Enabler Test Report

Digital Rights Management v2.1

OMA TestFest (January 2008)
Version 1st February 2008

Open Mobile Alliance
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Contents

1. Scope

This report describes the results from the testing carried out at OMA TestFest-22 (January 2008) concerning the Digital Rights Management Version 2.1 Enabler.

2. References

2.1 Normative References

[IOPPROC]	OMA Interoperability Policy and Process, http://www.openmobilealliance.org/
[RFC2119]	"Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997, URL:http://www.ietf.org/rfc/rfc2119.txt
[ERELD]	Enabler Release Definition for Digital Rights Management, OMA-ERELD-DRM-V2_1-20070724-C, http://www.openmobilealliance.org/
[DRM_SPEC]	Enabler Release Package for Digital Rights Management, OMA-ERP-DRM-V2_1-20070724-C, http://www.openmobilealliance.org/
[EVP]	Enabler Validation Plan for Digital Rights Management, OMA-EVP-DRM-V2_1-20070831-C, http://www.openmobilealliance.org/
[ETS]	Enabler Test Specification for Digital Rights Management (Interoperability), OMA-ETS-DRM_INT-V2_1-20070831-C, http://www.openmobilealliance.org/
[DRM_EICS]	Enabler Implementation Conformance Statements, OMA-EICS-Client-DRM-V2_1-20070724-A, and OMA-EICS-Server-DRM-V2_1-20070724-A; URL:http://www.openmobilealliance.org/

2.2 Informative References

[OMADICT]	Dictionary for OMA Specification, OMA-Dictionary http://www.openmobilealliance.org/
[OMAADDRM]	http://www.openmobilealliance.org/

3. Terminology and Conventions

3.1 Conventions

This is an informative document, i.e. the document does not intend to contain normative statements.

3.2 Definitions

Asset	Content governed by rights. See DRM content.
Combined delivery	Delivery of the rights object and content together in a single message. See DRM message.
Composite object	A DCF that contains one or more DCFs by means of inclusion e.g. DRM messages, zip files.
Content	A DCF
DRM Agent	A mobile device consuming DRM content.
DRM agent	A user agent in the device that enforces the rights and controls the consumption of DRM content on the device.
DRM content	Content that is consumed according to a set of rights. DRM content may be in encrypted DRM Content Format or in plaintext delivered inside a DRM message
DRM message	A message containing a DCF and an optional rights object. DCFs received inside a DRM message must not leave the device. The optional rights object defines additional consumption rules for the DCF.
Forward-lock	A special case of combined delivery method where the DRM message includes only the DCF and not a rights object at all. A set of default rights applies for the DCF.
DCF	A digital resource e.g. a ringing tone, a screen saver, a Java game or a composite object.
Media type	A MIME media type.
Rights	Permissions and constraints defining under which circumstances access is granted to DRM content.
Rights issuer	An entity who issues rights objects.
Rights object	An instance of rights
Separate delivery	Delivery of the rights object and content via separate transports.
Superdistribution	A mechanism that (1) allows the end user to redistribute the encrypted DRM content to other end users through potentially insecure channels and (2) enables the receipients to obtain initial rights for the superdistributed DRM content.
TestFest	Multi-lateral interoperability testing event
Trusted Zone	An OMA staff function to provide a neutral confidential information and results collection service to OMA Members. The Trusted Zone is responsible for all reports resulting from an OMA Test Event and to ensure that all general reports cannot attributed to any one individual participating company

3.3 Abbreviations

CEK	Content Encryption Key
DCF	DRM Content Format
DRM	Digital Rights Management
EICS	Enabler Implementation Conformance Statement
ERELD	Enabler Release Definition
ERP	Enabler Release Package

ETG	Enabler Test Guidelines
ETS	Enabler Test Specification
EVP	Enabler Validation Plan
HTTP	Hypertext Transfer Protocol
INC	Inconclusive
MIME	Multipurpose Internet Mail Extensions
N/A	Not Applicable
OMA	Open Mobile Alliance
OT	Out of Time
PR	Problem Report
RD	Requirements Document
REL	Rights Expression Language
RI	Rights Issuer
RO	Rights Object
ROAP	Rights Object Acquisition Protocol
SCR	Static Conformance Requirement
TC	Test Case
URI	Universal Resource Identifier
WAP	Wireless Application Protocol
WSP	Wireless Session Protocol

4. Summary

This report gives details of the testing carried out during the OMA TestFest-22 (January 2008) for Digital Rights Management (DRM) v2.1.

