufficient number of test cases so that all normative statements in the standard or guideline receive some testing at this stage. It may be possible to achieve complete test coverage among a collection of implementations during prototype
testing, even if no one of those implementations is a complete implementation of the standard or guideline. It should be noted that the goal of prototype testing is only to identify and fix errors in the draft standard or guideline that prevent interoperable implementations from being created using the standard or guideline document. Prototype testing is not intended to confirm whether the draft standard or guideline succeeds in meeting business requirements or addressing a business need – the latter is addressed through industry pilots conducted by IE, not prototype testing in GSMP Step 3.8. Prototype testing is also not intended to confirm whether a given implementation conforms to the standard or guideline – the latter is addressed through conformance certification performed after the standard or guideline is ratified. The sole purpose of prototype testing at this step is to ensure the quality of the standard or guideline under development.

When the Work Group believes it has thoroughly tested the draft standard or guideline and has collected all proposed revisions, the working group incorporates those changes into the draft standard or guideline via the process of finalisation (section F.5). Any changes to the draft standard or guideline arising from the completion of the Conformance Requirements Document are also incorporated at this stage. A Group Virtual Vote (section G.1) is used to approve the completed GS1 standard or guideline.

Criteria for completing this Step:

- All proposed changes are captured and ready for finalisation.
- The Work Group successfully completes a Group Virtual Vote (section G.1) to approve the completed GS1 standard or guideline. The result is now a Candidate GS1 standard or guideline, and a Candidate Conformance Requirements document (if applicable).

Outputs: Candidate GS1 standard or guideline, Candidate Conformance Requirements document (if applicable).

F.3.9 Step 3.9: Final IP Review

Note: This step must be completed before the GS1 standard or guideline is submitted to the BCS for ratification in Step 3.11.

Inputs: Candidate GS1 standard or guideline

Process: The Work Group facilitator issues a community announcement that the final IP review for the GS1 standard or guideline has commenced. This announcement shall include the Candidate GS1 standard or guideline, shall indicate that this is the final review, and that organisations have 30 days to respond using the IP Declaration if they wish to declare IP.

After 30 days have elapsed from the time the announcement is sent, the Work Group facilitator shall gather any received IP Declarations and send them to GS1 Legal Counsel, which shall respond to the Work Group indicating if any action need be taken. This response shall also be provided to the BCS during ratification.

Criteria for completing this Step:

- An announcement as described above has been sent to the community.
- 30 days have elapsed since the announcement, and all received IP Declarations forwarded to GS1 Legal Counsel.
- GS1 Legal Counsel has responded to the Work Group indicating any action that must be taken, such as forming an IP Advisory Group (IPAG) which is an ad hoc group formed to resolve IP issues.

Outputs: none

F.3.10 Step 3.10: eBallot of GS1 standard or guideline

Responsible Group: Work Group, with assistance of GSMP Operations
**Inputs:** Candidate GS1 standard or guideline, Candidate Conformance Requirements Document (if applicable)

**Process:** The Candidate GS1 standard or guideline, along with the Candidate Conformance Requirements Document if applicable, is posted for an eBallot (section G.3).

**Criteria for completing this Step:**
- The Work Group successfully completes a Community eBallot (G.3).
- The BCS is informed of any "no" votes and of all comments that accompany votes received during the Community eBallot.
- A summary of the vote as described in section G.3 is posted in an area of the Community Room accessible to the GSMP community.
- The status page of the GS1 standard or guideline is changed to indicate its new status, and a clean copy is posted to the Work Group’s Community Room and to the Community Room accessible to the GSMP community. The new status is an Unratified Standard or Guideline, and Unratified Conformance Requirements Document (if applicable).

**Outputs:** Unratified GS1 standard or guideline, Unratified Conformance Requirements Document (if applicable)

**F.3.11 Step 3.11: Ratification by the GS1 Management Board**

**Responsible Group:** GS1 Management Board, with the BCS

**Inputs:** Unratified GS1 standard or guideline with a summary of "no" votes cast during community eBallot (with their accompanying comments)

**Process:** The Board Committee for Standards confirms that due process has been followed in creating the Unratified GS1 standard or guideline, as well as the Conformance Requirements Document if applicable, and votes to ratify it (them).

**Note:** The GS1 Management Board delegates its authority to ratify standards to the BCS on two conditions: 1. The BCS votes unanimously to ratify; and 2. There are no objections from members of the GS1 Management Board who are not represented on the BCS.

Work Requests that affect the GS1 keys will need to be approved by the GS1 General Assembly following ratification. See section F.2 for information on Work Requests that affect the GS1 keys.

**Criteria for completing this Step:**
- The GS1 Management Board ratifies the GS1 standard or guideline, as well as the Conformance Requirements Document if applicable.
- The GS1 standard or guideline has been approved by the GS1 General Assembly, if the GS1 standard or guideline arises from a Work Request that affects the GS1 keys as defined above.

**Outputs:** Ratified GS1 standard or guideline; Ratified Conformance Requirements Document (if applicable)

**F.3.12 Step 3.12: Publication**

**Responsible Group:** GS1 Publications Staff

**Inputs:** Ratified GS1 standard or guideline

**Process:** GS1 Publications Staff publishes the Ratified GS1 standard or guideline.

See section 15 for more details of the publication process.

**Criteria for completing this Step:**
- The Ratified GS1 standard or guideline has been published to the GS1 public website.

**Outputs:** Publication of previous outputs
F.4 GSMP Step 4: Collateral

F.4.1 Step 4.1: Work Group Confirms List of Collateral Materials

**Responsible Group:** Work Group, in collaboration with Industry Engagement

**Inputs:** Work Request, BRAD, Business Case, Ratified GS1 standard or guideline

**Process:** The Work Group considers what collateral materials ought to be developed in Step 4, and creates a list that documents this decision. The Work Group shall collaborate with Industry Engagement to create this list. As a starting point, the Work Group shall consider all of the collateral materials listed in sections 8.4 and H.3 as possible candidates for inclusion.

When the Work Group agrees it has reached consensus on the list of collateral materials, it confirms this through a Group Voice Motion (section G.1).

**Criteria for completing this Step:**

- A list of collateral materials that has been reviewed with Industry Engagement is posted to the Work Group's Community Room.
- The Work Group successfully completes a group voice motion (section G.1) to proceed to the next step.

**Outputs:** A list of collateral materials.

**Exceptions:**

- If the motion does not carry, the Work Group shall continue to work to drive towards consensus through revisions to list of collateral deliverables. If the Work Group feels it has reached an impasse, it may escalate the issue to the Vice President of Standards Development for assistance.

F.4.2 Step 4.2: Work Group Creates Collateral Materials

**Responsible Group:** Work Group

**Inputs:** Work Request, BRAD, Business Case, Ratified GS1 standard or guideline, List of Collateral Deliverables.

**Process:** The Work Group creates collateral materials in accordance with the list developed in Step 4.1.

As the Work Group carries out this step, it should as soon as possible begin a draft document for each deliverable and revise these drafts as work progresses. Orienting the Work Group towards revising draft deliverables and formulating all Work Group decisions in the form of revisions to the drafts helps to keep the Work Group focused on the ultimate goal of producing documents that reflect Work Group consensus. The Work Group co-chairs and Work Group facilitator shall strive to ensure that the draft deliverables reflect the consensus of the group, and to use the group decision making procedures (section 11) to help drive consensus as necessary. Most substantive issues should be addressed before the Work Group proceeds to finalisation of the documents in the next step.

