



OIPF

RELEASE 1 IPTV SOLUTION

V1.2 ERRATA 1

[V1.2] – [2013-09-03]

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Contents

FOREWORD	4
1 REFERENCES	5
2 SUMMARY OF ERRATA 1.....	6
3 ERRATA FOR VOLUME 1 - OVERVIEW	10
4 ERRATA FOR VOLUME 2 – MEDIA FORMATS.....	11
5 ERRATA FOR VOLUME 3 – CONTENT METADATA	12
6 ERRATA FOR VOLUME 4 – PROTOCOLS	13
7 ERRATA FOR VOLUME 5 – DECLARATIVE APPLICATION ENVIRONMENT	14
7.1 METADATA API UPDATES	14
7.2 WINDOW.ONLOAD.....	15
7.3 KEYPRESS EVENTS	15
7.4 OIPFDOWNLOADMANAGER.GETDOWNLOADS BEFORE THE CADD IS FETCHED AND PARSED	15
7.5 CONFLICT BETWEEN 7.10.2.1/7.16.2.1 AND NEW SECTION 8.4.4	15
7.6 STATUS SHOULD BE STATE IN THE METADATA API	16
7.7 PLAYSTATE PROPERTY OF THE VIDEO/BROADCAST OBJECT	16
7.8 DEFINITION OF "DVB-SI" PARENTAL RATING SCHEME	16
7.9 HDVIDEOFORMAT PROPERTY DOES NOT PERMIT 720I	16
7.10 DVB-SI EXTENSIONS TO PROGRAMME	16
7.11 MEANING OF ‘CURRENT QUERY’	16
7.12 ‘CLIENTMETADATA’ CAPABILITY	16
7.13 STANDBYSTATE PROPERTY	17
7.14 REFERENCES TO <RECORD> CAPABILITY SHOULD BE <RECORDING>.....	17
7.15 VK_SUBTITLES SHOULD BE VK_SUBTITLE	17
7.16 INTERFACES IN ANNEX D.....	17
7.17 REVISED VIDEO/BROADCAST OBJECT STATE DIAGRAM	18
7.18 INVALID REFERENCE TO CURRENTCHANNEL PROPERTY	20
7.19 HTML5 CROSS-DOCUMENT MESSAGING	20
7.20 THE <IPBROADCAST> ATTRIBUTE OF THE <RECORDING> ELEMENT	20
7.21 RENAMING CATALOGUECOLLECTION.....	20
7.22 ‘PRIVATE’ PROPERTY	20
7.23 ‘STATUS’ PROPERTY IS ACTUALLY ‘STATE’	21
7.24 MORE METADATA API UPDATES.....	21
8 ERRATA FOR VOLUME 6 – PROCEDURAL APPLICATION ENVIRONMENT.....	22
9 ERRATA FOR VOLUME 7 – AUTHENTICATION, CONTENT PROTECTION AND SERVICE PROTECTION	23
9.1 ALIGNING PARENTAL_CONTROL_INFO WITH DAE API CHANGES.....	23

Foreword

This document has been produced by the Open IPTV Forum (OIPF). It contains the first set of errata for the Release 1 V1.2 IPTV Solution specifications. The majority of these errata were found during the process of finalising the Release 2 version 2.2 specification and are a copy of the solution already included in that document.

1 References

[OVIEW]	Open IPTV Forum, "Release 1 Specification, Volume 1 - Overview", V1.1, October 2009.
[MEDIA]	Open IPTV Forum, "Release 1 Specification, Volume 2 - Media Formats", V1.1, October 2009.
[META]	Open IPTV Forum, "Release 1 Specification, Volume 3 - Content Metadata", V1.1, October 2009.
[PROT]	Open IPTV Forum, "Release 1 Specification, Volume 4 – Protocols", V1.1, October 2009.
[DAE]	Open IPTV Forum, "Release 1 Specification, Volume 5 - Declarative Application Environment", V1.1, October 2009.
[PAE]	Open IPTV Forum, "Release 1 Specification, Volume 6 - Procedural Application Environment", V1.1, October 2009.
[CSP]	Open IPTV Forum, "Release 1 Specification, Volume 7 - Authentication, Content Protection and Service Protection", V1.1, October 2009.

