

Open Grid Forum Document Process and Requirements

Status

Group Final Draft (GFD).

Copyright Notice

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Replaces

This document replaces and obsoletes GFD-C.1 [CATLETT].

Abstract

This document defines the types of OGF documents and the development and review processes for each type. This document obsoletes GFD-C.1 [CATLETT] and replaces it as the description of OGF community practice surrounding the document series. The process reflects several years of experience with OGF document publication, and borrows heavily from the Internet Engineering Task Force Request for Comments document process.

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1. Introduction

The Open Grid Forum (OGF) is a group of individuals and organizations engaged in research, development, deployment, and support activities related to applied distributed computing. The scope of the applications that motivate these activities is quite broad, including for example high performance processing applications, distributed collaborative environments, virtualization and cloud computing, distributed data analysis, and remote instrument control. A defining characteristic is a perceived need for services beyond those provided by the commodity Internet.

The OGF intends to emulate, as appropriate, the Internet Engineering Task Force (IETF, www.ietf.org) and Internet Research Task Force (IRTF, www.irtf.org), and to support and complement the Internet Standards Process as outlined in [BRADNER2], [WEINRIB] and [POSTEL].

During the years since the OGF first published its process on document publication [CATLETT], many additional documents have completed formal publication and a large number of draft documents have been circulated. There have been a number of places where the previous documentation was found to incompletely describe the process and/or where the process described was found to need adjustment. This document updates and supersedes GFD-C.1 to correct those problem areas, and adds detail and guidance based on experience.

To this end, we describe here a document series with several types of documents, each with a specific purpose and scope, along with a process by which documents are developed and included in the document series. The OGF document series is intended as an authoritative and useful depository of written materials concerning standards, processes and experiences related to applied distributed computing. The process described here is intended to provide a rigorous, transparent and fair process by which documents can enter the OGF document series.

2. Notational Conventions

The key words 'MUST,' "MUST NOT," "REQUIRED," "SHALL," "SHALL NOT," "SHOULD," "SHOULD NOT," "RECOMMENDED," "MAY," and "OPTIONAL" are to be interpreted as described in RFC 2119 [BRADNER1].

3. Types of OGF Documents

An important OGF objective is to produce high-quality documents that contribute to the process of designing, building, operating, or using applied distributed computing and related technologies. These OGF documents fall into one of the following categories, modeled after the IETF's RFC series (other document categories may become necessary in the future):

Group working Drafts (GWD) are draft documents for distribution within the OGF. These are not considered "published," and may not be assumed to be stable or to represent consensus of the sponsoring group. When the working draft obtains

consensus from its sponsoring group, the individual authors or an OGF Working Group, Research Group or Community Group (WG, RG or CG; below referred to as an OGF group), then it is submitted to the OGF Editor to enter into the GFD review process described below.

Grid Forum Documents (GFD) are published OGF documents. Publication occurs following the process outlined in the rest of this document. There are four types of GFD:

Informational Documents inform the community of interesting and useful distributed computing-related technologies, architectures, frameworks, or concepts.

Experimental Documents inform the community of the results of distributed computing-related experiments, implementations, or other operational experiences.

Community Practice Documents inform and influence the community regarding approaches or processes that are considered or anticipated to be widely accepted by consensus and practice in the distributed computing community.

Recommendations Documents describe particular technical specifications or guidelines for the application of a technical specification. Recommendations documents are intended to guide interoperability and promote standard approaches.

A Grid Forum Document may be designated as *obsolete* if it is superseded by another document. The obsolete designation clearly indicates that the document no longer reflects current thinking, but still recognizes the document's contributions by allowing it to be referenced and consulted. A stronger designation of *historical* can be used, primarily for technical specifications or specific recommendations, to indicate that the specification should no longer be used. In order to change a GFD status to historical, an Informational Document is necessary to explain the reasoning.

3.1 Other Document Types

The OGF may, at its discretion, engage in the publication and distribution of documents of a type not described here. Examples might include a technical reports series, a refereed journal or conference proceedings, or book series. Such documents are out of scope for the process described here, although such documents might opt to utilize some or all of this OGF document process.

4. OGF Document Process

The process by which a document is designated as part of the GFD series consists of multiple levels of review along one of three separate process paths depending upon the type of document.

While a GFD may originate from within or outside of OGF, the review process will require some level of consensus within one or more OGF groups, or within the OGF more broadly. It is recommended, but not required, that all documents be discussed within one or more OGF groups prior to submission to the OGF Editor for publication.

Authors may not participate in the formal review of their own documents. If a member of the prescribed review process is also an author, editor or contributor, the relevant OGF Area Director (AD) or OGF Editor will designate an alternate.

The OGF Editor is an *ex officio* member of the GFSG, which is the union of all members of the OGF councils. He or she is responsible for guiding documents through the processes described here, and in the normal course of events will make decisions or seek consensus on specific documents. The OGF Editor is accessible to any member of the OGF community for advice on the document process, and may be called upon by authors/editors for assistance before or after a document is submitted to the document process. The OGF Editor role may be undertaken by an individual, or by a group.