The report is compiled on behalf of OMA by the OMA Trusted Zone.

The work and reporting has followed the OMA IOP processes and policies [IOPPROC].

5. Test Details

5.1 Documentation

This chapter lists the details of the enabler and any documentation, tools or test suites used to prove the enabler.

Date:	18th to 25th January 2008
Location:	Montréal, Canada
Enabler:	Digital Rights Management v2.1
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-server
Test Guidlines:	DRM Enabler Validation Plan - OMA-EVP-DRM-V2_1-20070831-C [EVP]
Test Specification:	DRM Enabler Test Specification - OMA-ETS-DRM_INT-V2_1-20070831-C [ETS]
Test Tool:	None
Test Code:	None
Type of Test event:	TestFest
Participants:	4
Number of Client Implementations:	2
Participating Technology Providers for clients:	Irdeto *plus 1 other participant.*
Implementation IDs for each client:	OMA DRM Client 2.1 *plus 1 other implementation*
Number of Server Implementations:	2
Participating Technology Providers for servers:	2 Servers
Implementation IDs for each server:	2 implementations
DRM v2.0 Compatibility Testing Participants	Irdeto and 3 other participants
Number of test sessions completed:	24

Table 1. Test Information

5.2   Test Case Statistics

5.2.1   Test Case Summary

This chapter gives an overview of the result for all test cases included in [ETS].

The following status is used in the tables below:

- Total number of TCs: Used in the summary to indicate how many test cases there are in total.

- Number of passed: Used in the summary to indicate how many of the total testcases that successfully has been passed.

- Number of failed: Used in the summary to indicate how many of the total testcases that has failed.

- Number of N/A: Used in the summary to indicate how many of the total testcases that has not be run due to that the implementation(s) do not support the functionality required to run this test case.

- Number of OT: Used in the summary to indicate how many of the total testcases that has not be run due to no time to run the test case.

- Number of INC: Used in the summary to indicate how many of the total testcases that has not been run due to that the functionality could not be tested due to an error in the implementation in another functionality that is required to run this test case.

Test Section:	Number of test sessions:	Total number of TCs:	Number of Passed:	Number of Failed:	Number of N/A:	Number of OT:	Number of INC:	Total:
Client to Server TCs	4	83	122	13	147	48	2	332
Client to Server Backward Compatibility TCs	8	3	24	0	0	0	0	24
Client to Server to Client Backward Compatibility TCs	12	1	8	4	0	0	0	12
Total	24	87	**154**	**17**	**147**	**48**	**2**	**368**

Table 2. Test Summary Table

5.2.2   Test Case List

This chapter lists the statistics for all all interoperability test cases included in [ETS].

The following status is used in the tables below:

- **Runs (R)**: Used to indicate the total number of times the test case have been run (R = P + F + I).

- **Pass (P):** Used to indicate how many times the test case have been run and successfully passed.

- **Fail (F):** Used to indicate how many times the test cases have been run and failed (used when the failure reason is known).

- **Inconclusive (I)**: Used to indicate how many times the test cases have been run and did not pass due to other nature than conclusive implementation or specification failure (e.g.: the failure reason cannot be clearly determined).

- **Not Applicable (N/A):** Used to indicate how many times the test cases have not be run due to lack of support for the required functionality to run this test case by one or more involved implementations.

- **Out of Time (O):** Used to indicate how many times the test cases have not been run due to lack of time.

- **Problem Report (PR):** Used to indicate how many PRs have been issued for the test case.

- **Note:** Used to indicate the cause of the Inconclusive or Failed results.

