



OIPF

Release 2 IPTV Solution

V2.0 Errata 1

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Foreword

This document has been produced by the Open IPTV Forum (OIPF). It contains the first set of errata for the Release 2 V2.0 IPTV Solution specifications.

1 References

[OIPF_OVIEW2]	Open IPTV Forum, "Release 2 Specification, Volume 1 - Overview", V2.0, September 2010.
[OIPF_MEDIA2]	Open IPTV Forum, "Release 2 Specification, Volume 2 - Media Formats", V2.0, September 2010.
[OIPF_HAS2]	Open IPTV Forum, "Release 2 Specification, Volume 2a – HTTP Adaptive Streaming", V2.0, September 2010.
[OIPF_META2]	Open IPTV Forum, "Release 2 Specification, Volume 3 - Content Metadata", V2.0, September 2010.
[OIPF_PROT2]	Open IPTV Forum, "Release 2 Specification, Volume 4 – Protocols", V2.0, September 2010.
[OIPF_PROT2_EX]	Open IPTV Forum, "Release 2 Specification, Volume 4a – Examples of IPTV Protocol Sequences", V2.0, September 2010.
[OIPF_DAE2]	Open IPTV Forum, "Release 2 Specification, Volume 5 - Declarative Application Environment", V2.0, September 2010.
[OIPF_PAE2]	Open IPTV Forum, "Release 2 Specification, Volume 6 - Procedural Application Environment", V2.0, September 2010.
[OIPF_CSP2]	Open IPTV Forum, "Release 2 Specification, Volume 7 - Authentication, Content Protection and Service Protection", V2.0, September 2010.

2 Summary of Release 2 Errata 1

Errata issues with the Release 2 V2.0 IPTV Solution specifications are categorised into one of the following:

- **Editorial (“E”)** – where amendments do not affect any normative requirement in the specification.
- **Technical (“T”)** - where amendments imply a technical change, but not one that causes any incompatibilities with an earlier revision of the V2.0 specification.
- **Critical (“C”)** – where amendments imply a technical change that introduces some element of incompatibility with the published V2.0 specification.

Errata to the IPTV Solution specifications can have one of the following status settings:

- **Acknowledged** – the issue is acknowledged as an erratum and its resolution is under way.
- **Resolved** – the issue has been resolved and the erratum is in preparation.
- **Implemented** – the erratum is specified in the relevant normative section of the present document.

As an erratum is noted, its status can be expected to progress through these states in the indicated order, being updated in successive revisions of the present document. Issues that are notified but subsequently not deemed to be errata are not maintained in this document.

Table 1 below lists the issues addressed in Release 2 V2.0 Errata 1, indicating which specification volume(s) are impacted. Issues are numbered through consecutive V2.0 Errata publications.

The subsequent sections contain the detailed errata for each V2.0 specification volume.

Issue number	Issue	Category	Impacted Volume(s)	Impacted Section(s)	Constituent Errata Issue Reference(s)	Status	Date
1	Volume 4a reference	E	1	2.2	3.1	Implemented	28/09/2010
2	Volume 2a version number	E	2a	Title page	5.1	Implemented	28/09/2010
3	Normative references	T	4	1.1.1	7.1	Implemented	28/09/2010
4	Retrieval of bandwidth parameter for FCC and/or RET	E	4	5.3.1.1.2	7.2	Implemented	28/09/2010
5	Fast Channel Change	E	4	9.5, M.2	7.3	Implemented	28/09/2010
6	Port mapping and NAT traversal for FCC/RET	T	4	G.3	7.4	Implemented	28/09/2010
7	Volume 4a version number	E	4a	Title page	8.1	Implemented	28/09/2010

Table 1 Release 2 V2.0 Errata 1 issues summary

3 Errata for Volume 1 - Overview

3.1 Volume 4a reference

The title for the reference table entry in section 2.2 for Volume 4a was incomplete. The corrected table row is:

[OIPF_PROT2_EX]	Open IPTV Forum, "Release 2 Specification, Volume 4a – Protocol Sequence Examples", V2.0, September 2010.
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4 Errata for Volume 2 – Media Formats

There are no errata noted against Volume 2.

