GEM 1.0.2 Errata #1

1. Introduction

This document lists solutions for those errors in the GEM 1.0.2 specification (ETSI TS 102 819 V1.3.1) which DVB has considered and where agreement has been reached on a solution. The solutions are separated into two categories: Minor Technical Issues, and Editorial and Informative Changes. Changes are identified by their issue number from the DVB project’s MHP Umbrella Group (MUG) issue database which is accessible to members of the DVB project and to organizations that have a liaison agreement with DVB-MUG. This database contains the original problem report that motivated each change.

At the time of this writing, the DVB project has not decided when or if to publish a version 1.0.3 of the GEM specification. Publishing a new version of GEM is generally triggered by a request from one or more organizations with a liaison arrangement with the MUG.

2. Minor Technical Issues

2.1 Clause 11

2.1.1 Issues 164 and 165

In clause 11.4, “Presentation APIs”, org.davic.media.FreezeControl shall be considered to not be present in the bulleted list of classes that are not required to be present. The following text shall be considered to be present after this bulleted list:

For the packaged media target, the following classes are required by MHP [1], clause 11.4.2.5.2 but are not required by the present document:

• org.davic.media.FreezeControl
• org.davic.media.MediaFreezeException

2.1.2 Issue 166

In clause 11.7.7, “Common error reporting”, the text:

Support for the interface NotAuthorizedInterface and the exception NotAuthorizedException is not required for GEM terminal specifications that do not include the MHP conditional access API

shall be considered to be replaced by:

NotAuthorizedInterface and NotAuthorizedException are required to be present for GEM terminal specifications that include the section filter API. However, for GEM
terminal specifications that do not include the MHP conditional access API, NotAuthorizedException shall not be generated by the platform.

NOTE: In such terminal specifications, there is consequently no mechanism for obtaining a platform object that implements NotAuthorizedInterface.

Clause 11.4, “Presentation APIs”, shall be considered to have the following text appended:

The following class is required by MHP[1], clause 11.4.2.5.2 but is only required by the present document for terminal specifications that do include the MHP conditional access API:

• org.davic.media.NotAuthorizedMediaException

2.1.3 Issue 168

In clause 11.7.6, “Content referencing”, in the first paragraph the text:

The DAVIC class DvbLocator is not required by the present document.

shall be considered to be replaced by:

The DAVIC package org.davic.net.dvb is not required by the present document.

2.1.4 Issue 171

In clause 11.7.7, “Common error reporting”, the following paragraph is considered to be appended:

Support for the exception TunerException is not required for GEM terminal specifications that do not include the MPEG-2 Section Filter API.

2.2 Clause 15

2.2.1 Issue 172

In clause 15.0, “General”, the row of table 7 for the area “Data Access” and specification “11.5.5, ‘Mid-Level Communications API’ as modified by 11.5, ‘Data access APIs’”, both “-“ entries for the enhanced profiles shall be considered to read “O”.

NOTE: This means that the org.dvb.net.rc package may optionally be present, and may be required to be present in the enhanced profile(s) of GEM terminal specifications.
2.2.2 Issue 178

In clause 15.0, “General,” the following text at the bottom of table 7 shall be considered to not be present:

NOTE: The `javax.tv.graphics.TVContainer.getRootContainer` method shall return an instance of `org.havi.ui.HScene` or null.

2.3 Annex A

2.3.1 Issue 152

In clause A.1, “Errata to MHP,” add new clause:

A.1.4 `org.dvb.io.persistent.FileAttributes` class

In `org.dvb.io.persistent.FileAttributes`, the following constructor shall be considered to be present;

/**
 * Constructor.
 *
 * @param expiration_date an expiration date or null
 * @param p the access permissions to use
 * @param priority the priority to use in persistent storage
 *
 */
public FileAttributes(Date expiration_date, FileAccessPermissions p, int priority) {}

2.3.2 Issue 174

In clause A.1, “Errata to MHP,” add new clause:

A.1.5 `org.davic.media.LanguageControl` class

In clause A.6.6.4, “LanguageControl”

a) insert a new heading immediately following this heading as follows:

A.6.6.4.1 Class description

b) Insert the following additional clause

A.6.6.4.2 selectLanguage(String)

The following additional text shall be considered to form part of the description of this method;
When this method returns normally, the language will have been synchronously selected.