When the Work Group believes its draft deliverables are complete and reflect consensus, a Group Voice Motion (section G.1) is used to advance to the step of finalising the documents.

**Criteria for completing this Step:**
A clean copy of a “next-to-final” draft of each collateral deliverable is posted to the Work Group’s Community Room. In most cases, each should take the form of a Word or PDF document with line numbers, to facilitate the finalisation process in the next step. However, where a standard or guideline is being delivered in HTML, or other online format, a PDF copy with paragraph numbers should be generated from the HTML master to provide an archive version for the Community Room.

The Work Group successfully completes a group voice motion (section G.1) to proceed to the next step, finalisation.

**Outputs:** A “next-to-final” draft of each collateral deliverable identified in the List of Collateral Materials

**Exceptions:**
- If the motion does not carry, the Work Group shall continue to work to drive towards consensus through revisions to the draft deliverables. If the Work Group feels it has reached an impasse, it may escalate the issue to the Vice President of Standards Development for assistance.

### F.4.3 Step 4.3: Work Group Finalises Draft Collateral Deliverables

**Responsible Group:** Work Group

**Inputs:** “next-to-final” draft collateral deliverables

**Process:** Work Group finalises each collateral deliverable following the procedure in section F.5.

**Criteria for completing this Step:**
- All Work Group comments collected during finalisation have been addressed by the Work Group, either by making the suggested change to the deliverable or agreeing that no change is required.
- The Work Group successfully completes a Group Virtual Vote or Group Voice Motion (section G.1) to approve the completed collateral deliverables.
- A clean copy of each collateral document is posted to the Work Group’s Community Room. Each is now a Community Review draft.

**Outputs:** Community Review draft of collateral deliverables

### F.4.4 Step 4.4: Community Review of Collateral Deliverables

**Responsible Group:** Work Group, with input solicited from AG, any affiliated SMG(s), and the GSMP community

**Inputs:** Community Review draft of Collateral Deliverables

**Process:** Work Group conducts a community review of the Community Review drafts of all Collateral Deliverables, following the procedure in section G.3. The Ratified GS1 standard or guideline shall be pointed out to the community during this review for reference purposes, but it shall be made clear that comments are only solicited for the collateral deliverables, not for the Ratified GS1 standard or guideline. The Ratified GS1 standard or guideline is not subject to further revision at this stage.

During this review, of particular importance are comments received from the GS1 Architecture Group (AG) and any Standards Maintenance Groups to which this Work Group is affiliated. The Work Group shall ensure that comments from those groups are solicited, received, and given special attention during the review process. In particular, any comment received from the AG relating to an inconsistency with the established GS1 architecture and architecture principles must be resolved by the Work Group.

**Criteria for completing this Step:**
- All comments collected during the community review have been addressed by the Work Group, either by making the suggested change to the collateral deliverable or agreeing that no change is required.
- The Work Group successfully completes a Group Voice Motion (section G.1) to commence a community vote.
The BCS is informed of any “no” votes and of all comments that accompany votes received during the Community Review.

A summary of the vote as described in section G.3 is posted in an area of the Community Room accessible to the GSMP community.

A clean copy of each revised collateral deliverable is posted to the Work Group’s Community Room, to the Community Room accessible to the GSMP community, and to the public as appropriate.

**Outputs:** Final collateral deliverable

### F.4.5 Step 4.5: Ongoing Revision to Collateral Materials as Needed

**Responsible Group:** Work Group

**Inputs:** Approved Collateral Materials

**Process:** As user companies and solution providers begin to adopt GS1 standards and guidelines, it is sometimes discovered that collateral materials require enhancement. For example, it may be necessary to add additional questions to an FAQ document in order to address questions that have arisen frequently following publication.

The Work Group continues to exist for as long as needed in order to maintain the collateral materials. Only collateral materials may be maintained in this manner; any change to the GS1 standard or guideline itself, no matter how small, requires a new Work Request that begins the GSMP Process at Step 1.

### F.4.6 Step 4.6: Development of Conformance Certification Test Plan (conditional)

**Condition:** Only performed if the Work Request Plan specifies that a conformance certification test is to be developed.

**Responsible Group:** Conformance Certification Test Organisation as designated by the GS1 Global Office, with support from the Work Group

**Inputs:** Ratified GS1 standard, Ratified Conformance Test Requirements

**Process:** The Conformance Certification Test Organisation develops a conformance certification test plan that meets the requirements specified in the Conformance Certification Test. The conformance certification test plan shall specify exactly what artefacts may be tested, and the detailed test plan for testing each kind of artefact. If the conformance test plan includes optional tests, it shall specify clearly what options are available and how they will be indicated in the conformance certification test report created for any given artefact that is tested. The conformance certification test plan is a separate document from the GS1 standard itself.

The Conformance Certification Test Organisation shall work with the Work Group to resolve questions regarding the interpretation of the GS1 standard and the Conformance Requirements document.

**Criteria for completing this Step:**

- The Conformance Certification Test Organisation has completed a conformance certification test document and presented it to the Work Group for approval.

**Outputs:** Draft conformance certification test plan

### F.4.7 Step 4.7: Work Group Approves Conformance Certification Test Plan (conditional)

**Condition:** Only performed if the Work Request Plan specifies that a conformance certification test is to be developed.

**Responsible Group:** Work Group

**Inputs:** Draft Conformance Certification Test Plan
Process: The Work Group conducts a Group Virtual Vote (section G.1) to approve the draft Conformance Certification Test Plan.

Criteria for completing this Step:
- The Work Group successfully completes a Group Virtual Vote (section G.1) to approve the draft Conformance Certification Test Plan.

Outputs: Final conformance certification test plan

Exceptions:
- If the vote does not pass, Steps 4.6 and 4.7 are repeated, during which the Work Group shall work with the Conformance Certification Test Organisation to resolve issues.

F.5 Finalisation of a draft document by a Work Group

Several steps of the GSMP 4-Step Process specify that a draft document (such as a draft Business Requirements Analysis Document, draft GS1 standard, etc.) is to be “finalised” by the Work Group. The word “finalised” refers to a specific sequence of steps to be carried out by the Work Group, defined below. The purpose of finalisation is for the Work Group to make final revisions to the draft document in preparation for proceeding to the next stage of the process. The finalisation process gives all members of the Work Group a final opportunity to propose changes to the document before it passes to review by some other body (community review, ratification, etc.).

