

## **Enabler Test Report DRM v1.0**

OMA Test Fest (May 2004) Version 04-Jun-2004

Open Mobile Alliance OMA-Enabler\_Test\_Report-DRM-v10-2004-06-04

This document is considered confidential and may not be disclosed in any manner to any non-member of the Open Mobile Alliance<sup>TM</sup>, unless there has been prior explicit Board approval.

This document is a work in process and is not an approved Open Mobile Alliance<sup>TM</sup> specification. This document is subject to revision or removal without notice. No part of this document may be used to claim conformance or interoperability with the Open Mobile Alliance specifications.

© 2004 Open Mobile Alliance Ltd. All rights reserved.

Terms and conditions of use are available from the Open Mobile Alliance™ Web site at <a href="http://www.openmobilealliance.org/copyright.html">http://www.openmobilealliance.org/copyright.html</a>.

You may use this document or any part of the document for internal or educational purposes only, provided you do not modify, edit or take out of context the information in this document in any manner. You may not use this document in any other manner without the prior written permission of the Open Mobile Alliance<sup>TM</sup>. The Open Mobile Alliance authorises you to copy this document, provided that you retain all copyright and other proprietary notices contained in the original materials on any copies of the materials and that you comply strictly with these terms. This copyright permission does not constitute an endorsement of the products or services offered by you.

The Open Mobile Alliance<sup>TM</sup> assumes no responsibility for errors or omissions in this document. In no event shall the Open Mobile Alliance be liable for any special, indirect or consequential damages or any damages whatsoever arising out of or in connection with the use of this information.

This document is not an Open Mobile Alliance™ specification, is not endorsed by the Open Mobile Alliance and is informative only. This document is subject to revision or removal without notice. No part of this document may be used to claim conformance or interoperability with the Open Mobile Alliance specifications.

Open Mobile Alliance<sup>TM</sup> members have agreed to use reasonable endeavors to disclose in a timely manner to the Open Mobile Alliance the existence of all intellectual property rights (IPR's) essential to the present document. However, the members do not have an obligation to conduct IPR searches. The information received by the members is publicly available to members and non-members of the Open Mobile Alliance and may be found on the "OMA IPR Declarations" list at <a href="http://www.openmobilealliance.org/ipr.html">http://www.openmobilealliance.org/ipr.html</a>. Essential IPR is available for license on the basis set out in the schedule to the Open Mobile Alliance Application Form.

No representations or warranties (whether express or implied) are made by the Open Mobile Alliance™ or any Open Mobile Alliance member or its affiliates regarding any of the IPR's represented on this "OMA IPR Declarations" list, including, but not limited to the accuracy, completeness, validity or relevance of the information or whether or not such rights are essential or non-essential.

This document is available online in PDF format at http://www.openmobilealliance.org/.

Known problems associated with this document are published at http://www.openmobilealliance.org/.

Comments regarding this document can be submitted to the Open Mobile Alliance<sup>TM</sup> in the manner published at <a href="http://www.openmobilealliance.org/documents.html">http://www.openmobilealliance.org/documents.html</a>

# Contents

1.	SC	COPE	4
2.	RF	EFERENCES	5
	2.1	NORMATIVE REFERENCES	
_	2.2	Informative References.	5
3.	TE	ERMINOLOGY AND CONVENTIONS	6
3	3.1	CONVENTIONS	6
3	3.2	DEFINITIONS	6
3	3.3	ABBREVIATIONS	6
4.	SU	UMMARY	7
5.	TE	EST DETAILS	8
5	5.1	DOCUMENTATION	8
5	5.2	TEST CASE STATISTICS	
	5.2		
	5.2		10
	5.2		
6.	CO	ONFIRMATION	14
ΑP	PEN	NDIX A. CHANGE HISTORY (INFORMATIVE)	15

# 1. Scope

This report describes the results from the testing carried out at OMA Test Fest (May 2004) concerning DRM enabler version 1.0.