The OGF Editor operates under the guidance and oversight of the GFSG, and seeks input from the GFSG or specific GFSG members (such as Area Directors) as needed. Other than Informational and experimental documents, as described below, the GFSG determines whether a submitted document is ready for publication. This determination may be based on a variety of factors, including technical content and accuracy, expected utility, interoperability, quality and clarity of writing, as well as conformance to document standards. Any GFSG member, including the OGF Editor, may decide to seek additional expert guidance or external review, in order to assist in the document process.

4.1 Group working Drafts

A Group working Draft (GWD) is used (a) to provide the broad community with a relatively stable document for general review and comment and (b) to indicate that intellectual property considerations have, to the best of the authors' knowledge, been addressed and are noted in the document. GWDs are works in progress and it is inappropriate to reference them in any other manner. They explicitly may not be presumed to reflect consensus of OGF, its working groups or even the full set of authors.

When an OGF group has reached consensus that a draft should be submitted to become part of the GFD document series, or the authors decide to submit directly, and intellectual property considerations have been addressed, the document is submitted to the OGF Editor to begin the review process. This review process is somewhat different for each type of document.

For documents not originating in OGF groups, an author (or group of authors) may submit directly to the OGF Editor. In these cases, depending on the type of document, the OGF Editor may assign it for review by an existing OGF group, or may require that an OGF group be given responsibility to develop consensus prior to submission to the OGF Editor.

4.1.1 File Naming Conventions for GWDs

To facilitate ease for organizing GWDs in document repositories, the filename of a GWD should follow the following format. Only lower case letters and numbers may be used for the portions within brackets – without spaces, upper case, punctuation or other characters.

draft-<doctype>-<submitter>-<nickname>-<version>.<format>

<doctype> corresponds to the GFD types:

- gwdi (candidate Informational GFD)
- gwde (candidate Experimental GFD)
- gwdc (candidate Community Practice GFD)
- gwdrp (candidate Recommendations track GFD)

<submitter> is either the name of the submitting OGF group or the family name of the submitting document author.

<nickname> is a short, mnemonic version of the document title or content.

<version> is an integer version number preceded by the letter v, such as v1 or v2

<format> is typically one of the following document formats:

- “txt” for ASCII text
- “pdf” for Portable Document Format
- “doc” or “docx” for MSWord
- “rtf” for Rich Text Format

Upon submission to the OGF Editor for consideration as a GFD, the GWD version is “frozen” during the subsequent review and comment period, except in response to requests for relatively minor editing or formatting, and as described below for response to Public Comments. Substantial changes to the GWD may warrant return to the appropriate OGF group to reconfirm the support of the group for the document. The GWD version should be incremented when modifications are made.

A GWD must meet all minimum document format and content requirements outlined below, including copyright and intellectual property notices, prior to submission to the GFD document review process.

4.2 Public Comments

The public has a number of opportunities to comment on a document and participate in its development, however, most members of the OGF community may choose to wait until a document reaches a level of stability before engaging. The OGF document process includes an explicit step for all documents to allow an opportunity for the community to read and comment on Group working Drafts. Documents entering Public Comment are announced to the public along with the period for which comments will be accepted. Both pro and con comments are requested. Document authors/editors, the OGF Editor, and relevant Area Directors should invite Public Comments.

In addition to providing a forum for suggestions, Public Comments offer an opportunity for affirmation. Simple statements from Area Directors, group members, and others in the OGF community that a document was read and was found useful can help to reinforce notions of the document’s readiness for publication. Input from experts who are not active in the OGF community can provide further reinforcement and, in fact, can be required for some documents.

After the Public Comment period is complete, authors/editors are typically asked by the OGF Editor to respond to comments made. This may include changes to the draft document. If the changes are substantive, the document may be restarted at an earlier phase of the document process, in order for the changes to undergo a complete review and further Public Comment period.

If no comments are received during a Public Comment period, the OGF Editor may elect to remove the document from the publication process, in order for the submitters to garner community interest. Alternatively, a further round of Public Comments may be sought. If a large number of comments, or other signs of community support, were received outside of the Public Comment process, the OGF Editor may instead recommend that a document move forward in spite of the lack of Public Comments during the formal process.

4.3 Informational or Experimental Documents

Informational or Experimental GFDs may originate from outside the OGF, or they may originate from individuals or a group within the OGF. If the document originates from an OGF group, the group chair(s) will submit the draft to the OGF Editor. The OGF Editor will determine, in consultation with the relevant Area Directors, whether the document is appropriate for the OGF document series and, if so, will make the draft available for Public Comment and will announce its availability.

If the draft originates from an individual or non-OGF group, the OGF Editor will either assign the document to an appropriate OGF group for review or will ask the GFSG to review the document. Based on the results of these reviews, the document either will be made available for a 30-day Public Comment period or will be returned to the author(s) within a reasonable period of time.

At the end of the 30-day Public Comment period, based on recommendations from the GFSG, issues raised during the comment period, and any actions taken by the authors to address issues, the OGF Editor will determine whether the document should be published as a GFD. Depending on the extent of the changes, the OGF Editor may return the document for further work by the author, require a restart of the 30-day comment period, or determine that the changes are minor enough to proceed with publication immediately.

If any point the GWD is not recommended for publication as a GFD, the document will be returned to the submitters with a statement describing the decision.