Tests for Digital Rights Management TestFest Taken From ETS OMA-ETS-DRM_INT-V2_1-20070831-C

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
DRM-2.1-int-001	To test "Forward Lock" DRM 1.0 functionality.	4	4	0	0	0	0		
DRM-2.1-int-002	To test DRM 1.0 "Combined Delivery" functionality.	4	4	0	0	0	0		
DRM-2.1-int-003	To test DRM 1.0 "Separate Delivery" functionality in case the DCF file indicates that the server intends to push the rights object separately.	1	1	0	0	0	3		
DRM-2.1-int-004 (A)	To test that a DRM 2.1 Agent can register, acquire rights and consume content from a DRM 2.0 Rights Issuer.	4	4	0	0	0	0		
DRM-2.1-int-004 (B)	To test that a DRM 2.0 Agent can register, acquire rights and consume content from a DRM 2.1 Rights Issuer.	4	4	0	0	0	0		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
DRM-2.1-int-005 (A)	To test that a DRM 2.1 Agent can join a domain, acquire rights and consume a DCF from a DRM 2.0 Rights Issuer.	4	4	0	0	0	0		
DRM-2.1-int-005 (B)	To test that a DRM 2.0 Agent can join a domain, acquire domain rights and consume a DCF from a DRM 2.1 Rights Issuer. Also to test that a DRM 2.1	4	4	0	0	0	0		
DRM-2.1-int-006 (A)	To test that a DRM 2.0 Domain Rights Object can be superdistributed and used between a DRM 2.0 and DRM 2.1 DRM Agent.	6	4	2	0	0	0		
DRM-2.1-int-006 (B)	To test that a DRM 2.1 Domain Rights Object can be superdistributed between a DRM 2.0 and DRM 2.1 Agent.	6	4	2	0	0	0		
DRM-2.1-int-007 (A)	To test that a DRM 2.1 Agent can leave a domain from a DRM 2.0 Rights Issuer.	4	4	0	0	0	0		
DRM-2.1-int-007 (B)	To test that a DRM 2.0 Agent can leave a domain from a DRM 2.1 Rights Issuer.	4	4	0	0	0	0		
DRM-2.1-int-008	Test the 4-pass ROAP Registration protocol. The DRM Agent will register with the RI and then complete 2-pass RO Acquisition to prove that the registration was processed successfully.	4	4	0	0	0	0		
DRM-2.1-int-009	Test the 4-pass Registration protocol when there is already an RI Context stored on the device, and a device context stored on the RI. RO Acquisition is used to prove that the re-registration is succesfull.	4	4	0	0	0	0		
DRM-2.1-int-010	RO Acquisition without existing RI Context	4	4	0	0	0	0		
DRM-2.1-int-011	1-pass RO Acquisition with existing RI Context.	2	2	0	0	0	2		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
DRM-2.1-int-012	1-pass RO Acquisition without existing RI Context.	2	2	0	0	0	2		
DRM-2.1-int-013	Test the 4-pass confirmed ROAP RO acquisition protocol. The DRM Agent will receive an RO from the RI via the 2-pass protocol and then confirm receipt of the RO using an additional 2 steps.	2	1	1	0	0	2		
DRM-2.1-int-014	Test the 4-pass confirmed ROAP RO acquisition protocol. The DRM Agent will receive an RO from the RI via the 2-pass protocol and then confirm receipt of the RO using an additional 2 steps.	1	0	1	0	0	3		
DRM-2.1-int-015	To test RO Acquistion in the case that the ROAP Trigger refers to multiple Rights Objects.	2	1	1	0	0	2		
DRM-2.1-int-016	To test the 2-pass Device Identification protocol	1	1	0	0	0	3		
DRM-2.1-int-017	Server-initiated Device Time Synchronization	4	3	1	0	0	0		
DRM-2.1-int-018	To test that a DRM Agent can correctly upload a stateless RO to an RI by a device initiated 2-pass RO Upload protocol and that the RI can correctly re-issue such RO to another device belonging to the same user.	0	0	0	0	0	4		
DRM-2.1-int-019	To test that a DRM Agent can correctly upload a stateful RO (including current State Information) to an RI by a device initiated 2-pass RO Upload protocol and that the RI can correctly re-issue such RO (including current State Information) to another device belonging to the same user. The test uses an RO with multiple permissions and multiple assets to test the correct assosciation of constraints and their state information during upload and re-issue..	0	0	0	0	0	4		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
DRM-2.1-int-020	To test that a DRM Agent can correctly upload multiple ROs (stateful and stateless) to an RI by a device initiated 2-pass RO Upload protocol and that the RI can correctly re-issue such ROs and corresponding State Information to another device belonging to the same user.	0	0	0	0	0	4		
DRM-2.1-int-021	To test that an RI can issue an roUpload Trigger and that the DRM Agent can initiate the 2-pass RO Upload protocol in accordace with the trigger. The DRM Agent should upload all valid ROs to the RI.	0	0	0	0	0	4		
DRM-2.1-int-022	To test a situation where an RO is included in the DCF.	2	2	0	0	0	2		