2 Summary of Errata 1

Errata issues with the Release 1 V1.2 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 V1.1 specification.
- **Critical (“C”)** – where amendments imply a technical change that introduces some element of incompatibility with the published V1.1 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.
- **Implemented in R2 V2.2** – the erratum is included in the Release 2 version 2.2 specification and the same or equivalent erratum is included in the relevant 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 “Errata 1”, indicating which specification volume(s) are impacted. Issues are numbered through consecutive V1.2 Errata publications.

The subsequent sections contain the detailed errata for each V1.2 specification volume.

Internal reference number	Issue	Category	Impacted Volume(s)	Impacted Section(s)	Reference(s) in this document	Status	Date
469	standbyState property	E	5	7.3.3.1	7.13	Implemented in R2 V2.2	27/02/13
474	References to <record> capability should be <recording>	E	5	4.8.2, 7.15.2.2	7.14	Implemented in R2 V2.2	19/02/13
476	'private' property	E	5	7.2.2.1	7.22	Implemented in R2 V2.2	20/02/13
477	oipfDownloadManager.getDownloads before the CADD is fetched and parsed	T	5	7.4.3.3	7.4	Implemented in R2 V2.2	20/02/13
478	'Status' property is actually 'state'	E	5	7.4.3.3	7.23	Implemented in R2 V2.2	20/02/13
479	Renaming CatalogueCollection	E	5	7.5.2	7.21	Implemented in R2 V2.2	05/03/13
481	VK_SUBTITLES should be VK_SUBTITLE	E	5	9.1,	7.15	Implemented in R2 V2.2	20/02/13
531	DVB-SI extensions to Programme	T	5	7.16.2.4	7.10	Implemented in R2 V2.2	20/02/13
554	hdVideoFormat property does not permit 720i	T	5	7.3.5.1	7.9	Implemented in R2 V2.2	20/02/13
559	Revised video/broadcast object state diagram	E	5	7.13.1.1	7.17	Implemented in R2 V2.2	05/03/13
560	Invalid reference to currentChannel	E	5	7.13.1.2	7.18	Implemented	05/03/13

	property					in R2 V2.2	
596	playState property of the video/broadcast object	T	5	7.13.1.2	7.7	Implemented in R2 V2.2	27/02/13
605	Interfaces in Annex D	E	5	Annex D	7.16	Implemented in R2 V2.2	20/02/13
679	'clientMetadata' capability	E	5	9.3.7	7.12	Implemented in R2 V2.2	20/02/13
680	Definition of "dvh-si" parental rating scheme	E	5	7.9.2.1, 7.9.4.1	7.8	Implemented in R2 V2.2	11/02/13
681	window.onload	T	5	Annex B	7.2	Implemented in R2 V2.2	11/02/13
682	HTML5 cross-document messaging	E	5	4.3.6, 4.4.7	7.19	Implemented in R2 V2.2	11/02/13
684	The <ipBroadcast> attribute of the <recording> element	E	5	9.3.3	7.20	Implemented in R2 V2.2	11/02/13
690	Meaning of 'current query'	T	5	7.12.3.2	7.11	Not included in R2 V2.2. Approved for implementation in next release of vol.5.	05/03/13
692	Conflict between 7.10.2.1/7.16.2.1 and new section 8.4.4	T	5	8.3, 8.4.4	7.5	Not included in R2 V2.2. Approved for implementation in next release of vol.5.	05/03/13

676, 683, 696	Metadata API Updates	T	5	7.12	7.1	Implemented in R2 V2.2	18/06/13
697	Status should be state in the metadata API	T	5	7.12	7.6	Implemented in R2 V2.2	25/02/13
708	Keypress events	T	5	Annex B	7.3	Implemented in R2 V2.2	18/06/13
711	Aligning parental_control_info with DAE API changes	T	7	4.2.3.4.1.1.5	9.1	Agreed for inclusion in R2 V2.3.	06/08/13
743, 752	More Metadata API Updates	E	5	7.12	7.24	Not included in R2 V2.2. Approved for implementation in next release of vol.5.	13/08/13
761	Clarification of MIME types for isObjectSupported method	T	5	7.1.1	7.25	Not included in R2 V2.2. Approved for implementation in next release of vol.5.	23/08/13

Table 1 Release 1 V1.2 Errata 1 issues summary

3 Errata for Volume 1 - Overview

None.