5 Errata for Volume 2a – HTTP Adaptive Streaming

5.1 Volume 2a version number

*The version number should be V1.0, since Volume 2a is a new addition to the IPTV Solution specifications in Release 2.
The correct title page version is:*

[V1.0] - [2010-09-06]

6 Errata for Volume 3 – Content Metadata

There are no errata noted against Volume 3.

7 Errata for Volume 4 – Protocols

7.1 Normative references

In section 1.1.1 the reference to DVB-IPTV is updated to:

[TS102034]	ETSI, TS 102 034 V1.4.1 (2009-08), “Digital Video Broadcasting (DVB);Transport of MPEG-2 TS Based DVB Services over IP Based Networks”
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Two new normative references are added, for the DVB specification for Fast Channel Change, and the IETF draft for port mapping between unicast and multicast RTP sessions:

[FCC]	DVB BlueBook A152 (08/10), “Server-Based Fast Channel Change in DVB-IPTV Systems”
[PORTMAP]	IETF, draft-ietf-avt-ports-for-ucast-mcast-rtp-02 , “Port Mapping Between Unicast and Multicast RTP Sessions”

7.2 Retrieval of bandwidth parameter for FCC and/or RET enabled SC

In section 5.3.1.1.2 the response containing maximum bandwidth information has a typographical error corrected and a formal reference link added:

- b=AS:<bandwidth>
where <bandwidth> is the maximum calculated bandwidth according to the b=AS bandwidth modifier defined in RFC 4566 [SDP] expressed in kbps.

7.3 Fast Channel Change (FCC)

In section 9.5, the editor’s note is removed and the unspecified reference is changed to the DVB Fast Channel Change specification. The amended text is:

This section specifies the fast channel change solution for scheduled services transported over RTP. The solution SHALL be conformant to the server-based fast channel change solution as specified in [FCC].

In section 9.5.1 the amended text is:

The unicast Fast Channel Change RTP burst data is transferred over the UNIT-17, in conformance with [FCC]

In section 9.5.2 the amended text is:

RTCP SHALL be used on this reference point and SHALL comply with [FCC].

In Annex M.2 the first sentence of the bullet on “cookie signaling” is amended to:

- Cookie signaling

This method is defined in [PORTMAP] and the procedure is as follows:

7.4 Port mapping and NAT traversal for FCC/RET

In Annex G.3 the unspecified reference for the port mapping process is replaced by the reference to the IETF draft introduced in section 7.2 above. The first two sentences of G.3 are amended to:

The port mapping procedure defined in [PORTMAP] provides a means by which the OITF can signal to the FCC/RET server the port on which the FCC/RET server SHOULD transmit the FCC/RET RTP packets. However, the FCC/RET RTP packets transmitted by the FCC/RET server MAY not be able to reach the OITF when located behind a NAT.

In section G.3.1 the first sentence is amended to:

In the port mapping process defined in [PORTMAP] and referred to in **Error! Reference source not found.**, “**Error! Reference source not found.**” the FCC/RET-enabled OITF sends a port mapping (request) RTCP message to the

retransmission source entity RTP/RTCP receive port of the FCC/RET server (this is a single port as the FCC/RET server is REQUIRED to support RTP/RTCP port multiplexing for the unicast RTP FCC/RET session) prior to any RAMS (FCC) or NACK message exchange.

8 Errata for Volume 4a – Examples of IPTV Protocol Sequences

8.1 Volume 4a version number

*The version number should be V1.0, since Volume 4a is a new addition to the IPTV Solution specifications in Release 2.
The correct title page version is:*

[V1.0] - [2010-09-06]

9 Errata for Volume 5 – Declarative Application Environment

There are no errata noted against Volume 5.

10 Errata for Volume 6 – Procedural Application Environment

There are no errata noted against Volume 6.

11 Errata for Volume 7 – Authentication, Content Protection and Service Protection

There are no errata noted against Volume 7.