DRM-2.1-int-023	To test behaviour in the presence of a group RO for multiple DCFs, using the Group ID mechanism.	2	2	0	0	0	2		
DRM-2.1-int-024	To test behaviour in the presence of an individual RO for a content item which has a Group ID.	2	1	1	0	0	2		
DRM-2.1-int-025	To test behaviour in the presence of several rights objects for one piece of content.	4	4	0	0	0	0		
DRM-2.1-int-026	To test behaviour in the presence of several rights objects for one piece of content.	4	4	0	0	0	0		
DRM-2.1-int-027	To test DRM Agent's capability to process Multipart DCFs from the RI.	1	1	0	0	0	3		
DRM-2.1-int-028	To test behaviour in the presence of multiple ROs for a multipart DCF.	1	1	0	0	0	3		
DRM-2.1-int-029	To test behaviour when different content items in a multipart DCF are associated with different groups	1	1	0	0	0	3		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
DRM-2.1-int-030	To test the CID referencing mechanism when referencing multipart objects. The DCF user data CoverURI or LyricsURI are used as a reference point for the test.	0	0	0	0	0	4		
DRM-2.1-int-031	To test the Content Location referencing mechanism when referencing multiple objects in a multipart DCF. The DCF preview-header with a method of "instant" is used a reference point for this test.	1	1	0	0	0	3		
DRM-2.1-int-032	To test "Superdistribution" functionality. The protected content is sent from one DRM Agent to another. The rights object is obtained by ROAP session to the rights issuing service.	4	4	0	0	0	0		
DRM-2.1-int-033	To test the TransactionID mechanism in connection with Superdistribution.	2	2	0	0	0	2		
DRM-2.1-int-034	To test <count> constraint for a DCF.	4	4	0	0	0	0		
DRM-2.1-int-035	To test <timed-count> constraint for a DCF.	2	2	0	0	0	2		
DRM-2.1-int-036	To test <datetime> constraint for a DCF.	4	4	0	0	0	0		
DRM-2.1-int-037	To test <interval> constraint for a DCF.	4	4	0	0	0	0		
DRM-2.1-int-038	To test <accumulated> constraint for a DCF.	4	4	0	0	0	0		
DRM-2.1-int-039	To test <individual> constraint for a DCF.	2	2	0	0	0	2		
DRM-2.1-int-040	To test <system> constraint for a DCF.	2	2	0	0	0	2		
DRM-2.1-int-041	To test the effect of having multiple constraints.	2	2	0	0	0	2		
DRM-2.1-int-042	To test the REL Permission Model in the case that the rights include a stateful top level constraint.	2	2	0	0	0	2		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
DRM-2.1-int-043	To test the REL Expression Linking method.	1	1	0	0	0	3		
DRM-2.1-int-044	To test the REL <tracked> element and the 2-pass Metering Report protocol.	4	3	1	0	0	0	0040	Note001
DRM-2.1-int-045	To test the REL <tracked> contentAccessGranted attribute.	2	1	1	0	0	2		
DRM-2.1-int-046	To test the REL <tracked> timed attribute.	4	2	2	0	0	0		Note001
DRM-2.1-int-047	To test the REL <permission>s onExpiredURL's usage to initiate sending of a Metering Report.	0	0	0	1	0	3		
DRM-2.1-int-048	To test that the RI can issue Parent Rights with <tracked> requirement; and that the DRM agent can accurately record metering information for the relevant metered content – as referenced by the child ROs.	3	2	1	1	0	0		Note001
DRM-2.1-int-049	Initiate ROAP from DCF Preview Header with existing RI Context & domain name NOT in Domain Name Whitelist.	1	1	0	3	0	0		
DRM-2.1-int-050	Initiate ROAP from DCF Preview Header with existing RI Context & domain name in the Domain Name Whitelist.	1	1	0	3	0	0		
DRM-2.1-int-051	Initiate ROAP from DCF Silent Header with existing RI Context and domain name is in the Domain Name Whitelist.	1	1	0	3	0	0		
DRM-2.1-int-052	To test inheritance model when stateful constraints are involved.	2	2	0	2	0	0		
DRM-2.1-int-053	To test a case where the Parent Rights Object	2	2	0	2	0	0		
DRM-2.1-int-054	To test inheritance model when a child RO is a group RO	1	1	0	1	0	2		
DRM-2.1-int-055	Trigger-initiated domain join without existing RI Context	2	2	0	2	0	0		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
DRM-2.1-int-056	To test that the RI correctly specifies the Domain noConsumeAfter attribute in a JoinDomainResponse; and that the DRM Agent correctly enforces that Domain ROs are not consumable after the noConsumeAfter date.	0	0	0	1	0	3		
DRM-2.1-int-057	Automatically-initiated domain upgrade with valid RI Context and existing Domain Context for this RI A Domain RO is delivered before the DRM Agent has upgraded the domain.	2	2	0	2	0	0		
DRM-2.1-int-058	Trigger-initiated domain join with valid RI Context and existing Domain Context for this RI RI-initiated domain generation upgrade	2	1	1	2	0	0		
DRM-2.1-int-059	Domain RO Acquisition with existing RI Context.	2	2	0	2	0	0		