The process for finalisation is as follows:
- Finalisation begins after a successful Group Voice Motion to begin finalisation. The Work Group shall agree on the period to be allowed for the submission of comments by Work Group Members: at least one week, but longer if warranted by the size or complexity of the document to be finalised.
- The Work Group Facilitator (or Work Group Document Editor, if one has been designated), prepares a “next-to-final draft” by accepting all prior changes to produce a fair Word or PDF copy with line numbers. However, where the document is being delivered in HTML, or other online format, a PDF copy with paragraph numbers should be generated from the HTML master to provide an archive version for the Community Room.
- The Work Group Facilitator posts the draft to the Work Group Community Room. The Work Group Facilitator sends an announcement to the Work Group via the Community Room email function including the draft, instructions for submitting comments (either a comment spreadsheet or the Community Room comment tracking function), and the date and time by which comments are to be submitted.
- Each Work Group member reviews the draft and records their organisation’s comments following the instructions provided.
- (Mission-Specific Work Group only) Simultaneous with the Work Group review, a Mission-Specific Work Group shall prepare a summary presentation of the deliverable, and invite members of “related” SMGs who have opted-in to the MSWG to attend an MSWG meeting to receive the presentation. This provides an opportunity for the related SMGs to provide input prior to the completion of finalisation, and also serves to advise the related SMGs that a community review is imminent.
- Following the close of the review period, the Work Group Facilitator consolidates all comments into a single spreadsheet (if comment spreadsheets are used).
- The Work Group reviews each comment, and decides how to address it. A comment may be addressed by accepting the proposed change, adopting a different change, or deciding that no change is warranted. In each case, the resolution of a comment shall be decided by consensus of the Work Group (see section 11), and recorded in the spreadsheet or Community Room comment area.
- After all comments are reviewed, the Work Group Facilitator (or Work Group Document Editor, if one has been designated) edits the draft according to the comment resolutions.
- The draft is now finalised, and ready for the Work Group to vote to advance to the next stage. The comment resolutions (spreadsheet or Community Room comment function) becomes part of
the permanent archive of the Work Group, and serves as a record that due process was followed.

F.6 **Community Review**

Several steps of the GSMP 4-Step Process specify that a draft document (such as a draft Business Requirements Analysis Document, draft GS1 standard, etc.) is to undergo community review and revision by the Work Group. Community Review refers to a specific sequence of steps to be carried out by the Work Group and the GSMP community, as defined below. The community review process gives all voting members of the GSMP community an opportunity to propose changes to the document before it is complete. While Work Group members may also submit comments during community review, it is preferable if Work Group members raise their concerns during the finalisation process that precedes community review.

**The process for community review is as follows:**

- Community review begins after the Work Group finalises a Community Review draft and completes a successful Group Virtual Vote or Group Voice Motion to begin community review. The Work Group shall agree on the period to be allowed for the submission of comments by the community: it is recommended to be at least 14 days. It can be shorter or longer as defined by the business needs of the group.

- The Work Group Facilitator (or Work Group Document Editor, if one has been designated), prepares a Community Review draft to produce a clean Word or PDF copy with line numbers. This document shall be prepared in line with the [GS1 Style Guide](#) and clearly marked as a Community Review draft. However, where a standard or guideline is being delivered in HTML, or other online format, a PDF copy with paragraph numbers should be generated from the HTML master to provide an archive version for the Community Room.

- The Work Group Facilitator posts this draft to the GSMP Community Room that is designated for community reviews. The Work Group Facilitator sends a community announcement using the established community announcement mechanism; this announcement shall indicate that a community review is beginning, and include the draft, instructions for submitting comments (either a comment spreadsheet or the Community Room comment tracking function), the comment submission form, and the date and time by which comments are to be submitted.

- Any member of the GSMP community may review the Community Review draft. If a community voting member wishes to submit comments on behalf of his or her organisation, he or she may do so following the instructions provided, prior to the close of the review period. If the submitting organisation has not opted-in to the Work Group, the organisation must sign a comment submission form or else their comments shall be rejected by the Work Group Facilitator and not shared with the Work Group. Comments from opted-in organisations do not require a comment submission form (see section [1](#)).

- Following the close of the review period, the Work Group Facilitator consolidates all comments into a single spreadsheet (if comment spreadsheets are used).

- The Work Group reviews each comment, and decides how to address it. A comment may be addressed by accepting the proposed change, adopting a different change, or deciding that no change is warranted. In each case, the resolution of a comment shall be decided by consensus of the Work Group (see section [1](#)), and recorded in the spreadsheet or Community Room area.

- After all comments are reviewed, the Work Group Facilitator (or Work Group Document Editor, if one has been designated) edits the draft according to the comment resolutions.

- The draft is now complete, and ready for a Community eBallot to advance to the next stage. The comment resolutions (spreadsheet or Community Room comment function) becomes part of the permanent archive of the Work Group, and serves as a record that due process was followed. The comment resolutions shall be posted to the GSMP Community Room that is designated for community reviews, so that all community voting members may review the comment resolutions prior to casting their votes.

- If the Community Review resulted in no changes to the draft document, the draft document can be submitted directly for Community eBallot.
F.6.1 Community Review Comments by a Standards Maintenance Group (SMG) or the GS1 Architecture Group (AG)

During community review, it is expected that among the reviewing parties will be the GS1 Architecture Group (AG), as well as any affiliated Standards Maintenance Groups. The AG and each affiliated SMG may choose to submit their community review comments in one of two ways:

- Individual AG and SMG voting members may submit comments as individuals representing their respective organisations, as would any individual responding during community review.

- The AG or an SMG may choose to submit a single set of comments on behalf of the entire AG or SMG. In this case, the AG or SMG shall ensure that each submitted comment reflects consensus of the entire AG or SMG, using the normal procedures for achieving group consensus. Comments submitted in this way shall be marked as originating from the AG or SMG as a whole rather than as originating from an individual. Note that the process of achieving consensus within the AG or SMG is likely to take time, and so if the AG or SMG chooses to adopt this procedure it must work to ensure it has adequate time to achieve consensus and still submit the comments within the review period established for the community review.

Regardless of how comments are received from the AG and affiliated SMGs, the Work Group receiving the comments is expected to give particular attention to comments from those sources. In particular, any comment received from the AG relating to an inconsistency with the established GS1 architecture and architecture principles must be resolved by the Work Group. Outputs that are believed to be inconsistent with the architecture by the AG should not progress until they are reviewed and resolved by the AG.
Appendix: Voting Procedures

The following sections define voting procedures to be used by GSMP groups. The GSMP 4-Step Process specifies specific voting procedures that a GSMP Work Group must use. For Work Group decisions arising in the ordinary course of Work Group business, as opposed to process gates, the Work Group is free to select the voting procedure that is best suited to the issue at hand.

G.1 Work Group Motion, Work Group Motion via email and Work Group Ballot

A Working Group Motion is used to confirm group consensus in situations where the participants in a meeting are considered sufficiently representative of the group. A Work Group Ballot is used when a documented definitive consensus of the group must be determined.

A Work Group Motion is conducted according to the following procedure:

■ The facilitator or a group co-chair clearly states the issue on the table, and identifies the acceptable responses (typically "yes" or "no"). In the case of a yes/no vote, the co-chair may elect to conduct the vote by asking if there are any objections rather than by asking each attendee to explicitly answer yes or no.

A Work Group Ballot is conducted according to the following procedure:

■ The facilitator or a group co-chair clearly states the issue in a Community Room Group Ballot, and identifies the acceptable responses (typically "yes" or "no"). The Work Group may mandate the Work Group Ballot reach minimum voting requirements.

A Work Group email according to the following procedure:

■ The facilitator sends an email to Work Group community room email list in which the motion is clearly stated. The email asks Work Group members to respond within seven days if there are any objections to the motion carrying.

■ The final tally shall be recorded in the meeting minutes. A group member may request that “no” votes and abstentions be recorded in the minutes with the name of the organisations so voting.

The motion carries if the following conditions are met; it fails to carry otherwise:

■ The motion carried

■ The established membership minimum votes were met; and

■ At least 2/3 of the votes cast agree on an outcome. (For yes/no votes, this implies a yes or no decision is always reached. For multiple-choice votes, it may be that no choice garners 2/3 of the votes, in which case the group must continue discussion to refine the options.)