4.3.1 Summary of Document Processing for Informational and Experimental Documents

A document may be returned to an earlier phase of the document process, if deemed necessary.

1. *Pre-submission check*: Includes consensus within the OGF group, adherence to intellectual property guidelines, assignment of one or more corresponding authors, and group mailing list last call (at least one week). At this point, OGF group chairs and the appropriate ADs should be informed of the intention to submit.
2. *Submission*: Suitably formatted document, with attention to required elements and intellectual property issues, is submitted to the OGF Editor.
3. *Initial Editor review*: The OGF Editor reviews the document for completeness, general content, formatting, etc. The OGF Editor will typically confirm the pre-submission check with the appropriate ADs.
4. *Public Comment*: The document enters a 30-day Public Comment, with notification to the OGF community and general public (e.g., through the OGF's Web site and mailing lists).
5. *Review of comments*: Authors/editors are asked to respond to Public Comments, and may elect to prepare a new version of the document. If substantial revisions are made, a further Public Comment will be sought.
6. *Final Editor review*: The OGF Editor will confirm the document is ready for publication.
7. *GFSG last call*: The OGF Editor will inform the GFSG of impending publication, and allow 7 days for any concerns to be raised. The OGF Editor will determine, in cooperation with GFSG members, OGF group members, and the document authors/editors, how to address any concerns.
8. *Publication*: The OGF Editor will assign a GFD-I or GFD-E document number and inform the OGF community of the new document.

4.4 Community Practice Documents

A Community Practice document is intended to represent broad consensus across the OGF community. As such, a rigorous review is necessary to ensure that such consensus exists. Community Practice documents are not requirements specifications, but might go into detail on existing practices. Their role is to codify existing practices, adding specificity and formality to processes that might otherwise be informal, poorly documented, or communicated mainly by word of mouth. Documents intended to form a basis for the Requirements track should probably not be Community Practice documents – instead, they more likely belong as Informational or Experimental documents. Occasionally, Community Practice documents may be used to shape emerging or anticipated community practice (as was the case with GFD-C.1). In such cases, broad community consensus must still be sought, as described here.

The chair(s) from the OGF group will submit the GWD to the OGF Editor to begin the review and comment process for publication as a Community Practice GFD. The OGF Editor will submit the GWD to the GFSG for a 15-day internal review period. Typically, the relevant council within the GFSG (Standards Council, Community Council, Science Council, etc.) will undertake the review, inviting participation from any other interested GFSG member. The OGF Editor will identify a relevant Area Director to present the document to the GFSG, fairly identifying the benefits and shortcomings of the document.

If the draft originates from an individual or non-OGF group, the OGF Editor will either assign the draft to an appropriate OGF group for review or will ask one or more GFSG members to review the draft. Based on the results of these reviews, the draft will either be submitted to the GFSG for a 15-day internal review as above, or returned to the author(s) within a reasonable period of time.

At the end of the GFSG review period the OGF Editor will determine, based on consensus of the GFSG, whether the draft should proceed to a 60-day Public Comment period or be returned without further action.

If the consensus of the GFSG is that the GWD is a reasonable candidate for consideration as a GFD, the OGF Editor will make the GWD available for a 60-day Public Comment period and will announce its availability.

At the end of the 60-day Public Comment period, based on issues raised during the comment period and any actions taken by the authors to address issues raised, the relevant Area Director(s) will make a recommendation to the OGF Editor and GFSG regarding the publication of the document as a GFD. The recommendation will include an overview of issues raised and the results of the invited review(s) if they were requested. This review will focus on technical and intellectual quality of the document as well as the extent to which the work truly reflects community-wide practice and support.

Depending on the extent of the changes made as a result of the 60-day Public Comment period and GFSG review, the OGF Editor may return the document for further work, require a restart of the 60-day comment period, or determine that the changes are minor enough to proceed with designation as a GFD immediately.

If at any point the GWD is not recommended for publication as a GFD, the document is returned to the submitters with a statement describing the decision. The group and/or authors may elect to continue working on the draft to address issues raised in the 60-day comment period and/or GFSG review.

In some cases (e.g., because of evolution in thinking or technology), a GFD-C may be replaced or updated. In these cases, the original GFD will be given obsolete status, and this will be noted in the status field of the title page of the document. Updated documents will go through the same document process as is described here.

4.4.1 Summary of Document Processing for Community Practice Documents

A document may be returned to an earlier phase of the document process, if deemed necessary.

1. *Pre-submission check*: Includes consensus within the OGF group, adherence to intellectual property guidelines, assignment of one or more corresponding authors, and group mailing list last call. At this point, OGF group chairs and the appropriate ADs should be informed of the intention to submit
2. *Submission*: Suitably formatted document, with attention to required elements and intellectual property issues, is submitted to the OGF Editor.
3. *Initial Editor review*: The OGF Editor reviews the document for completeness, general content, formatting, etc. The OGF Editor will typically confirm the pre-submission check with the AD, who will shepherd the document through the GFSG review.
4. *Initial GFSG review*: Through the appropriate GFSG council, the GFSG will be given 15 days to read and comment on the document. At the end of that period, the AD will gain consensus from the GFSG as to whether the document is acceptable for advancement to Public Comment.
5. *Public Comment*: The document enters a 60-day Public Comment, with notification to the OGF community and general public (i.e., through the OGF's Web site and mailing lists).
6. *Review of comments*: Authors/editors are asked to respond to Public Comments, and may elect to prepare a new version of the document. If substantial revisions are made, a further Public Comment will be sought.
7. *Final GFSG review*: The same process as the initial GFSG review, with attention to Public Comments and any further changes to the document.
8. *Final Editor review*: The OGF Editor will confirm the document is ready for publication.
9. *Publication*: The OGF Editor will assign a GFD-C document number and inform the OGF community of the new document.

