

WiMAX Forum Documentation Structure and Identification

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23 **Status History**

24

Date	Draft	Action
2009-05-15	DRAFT-A11-001-v01-H	TSC Approval
2009-06-24	DRAFT-A11-001-v01-I	BoD Confirmation

25

26

1. Scope

The scope of this document is to specify the structure, classification and the file naming of various documents produced in WiMAX Forum. This document also provides guidelines related to document titles as well as to marking the status of documents.

The WiMAX Forum Documents release process is defined in a separate document (WMF-A11-002).

2. References

- WMF-A11-002 (WiMAX Forum® Release Structure and Process)
- WMF-A11-003 (WiMAX Forum® Technical Activities Procedures)

3. Introduction

Four different types of documents, produced by different Working Groups, member companies and WiMAX Forum committees, are covered here:

- WiMAX Forum Documents

WiMAX Forum documents are those documents approved by the WiMAX Forum Board of Directors (BoD) or Technical Steering Committee (TSC), which have been initiated and developed by the TSC, Technical Coordination Committee (TCC) or one or more WiMAX Forum Working Groups. These documents shall be published by the WiMAX Forum for members' reference. For publication of WiMAX Forum documents for open access outside WiMAX Forum, please refer to WiMAX Forum Technical Activity Procedures (WMF-A11-003).

As WiMAX Forum documents are expected to be widely used and referenced, a well-defined document naming, numbering and coding scheme is provided for these documents. Section 4 specifies the rules for document numbering, series classification and file naming conventions. The document numbers are assigned when the relevant project or Work Item Descriptions have been formally approved.

- Drafts of WiMAX Forum documents

Draft of WiMAX Forum documents are WiMAX Forum documents prior to the document approval, and are identified as drafts according to the scheme provided in Section 4.3.

- Working Group documents

Working Group documents are those documents that are approved at a Working Group level but are not aimed for submission and/or approval by the BoD or TSC. Examples are:

- Guidelines: e.g., Working Group Process Guidelines, project development guidelines, Working Group level timelines
- Project proposal/Approval Forms/Work Authorization Documents
- White Papers, Reports, etc. not intended as a WiMAX Forum document
- Liaison Statements
- Membership certificates
- Certificates to companies allowing them to declare a product as WiMAX Forum certified
- Certificates to certification laboratories authorizing them to perform certification testing

Document identification and file naming for Working Group documents are specified in Section 5.

- Contribution documents

1 Contribution documents are those documents submitted by members or working group officers
2 corresponding to one or more approved Working Group work items or general Working Group activities.
3 These submissions could be to individual Working Groups or the TSC. Examples are:

- 4
- 5 - Different types of contributions
- 6 - Change Requests
- 7

8 Section 6 specifies the rules for document numbering and file naming conventions for Contribution
9 documents and Change Requests respectively.
10

11 **4. WiMAX Forum Documents**

12 **4.1 Identification Scheme**

13 WiMAX Forum Documents are identified by a reference to the WiMAX Forum, a series tag, indicating
14 the area to which the document belongs, a serial number within the area, an identifier for the release, if
15 applicable, and a version number.

16
17 The information elements are combined to a unique document number for each document according to
18 the following numbering format:

19
20 $WMF-[Lnm]-[bbb]-R[rrr]v[vv]$

21
22 ‘WMF’ is used as global identifier of WiMAX Forum Documents.

23
24 WiMAX Forum employs 3-character [Lnm] series classification that allows for hierarchical structure of
25 documents.