4 Errata for Volume 2 – Media Formats

None.

5 Errata for Volume 3 – Content Metadata

None.

6 Errata for Volume 4 – Protocols

None.

7 Errata for Volume 5 – Declarative Application Environment

Changes in this section are listed in an approximation of decreasing severity. Firstly changes which really are technical. Secondly changes which are clarifications and lastly purely editorial changes.

7.1 Metadata API Updates

a) In section 7.12.1.1, in the description of the object parameter of the onMetadataUpdate property, the text shown underlined is inserted;

- Object object – the affected channel, programme, or CoD asset prior to the change . If more than one is affected, then this argument SHALL take the value null.

b) In section 7.12.2, in the first of the three steps under “Each search consists of three steps”, the text shown underlined is inserted;

- 1 Definition of the query. The application creates a MetadataSearch object, and either creates its associated Query object, or sets a query using the findProgrammesFromStream() method, and sets any applicable constraints and result ordering.

c) In section 7.12.2, the following text is inserted between the end of the table “Metadata search states (normative)” and the paragraph beginning “Changes to the search parameters (e.g. changing the query or adding/removing constraints or modifying the search target, or calling findProgrammesFromStream())SHALL be applied”.

The findProgrammesFromStream() method acts as a shortcut for setting a query and a set of constraints on the MetadataSearch object . Regardless of whether the query and constraints are set explicitly by the application or via findProgrammesFromStream(), results are retrieved using the getResults() method.

d) In section 7.12.2.2, the following text is added at the end of the description of the setQuery method;

Setting the search parameters using this method will implicitly remove any existing constraints, ordering or queries created by prior calls to methods on this object.

e) In section 7.12.2.2, in the description of the findProgrammesFromStream method

- “Searches made using this method” is changed to “”Setting the search parameters using this method”

- the following sentence is added to the end of the description section.

Applications SHALL be notified of the progress of the search via MetadataSearch events as described in section 7.12.1.1.

f) In section 7.12.2.2, in the arguments for the findProgrammesFromStream method, the count argument removed between release 1.1 and release 1.2 is restored with the following description;

“Optional argument giving the maximum number of programmes for which information should be fetched. This places an upper bound on the number of results that will be present in the result set – for instance, specifying a value of 2 for this argument will result in at most two results being returned by calls to getResults() even if a call to getResults() requests more results.

If this argument is not specified, no restrictions are imposed on the number of results which may be returned by calls to getResults().”

g) In section 7.12.4.1, the description of the totalSize property of the SearchResults class reads as follows;

The total number of items in the result set. The value of this property SHALL be undefined until getResults() has been called and a MetadataSearch event notifying the application that results are available has been dispatched.

7.2 window.onload

In annex B, the following text

The following properties and methods SHALL be supported on the window object as defined in section “The window Object” of [HTML5]:

- document, frames, history, location, name, onkeypress, onkeydown, onkeyup, onblur, onfocus, parent, self, top, window, frameElement,
- focus(), addEventListener(), removeEventListener()

is changed with ‘onload’ added to the end of the first list.

7.3 Keypress events

In Annex B, the following paragraph;

[Req. 5.4.1.1] A Remote UI Client SHALL generate one or more “keydown” and “keypress” events while a key is being pressed until the key is released, at repetition rate determined by the client, and SHALL generate a “keyup” event as soon as the key is released.

Shall have the following text added to the end;

A Remote UI Client MAY omit keypress events for keys which do not produce a character value.

7.4 oipfDownloadManager.getDownloads before the CADD is fetched and parsed

The following paragraph is added to the definition of the method oipfDownloadManager.getDownloads;

For downloads initiated from registerDownloadURL() with a contentType value “application/vnd.oipf.ContentAccessDownload+xml” SHALL return null until the Content Access Download Descriptor has been retrieved and parsed.