4.5 Recommendations Track Documents

Recommendations documents are first published in the OGF document series as *Proposed Recommendations*. Then, after sufficient experience and community guidance is received, Proposed Recommendations can become *Grid Recommendation*.

A "Proposed Recommendation" is analogous to a "Proposed Standard" in the Internet Standards Process:

A Proposed Standard specification is generally stable, has resolved known design choices, is believed to be well-understood, has received significant community review, and appears to enjoy enough community interest to be considered valuable. However, further experience might result in a change or even retraction of the specification before it advances.

Usually, neither implementation nor operational experience is required for the designation of a specification as a Proposed Standard. However, such experience is highly desirable, and will usually represent a strong argument in favor of a Proposed Standard designation. [BRADNER1] Section 4.1.1, p. 12.

Recommendations track GFDs give specific guidance regarding a particular subject, such as a technical specification or guidance regarding the application of technical specifications. These documents represent not only intellectual consensus within the OGF community but also reasonable assurance that the recommended approach is valid and useful.

The recommendations track contains two status levels: *Proposed Recommendation* and *Grid Recommendation*. An *obsolete* designation is assigned a recommendation that has been superseded by a more recent recommendation or that is no longer under consideration as a Grid Recommendation. An *historical* designation is assigned to a recommendation to indicate that, because of current practice or technology, implementation is discouraged.

4.5.1 Proposed Recommendation

With consensus from the chair(s) from the originating OGF group, the corresponding authors will submit the Proposed Recommendation to the OGF Editor to begin the review and comment process for publication as a GFD. The OGF Editor will submit the GWD to the GFSG for a 15-day internal review period. Typically, the relevant council within the GFSG will undertake the review. The OGF Editor will identify a relevant Area Director to present the document to the GFSG, fairly identifying the benefits and shortcomings of the document.

If the draft originates from an individual or non-OGF group, the OGF Editor will either assign the draft to an appropriate OGF group for review or will ask one or more GFSG members to review the draft. Based on the results of these reviews, the draft will either be submitted to the GFSG for a 15-day internal review as above, or returned to the author(s) within a reasonable period of time

If, based on the technical and intellectual quality of the draft, the consensus of the GFSG is that the GWD is a reasonable candidate for consideration as a GFD Proposed Recommendation, the OGF Editor will make the GWD available for a 60-day Public Comment period and will announce its availability.

At the end of the 60-day Public Comment period, based on issues raised during the comment period and any actions taken by the authors to address issues raised, the relevant Area Director(s) will make a recommendation to the OGF Editor and GFSG regarding the publication of the document as a GFD. The recommendation will include an overview of issues raised and the results of the invited review(s) if they were requested. This review will focus on technical and intellectual quality of the document as well as the extent to which the work truly reflects community-wide practice and support.

Depending on the extent of the changes made as a result of the 60-day Public Comment period and GFSG review, the OGF Editor may return the document for further work, require a restart of the 60-day comment period, or determine that the changes are minor enough to proceed with designation as a GFD immediately.

If the GWD is not recommended for publication as a GFD, the document returned to the submitters with a statement describing the decision. The group and/or authors may elect to continue working on the draft to address issues raised in the 60-day comment period and/or GFSG review.

4.5.2 Summary of Document Processing for Proposed Recommendation Documents

A document may be returned to an earlier phase of the document process, if deemed necessary.

1. *Pre-submission check*: Includes consensus within the OGF group, adherence to intellectual property guidelines, assignment of one or more corresponding authors, and group mailing list last call. At this point, OGF group chairs and the appropriate ADs should be informed of the intention to submit
2. *Submission*: Suitably formatted document, with attention to required elements and intellectual property issues, is submitted to the OGF Editor.

3. *Initial Editor review*: The OGF Editor reviews the document for completeness, general content, formatting, etc. The OGF Editor will typically confirm the pre-submission check with the AD, who will shepherd the document through the GFSG review.
4. *Initial GFSG review*: Through the appropriate GFSG council, the GFSG will be given 15 days to read and comment on the document. At the end of that period, the AD will gain consensus from the GFSG as to whether the document is acceptable for advancement to Public Comment.
5. *Public Comment*: The document enters a 60-day Public Comment, with notification to the OGF community and general public (i.e., through the OGF's Web site and mailing lists).
6. *Review of comments*: Authors/editors are asked to respond to Public Comments, and may elect to prepare a new version of the document. If substantial revisions are made, a further Public Comment will be sought.
7. *Final GFSG review*: The same process as the initial GFSG review, with attention to Public Comments and any further changes to the document.
8. *Final Editor review*: The OGF Editor will confirm the document is ready for publication.
9. *Publication*: The OGF Editor will assign a GFD-R-P document number and inform the OGF community of the new document.