- 26 ■ Character [L]: indicates nature/aspect of the document. e.g. Administrative, Certification,
27 Marketing or Technical
- 28 ■ First digit [n]: indicates sub focus area. e.g. air interface, network, roaming, certification for
29 Technical documents,
- 30 ■ Second digit [m]: indicates stage of the document. e.g. requirements, architecture, protocols,
31 conformance, test procedures
- 32

33 More specifically, the following series encoding rules are applied.

34
35 Character [L]:

- 36 ■ A=Administrative, C=Certification, M=Marketing or T=Technical
- 37

38 First digit [n]: (Refer to Section 4.2 for further details)

- 39 ■ For Technical (T): 0 = Reserved, 1 = Deployment & application aspects, 2 = Air interface
40 aspects, 3 = Network aspects, 4 = Roaming aspects, 5..9 = Reserved
- 41 ■ For Administrative(A): 0 = Reserved, 1= Process/Administrative Aspects, 2..9 = Reserved
- 42 ■ For Certification(C): 0 = Reserved, 1= Certification Aspects, 2..9 = Reserved
- 43 ■ For Marketing(M): 0 = Reserved, 1= Marketing Aspects, 2..9 = Reserved
- 44

45
46
47 Second digit [m]: (Refer to Section 4.2 for further details)

- 1 ▪ For Technical (when applicable): 0 = Guidelines, 1 = Requirements, 2 = Architecture, 3 =
- 2 Protocols and Procedures (includes architecture if combined), 4 = Profiles & Conformance, 5 =
- 3 Test Procedures, 6 = Reserved, 7 = Coexistence & Interworking, 8..9 = Reserved,
- 4 ▪ For Administrative (A), Certification(C) and Marketing (M), please refer to Section 4.2.

5
6 In here, "Reserved" is assigned to those series that are not used yet and may be assigned to future aspects.

7
8 Each document within a series is identified by a 3 digit number.

- 9 ▪ bbb – 3 digit document number within series

10
11 When documents across multiple series are specifying the same feature, the same serial number should be
12 used across the series, when possible.

13
14 If a document belongs to a particular release, the release is indicated by an ‘R’ followed by a 3 digit
15 number

- 16 ▪ rrr – 3 digits for WiMAX Forum Release number. The release is identified by the release number
17 without decimal point, e.g.
18 Release 1.0 => R010; Release 1.5 => R015; Release 2 => R020; Release 3 => R030

19
20 The release number is only used for WiMAX Forum documents belonging to a particular release.

21
22 Each WiMAX Forum Document carries a 2 digit version number, which is incremented when an
23 enhanced version of the document is published. ‘v01’ is the initial version of a published document.

- 24 ▪ vv – 2 digits for Versions of a given document;

25
26 Examples:

27 WMF-T32-001-R010v01
28 WMF-T24-001-R015v01
29 WMF-A11-023-v17

30 **4.2 Document Series**

31 This section specifies the series classification for WiMAX Forum documents and drafts in a way to
32 minimize the need for coordination between various WGs on reserving numbers to avoid collision.
33 Nevertheless, WiMAX Forum Program Management team is responsible for maintaining a master
34 database for searching and reference purposes. Also, different documents from various series are grouped
35 to clearly specify manifestation of specific releases through relevant documents. For more detail, see
36 WMF-A11-002.

37
38 WiMAX Forum documents are classified into the following series.

- 39
40 ▪ WiMAX Forum Process/Administrative Aspects A1-Series
 - 41 ○ Reserved A10
 - 42 ○ Policies and Procedures A11
 - 43 ○ Release Plans A12
 - 44 ○ Reserved A13-19
- 45
46 ▪ Overall Deployment, Applications and OAM T1-Series
 - 47 ○ Reserved T10
 - 48 ○ Multiple-cross technical requirements (end to end) T11
 - 49 ○ WMF Credentials (X.509) T12