2.3.3 Issue 177

In clause A.1, “Errata to MHP,” add new clause:

A.1.6 application_id range for unsigned applications

In clause 10.5.1, “Encoding”, table 12, “Table 12 : Value ranges for application_id”,
a) in the row “Application_ids for unsigned applications”, in the cell “application_id values”, the text “0x0000...0x3fff” shall be considered to read “0x0001...0x3fff”
b) a new row shall be considered to be added immediately after the heading as follows;

0x0000 shall not be used

2.3.4 Issue 181

In clause A.1, “Errata to MHP,” add new clause:

A.1.7 Permission Request File grantoridentifier

In clause 12.6.2.6, in table 55, in the “grantoridentifier” row, the “comments” column shall read;

This element contains the 32 bit organization id identifying the grantor organization. The encoding of the CDATA attribute id of this element is “0x” followed by the encoding defined in 14.5, "Text encoding of application identifiers" on page 222.

2.4 Annex U

2.4.1 Issue 183

In Annex U, “Extended Graphics APIs”, the following text:

MHP [1], annex U is included in the present document.

Is considered to be replaced with:

MHP [1], annex U is included in the present document with the following notes and modifications.

U.1 org.dvb.net.tuning.DvbNetworkInterfaceSIUtil
The following text is considered to be appended:

U.2 org.dvb.ui.DVBGraphics.setXORMode()

The following behavior is specified in MHP clause U in the documentation for the class org.dvb.ui.DVBGraphics:

- Calling setXORMode on an instance of this class shall be equivalent to calling setDVBComposite with a special and implementation dependent DVBAppearanceComposite object which implements the semantics specified for this method in the parent class.

- Calling getDVBComposite when setXORMode is the last DVBComposite set shall return this implementation dependent object. Conformant MHP applications shall not do anything with or to this object including calling any methods on it.

This behavior is not required for GEM terminals, and GEM applications shall not rely on this behavior.

3. Editorial and Informative Changes

3.1 Clause 7

3.1.1 Issue 173

In clause 7.3, “Resident fonts”, the following note is considered to be appended:

NOTE: java.awt requires that a default font be available, but does not specify what it is. It is recommended that applications explicitly specify a known font for consistent results.

3.2 Clause 11

3.2.1 Issue 170

In clause 11.3, “Fundamental DVB-J APIs”, the text:

MHP [1], clause 11.3.2.1 contains a reference to the class org.davic.net.dvb.DVBLocator. This class is not required by GEM. For GEM terminal specifications that do not include the MHP definition of the functional equivalent named "Content Referencing" as defined in clause 15.6, "Functional Equivalents," this is to be interpreted as allowing a valid locator as described in the following two paragraphs.

Shall be considered to not be present.
NOTE: The referenced version of MHP no longer contains a clause 11.3.2.1.

3.2.2 Issue 180

In clause 11.5.1, “Broadcast Transport Protocol Access API”, the text:

NOTE 1: Absolute and relative paths may be used in accordance with the APIs concerned, e.g. java.io.File and java.net.URL when used with a "file://" string.

Shall be considered to be replaced by:

NOTE 1: Absolute and relative paths may be used in accordance with the APIs concerned, e.g. with java.net.URL (when used with a "file://" string prefix) and with java.io.File.

3.3 Clause 14

3.3.1 Issue 167

In clause 14.9, “Service identification”, the text:

    org.davic.net.DvbNetworkBoundLocator

shall be considered to be replaced by

    org.davic.net.dvb.DvbNetworkBoundLocator

3.4 Annex C

3.4.1 Issue 187

In clause C.2, “Other informative references” in informative reference [C] the text:

NOTE: http://www.blu-raydisc.com/Section-13890/Index.html

shall be considered to be replaced with:


3.5 Annex P

3.5.1 Issue 160

In clause P.2.0, “General”, the text:

A small number of the MHP methods are not required in GEM terminal specifications. Additionally,

shall be considered to not be present.
3.5.2 Issue 176

In clause P.1, “Overview”, the method names in the bulleted lists shall be considered to start with “DSMCCObject.”

In clause P.2.1, “DSMCCObject”, the following note shall be considered to be appended:

    NOTE: See also the semantic limitations on methods of this class under certain conditions specified in clause P.1