## 2. References

### 2.1 Normative References

[OMAIOPPROC] OMA Interoperability Policy and Process, <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>

[DRMEICS] Enabler Implementation Conformance Statement, OMA DRM 1.0 Enabler Release, Draft

Version 09-Sep-2003, <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>

[ERELD] "Enabler Release Definition for DRM Version 1.0" Open Mobile Alliance™.

OMA-ERELD-DRM-v1\_0. <u>URL:http://www.openmobilealliance.org/</u>

[DL\_SPEC] OMA DRM 1.0 specifications

[EPTR] Enabler Product Test Report

[ETP] Enabler Test Plan

[ETS] Enabler Test Specification for DRM 1.0

Approved Version 1.0, 09-Sep-2003

### 2.2 Informative References

# 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

None.

### 3.3 Abbreviations

DCF DRM Content Format
DRM Digital Rights Management

EICS Enabler Implementation Conformance Statement

EPTR Enabler Product Test Report

ETP Enabler Test Plan

ETS Enabler Test Specification
OMA Open Mobile Alliance
PR Problem Report

# 4. Summary

This report gives details of the testing carried out during the OMA Test Fest (May 2004) for Digital Rights Management version 1.0.

The report is compiled on behalf of OMA by NCC Group.

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

# 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:	May 2004					
Location:	Richardson, Texas, USA					
Enabler:	DRM 1.0					
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]					
Type of Testing	Interoperability Testing					
Products tested:	Client-to-server					
Test Plan:	DRM Enabler Test Plan [ETP]					
<b>Test Specification:</b>	DRM Enabler Test Specification [ETS]					
Test Tool:	None					
Test Code:	None					
Type of Test event:	Test Fest					
Participants:	Beep Science AS CoreMedia Lockstream, Corporation Nokia Philips Software Siemens AG					
Number of Client Products:	4					
Participating Technology Providers for clients:	LockStream OMA DRM Client  Nokia Series 60 DRM Client  Philips Software LifeVibes Trust Client  Siemens X65 Client					
Number of Server Products:	2					
Participating Technology Providers for servers:	Beep Science DRM Server 3.0 CoreMedia DRM for Mobile Services V2.1					
Number of test sessions completed:	8 of 8					

#### 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 test cases successfully passed.
- Number of failed: Used in the summary to indicate how many of the total test cases failed.
- **Number of N/A:** Used in the summary to indicate how many of the total test cases have not been run due to one of the implementations not supporting the functionality required to run this test case.
- **Number of OT:** Used in the summary to indicate how many of the total test cases have not been run due to no time to run the test case.
- **Number of INC:** Used in the summary to indicate how many of the total test cases have not been run due to functionality not being tested due to an error in the implementation or other functionality that is required to run this test case.

Test Section:	Total number of TCs:	Number of Passed:	Number of Failed:	Number of N/A:	Number of OT:	Number of INC:
Client to Server TCs	17	78	1	29	0	28
Total	17	78	1	29	0	28

### 5.2.2 Test Case List

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

The following status is used in the tables below:

- No. of runs(R): Used to indicate how many times the test cases have been run in total.
- No. of passed(P): Used to indicate how many times the test case has been run with successful result.
- No. of failed(F): Used to indicate how many times the test case has been run with failed result
- No. of OT(O): Used to indicate how many times the test case has not been run due to no time available.
- **No. of INC(I):** Used to indicate how many times the test case has not been run due to errors being found in other functionality required for running this test case.
- PR: Used to indicate if any PRs (Problem Reports) have been issued during testing.
- Note: Used to indicate issues with the test cases or specification relating to the test cases.