1	○ Application level studies, guidelines/best practices	T13
2	○ Spectrum policies studies, guidelines/best practices	T14
3	○ Reserved	T15-19
4		
5	▪ Air Interface	T2-Series
6	○ Air interface guidelines/best practices	T20
7	○ Air interface requirements	T21
8	○ Air interface Stage 2	T22
9	○ Air interface specifications	T23
10	○ Conformance Statements	T24
11	○ Test Procedures	T25
12	○ Reserved	T26
13	○ Spectrum issues and Coexistence	T27
14	○ Reserved	T28-29
15		
16	▪ Network	T3-Series
17	○ Network guidelines/best practices	T30
18	○ Network requirements	T31
19	○ Architecture	T32
20	○ Protocol Specifications	T33
21	○ Conformance Statements	T34
22	○ Test Procedures	T35
23	○ Reserved	T36
24	○ Interworking Specifications	T37
25	○ Reserved	T38-39
26		
27	▪ Roaming	T4-Series
28	○ Roaming guidelines/best practices	T40
29	○ Roaming requirements	T41
30	○ Architecture	T42
31	○ Protocol Specifications	T43
32	○ Conformance Statements	T44
33	○ Test Procedures	T45
34	○ Reserved	T46
35	○ Interworking Specifications	T47
36	○ Agreements	T48
37	○ Information	T49
38		
39	▪ Certification Aspects	C-Series
40	○ Reserved	C10
41	○ Instructions	C11
42	○ Policies	C12
43	○ Reserved	C13-15
44	○ Procedures	C16
45	○ Reserved	C17-19
46	○ Reserved	C20-90
47		
48	▪ Marketing Aspects	M1-Series
49	○ Reserved	M10
50	○ Policy and Process	M11
51	○ Guidelines	M12

4.5 Document Titling

A standardized document titling scheme enables users to quickly understand the purpose and status of each WiMAX Forum document. The elements that make up the title for documents include:

Document_Topic	Required
Document_SubTopic	Optional
Document_Status	Required
Document_Identifier	Required
Document_IssueDate	Required

These elements are arranged to form a document title as follows:

```

OrganizationName Document_Topic
[Document_SubTopic]
Document_Identifier
Document_Status
(Document_IssueDate)

```

Examples of applying the titling scheme:

- Title of a WiMAX Forum document:

```

WiMAX Forum™ Recommendations and Requirements for Networks based on WiMAX Forum
Certified™ Products

WMF-T31-001-R010-v01
WiMAX Forum Approved
(2006-02-23)

```

- Title of a draft of a WiMAX Forum document:

```

WiMAX Forum™ Recommendations and Requirements for Networks based on WiMAX Forum
Certified™ Products

DRAFT-T31-001-R015-v01-C
Working Group Approved Draft Specification
(2007-12-07)

```

4.6 File Naming of WiMAX Forum Documents

The document numbering scheme outlined in Section 4 provides a global unique identifier for each WiMAX Forum document. However, the file name of each WiMAX Forum document also includes a descriptive string for the convenience of the human user. This string appended to the document number provides additional information about the content of the document making it easier to peruse and quickly determine subject matter of archived documents. The descriptive string is an integral part of the file name of a WiMAX Forum document name, which remains so after the file is downloaded over the Web or copied from a document archive to a file system.

1 The length of this descriptive string is limited to 32 alpha-numeric characters. To ensure consistency and
2 compliance with file systems across all major Operating Systems, special characters typically not
3 permitted in file names shall be disallowed. Use of dots (except for the dot before the filename extension)
4 and white spaces are not allowed – these characters are often not visible in Web browser hyperlinks and
5 handling inconsistently by browsers. Use of Underscore characters shall be limited to the one indicating
6 the split between the document number and the descriptive string.

7
8 Examples of acceptable file names:

9
10 WMF-T32-001-R010v01_Network-Architecture-Part1.pdf
11 WMF-T24-001-R015v04_Mobile-System-Profile-TDD.pdf
12 WMF-A11-023-v17_TP-Operating-Rules-Procedures.pdf

13
14 DRAFT-T32-001-R010v01-A_Network-Architecture-Part1.doc
15 DRAFT-A11-023-v17-B_TP-Operating-Rules-Procedures.doc
16

17 **5. Working Group documents**

18 Working Group documents are documents created and approved by a Working Group, which are not
19 related to the development of a WiMAX Forum document. Typical examples of Working Group
20 documents are working group specific process guidelines or internal reports.