If the motion fails to carry, the group should continue discussions to attempt to reach consensus. As a last resort, the group may choose to put the issue to a Work Group Ballot. It is preferable, however, for the group to work towards a broader consensus rather than push through a matter that only has the bare minimum support required for passage.

G.2 Working Group Ballot

A Working Group Ballot is used to confirm group consensus for decisions where a definitive consensus of the group must be determined. This includes decisions that result in advancing to the next step of a GSMP 4-Step Process. In particular, the GSMP 4-Step Process requires that Working Group Ballots be used to submit a draft work product for community review or for community eBallot. (Exception: Certain SMGs that process many small Work Requests may agree to use a Working Group Motion instead of a Working Group Ballot for that purpose.) A Working Group Ballot may also be used in situations where there are insufficient votes to carry a Working Group Motion, or when it is felt that attendance in a given meeting is insufficient to ensure that a Working Group Motion adequately represents group consensus.
Working Group Ballots are conducted according to the following procedure:

- The Facilitator or a group co-chair clearly states the issue on the table, identifies the acceptable responses (typically “yes” or “no”), and confirms (through voice consensus) that the group is ready to begin a Working Group Ballot.

- This shall be at least seven days from the time the vote begins.

Any organisation that is a voting member of the group may cast one vote. If two or more representatives from the same organisation are members of the group, they must provide a single vote for that organisation. Only MOs, MO Members, and GDSN Certified Data Pools may vote; GO staff, Non-voting Members, and GO/MO Affiliates may not.

While the ballot is in progress, the details of what organisations have cast votes and what those votes are shall not be revealed to any person except the group facilitator. If any vote is cast with an accompanying comment, however, the text of the comment shall be made available to all members of the group, with the identity of the organisation withheld (unless the organisation chooses to identify themselves within the text of their comment).

After the closing date and time is reached, a summary is made available to all group members that shows which organisations voted, what each organisation’s vote was, any accompanying comments, and a numeric tally of all the votes. This summary shall become a permanent part of the group’s archive alongside the group minutes.

The motions and ballots carry if the following conditions are met; it fails to carry otherwise:

- At least 2/3 of the votes cast agree on an outcome. (For yes/no votes, this implies a yes or no decision is always reached. For multiple-choice votes, it may be that no choice garners 2/3 of the votes, in which case the group must continue discussion to refine the options.)

If the motion or ballot fails to carry, the group should continue discussions to attempt to reach consensus.

G.3 Community eBallot

A Community eBallot is used to confirm community consensus following community review, prototype testing (if applicable), and revision of a draft BRAD, standard, or other GSMP deliverable. It marks the transition from one major step of the GSMP 4-Step Process to the next.

A Community eBallot is conducted according to the following procedure:

- A group co-chair clearly identifies the document draft to be submitted to Community eBallot, and confirms that the group is ready to begin the Community eBallot. If the Community Review results in no changes to the draft document, the draft document can be submitted directly for Community eBallot.

  The group establishes a date and time for the close of the Community eBallot. This shall be between 7 and 14 days as determined by the group, from the time the vote is announced to the community in Step 4. The group may choose to extend the period; for example, if the 14 days would span a period of expected absence by many community voting members, if the matter at hand is expected to require an extended period for full consideration, or any other reason.

- As soon as practical, the group facilitator sets up a Community eBallot using the Community Room balloting facility in the area designated for Community eBallots. The vote shall clearly identify the draft to be approved, and carefully explain the consequence of a “yes” or “no” vote. The document under consideration and a summary of how each issue submitted during community review was addressed by the Work Group, along with any supporting materials, shall be attached to the vote.

- The group facilitator announces the vote to the community using the regular community communications mechanism.

- Any organisation eligible for Community eBallot may cast one vote. If two or more representatives from the same organisation are members of the community, they must provide a single vote for that organisation. Only MOs, MO Members, and GDSN Certified Data Pools may vote; GO staff, Non-Voting Members, and GO/MO Affiliates may not.
While the vote is in progress, the details of what organisations have cast votes and what those votes are shall not be revealed to any person except the group facilitator. If any vote is cast with an accompanying comment, however, the text of the comment shall be made available to all members of the community, with the identity of the organisation withheld (unless the organisation chooses to identify itself within the text of its comment).

After the closing date and time is reached, a summary is made available to all members of the community that shows which organisations voted, what each organisation’s vote was, any accompanying comments, and a numeric tally of all the votes. This summary shall become a permanent part of the group’s archive alongside the group minutes.

The eBallot carries if the following conditions are met; it fails to carry otherwise:
- The established voting minimums are met from among the organisations that cast votes; and
- At least 2/3 of the votes cast are "yes" votes.

If an eBallot to recommend a GS1 standard for ratification does not reach the required voting minimums:

If an eBallot to recommend a GS1 standard for ratification does not reach the required voting minimums and a 2/3’s affirmative vote, a second attempt can be made. The second attempt must reach the group’s required voting minimums and a 2/3’s affirmative vote. If the second attempt fails, the vote fails.
Appendix: GSMP Deliverables

This section defines all deliverables that are created by the community through the GSMP. Note that not every work effort within GSMP creates all deliverables defined here. See the process flow in section F for details on which deliverables are created in what situations.

Ratified Deliverables

This section defines the deliverables that are ratified by the GS1 Management Board via the BCS. The primary purpose of the GSMP is to create these deliverables. The deliverables in the other sections exist only to support the development and adoption of the ratified deliverables.

GS1 standard and GS1 guideline

A GS1 standard is a specification that ensures interoperability and consistency throughout supply chains. In GS1 terminology, “standards” are normative, meaning that they are prescriptive. Conformance with the standards is required to claim GS1 compliance.

It is important to note the distinction between what is actually a standard vs. a guideline. Efforts sometimes begin as guidelines and evolve during the creation process into standards.

- It is a standard if (a) it’s a document that defines a certain way of doing things, such that two or more companies must do what the document says in order to achieve some common goal; or (b) it’s a document that defines a certain way of doing things, such that it will be difficult to change later.

- If neither of the above are true, and furthermore the document explains a way of doing something that is consistent with existing standards, then it is a guideline.

GS1 standards and guidelines are further explained by the following text, quoted from the GS1 System Architecture:

There are four types of artefacts that make up the GS1 system:

- GS1 standards: A GS1 standard is a specification that defines the behaviour of one or more system components so that certain goals are achieved. Typically these goals are interoperability of system components, whether different components deployed by the same supply chain party or components deployed by different supply chain parties. Standards contain normative statements, which specify what a system component must be or do in order to be in conformance to the standard; a standard is written in such a way that conformance to the normative statements is a sufficient condition for a system component to achieve the interoperability or other goals for which the standard is designed.

- GS1 guidelines: A GS1 guideline is a document that provides information considered useful in implementing one or more GS1 standards. A GS1 guideline never provides additional normative content beyond the standards to which it refers; instead, the purpose of a GS1 guideline is to provide additional explanation and suggestions for successful implementation. While conformance to a GS1 standard may be necessary to achieve an interoperability goal, use of a GS1 guideline is never required. GS1 standards typically focus on “what” a system component is or must do, whereas GS1 guidelines may provide additional suggestions for “how” such a component may be implemented. GS1 guidelines may be general in nature (applying to all implementations) or may be specific to a limited number of use cases or industries.