Test Case:	Test Case Description:	R	P	F	0	I	PR:	Note:
DRM-1.0-int-1	To test "Forward Lock" DRM functionality with "binary" encoding.	8	8	0	0	0		
DRM-1.0-int-2	To test "Forward Lock" DRM functionality with "base64" encoding.	4	3	1	0	0		
DRM-1.0-int-3	To test "Combined Delivery" functionality.	8	8	0	0	0		
DRM-1.0-int-4	To test the behaviour when the consuming device does not support "Combined Delivery" functionality.	0	0	0	0	0		
DRM-1.0-int-5	To test "Separate Delivery" functionality in case the DCF file indicates that the server intends to push the rights object separately. The DCF containing the content is not forward-locked.	8	3	0	0	5		
DRM-1.0-int-6	To test "Separate Delivery" functionality in case the DCF file indicates that the server intends to push the rights object separately. The DCF containing the content is forward-locked (i.e. wrapped inside a DRM message).	3	1	0	0	2		

DRM-1.0-int-7	To test "Superdistribution" functionality. The protected content is sent from one consuming device to another. The rights object is obtained by opening a browsing session to the rights issuing service.	8	1	0	0	7	
DRM-1.0-int-8	To test "Superdistribution" functionality in case of an unknown MIME type. The consuming device uses the Content-Type field to determine whether the content is suitable for it.	6	0	0	0	6	
DRM-1.0-int-9	To test behaviour in the presence of several rights objects for one piece of content.	7	5	0	0	2	
DRM-1.0-int-10	To test behaviour in the presence of several rights objects for one piece of content.	7	5	0	0	2	
DRM-1.0-int-11	To test <display> and <print> permissions for image files.</print></display>	8	8	0	0	0	Observation 001
DRM-1.0-int-12	To test <play> permission for a sound file.</play>	8	7	0	0	1	Observation 003
DRM-1.0-int-13	To test <count> constraint for a media object file.</count>	8	8	0	0	0	
DRM-1.0-int-14	To test <datetime> constraint for a media object file.</datetime>	8	8	0	0	0	
DRM-1.0-int-15	To test <interval> constraint for a media object file.</interval>	8	8	0	0	0	
DRM-1.0-int-16	To test the effect of having multiple constraints.	7	5	0	0	2	
DRM-1.0-int-17	To test Interval and Datetime constraints with a mobile that does not have a time source (i.e. a situation where the constraint is not understood and cannot be enforced).	1	0	0	0	1	

### 5.2.3 Observations

The following issues were captured by the Trusted Zone during the OMA Test Fest.

#### **5.2.3.1 EICS** issues

This section details issues with the DRM v1.0 Enabler Implementation Conformance Statement (EICS) [DRMEICS].

None.

### 5.2.3.2 Enabler Test Suite (ETS) issues

This section details issues with the Enabler Test Specification for OMA DRM v1.0.

Observation: 001					
Document:	[DRMETS]				
Section:	6.4.1 Image Object Delivery				
Comment:	This test case is unclear with respect to the <print> functionality. The test case is unclear to how the device will print.</print>				
Recommendation:	Update the test case to provide examples of using the <print> functionality in the test procedure.</print>				

Observation: 002						
Document:	[DRMETS]					
Section: 5						
Comment:	There was a general comment on why the conformance test cases are not included in the TestFest.					
	It was explained that the OMA Test Fest is an interoperability event and therefore only the interoperability test cases '-int-' are used.					
Recommendation:	It may be worth providing an explanantion in the ETS to how the conformance test cases are to be executed, ie if the conformance test cases '-con-' are intended for use with a conformance test tool, this should be explained.					

Observation: 003						
Document:	DRM test content					
Section:	-					
Comment:	The midi files provided are Type 1 midi files. One of the device at the test fest supported only type 0 midi file resulting in a test error. Content should be available for both permissible types.					
Recommendation:	Provide both Type 1 and Type 0 midi content with the test materials for the TestFest.					

## 5.2.3.3 DRM 1.0 Specification issues

This section details issues with the OMA DRM 1.0 specification.

None.

# 6. Confirmation

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

Stephen Higgins - DRM Trusted Zone

# Appendix A. Change History

# (Informative)

Type of Change	Date	Section	Description