4.5.3 Grid Recommendation

Once a document is published as a Proposed Recommendation, it is expected that operational experience will be gained. Typically, this will mean that at least two interoperable implementations should be demonstrated. Minimally, the mandatory aspects of the protocol or specification must be implemented in the interoperable implementations. If needed, the AD and relevant Council will determine whether interoperable implementations (or implementations in software at all) are necessary or whether operational experience can be gained in a different fashion.

A document must remain at the GFD Proposed Recommendation level for a minimum of 6 months before it is eligible for advancement to a Grid Recommendation.

Operational experience should be documented in the form of published documents, preferably one or more Experimental documents. When sufficient operational experience has been achieved and documented, an expert review will be solicited. Expert reviewers should not be document authors or otherwise have a conflict of interest. More than one expert review may be desirable. The review may be solicited by any interested party, not only the document authors and editors. However, including the authors/editors in the review process, if possible, is desirable. Depending on the subject matter, expert review may be desired from participants in relevant standards bodies (such as the W3C or IETF).

The relevant Council will designate an Area Director or other person to oversee the process of moving to a Grid Recommendation. The overseer will confirm the process is followed, solicit the external review, interact with authors/editors as needed, and help to address any comments received. Public comments will be solicited during this process, as well.

The review, which should be written, will provide input to the relevant Council in determining whether the Proposed Recommendation should (a) become a Grid Recommendation, (b) remain at the same status level, or (c) be moved to obsolete or historical status. The text of the review will be made available to the OGF membership, although the reviewer may elect to remain anonymous. Following a decision, the Area Director(s) will briefly summarize the reasoning of the Council, also providing this summary to the group chairs and/or authors.

While a formal solicitation for Public Comments will not typically be made, the OGF will advertise the document's status in moving to Grid Recommendation, so that interested parties can provide input.

Small changes (as described in the Errata section below) may be applied from the Proposed Recommendation to the Grid Recommendation, but these should be used with caution, and changes that would impact interoperability should be avoided. If substantive changes are needed, a new Proposed Recommendation must be developed.

When a Proposed Recommendation document has not reached the Grid Recommendation level after twenty-four months, and approximately every twelve months thereafter until the status is changed, the Council will review the viability of advancing it to Grid Recommendation status. Following each such review, the Council will decide whether to maintain the specification at the same maturity level or to move it to obsolete or historical status (thereby removing the Proposed Recommendation from further consideration to advance). This decision will be communicated to the OGF to allow the OGF community an opportunity to comment. This provision is not intended to threaten a legitimate and active working group effort, but rather to provide an administrative mechanism for terminating a moribund effort.

4.5.4 Summary of Document Processing for Grid Recommendation Documents

A document may be returned to an earlier phase of the document process, if deemed necessary.

1. *Passage of time*: At least 6 months since publication as a GFD-R-P must pass.
2. *Process check*: When document authors or other interested parties inform the OGF Editor of the desire to move the document to Grid Recommendation status, the Editor will check that requirements are met and seek consensus from the AD that the document is ready for advancement to Grid Recommendation.
3. *Document review*: A written expert review, summarizing operational experience and documents published that reflect the readiness of the document to become a Grid Recommendation. Other parties may solicit this on behalf of the document authors. It may be submitted to the document authors, the AD, or directly to the OGF Editor.
4. *Final document preparation*: If small changes are sought to the final document, the submitters must propose them in the form of a replacement document per the Errata process described herein.
5. *Public notice*: The Editor will inform the OGF community of the intention to move the document to Grid Recommendation, including a summary of or link to the expert review.
6. *Final review*: The AD will present the result of the review and all other evidence (such as Experimental documents) to the appropriate Council, with a recommendation for whether to change the status to a Grid Recommendation. The Council will be given 15 days to read and comment on the document. At the end of that period, the AD will gain consensus as to whether the document is acceptable for advancement.
7. *Republication*: The OGF Editor will replace GFD-R-P with GFD-R in the document, and apply any other needed changes. The Editor will inform the OGF community of the new document.

5. Automation Systems, Communication and Document Formats

The OGF Editor will use email to communicate during the document publication process. OGF groups, as well as individual authors, might choose OGF meetings, telephone calls, etc., but once a document enters the formal review process email is relied upon extensively.

The OGF may provide online automation systems to assist in the document flow. The use of such systems may be required, in order to provide a standard centralized process and permanent online archive of events. Authors/editors are urged to seek guidance from the OGF Editor or others in the use of available systems, in order to become proficient.

When a document enters Public Comment, and again when it is published at a GFD, the OGF Editor will announce the document action via email. At that time, a persistent link will be added to the document in the OGF document series Web page, and other announcements may be made.

In order to facilitate adding a final GFD number when published, as well as to handle errata (as described below), documents must be made available to the OGF Editor in an editable format. Typical formats are MS-Word, RTF, LaTeX, nroff, and plain text. Typically, a fixed format such as PDF is used to publish the final document, but the editable format is stored for possible future use.