DRM-2.1-int-060	To test delivering the Domain RO inside a DCF.	2	2	0	2	0	0		
DRM-2.1-int-061	To test if different devices related with the same domain are able to share DCFs.	2	2	0	1	0	1		
DRM-2.1-int-062	Device leaves a domain after receiving a LeaveDomain trigger.	2	2	0	2	0	0		
DRM-2.1-int-063	To test that the content packaging server can insert User-Data such as title, author, etc into a DCF and that the DRM Agent can read that meta data.	0	0	0	2	0	2		
DRM-2.1-int-064	To test that a content packaging server can add a User-Data box within the Mutable DRM Information box of a DCF and that the DRM Agent can read that meta data, update it and display it in-place of the meta data in the DCF discrete media headers.	0	0	0	0	0	4		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
DRM-2.1-int-065	To test the WBXML encoding of the RO Acquisition Trigger and delivery via WAP Push	2	0	1	2	1	0		
DRM-2.1-int-066	To test the WBXML encoding of the Leave Domain Trigger	2	0	1	2	1	0		
DRM-2.1-int-067	Device registration and domain establishment for Unconnected Device.	0	0	0	0	0	4		
DRM-2.1-int-068	RO Acquisition with existing RI Context.	0	0	0	0	0	4		
DRM-2.1-int-069	Unconnected Device leaving domain.	0	0	0	0	0	4		
DRM-2.1-int-070	RO Acquisition without existing RI Context	0	0	0	0	0	4		
DRM-2.1-int-071	To test Datetime constraints with an unconnected device that does not have a time source (i.e. a situation where the constraint is not understood and cannot be enforced).	0	0	0	0	0	4		
DRM-2.1-int-072	Tests the capability of the ROAP protocol to choose and communiate the correct device public key in the case that a DRM Agent has two device certificates. This may reflect a scenario where a device is a member of two PKI ecosystems.	2	2	0	2	0	0		
DRM-2.1-int-073	Tests the capability of the ROAP protocol in the case that a Rights Issuer has two RI certificates. This may reflect a scenario where a Rights Issuer support two PKI ecosystems.	2	2	0	2	0	0		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
DRM-2.1-int-074	Tests the capability of the ROAP protocol to allow registration in the case that the RI and Device have certificates from different trust models, but do trust the "other" trust model. Essentially Device has a certificate chain from PKI_A and additionally trusts PKI_B, RI has chain from PKI_B and additionally trusts PKI_A. The RI and Device should be able to trust each other even though they have certificate chains from different trust authorities.	2	2	0	2	0	0		
DRM-2.1-int-075	To test packaging and rendering of a one-track null-encrypted PDCF file (e.g 3GP audio).	0	0	0	0	0	4		
DRM-2.1-int-076	To test packaging and rendering of a one-track encrypted PDCF (e.g audio file).	0	0	0	0	0	4		
DRM-2.1-int-077	To test packaging and rendering of a multi-track encrypted PDCF (e.g. video and audio 3GP file).	0	0	0	0	0	4		
DRM-2.1-int-078	To test PDCF superdistribution, using the Transaction Tracking mechanism.	0	0	0	0	0	4		
DRM-2.1-int-079	To test rendering of a multi-track encrypted PDCF where rights are only available for one of the tracks.	0	0	0	0	0	4		
DRM-2.1-int-080	To test the behaviour in the presence of a group RO for a PDCF, using the GroupID mechanism.	0	0	0	0	0	4		
DRM-2.1-int-081	To test a situation where a Domain RO is included in a PDCF.	0	0	0	0	0	4		
DRM-2.1-int-082	To test packaging, streaming and rendering of a one-track PDCF.	0	0	0	0	0	4		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
DRM-2.1-int-083	To test SDP intitated Rights Object acquisition; and the subsequence packaging, streaming and rendering of a one-track PDCF (SelectiveEncryption enabled).	0	0	0	0	0	4		
DRM-2.1-int-084	To test a multi-track PDCF streamable packaging and rendering, SelectiveEncryption enabled. Some packets are encrypted and others are unencrypted.	0	0	0	0	0	4		
DRM-2.1-int-085	To test the usage of the multipart/related MIME format to deliver a DCF and a ROAP Trigger together in a single response.	2	2	0	2	0	0		
DRM-2.1-int-086	To test the usage of OMA Download OTA 1.0 co-delivery method to deliver a Download Descriptor and a ROAP Trigger in a single multipart. The download descriptor nextURL is used to deliver the content. Installation notification is confirmed	2	2	0	2	0	0		
DRM-2.1-int-087	To test the processing of a ROAP response PDU contained within in a multipart/related message-body. Additionally tests the usage of OMA Download OTA 1.0 co-delivery method to deliver a Download Descriptor and a ROAP Trigger in a single multipart.	2	2	0	2	0	0		