7.5 Conflict between 7.10.2.1/7.16.2.1 and new section 8.4.4

In section 8.4.4, in the row for the the programmeID property, in the column for ‘Programme Class Property’, the following text;

If a programme CRID is not provided in the EIT for the programme then this shall be assigned by the terminal from EIT/event_id and it shall be encoded as a decimal integer. Otherwise this is outside the scope of the present document.

is replaced with

If a programme CRID is not provided in the EIT for the programme then this SHALL be a DVB URL referencing the DVB-SI event defined by EIT/event_id in the channel carrying this programme. Otherwise this is outside the scope of the present document.

In section 8.3, a new row is added for the DVB URI scheme as follows;

dvb	Identifying programmes when DVB-SI is in use	Dvb: URL including an event_id as defined in section 6.1 of TS 102 851	
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7.6 Status should be state in the metadata API

In section 7.12, the various references to onMetadataSearch having a 'status' argument or the MetadataSearch DOM-2 event having a 'status' property are all replaced with 'state' as in the signature of the onMetadataSearch function.

7.7 playState property of the video/broadcast object

In section 7.13.1.2, the playState property of the video/broadcast object is 'ReadOnly'.

7.8 Definition of "dvb-si" parental rating scheme

In section 7.9.2.1,

the string value "dvb-si": this means that the scheme of a minimum recommended age encoded as per [EN300468], is used to represent the parental rating values.

is replaced by;

the string value "dvb-si": this means that the scheme of a minimum recommended age encoded as per ratings 0x01 to 0x0f in the parental rating descriptor from [EN 300 468], is used to represent the parental rating values.

NOTE: If the broadcaster defined range from 0x10 to 0xff is used then that would be a different parental rating scheme and not "dvb-si".

In section 7.9.4.1,

if the value of property scheme is equal to "dvb-si", the string representation of the minimum recommended age encoded as per [EN300468], which corresponds to rating_type 0 in [IEC62455].

is replaced by;

if the value of property scheme is equal to "dvb-si", this means that the scheme of a minimum recommended age encoded as per ratings 0x01 to 0x0f in the parental rating descriptor from [EN 300 468], which corresponds to rating_type 0 in [IEC62455].

NOTE: If the broadcaster defined range from 0x10 to 0xff is used then that would be a different parental rating scheme and not "dvb-si".

7.9 hdVideoFormat property does not permit 720i

In section 7.3.5.1, in the description of the hdVideoFormat property, "720i" is listed as a valid value.

7.10 DVB-SI extensions to Programme

In section 7.16.2.4 "DVB-SI extensions to Programme", the description of the descriptorTagExtension argument is extended with the following;

This argument is mandatory when descriptorTag is 0x7f and ignored in all other cases.

7.11 Meaning of 'current query'

In section 7.12.3.2, the three references to the "current query" is replaced by "this query".

7.12 'clientMetadata' capability

In section 9.3.7, the definitions of the "bcg", "sd-s" and "dvb-si" metadata system/protocol names is clarified as shown in the revised text below.

- "bcg": indicates support for the TV-Anytime Broadband Content Guide metadata format according to section 3.3 of [OIPF_META2].

- “sd-s”: indicates support for the DVB Service Discovery and Selection format according to section 3.2 of [OIPF_META2].
- “dvb-si”: indicates support for DVB-SI EIT schedule information as defined by [EN 300 468].

7.13 standbyState property

In section 7.3.3.1, the description of the standbyState property has the following text added;

NOTE: In release 2, this property has been replaced by the setPowerState method.

7.14 References to <record> capability should be <recording>

In sections 4.8.2 and 7.15.2.2, the two references to <record>true</record> listed below are <recording>true</recording>.

Section 4.8.2: This section and the following sections SHALL apply to OITFs that have indicated <record>true</record> as defined in section 9.3.3 in their capability profile.

Section 7.15.2.2: An OITF that has indicated support for control of its recording functionality by a server (i.e., <record>true</record>) SHALL support the application/oipfStatusView embedded object defined in section 7.15.2.1,

7.15 VK_SUBTITLES should be VK_SUBTITLE

There are two references to ‘VK_SUBTITLES’ which should be ‘VK_SUBTITLE’. In section 9.1;

The OITF MAY include mechanisms to generate the following key events and if it does, making them available to DAE applications is OPTIONAL.