6. Required and Optional Sections in an OGF Document

This section contains detail on some of the structural requirements of an OGF document. The OGF Editor makes a document template available to authors, with explanation and examples. Document sections, and a brief description for each, are:

1. First page masthead identifying editors, authors (optional), date, origin (WG/CG/RG, etc.), and type of document.
2. Front matter: document status, copyright statement, trademark recognition (if appropriate).
3. Abstract, providing a brief overview of the document.
4. Table of Contents.
5. Introduction, providing a detailed overview of the document, typically listing the sections to follow.
6. Notational conventions, if required, for key words such as "MUST" and "NOT."
7. The main body of the work.
8. Security considerations, described below.
9. Glossary, if desired.
10. Authors, Editors, Contributors, described below.
11. Acknowledgements, if desired
12. OGF Intellectual Property Statement, Disclaimer, and Copyright Statement per [MARTIN] or as updated.
13. References, described below.

6.1 OGF Document Formatting

The first page of the document must contain a header as follows, where items in <angle brackets> are required and items in [square brackets] are required only when applicable:

<document name and type>	Author/Editor, Affiliation
[working or research group name]	Author/Editor, Affiliation
[working group or research group URL(if applicable)]	Document Date
	[Revised Date]

Document Title

<Status: Group working Draft (GWD), Grid Final Draft (GFD), Grid Recommendation, Historical or Obsolete>

[Replaces: <document(s)> (used for documents that supercede historical or obsolete documents)]

[Document change history: (brief revision notes if this is a revised document)]

Document type is one of the following:

GWD-I (candidate Informational GFD)
GWD-E (candidate Experimental GFD)
GWD-C (candidate Community Practice GFD)
GWD-R-P (candidate Recommendations track GFD)

All pages after the first must have an email address for the group, or for an author or editor, in the lower left. The page number appears in the lower right. All pages after the first page must have <document name> in the upper left and the most recent revision date in the upper right.

The document must begin with a status statement, a copyright statement, and a 1-2 paragraph abstract followed by a table of contents. The copyright statement on the cover page should be simply "Copyright © Open Grid Forum (applicable years). All Rights Reserved." The full copyright statement per [MARTIN] or as revised must be included at the end of the document.

Sections in the body of the document must be outline numbered (1, 1.1, 1.1.1, etc.).

A glossary is recommended, particularly where many acronyms are used.

Once approved for publication as a OGF document, the document will be changed by the OGF Editor as follows:

The document type will be updated from GWD to GFD and a GFD sequence number assigned.

The Status field will be updated from "Group working Draft (GWD)" to "Current."

The Document date will be set to the date of first publication; any prior dates will be removed.

The revision date will be set to the date(s) of any change allowed here after first publication (described below under Errata). The document change history field will briefly describe the changes.

7. Authorship, Editorship and Contributing Authors

Two categories of contribution to a document are recognized in the OGF document series. They are authors and contributors. Documents may also identify editors, who are considered types of authors but might have somewhat different roles during the writing process. The OGF does not have a specific policy on the number of authors or contributors who are listed in a document, but requires at least one corresponding author. The corresponding author must be indicated in the header or, preferably, in a Contributor section. The presence of additional authors or contributors is recognized as a valid approach to demonstrate widespread support for a document.

Document authors are named individuals (not organizations) who contributed substantially to a document. This might include writing some of all of the document, providing feedback or recommendations for the document, helping with examples, and so forth. Authors may be listed on the first page of an OGF document, followed by their principal affiliation. For example:

Charlie Catlett, Argonne National Laboratory

Alternatively, if there are a large number of authors, they may be indicated in an Authors section of the main text, or indicated as Authors in a Contributors section.

Corresponding authors are authors who take permanent responsibility for a document. Corresponding authors will be sought to process any error reports (as described in the next

section). At least one corresponding author must be identified, but no more than three. This is to provide a simple means for readers to determine who has ongoing stewardship for a document. Corresponding authors are typically listed along with other authors on the first page of a document, and must be indicated as part of the Contributors or Authors section.

Contributors are individuals who assisted with a document's preparation, and whose contributions are recognized in the document. The distinction between an author and a contributor might not always be clear, so corresponding authors and their associated groups are encouraged to form guidelines about who will be listed as an author, and who will be listed as a contributor. Generally, contributors are those who provided substantial assistance with a portion of a document, but without as much attention to the document as a whole. For example, a contributor might submit a graphic, or a use case, or an example, but not work on the overall document wording and structuring.

The OGF prefers the use of full first names (not initials). Complete contact information for authors must be included in a later section in the main text (typically just before the complete copyright statement). Contributors are listed after authors, and do not need to have complete contact information. The nature of the contribution may be recognized.

8. Errata

Published OGF documents in the GFD series may have errors. Errors may be quite small (such as a spelling mistake), or quite large (such as a perceived shortcoming in a protocol). The OGF welcomes reports of document errata. Errata reports may be submitted via email to the OGF Editor, the corresponding authors or Area Directors, or via Web page submission at www.ogf.org.

Errata reports will be reviewed by the OGF Editor, and then communicated to the corresponding authors for their recommendation concerning the errata disposition.