Table 3. Test Case Counts

Notes:-

001	Spec implementation ambiguity Server testcase not supported

5.3   Problem Reports

During the activities for TestFest-22, the following problem reports were generated relating to the test materials and test process:

PR Number	Affecting	Description	Test Case reference / Specification reference
038	OMA-TS-DRM_REL-V2_1-20070919-C	REL spec refers to 'tracked' element in both o-dd and oma-dd namespace.	5.5.1, 5.5.2, 5.5.2.1, 5.5.2.2
039	OMA-TS-DRM_REL-V2_1-20070919-C	Error in C.5 Example in REL spec	C.5
040	OMA-TS-DRM_DRM-V2_1-20070625-D	Invalid char '#' in attribute Id in element encKey in parent element meteringReport in DRM2.1 Spec	see appendix G.1.15 MeteringReportSubmit
041	OMA-TS-DRM_DRM-V2_1-20070625-D	Reference to <rawMeteringReport> instead of <rawMeteringReportData> appears to be a typo	11.4

Table 4. Problem Reports

Full details of the Problem Reports can be found at:

http://www.openmobilealliance.org/TestFests/Problem_Reporting.aspx

6. Confirmation

This signature states that the included information is true and valid.

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OMA Trusted Zone

Appendix A.   Change History   (Informative)

Type of Change	Date	Section	Description
Initial Release	1st February 2008	All	First Version from TestFest-22