...

-

VK_SUBTITLES

In section 9.2;

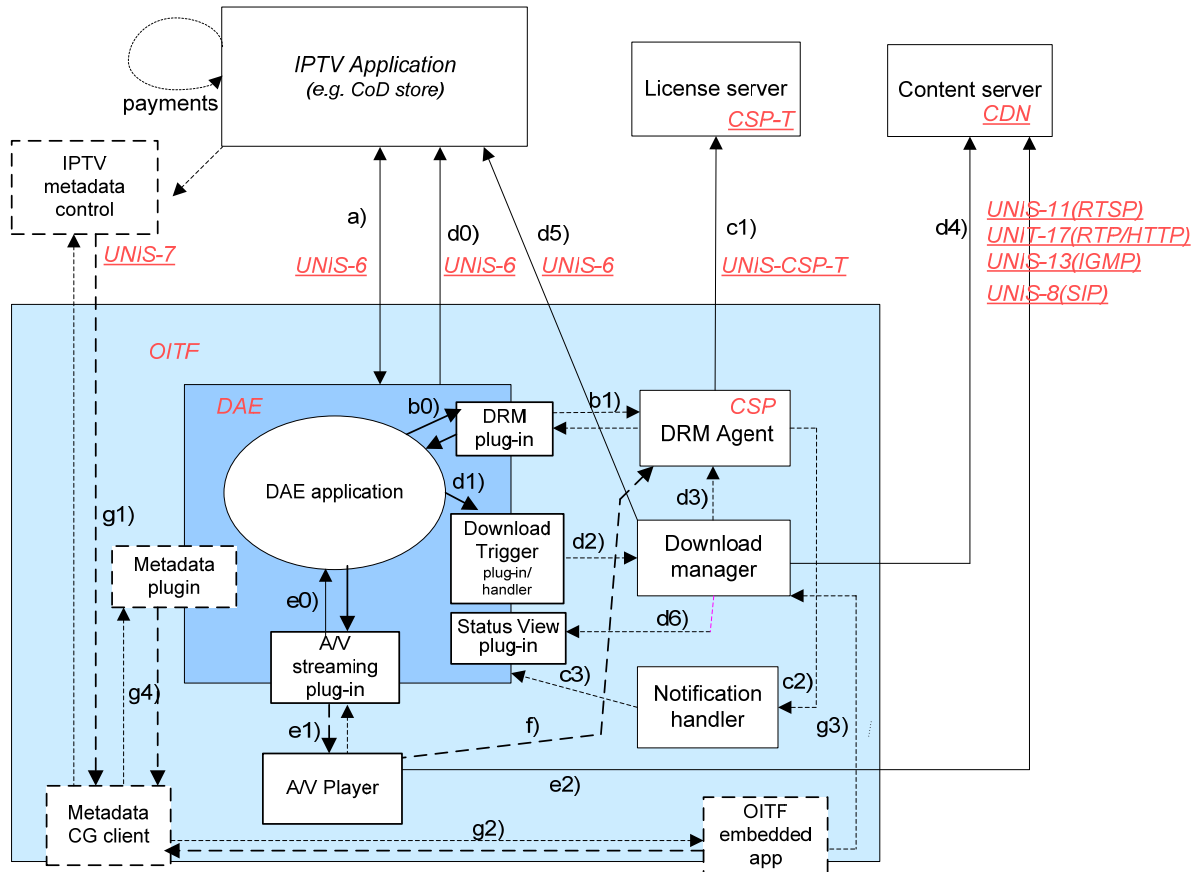
"+ITV_KEYS"	<key>VK_HOME</key> <key>VK_MENU</key> <key>VK_CANCEL</key> <key>VK_SUBTITLES</key>
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7.16 Interfaces in Annex D

In annex D, firstly in the original text quoted below, the reference to e3 is replaced by a reference to e2.