Errata reports should not be made anonymously, so that the corresponding authors can have discussion with whoever reports the potential errors, to insure the nature of the error is understood.

Because every OGF document goes through a complete review process prior to publication, the errata process should not be used as a substitute for thorough document review prior to publication. For example, suggestions about useful additional sections, interesting references to related work, and criticism of the depth of examples used, would probably not result in changes to a published document. Instead, errata reports should be directed at either relatively minor editorial problems (spelling, punctuation, layout...) or at technical omissions or lack of clarity in a recommendation.

We reinforce that the corresponding authors of a document, as described above, have ongoing permanent responsibility for the document. They are the first point of contact for any errata reports, and any errata reports should be confirmed with them before being acted upon.

We further note that corresponding authors listed on the first page of a document are considered interchangeable for the purposes of the errata process -- that is, decisions communicated by one corresponding author will be considered authoritative. This puts the responsibility on the corresponding authors to communicate among themselves, as well as with group members and others as needed, to make decisions concerning their document.

Three types of fixes are envisioned:

1. Editorial fixes: updates to a document which are not widely announced or publicized. This category might include headers/footers, spelling, formatting, or simple wording changes for clarity.
2. Minor technical fixes: updates to a document which are not simply editorial. For example, an update to an XML schema or addition to a protocol, to bring the document into agreement with current practice. All such changes will be confirmed with the corresponding authors.
3. Major technical Fixes. Such fixes will often require additional technical review and result in an updated or replaced document. For example, if a proposed recommendation has elements that do not work in practice, or are otherwise found insufficient, there will need to be a decision whether to fix the document, or instead seek to write an updated document that will obsolete the old document. This decision will be made cooperatively among corresponding authors, the OGF Editor, relevant Area Directors, and the GFSG (others as needed).

The OGF Editor will oversee the errata process, but can ask corresponding authors, Area Directors, external reviewers, or others for assistance.

Editorial fixes should be reported within the first six months after a document is published by the OGF. Beyond that timeframe, the OGF Editor might reject changes, instead leaving the document in place as-is. The basis for the decision is whether minor changes justify the possibility of multiple different versions of a document being used by different people, who might have obtained the document from the OGF before it was updated.

Editorial fixes applied within the first month after publication will generally not be publicly announced to the OGF community. Any other changes to a document, whether major or minor, will be announced using the same mechanism as for a newly published document (i.e., email to the OGF community, posting to the OGF Web site, etc.).

Whenever a document is updated, even for minor editorial updates, the document header will be adjusted to reflect the date the document was updated. The date of the update should appear in the upper right side of the document's first page, beneath any prior date. For very minor updates, especially those within the first month after publication, no additional information needs to be added to the document

For all other updates, minor and major technical fixes, an errata report must be added to the document itself. Recommended practice is to put an errata report labeled as "Document Change History" on the first page of the document, directly under the copyright statement and before the abstract. A brief report on what was changed is sufficient, along with the date. If a more discussion is desired, the document change history field (mentioned above) can refer to a later section where the update is discussed in detail.

This errata process is not intended to be a mechanism for obsoleting prior versions of a document. If substantial updates are needed, a new document should be created and brought through the complete editorial review process. When a new document obsoletes an old document, that old document will be edited (header only) to indicate it has been obsoleted by a new document.

To summarize the decision path for the errata process,

- These guidelines apply to all types of published OGF documents described here (informational, experimental, community practice, and recommendation).

- If there are only minor spelling, typographical changes, etc., reports should go to the corresponding authors, then to the OGF Editor for approval and implementation. If reports are delivered to other parties first, they should be passed to the OGF Editor who will make a reasonable effort to contact the corresponding authors.
- If there are changes to the document that do not affect conformance (that is, the changes will not impact any implementations based on the document), the corresponding authors must approve the specific change, which will be put in place by the OGF Editor. Minimally, group chairs and a relevant Area Director will be consulted before putting the change into place.
- If there are changes to the document that might affect conformance, they will be discussed among the corresponding authors, the OGF Editor, and others as appropriate including group chairs, Area Directors, and the GFSG. A decision as to whether to update the document will be based on the length of time since the current document was published, the scope of the proposed change, and any other factors deemed appropriate by the OGF Editor. Changes deemed too substantial for this errata process will instead require submission of a new document, to obsolete the old.

Authority to accept or reject proposed changes to a document is placed first with the document's corresponding authors, who must make a timely decision concerning any errata reports (by responding in writing within 30 days). Email is typically used for this communication.

Authority on how to handle proposed changes approved by the corresponding authors rests with the OGF Editor, who will consult with group chairs, Area Directors and others at his/her discretion.

Conflict or disagreement concerning the handling of errata will be resolved following the same procedures as other disagreements within the OGF, as described below. Any reasonable effort will be made to accommodate errata reports, and to seek mutually agreeable resolution to the handling of document errata.

9. Writing the Security Considerations Section

Please refer to RFC 3552 [RESCORLA] for guidance on writing a security considerations section. This section is required in all documents, and should not just say "there are no security considerations." Quoting from the RFC:

Most people speak of security as if it were a single monolithic property of a protocol or system, however, upon reflection, one realizes that it is clearly not true. Rather, security is a series of related but somewhat independent properties. Not all of these properties are required for every application.