GS1 standards may be further distinguished according to the type of normative content they contain, as follows:

- Technical Standards A technical standard is one that defines a particular set of behaviours for a system component. Technical standards focus on “what” a system component must be or do to be in conformance to the standard. Technical standards are typically written to be as broadly applicable across business sectors and geographic regions as possible. While a technical standard may illustrate specific business problems to which it applies, a technical standard does not specify which industries or businesses must adopt the standard. An end user may choose for itself whether to deploy a component that conforms to a particular technical standard.

Technical standards may be further distinguished as follows:
- **Data Standard** A data standard is one that defines the syntax and semantics of data. Conformance to a data standard is assessed by examining a particular instance or instances of data to see whether it follows the normative statements laid out in the data standard.

- **Interface Standard** An interface standard is one that defines an interaction between system components, often by defining the syntax and semantics of messages that are exchanged between system components. Conformance to an interface standard is assessed by examining a particular system component (often a hardware or software product) to see whether it correctly generates messages and/or responds to received messages according to the normative statements in the interface standard. Most interface standards identify two roles as the interacting “sides” of the interface and a given system component is assessed for conformance to one or the other of these roles (or sometimes both).

The distinction between data and interface standard is not always sharp, and many technical standards contain both data specifications and interface specifications. Indeed, because data is always exchanged across an interface, an interface standard nearly always contains a data standard or refers normatively to other data standards.

- **Application Standards** An application standard is one that specifies a particular set of technical standards to which end user systems must conform in a particular business application. Application standards provide a convenient way for different end users to express their agreement to follow certain standards, in order to achieve mutually agreed interoperability goals in a given application context.

Application Standards are examples of **profiles**, a profile being a standard whose normative content consists exclusively of references to other standards along with normative constraints upon their use. Application Standards take the form of a profile together with statements about the application area to which it applies. A profile may also be a technical standard that defines a subset of one or more other standards for a narrower purpose.

In general, GS1 standards seek to specify a single way of achieving a given business goal. In some cases, GS1 standards provide alternatives; for example, a standard that defines two different concrete syntaxes for the same abstract data construct, each optimised for a different implementation context. Having choices detracts from interoperability, and so GS1 standards offer choices of this kind only when absolutely necessary. In some cases, GS1 Technical Standards offer choices and GS1 Application Standards define single choices to be used in different application contexts.

### H.1.2 GS1 solutions

GS1 solutions describes a way to navigate a series of choices of GS1 standards, Services, or Guidelines that integrate together to meet a business or technical need. (“Business need“ is to be interpreted in the broadest sense to include processes in, for example, healthcare, defines, education etc.). Solutions are non-normative but rely upon normative standards. Solutions do not impose any additional normative statements beyond what is already implied in the standards upon which they are based.

- **Examples**: GS1 solution(s) for Traceability, GS1 solution (s) for Patient Safety, or Solution Providers (suppliers of hardware, software, systems integration, consultancy, etc.) are expected and encouraged to design their product offerings on the basis of published GS1 solutions.

### H.1.3 GS1 service

A GS1 service is a facility provided by GS1 Global Office (GO) that provides benefit or assistance to parties other than GS1 Member Organisations (MOs).

GS1 service offerings may or may not be based on GS1 standards. Examples:

- The Global Registry is a GS1 computer service offering based on a GS1 standard.
- GEPIR is a GS1 computer service offering that is not based on a GS1 standard.

Some GS1 standards define the interface for services; not all such services, however, are "GS1 services.” To illustrate:

- A service may be offered by the GS1 GO. Such a service is a "GS1 service.”
Example: The ONS standard defines an interface for looking up a service reference for an EPC; a portion of this standard is implemented by the ONS Root, which is a GS1 service.

- A service may be offered by a GS1 MO. Such services are not "GS1 services,” though they are services in the general sense of the word. GS1 Global Services are provided by GS1 GO and GS1 Local Services are provided by MOs.

Example: The EPCIS standard defines an interface by which one supply chain party may make physical visibility event data available to other supply chain parties. Some GS1 MOs have provided EPCIS for the local market.

- Services offered by parties other than GS1. Such services are not "GS1 services,” though they are "services” in the general sense of the word.

Example: The EPCIS standard defines an interface by which one supply chain party may make physical visibility event data available to other supply chain parties. The party offering this service is a supply chain party (end user), not GS1 GO, and so this is not a GS1 service, despite being governed by a GS1 standard.

H.1.4 GS1 Methodology

A GS1 Methodology is a “meta” standard that provides rules and restrictions for authoring/designing other content standards. These types of standards are used to enforce the principles of consistency, quality, reusability, precision and non-ambiguity into the standards.

Examples:
- GS1 XML Naming and Design Rules
- IETF RFC 2119 "Key words for use in RFCs to Indicate Requirement Levels"
- ISO/IEC Directives "Rules for the structure and drafting of International Standards"
- UN/CEFACT Core Components Technical Specification (CCTS)
- “Contributors Credit Policy for EPCglobal Standards”
- "Use of URIs in EPCglobal Specifications“
- "Naming Conventions for the EPCglobal Permanent Document Repository”

H.1.5 GS1 Policies vs. Standards

GS1 Policies are the rules for standards development, ensuring alignment of the standards to the broader mission of GS1. Policies are maintained in this manual and the GS1 Operations Manual. GS1 standards and guidelines, in contrast, are contained in the ratified GS1 standard and guideline documents.

Process:
- The GSMP is the global process established by GS1 for the development and maintenance of global standards and guidelines, which are part of the GS1 system.
- The GS1 CEO is responsible to propose changes to policies relative to GS1. These changes are proposed to the governance bodies, the General Assembly (GA) and the GS1 Management Board (MB) via the GS1 Board Committee for Standards (BCS).

H.1.5.1 Global vs. Context Specific (e.g. Regional) Standards

GS1 standards are built upon the business requirements of our users within the Global Standards Management Process (GSMP) to meet particular business needs with a truly global solution. These standards are based upon:
- A single set of methodologies
- Components in the GS1 Global Data Dictionary (GDD)
- Rules in the GS1 General Specifications
Within the GSMP, the creation of globally applicable standards takes precedence over a solution for a specific context (region, industry, business process, etc.). While the GS1 standards support regional business practices and help to enable them, the intent is to provide a solution that is applicable in multiple regions and industries around the world. Regional syntaxes are not supported by GSMP.

The determination of a business requirement's context including whether or not its applicability is regional or global is made during the requirements analysis. In many cases, national regulations and environmental considerations make requirements and the optional solutions they warrant specific to a context, but only if a more broadly applicable solution cannot be created. The local applicability of the requirement is stated in the BRAD.

Business requirements result in the creation of a GS1 standard or a process standard that is based upon global and sometimes context specific components. To improve implementation, the GSMP Work Group may assign a context to a solution using the approved context values and rules of application.

H.2 Intermediate Deliverables

This section defines deliverables that are created at intermediate steps within the GSMP 4-Step Process, and exist to support the creation of the ratified deliverables.

H.2.1 Work Request (WR)

The Work Request (WR) is used to describe and track a work effort within GSMP. A Work Request is a proposal for work to be done in GSMP that has not yet been initiated; a Work Request is accepted when it is assigned to a GSMP Work Group. All work carried out in GSMP is governed by a Work Request. See section E.1 for a complete description.

