

## GEM 1.0.3 Errata #1

### 1. Introduction

This document lists solutions for those errors in the GEM 1.0.3 specification (ETSI TS 102 819 V1.4.1) which DVB has considered and where agreement has been reached on a solution.

The solutions are separated into two categories: 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 successor version to the GEM 1.0.3 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.

This document focuses on changes that were introduced between GEM 1.0.2 (including the latest corrigenda document) and GEM 1.0.3.

### 2. Technical Issues

#### 2.1 MUG issue 288 - Annex A.1.1 MHP Errata Document

*The existing section:*

##### A.1.1 MHP Errata Document

The errata in tm2971r2 [2] shall apply, with the following exceptions:

- The change in tm2971r2 clause 4.15.1 (issue 4293, "VideoFormatControl" places an extra requirement on MHP terminals that is optional for GEM terminal specifications.
- The change in tm2971r2 clause 4.18.6 (issue 4258, "AppProxy destroyed behavior") is optional for GEM terminal specifications.
- The change in tm2971r2 clause 4.20.1 (issue 4289, "DVbTextLayoutManager") is optional for GEM terminal specifications.

The change in tm2971r2 clause 4.7.6 (issue 4049, "HScene Issue") is optional for GEM terminal specifications.

The change in tm2971r2 clause 4.7.6 (issue 4258, "App Proxy") should be replaced with the following for GEM terminal specifications.

In the class description for `AppProxy.DESTROYED`, the following text:

The application is in the destroyed state. This state is transient and entry to this state shall be followed with a transition to the `NOT_LOADED` state almost immediately. It shall be possible to re-start the application after the transition to the `NOT_LOADED` state.

is replaced with;

An `AppProxy` for a terminated application is no longer usable, An `AppProxy` instance should be considered invalid, once it was in the `AppProxy.DESTROYED` state.

NOTE: If a terminated application needs to be restarted, an `AppProxy` for a new application instance may be obtained from the `AppsDatabase`.

*is replaced with:*

#### A.1.1 MHP Errata Document

The MHP errata#3 in tm2971r2 [2] shall apply, with the following exceptions:

tm2971r2, issue 4293, "VideoFormatControl"

The change in tm2971r2 clause 4.15.1 (issue 4293, "VideoFormatControl") places an extra requirement on MHP terminals that is optional for GEM terminal specifications.

tm2971r2, issue 4289, "DVbTextLayoutManager"

The change in tm2971r2 clause 4.20.1 (issue 4289, "DVbTextLayoutManager") is optional for GEM terminal specifications.

tm2971r2, issue 4049, "HScene Issue"

The change in tm2971r2 clause 4.7.6 (issue 4049, "HScene Issue") is optional for GEM terminal specifications.

tm2971r2, issue 4258, "AppProxy destroyed behavior"

The change in tm2971r2 clause 4.18.6 (issue 4258, "AppProxy destroyed behavior") is optional for GEM terminal specifications.

If the change in tm2971r2 clause 4.18.6 (issue 4258, "App Proxy") is applied, it should be replaced with the following for GEM terminal specifications.

In the class description for `AppProxy.DESTROYED`, the following text:

The application is in the destroyed state. This state is transient and entry to this state shall be followed with a transition to the `NOT_LOADED` state almost immediately. It shall be possible to re-start the application after the transition to the `NOT_LOADED` state.

is replaced with;

An AppProxy for a terminated application is no longer usable, An AppProxy instance should be considered invalid, once it was in the AppProxy.DESTROYED state.

NOTE: If a terminated application needs to be restarted, an AppProxy for a new application instance may be obtained from the AppsDatabase.

## 2.2 MUG issue 289 - Annex A.1.4 org.dvb.io.persistent.FileAttributes class

*The existing section:*

### 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) {}
```

*is augmented with the following note:*

NOTE: This public constructor is provided to provide compatibility with existing implementations. Use of this public constructor is deprecated and it is recommended to consider the visibility of this constructor to be protected.

## 3. Editorial and Informative Changes

### 3.1 MUG issue 290 - Annex A.1.1 MHP Errata Document

*The following clauses are added to the end of the existing section:*

tm2971r2, issue 4301, "Service Domain"

The change in tm2971r2 clause 5.24.6 (Issue 4301, "Service Domain") shall read:

#### 5.24.6 Issue 4301

- a) In org.dvb.dsmcc.InvalidPathNameException, the following sentence;  
The InvalidPathNameException is thrown when the path name to a DSMCCObject does not exist or if the ServiceDomain has been detached.

shall be considered to be replaced with;

The `InvalidPathNameException` is thrown when the path name to a `DSMCCObject` does not exist or if the service domain is **not attached**.

b) In `org.dvb.dsmcc.DSMCCObject`, all instances of “the serviceDomain is not in an attached state”

shall be considered to be replaced with “the service domain is not in an attached state”.

### 3.2 MUG issue 291 - Annex A.1.1 MHP Errata Document

*The following clause is added to the end of the existing section:*

tm2971r2, issue 3735,

In tm2971r2 clause 5.24.6 (Issue 4301, "Broadcast Channel Protocols") the table reference should be 65 instead of 64.