We can loosely divide security goals into those related to protecting communications (COMMUNICATION SECURITY, also known as COMSEC) and those relating to protecting systems (ADMINISTRATIVE SECURITY or SYSTEM SECURITY). Since communications are carried out by systems and access to systems is through communications channels, these goals obviously interlock, but they can also be independently provided.

10. Using References, Inline Citations and Footnotes

The References section of an OGF document is intended to give the reader a complete set of pointers to documents that informed, guided, or otherwise had an important influence on the new

document. Some corresponding authors choose to separate references into one section for Normative References, and another for Informative References. The difference is described in [BUSH]. The OGF does not require using two types of references, but for Recommendation Track documents especially they may be useful.

Only permanent documents should be cited as references. Other items, such as Web pages, organizations or working groups, should be cited inline (sample: see the Open Grid Forum, www.ogf.org) or as a footnote. Hyperlinks to transient documents should be avoided (for example, a link to a current draft of a document should not be used, if the document is likely to be replaced in the near future). Instead, in-text citations can refer to work in progress. To refer to a current working draft, an inline citation might simply read, (the XYZ working group has a draft in progress to address this topic. It may be found via the WG's Web page at www.xyz-wg.org). The purpose of references is to provide a means for a future reader to access important documents that helped shape the current document. This purpose cannot be achieved by incomplete references or links to drafts or Web sites that will change or be removed by the time the reader tries to access them.

References should conform to a standard such as used by IEEE/ACM, MLA, Chicago or similar. Include an author, year, title, publisher, and place of publication. For online materials, also add a URL and an access date. References should be complete and in a consistent format. Elements of references typically include:

- Authors or editors, possibly corporate authors
- A year of publication (month & day if needed for an unambiguous reference)
- A location of publication. For electronic publishers, this should be the publisher's organizational location
- An item title (for example, the title of a standard document, or a journal article)
- A journal series or book title, if applicable
- Specific volume, issue and page numbers, if applicable
- A canonical URL and access date

11. Document Numbering

The OGF document series uses a three-part designator as a shorthand name for each published document. The letters GFD are followed by the type of document (I, E, etc.), then a sequence number. It is the intent of the OGF that the sequence number have no gaps, so that the highest numbered document is an accurate count of the number of documents the OGF has released in the series.

Occasionally it may be desirable to pre-allocate a number in the sequence. This is done at the request of corresponding authors, and is at the discretion of the OGF Editor and relevant Area Directors. Pre-allocation of a document series number may occur when the document number is needed for citation by another document, and publication of both documents is imminent (i.e., the documents are at or beyond "final call" within the group).

12. Variance and Appeals Processes

Because different documents have different needs, and also because the OGF is a relatively new organization, there may be times when the process described here does not fit the needs of a document, or the expectations of document authors/editors. The GFSG will work with the OGF President and OGF Editor to determine whether at any point it is necessary to modify the process in general or vary the process for a particular case in order to make necessary progress.

If an individual wishes to appeal the decision of a working group or research group chair, the appeal should be made to the relevant Area Director. If this does not resolve the problem, an appeal should be made to the OGF President.

If an individual wishes to appeal the decision of the GFSG or OGF Editor, the appeal should be made to the OGF President.

If an individual wishes to appeal the decision of the OGF President, the appeal should be made to any Area Director. The Area Director will first attempt to resolve the problem via communication with the OGF President, and if necessary the Area Director may call for a vote of the GFSG and/or intervention by the OGF Board of Directors.

13. Security Considerations

This document includes a description of the requirement of a Security Considerations section for OGF documents. There are few security issues that are addressed directly, but the essence of the OGF document process described here is to define a formal yet flexible method for the applied distributed computing community to share information through the OGF document series. Among other things, this process is intended to enhance security by lessening ambiguity, increasing accountability, providing a thorough review process, and mandating structure and components to documents to make them clearer and more useful.

Glossary

Area Director (AD):	Individual with management responsibilities for a set of OGF groups organized as an "area."
Author:	The person(s) providing an initial version of the document and performing major rewrite(s). Author(s) are listed on the first page of a OGF document.
Contributor:	Someone who contributes text, concepts or expertise to the authorship of a document, but whose contributions are not substantial enough to be listed as an author. Contributors are listed in section of the documents, after contact information for authors and editors.
Corresponding author:	Individual or individuals who take permanent ongoing responsibility for a document. Each GFD must have at least one corresponding author.
GFD:	Grid Forum Document. GFDs are persistent.
GFSG:	A leadership group of the OGF including Council area directors and chairs, the OGF Editor, OGF President, and other members as defined by the group. <i>Ex officio</i> membership might include OGF staff members.
GWD:	Group working Draft. GWDs are not persistent but exist as drafts for discussion.
OGF:	Open Grid Forum (see www.ogf.org)
OGF President:	The OGF President is responsible for overall management of the OGF, in cooperation with the GFSG, Board of Directors, and Steering Committee.
OGF Editor:	The OGF Editor is responsible for management of the GFD process. The OGF Editor role may consist of more than one person, if needed. The OGF Editor position is filled through the GFSG nominating process (NomCom).

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