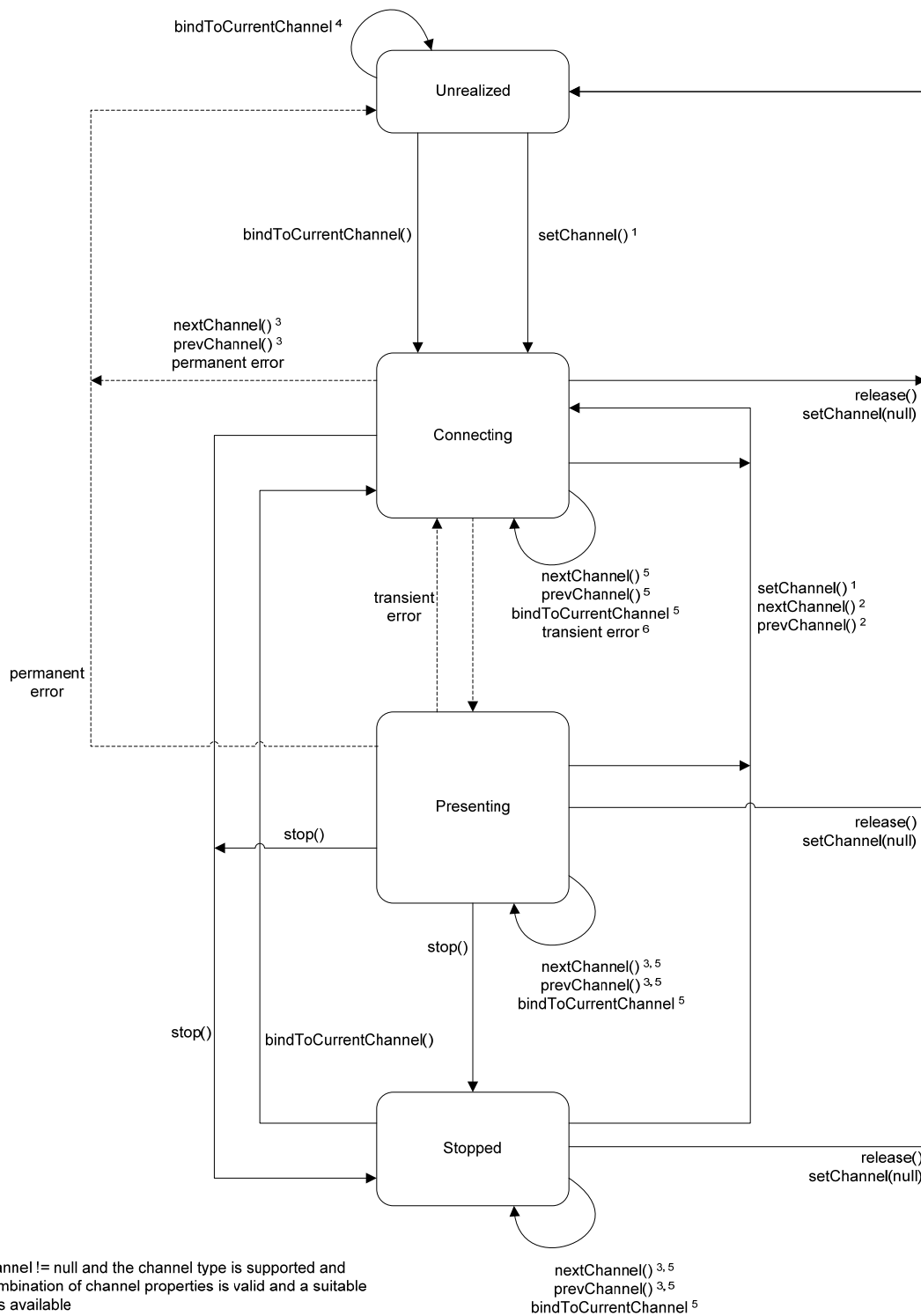
3. The download manager or A/V player fetch the content, as indicated by interfaces d4 and e3.

Secondly in annex D, the figure is replaced with the following;



7.17 Revised video/broadcast object state diagram

In section 7.13.1.1, the (informative) state diagram for embedded video/broadcast objects is revised as follows;



7.18 Invalid reference to currentChannel property

In section 7.13.1.2, in the description of the playState property, the following sentence is removed;

The current channel can be obtained from the currentChannel property on the Application object which is the same as that on the video/broadcast object under most normal conditions.