21 **5.1 Identification**

22 Working Group documents are identified by a reference to the corresponding Working Group, a serial
23 number, and an identifier for the release, if applicable, and a version number.
24 5-digit serial numbers are used to allow working groups to structure the WG documents by segregating
25 the serial number space. It is up to the working groups to define the serial number space structure when
26 deemed necessary.

27
28 The information elements are combined to a unique document number for each document according to
29 the following numbering format:

30
31 $[www]-wg[bbbb]-R[rrr]v[vv]$
32

33 Characters $[www]$: indicates the relevant Working Group or WiMAX Forum committee.

- 34 ■ AWG, CWG, EWG (for ETWG), GWG (for GRWG), MWG, NWG, RWG, SWG (for SPWG)
35 and TWG represent various Working Groups in WiMAX Forum.
- 36 ■ Other WiMAX Forum entities such as TSC, TCC etc. can be formally added to the list.

37
38 Each document within a Working Group is identified by a 5 digit number.

- 39 ■ bbbbb – 5 digit document number within WF Working Group or entity
40 To clearly indicate Working Group documents, the 5 digit number is preceded by the small
41 letters ‘wg’
42

43 If a Working Group document belongs to a particular release, the release is indicated by an ‘R’ followed
44 by a 3 digit number

- 45 ■ rrr – 3 digits for WiMAX Forum Release number. The release is identified by the release number
46 without decimal point, e.g.
47 Release 1.0 => R010; Release 1.5 => R015; Release 2 => R020; Release 3 => R030
48

1 The release number is only used for Working Group documents belonging to a particular release.

2
3 Each Working Group Document carries a 2 digit version number, which is incremented when an
4 enhanced version of the document is created. 'v01' is the initial version of a Working Group document.

- 5 ▪ vv – 2 digits for Versions of a given document;

6
7
8 Examples:

9 TWG-wg01001-R010v03

10 MWG-wg00010-v01

11 GWG-wg00008-R015v01

12 13 **5.2 File Naming**

14 The document numbering scheme outlined in this section provides an unique identifier for each Working
15 Group document. However, the file name of each document also includes a descriptive string for the
16 convenience of the human user. This string appended to the document number provides additional
17 information about the content of the document making it easier to peruse and quickly determine subject
18 matter of archived documents. The descriptive string is an integral part of the file name of a document
19 name, which remains so after the file is downloaded over the Web or copied from a document archive to a
20 file system.

21
22 The length of this descriptive string is limited to 32 alpha-numeric characters. To ensure consistency and
23 compliance with file systems across all major Operating Systems, special characters typically not
24 permitted in file names shall be disallowed. Use of dots (except for the dot before the filename extension)
25 and white spaces are not allowed – these characters are often not visible in Web browser hyperlinks and
26 handling inconsistently by browsers. Use of Underscore characters shall be limited to the one indicating
27 the split between the document number and the descriptive string.

28
29 Examples of acceptable file names:

30 TWG-wg01001-R010v03_Interop-Problem-Report-Process.pdf

31
32
33 Please note that the identification and file naming convention in this section are to be applied to all
34 Working Group documents with various formats such as doc, xls, pdf, etc.

35 36 **6. Contribution Documents**

37 Contribution documents are documents submitted by members to work items or other working group
38 activities. Working Groups provide clearly indicated folders on the WiMAX Forum website for
39 submission of contributions by members. Members can only upload documents to the submission folders
40 on the WiMAX Forum web-site.

41 **6.1 File naming**

42 Working Groups shall employ the WiMAX Forum website file auto-naming functionality to apply names
43 to contribution submittals as they are uploaded to the WiMAX Forum website. The file naming scheme
44 noted below is the minimum set of attributes to apply for auto-naming contribution submittal files
45 (additional file name attributes can be added per Working Group preference):

1 *[www]-[ssss]-[docnumber]-r[revnumber]_[FileName].extension*

2
3 *[www]* : 3 lower case characters, indicates the relevant Working Group or WiMAX Forum committee.

- 4 ▪ awg, cwg, ewg (for ETWG), gwg (for GRWG), mwg, nwg, rwg, swg (for SPWG) and twg
5 represent various Working Groups in WiMAX Forum.
- 6 ▪ [Other WiMAX Forum entities such as TSC, TCC, etc. can be formally added to the list.]

7
8 *[ssss]*: a sequence of 4 numbers or lower case characters indicating the particular submission folder
9 within the folder structure of a WG. *[ssss]* can be used to deploy yearly submission folders or provide a
10 submission folder per work item.

11
12 *[revnumber]*: a three-digit revision number, beginning with 0

13
14 The original file name assigned by the author before the file is uploaded to the WiMAX Forum website is
15 without a document number or revision number. The *[docnumber]* and *[revnumber]* attributes are
16 automatically generated by the auto-naming feature at the website and are applied per folder in the
17 Working Group documents database when the file is uploaded to the website. A caution on use of auto-
18 naming: since auto-naming is currently applied by folder, *[docnumber]* and *[revnumber]* are by folder.
19 Thus, one should turn off auto-naming for folders, into which documents are moved in.

20
21 Examples:

22
23 tcc-2009-00002-r001_Document-Guidelines.doc
24 nwg-drmd-00010-r003_OMA-Object-Library.xls
25 swg-2008-00122-r010_Progress-report.doc

26
27 Please note that the identification and file naming convention in this section are to be applied to all
28 Working Group documents with various formats such as doc, xls, pdf etc.

29 **6.2 File naming of change request submissions**

30 Change Requests are typically submitted by member companies against WiMAX Forum documents.
31 Working Group members should employ the WiMAX Forum website file auto-naming functionality to
32 apply names to change request files as they are uploaded to the WiMAX Forum website. Working Groups
33 should create specific folders at the WiMAX Forum documents website database for change requests
34 against their WiMAX Forum documents. The file naming scheme noted below is a minimum set of
35 attributes to apply for auto-naming change request files; additional file name attributes can be added per
36 Working Group preference:

37
38 ***CR-[docnumber]-r[revnumber]_[Document_Identifier]_[CompanyName]_[more].extension***

39
40 The file name assigned by the author before the file is uploaded to the WiMAX Forum website shall
41 follow the structure:

42
43 ***[Document_Identifier]_[CompanyName]_[more].extension***

44 Example:

45 WMF-T33-001-R010v04_theCompany_WiMAX-TLV-Correction.doc

46
47 The file name shall include the target document identifier *[Document_Identifier]*, the name of the
48 author's company *[CompanyName]* and additional information *[more]* as necessary.

1 The CR-identification, *[docnumber]* and *[revnumber]* attributes are automatically generated by the auto-
2 naming feature at the website and are applied per folder in the Working Group documents database when
3 the file is uploaded to the website.

4

5 Example:

6 CR-00101-r000_WMF-T33-001-R010v04_theCompany_WiMAX-TLV-Correction.doc

7

8 A caution on use of auto-naming: since auto-naming is currently applied by folder, *[docnumber]* and
9 *[revnumber]* are by folder. Thus, one should turn off auto-naming if moving a document from one folder
10 to another.

11

12 The *[Document_Identifier]* is the same identification field as specified in Section 4, referring to the
13 document that the change request is submitted against.

14

15 After member companies submitted a change request, a Working Group may revise the Change Request
16 file names to accommodate CR numbers. This is done according to Working Group internal Change
17 Control process guidelines.

18

19 **7. Templates**

20 Templates for WiMAX Forum Documents, WiMAX Forum DRAFTs, Working Group documents,
21 Contributions and Change Request submissions are provided. Use of these templates is mandatory.