H.2.2 Business Case

The Business Case is a short document that describes the motivation for producing a GSMP Deliverable (a new GS1 standard or guideline, or modification to an existing GS1 standard or guideline). When a Work Request is approved in GSMP Step 1, the Business Case is created by GSMP Operations by extracting information from the corresponding Work Request(s), specifically the information in the Work Request that was used to assess the entrance criteria. As the Work Request moves through Steps 2, 3, and 4 of the process, the GS1 Facilitator and/or GSMP Operations updates the Business Case to reflect what is learned as the Work Group progresses through the process. When the deliverable is finally published, so is the revised Business Case, thus providing a permanent record for the motivation behind that deliverable.

H.2.3 Call-to-Action

A standard Call-to-Action is used to form a Work Group. The announcement is sent to the GSMP Community and specific target audiences and communicates who should be involved in the project, provides focus on the scope of work, recommends a solution, shows known participants, and provides access to meeting details.

H.2.4 Business Requirements Analysis Document (BRAD)

A Business Requirements Analysis Document (BRAD) is a document that defines the requirements that a GS1 standard or guideline must meet in order to address the business need defined in the Work Request. The BRAD is created by a GSMP Work Group during Step 2 of the GSMP 4-Step Process. The focus of a BRAD is to define requirements that a solution must meet, not to define the solution itself.

H.2.5 Map of Requirements to Standard or Guideline

A GSMP Work Group that creates a GS1 standard or guideline in Step 3 of the GSMP 4-Step Process is also required to create in Step 3 a document that shows how each requirement specified in the BRAD or other requirements document is met by the GS1 standard or guideline. The requirements
map may take the form of a table that enumerates each requirement specified in the BRAD or other requirements document, and indicates the section(s) of the GS1 standard or guideline that address the requirement, with explanation as needed. For GS1 XML messages the requirements map may take the BRAD requirements number and associate them with a solution in the schema following the current methodology for XML based GSMP solutions. This is done in a Delta document.

H.2.6 Step 3 Impact Assessment
A new GS1 standard or guideline, and especially the revision of an existing GS1 standard or guideline, may have an impact on user companies. For example, there may be backward-compatibility issues in migrating from an older version to a newer version of a standard, there may be issues concerned with the co-existence of two versions of the same standard, a new standard may have interactions with other already-deployed standards. It is important that these issues be understood before a new or revised GS1 standard or guideline is finalised, so that the new standard or guideline may address them to the extent possible. For example, if a revised GS1 standard has a potential back-compatibility problem, it may be possible to craft the revision in a way that mitigates or eliminates the problem.

For this reason, a GSMP Work Group that creates a GS1 standard or guideline in Step 3 of the GSMP 4-Step Process is also required to create in Step 3 a document that describes the impact of the new GS1 standard or guideline on user companies, with particular attention paid to issues of compatibility, transition, and interaction with other standards. At Step 3, the purpose of the document is to ensure that such issues are considered in the creation of the GS1 standard or guideline; at Step 4 this document becomes input to creating an Impact Statement that is part of the collateral deliverables.

H.2.7 Conformance Requirements Document
If a GS1 standard is subject to a conformance certification program, a Conformance Requirements document is created in Step 3 of the GSMP 4-Step Process by the GSMP Work Group that creates the GS1 standard. The Conformance Requirements Document specifies the requirements for the certification test; that is, it specifies what has to be tested in order to confirm that an implementation under test conforms to the GS1 standard. An important part of the Conformance Requirements Document is defining exactly what constitutes an "implementation under test" for this GS1 standard.

The Conformance Requirements Document is used as input to the process of creating a conformance certification test plan; the latter is created by GS1 or an organisation to which it delegates responsibility, with support and approval from the GSMP Work Group.

In addition to conformance requirements, interoperability requirements will be defined as part of a work plan where applicable, e.g. EPC HW, UHF and HF tags and printers with labels.

H.3 Collateral Deliverables
This section defines deliverables that support the deployment by community members of a ratified deliverable. Collateral Deliverables are made available to GS1 Member Organisations and to the GS1 community as a whole to accompany a ratified GS1 standard or guideline.

All Collateral Deliverables are created by a GSMP Work Group in Step 4 of the GSMP 4-Step Process, with assistance from GS1 staff as necessary. Only those collateral deliverables specified in the Work Plan are created for a given Work Request.

H.3.1 Impact Statement
The Impact Statement describes issues that user companies may face in deploying the new GS1 standard or guideline, particularly as it relates to compatibility, transition, and interaction with other GS1 standards and guidelines. The Impact Statement may also provide some qualitative information as to the size of the effort that is likely required to deploy.

The Impact Assessment completed in GSMP Step 3 is the primary source material used in creating the Impact Statement.
H.3.2 Value Proposition

The Value Proposition describes why a user company or solution provider should implement the standard, in business terms that they can take to their budget holders for approval. For example, the Value Proposition might indicate the expected cost to implement and compare it to the expected benefit to the user companies.

The Business Case first created in GSMP Step 1 and revised through subsequent GSMP steps is the primary source material used in developing the expected benefits side of the Value Proposition.

H.3.3 Implementation/Migration Plans

If the ratified deliverable from a work effort is an update or new version of an existing GS1 standard or guideline, migration planning guidance will be needed. How are existing users supposed to move from existing standards to the new and at what pace? Is there a need for coordinated community action? Do two (or more versions) co-exist and what are the sunrise and sunset dates?

If the ratified deliverable from a work effort is an entirely new GS1 standard or guideline, implementation guidance will be needed. How are users expected to carry out their initial adoption of the standard and at what pace? Is there a need for coordinated community action? Is there a defined sunrise date? Is there any relationship to existing standards, and if so, what is the impact on implementations of the existing standard due to adoption of the new standard?

If the ratified deliverable is a new or revised GS1 service, or if the ratified deliverable is a GS1 standard or guideline that interacts with a GS1 service, the Implementation/Migration Plans also describe how user companies’ activity will be coordinated with the activity of GS1 in deploying or upgrading the relevant GS1 service(s).

H.3.4 Marketing Collateral

Marketing Collateral refers to materials (produced by GS1 GO Marketing) that are intended to introduce the GS1 standard or guideline to user companies, solution providers, and other community members who may have no prior knowledge of the GS1 standard or guideline or who may not understand to what extent it applies to them. The purpose of Marketing Collateral is to achieve as broad adoption as possible by encouraging community members to examine the new GS1 standard or guideline and determine how it may be of benefit to them.

Marketing Collateral may include:

- **Brief Abstract:** A brief description of the new GS1 standard or guideline that conveys what it is, what problem it solves, who might benefit, and why they should consider adopting. It should be only a few sentences in length. The Value Proposition is a primary input in creating the Brief Abstract.

- **Frequently Asked Questions:** A document that provides an explanation of the GS1 standard or guideline and how it is to be used in an accessible question-and-answer format. When possible, an FAQ should be based on actual questions that frequently arose during development of the GS1 standard or guideline.

  Note that GS1 and its Member Organisations may create additional FAQs on topics of general interest to the community, but that is not what is referred to here.

- **Overview Slides:** A document in slide (e.g., PowerPoint) format that provides an introduction to the GS1 standard or guideline for community members and others who have no prior knowledge. The Overview Slides may draw upon all of the other collateral deliverables for source material, especially the Value Proposition, the Impact Statement, and the introductory material of the GS1 standard or guideline itself.

- **Areas of Applicability:** An enumeration of specific business needs that may be addressed by the GS1 standard or guideline. The areas of applicability identified in marketing collateral are not limited to the ones identified in the Business Case – there may be many areas to which a standard applies beyond the ones which happened to instigate the development of the standard or guideline.

- **GS1 Strategy:** Documentation of how the new GS1 standard or guideline advances one or more goals of the overall GS1 Strategy.
H.3.5 Outreach Plan

The Outreach Plan defines the specific activities that will be undertaken to communicate awareness of the new GS1 standard or guideline to the community, following ratification. The Outreach Plan may include the following ingredients:

- Webinars
- Press releases
- Marketing Collateral
- Newsletters
- Bulletins
- Announcements sent to email distribution lists
I  Appendix: Piloting of GS1 standards and guidelines

The GSMP provides for several activities designed to confirm that GS1 standards and guidelines, and implementations thereof, are of sufficiently high quality and meet business and technical goals. In summary, these activities include:

- **Prototype Testing**: An activity performed in GSMP Steps 3.8 (sections F.3.8), whose goal is to identify and fix errors in the draft standard or guideline that would prevent interoperable implementations from being created using the standard or guideline document. The goal of prototype testing is to ensure the quality of the standard or guideline document itself.

- **Conformance Testing**: A test administered by a GS1-designated testing agency to confirm that a given implementation conforms to the standard or guideline. Conformance testing is performed on individual implementations after a GS1 standard or guideline is ratified. The content of the conformance test is developed during GSMP Steps 3.5, 3.6, 3.7, 4.6, and 4.7 (sections F.3.5, F.3.6, F.3.7, F.4.6, and F.4.7).

- **Industry Pilots**: A limited implementation of a GS1 standard or guideline carried out by user companies in the target business environment to demonstrate that the standard or guideline succeeds in meeting business requirements or addressing a business need, and to identify promising areas for future development. Industry pilots are discussed below.

Prototype Testing and Conformance Testing have very specific goals related to the standards development process itself, and are defined in the sections of this manual cited above.

The goal of Industry Pilots is much more varied, and depends on the interests of user companies and MOs. Industry Pilots are for the most part not conducted as part of GSMP, but rather as independent activities by Industry Engagement or MOs. An Industry Pilot can be carried out at one of two times relative to the GSMP 4-Step Process:

- An industry pilot may be carried out prior to the ratification of a GS1 standard or guideline, based on an early draft of the standard or guideline. In this case, the goal is to confirm that draft is headed in the right direction with regard to meeting business needs. The results of a pilot conducted at this stage are considered by the Work Group, and typically lead to revision of the draft in progress. End users participating in a pilot at this stage should understand that what is being piloted is a draft standard or guideline that is subject to further revision, and so the pilot implementation may not be in conformance to the standard or guideline when the latter is finally ratified.

- An industry pilot may be carried out subsequent to the ratification of a GS1 standard or guideline. In this case, the goal is to confirm that the GS1 standard or guideline fully meets expectations regarding the addressing of business needs, to gain experience and demonstrate how the standard or guideline is actually used in a production setting, and to identify areas where enhancements to the GS1 standard or guideline may be needed in the future. Any enhancements indicated by the results of the pilot must be submitted via a Work Request.

I.1 Opting-In to a Work Group

An organisation that has joined GSMP and signed the IP Policy may opt in to a specific Work Group (Standards Maintenance Group or Mission-Specific Work Group) in one of two ways:

- **Explicit Opt-in**: An organisation may opt in to a specific Work Group by signing an Explicit Opt-In agreement for that working group. Doing so does not affect the organisation’s status with respect to any other Work Group.

- **Automatic Opt-in**: An organisation may sign an Automatic Opt-in Agreement. Upon doing so, the organisation’s representatives may join all current and future GSMP groups (unless the organisation has opted out of a specific GSMP group). An organisation that has signed the Automatic Opt-in Agreement may opt out of an individual Work Group at any time. For a newly created group, the automatic Opt-In takes effect when the Work Group has its first meeting; therefore, an organisation that has signed the automatic Opt-In but does not wish to be opted-in to a newly announced Work Group may opt-out between the call-to-action and the first Work Group meeting, and thereby avoid any IP obligations for that Work Group.

An organisation’s representative that has joined a GSMP Work Group is given access to that Group’s Community Room, which in turn gives access to all work-in-progress of that Group. An organisation
that has not opted in to a Work Group does not have access to the Work Group’s Community Room, nor may it attend Work Group meetings. The organisation may still participate in community review and eBallot voting (if voting member) of deliverables produced by the Work Group.

I.2 Opting-out of a Work Group

An organisation that has opted-in to a Work Group, whether by Explicit Opt-In or Automatic Opt-In, may opt out at any time. There are two ways to opt-out:

- **Explicit Opt-Out**: An organisation may opt out of a specific Work Group to which it had previously opted in, whether by Explicit Opt-In or Automatic Opt-In.

- **Cancellation of Automatic Opt-in**: An organisation that previously signed the Automatic Opt-in Agreement may cancel its Automatic Opt-In. The organisation is immediately opted out from all Work Groups except those explicitly designated by the organisation as those for which it wishes to remain opted in, by signing individual Opt-Ins for those groups. The organisation will not be automatically opted in to any new Work Groups created subsequently.

After an organisation has opted out of a Work Group, it no longer has access to the Community Room, and it is also removed from the Work Group roster if it had previously joined the Work Group. The organisation may still participate in community review and eBallot voting (if voting member) of Work Group deliverables in the same manner as other organisations that are not opted in.
Appendix: Policy for Acknowledging Contributors

As stated in section **H.1.1**, the standard document templates include a section to acknowledge the individuals who contributed to the creation of a GS1 standard, GS1 Guideline, or other document. In most cases, this section should be included, though the Work Group has the discretion to omit it as in the case of a long-standing or historic document for which the list of contributors would be impractically long.

When a list of contributors is included, the following procedure should be used to determine the contents of the list. This procedure is designed to deal fairly with all participants, and err on the side of inclusiveness.

**The contributor list shall include the following names, in the order specified:**

- A list of the work group co-chairs giving names and company affiliations, in alphabetical order by last name. Each shall be identified “Work Group Co-Chair.” This list shall include any individual who was a Work Group co-chair at any time during the life of the Work Request governing the creation of the document.
- A list of all other participants, giving names and company affiliations, in alphabetical order by last name. The composition of this list is to be determined in the manner specified below.

If a GSMP member had more than one company affiliation through the term of his/her participation in the Work Group during the life of the Work Request, all affiliations shall be listed.

**The list of individual participants shall include:**

- Any individual whose name is listed as a participant in the approved minutes for any Work Group meeting (face-to-face or conference call).
- Any individual who has at least one message in the Community Room email archive for the Work Group. The co-chairs, at their discretion, may disregard a message if:
  - It is obviously a spam or other email not originating from a Work Group member.
  - The message’s sole content concerns meeting logistics (e.g., “I will not attend the next face-to-face meeting”) or mailing list administration (e.g., “please remove me from this list”).
- The co-chairs, at their discretion, may give additional credit to one or more work group members if they played a particular role. This should be used sparingly, and only to recognise a role that was assigned to that person through consensus of the work group. For example, if a work group member acted as overall editor for the specification, the word “Editor” may be appended to the person’s name and company. (The term “author”, however, should always be avoided.) Persons recognised in this way should appear immediately following co-chairs in the contributors list.
- Any individual, other than a co-chair, may petition the co-chairs to have his name be removed from the list. This request will not be unreasonably denied.
- Any inclusion or omission that is at the co-chair’s discretion, as identified above, may be appealed by any work group member following the appeal process below.

The first draft of the contributor contribution section shall be included in the draft document prepared for the final community review in GSMP Step 4. During that period, any Work Group participant may petition the co-chairs to:

- Correct the spelling of the participant’s name or company.
- Remove the participant’s name entirely.
- Challenge the co-chairs’ decision to omit the participant per the guidelines above.
- Challenge the co-chairs’ designation of a special role per the guidelines above.

If a work group participant is not satisfied with the decision of the co-chairs following a petition for a change, he/she may appeal following the appeal process described in section 12.

The contributor list shall be included in the final draft submitted for ratification in GSMP Steps 4.5 and 4.6.
Appendix: GS1 Anti-trust Caution

Many of the members of GS1 compete with each other. The competition is both horizontal and vertical. This means that every activity of GS1 must be measured against the prevailing anti-trust laws, which proscribe combinations and conspiracies in restraint of trade, monopolies and attempts to monopolise, and unfair or deceptive acts or practices. These are very broad. Violations of the anti-trust laws can result in injunctions, treble damage judgments, heavy fines, and even imprisonment.

Strict compliance with the anti-trust laws is and always has been the policy of GS1. GS1 exercises extreme care to avoid not only violation, but anything that might raise even a suspicion of possible violation.

An action, seemingly innocent when taken by itself, may be viewed by anti-trust enforcers as part of a pattern of activity, which constitutes an anti-trust violation. Therefore, participants on GS1 committees, task forces, work groups, task groups, or other similar bodies, must always remember the purpose of the committee, task force, or work group is to enhance the ability of all industry members to compete more efficiently and effectively to provide better value to the consumer or user company. However, because GS1 activity almost always involves the cooperation of competitors, great care must be taken to assure compliance with the anti-trust laws.

This means:

- Participation must be voluntary, and failure to participate shall not be used to penalise any company.
- There shall be no discussion of prices, allocation of customers or products, boycotts, refusals to deal, or market share.
- If any participant believes the group is drifting toward impermissible discussion, the topic shall be tabled until the opinion of counsel can be obtained.
- Meetings shall be governed by an agenda prepared in advance, and recorded by minutes prepared promptly after the meeting. Agendas, where appropriate, and minutes are to be reviewed by counsel before they are circulated.
- Tests or data collection shall be governed by protocols developed in consultation with and monitored by counsel.
- The recommendations coming out of a GS1 committee, task force, work group or task group are just that. Individual companies remain free to make independent, competitive decisions.
- Any standards developed must be voluntary standards.
Appendix: GSMP Code of Conduct and Conflict Management Rules

The GSMP is founded upon a set of principles which support the development of valid, user driven voluntary standards developed in an open, transparent and collaborative environment. That collaboration consists of a rich diversity of people and businesses working together in open discussions. To this end, we have agreed on the following Code of Conduct rules which clearly define expected behaviours and behaviours that will institute Conflict Management Rules.

The GS1 Anti-trust Caution shall be in effect during each teleconference and physical meeting.

L.1 Participation Requirements

It is GS1’s role to protect its community of users and their efforts and investments to the best of its ability. Group or meeting defined participation requirements will be enforced. All participants must comply with the call or meeting participation requirements, sign the Intellectual Property Policy (if applicable, sign Invited Expert form (if applicable) and sign the relevant Opt-In Agreements. If a call or meeting attendee is not in compliance, they will be asked to leave the call or meeting. If they refuse to leave a call or meeting, the session will be terminated and rescheduled.

L.2 GSMP Participation Rules

- **Be Considerate**: The decisions made when creating standards will affect many user companies, all points of view are needed to make the right decisions. Please allow all participants to provide their points of view. Once a participant has explained their point of view, however, they should refrain from repeating it numerous times.
- **Be Respectful**: Members of GSMP are to treat one another with respect. Disagreement is no excuse for poor behaviour and poor manners. We cannot allow personal attacks or behaviours that make people feel uncomfortable or threatened.
- **If disagreeing, constructively disagree**: It is important that we resolve disagreements and differing views constructively and respectfully.
- **Be Collaborative**: Collaboration reduces redundancy and improves the quality of our work; we should always be open to collaboration. Our work should be done transparently and should involve as many interested parties from as many business and regional perspectives as early in the process as possible.
- **Be Representative**: a speaker should not make remarks which further a personal agenda and are not representative of that speaker’s constituency unless it is clearly stated that the comments are personal. A speaker should not give the impression that they speak for a company or region if they have not spent adequate time clearly explaining the business case to the user company/s they represent and documenting their response. Speaker’s votes should accurately reflect their constituent’s responses. This aligns GS1 with their mission to create user driven standards.

The following subjects may cause offense and are not acceptable, however intended:

- Disruptive behaviour (e.g., shouting, cursing, derogatory comments, or intoxication)
- Filibuster (one person talking too loudly or too long to overcome other opinion)
- Remarks about people (race, religion, ethnicity, gender, age, national identity, national language, nation of origin, sexuality)
- Disparaging remarks about companies, types of companies or industries
- The promotion or attempt to sell a particular company, proprietary product or product type, implicitly or explicitly
- Remarks about another company’s business practices when they are not represented at the meeting

If a discussion leads to any of the preceding behaviours, conflict management rules will be applied.
L.3 Conflict Management Rules

Before further discussion begins, the Meeting facilitator:
- Clarifies the objective for the discussion
- Places a time limit on the discussion
- Asks all who wish to speak to give their names
- Divides the time equally or seeks advice from the Chair on whether discussion should be deferred or extended based on interest and other agenda topics

Once discussion begins, the Meeting facilitator:
- Monitors time for each speaker and tells them when their time is up
- If the speaker does not stop within a reasonable period per the discretion of the Meeting facilitator, the meeting facilitator gives them a verbal warning
- If after a warning, the speaker does not immediately stop, the Meeting facilitator will suspend the call or physical meeting for one-minute. During this minute, the session is temporarily adjourned.
- After one minute, the Meeting facilitator will reconvene the session, but if the speaker continues, the session will be stopped, adjourned. The speaker’s organisation will be contacted by GSMP Management to ensure future compliance with GSMP Code of Conduct.

Conflict Management Rules are applied:
- By the Meeting facilitator after ensuring all participants are familiar with the rules
- Per the Meeting facilitator’s discretion or upon request by any member
- As a “formal” GSMP intervention process designed to reintroduce a formal structure into GSMP discussions
M  GSMP Process Evolution

This section specifies the procedure by which the GSMP process itself may be amended. All such amendments result in a revision to this GSMP Manual.

- A proposal to change the GSMP process is submitted as a Work Request.
- GSMP Operations and the Vice President of Standards Development review the Work Request to move forward.
- GSMP Operations develops a PCN with a review by the standing Standards Maintenance Groups (SMG’s)
- GSMP Operations submits the PCN for a 30 day Community Review and resolves comments
- Once approved by the BCS, the process change takes effect. GSMP Operations may choose to publish a new version of the GSMP Manual, or a "Process Change Notification" (PCN) that documents the specific changes to the text of the GSMP Manual. PCNs, if used, are consolidated into a revision of the GSMP Manual.