7.19 HTML5 cross-document messaging

In section 4.3.6,

When an application uses cross-document messaging as defined in [HTML5] to communicate with another application, any action carried out in response to the message SHALL take place in the security context of the application to which the message was sent.

is changed to

When an application uses cross-document messaging (see the window.postMessage method in annex B) to communicate with another application, any action carried out in response to the message SHALL take place in the security context of the application to which the message was sent.

In section 4.4.7

As defined in Annex B bullet "Changes to 5.4", the OITF SHALL support the window.postMessage() method for cross-document messaging as defined in [HTML5].

is changed to

As defined in annex B, the OITF SHALL support the window.postMessage() method for cross-document messaging.

7.20 The <ipBroadcast> attribute of the <recording> element

In section 9.3.3,

The boolean attribute ipBroadcast specifies whether or not the OITF also supports recording of A/V content broadcasted over IP,

is changed to

The boolean attribute ipBroadcast specifies whether or not the OITF also supports recording of A/V content broadcasted over IP (using the mechanisms for Scheduled Content defined in [OIPF_PROT])

7.21 Renaming CatalogueCollection

In section 7.5.2, the following text is added;

NOTE: In the release 2 specification, this has been renamed to ContentCatalogueCollection.

7.22 'private' property

In the description of the privateData property, it says;

If the application accessing the private property is not the current application, the OITF SHALL throw an error with the message property set to the value "SecurityError".

"the private property" should be "the privateData property"

7.23 ‘Status’ property is actually ‘state’

In section 7.4.3.3, in the definition of createFilteredList in oipfDownloadManager, it refers to the ‘status’ property of the Download object which doesn’t exist. This property is called ‘state’.

7.24 More Metadata API Updates

In section 7.12.2, in the Table 11 “Metadata search states (normative)”, the following note is added at the end of the description of the Searching state;

NOTE: Calling getResult() when in the searching state may be used to fetch a group of items starting at a different offset or with a different count.

In section 7.12.4.1,

Firstly the description of the length property of the SearchResults class has

- "The number of items in the currently available results" replaced with "The number of items in the current window within the overall result set." and

- the following appended on to the end of the description;

“If the current window onto the result set is in fact the whole result set then length will be the same as totalSize. Otherwise length will be less than totalSize.”

Secondly the third paragraph of the class description has “and a MetadataSearch event notifying the application that results are available has been dispatched” inserted as shown underlined below.

The set of results SHALL only be valid if a call to getResult() has been made and a MetadataSearch event notifying the application that results are available has been dispatched. If this method has not been called, the set of results SHALL be empty (i.e. the value of the totalSize property SHALL be 0 and calls to item() SHALL return undefined).

7.25 Clarification of MIME types for isObjectSupported method

In section 7.1.1, in the description of the mimeType argument of the isObjectSupported method, the description of the argument is changed from

The mimeType may have any of the MIME types defined in tables 1 to 4 of [OIPF_MEDIA2] or any of the DAE defined mime types listed below

To

The value of this argument SHALL be any of the MIME types defined in tables 1 to 4 of [OIPF_MEDIA2] or any of the DAE defined mime types listed below

8 Errata for Volume 6 – Procedural Application Environment

None.

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

9.1 Aligning parental_control_info with DAE API changes

The following changes are made in section 4.2.3.4.1.1.5, “parental_control_info”;

- In the prototypes of the onParentalRatingChange and onParentalRatingError events, the rating argument has have its type changed from ParentalRating to ParentalRatingCollection.
- The description of the issued event has text inserted describing it as a ParentalRatingCollection filled with a single ParentalRating object.

The final text with both of these applied is shown below (with insertions underlined).

The prototype of the onParentalRatingChange and onParentalRatingError events defined in [OIPF_DAE2] are recalled here:

function onParentalRatingChange(String contentID, ParentalRatingCollection ratings, String DRMSystemID, Boolean blocked)

function onParentalRatingError(String contentID, ParentalRatingCollection ratings, String DRMSystemID)

The OITF SHALL set the attributes of the issued event as follows:

- the contentId attribute is set to null or undefined.
- the ratings attribute (ParentalRatingCollection object) is filled with a single ParentalRating object. This ParentalRating object is initialized as follows: