Enabler Test Report STI v1.0

OMA Bilateral Test (September 2006)
Version 29-Sep-2006

Open Mobile Alliance
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1. Scope

This report describes the results from the testing carried out at OMA Member company Bilateral test sessions that have taken place between June and September 2006 relating to the Standard Transcoding Interface Enabler version 1.0.

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2. References

2.1 Normative References

[IOPPROC] "OMA Interoperability Policy and Process", Version 1.3, Open Mobile Alliance™, OMA-ORG-IOP-Process-V1_3, URL: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

[ENABLERSPEC] OMA-ERP-STI-V1_0-20050704-C URL:http://www.openmobilealliance.org/

[IOPETS] OMA-ETS-STI-V1_0_1-20051129-A URL:http://www.openmobilealliance.org/

[IOPETR] OMA-ETR-STI-V1_0-20050607-C URL:http://www.openmobilealliance.org/

[IOPEICS] OMA-EICS-STI-CLIENT-V1_0-20050410-D URL:http://www.openmobilealliance.org/

2.2 Informative References

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

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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

Application Platform	Combination of hardware and software that provide the functionality of an application. Note that rather than implementing all components to provide the functionality of an application the implementation can integrate the necessary components from other platforms.
Content	Subject matter or information that is processed, stored, or transmitted electronically. It includes such things as text, presentation, audio, images, video, etc. Content may have properties such as media type, mime type, etc.
Job Result	Part of the Transcoding Response that corresponds to one individual transcoding, i.e. one transcoded content (which may contain one or more media elements) and the parameters corresponding to the particular transcoding as returned to the Application Platform
Multipart Content	A set of media elements that can be transcoded as a whole, in a single transcoding job
Policy	A set of rules that are specified by the Application Platform to the Transcoding Platform, that can be used to give general limitations and preferences as well as specific variations of the transcoding parameters up to the transcoding job granularity.
Profile	Set of parameters and constraints that define the transcoding target. Those parameters come from the User Equipment characteristics, combined with the specific application needs and describe the format, resolution, file size…etc. that the transcoded Content should conform to.
Request Body	The SOAP body of a Transcoding Request that contains the STI parameters of the request. A Request Body may contain one or more Transcoding Jobs.
Response Body	The SOAP body of a Transcoding Response that contains details about the performed transcoding. A Response Body may contain one or more Job Results.
Transcoding Job	Part of the Transcoding Request that corresponds to one individual transcoding, i.e. one input content (which may contain more media elements in case of Multipart Content) and the parameters corresponding to the particular transcoding as given by the Application Platform.
Transcoding Platform	Combination of hardware and software that provide transcoding functionality.
Transcoding Request	A transcoding request, as issued by the Application Platform. The Transcoding Request can contain one or more Transcoding Job(s) and zero or more content attachment(s)
Transcoding Response	Transcoding Platform response that can contain the results of one or more Transcoding Job(s), and zero or more content attachment(s).
Transcoding Service	Functionality for transcoding of Content offered as a service to an application.
User Equipment	A device allowing a user access to network services. For the purpose of OMA specifications the interface between the UE and the network is the radio interface

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3.3 Abbreviations

13k	or QCELP or Q13: QualComm Code Excited Linear Predictive Coding at 13k
AAC	Advanced Audio Coding
AAC-LC	Advanced Audio Coding – Low Complexity
AMR	Adaptive Multi Rate
AMR-NB	Adaptive Multi Rate - Narrow Band
AMR-WB	Adaptive Multi Rate - Wide Band
ASCII	American Standard Code for Information Interchange
BMP	Bit Map
DRM	Digital Rights Management
EVRC	Enhanced Variable Rate Coder
FTP	File Transfer Protocol
GIF	Graphics Interchange Format
GIF 87a/89a	GIF with animations
HTTP	HyperText Transfer Protocol
JPEG	Joint Photographic Experts Group
JPEG-P	Joint Photographic Experts Group – Progressive
MIDI	Musical Instrument Digital Interface
MIME	Multipurpose Internet Mail Extension
MM	Multimedia Message
MMS	Multimedia Messaging Service
MMSC	Multimedia Messaging Service Center
MPEG	Moving Picture Experts Group
MP3	MPEG-1 Audio Layer 3
OMA	Open Mobile Alliance
PC	Personal Computer
PDA	Personal Digital Assistant
PNG	Portable Network Graphics
Q13	or 13k or QCELP: QualComm Code Excited Linear Predictive Coding at 13k
QCELP	or 13k or Q13: QualComm Code Excited Linear Predictive Coding at 13k
RFC	Request For Comments
SDP	Session Description Protocol
SMIL	Synchronized Multimedia Integration Language
SMV	Selectable Mode Vocoders
SOAP	Simple Object Access Protocol
SP-MIDI	Scalable Polyphony - Musical Instrument Digital Interface
SVG	Scalable Vector Graphics
TCP	Transmission Control Protocol
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
UTF	Unicode Translation Format
WAP	Wireless Application Protocol
WBMP	Wireless Bit Map
XML	eXtensible Mark-up Language

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4. Summary

This report gives details of the testing carried out during the OMA Bilateral test sessions from June to September 2006 for STI v1.0.

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 [OMAIOPPROC].

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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:	June to September 2006
Location:	Multiple Bilateral Test Sessions
Enabler:	STI v1.0
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-Server
Test Plan:	
Test Specification:	STI Enabler Test Specification [IOPETS]
Test Tool:	None
Test Code:	None
Type of Test event:	Bilateral
Participants:	Adamind Ltd., Mobixell Networks Ltd., Nokia Corporation, and VoiceAge Networks.
Number of Client Products:	3
Participating Technology Providers for clients:	Nokia Corporation
Number of Server Products:	3
Participating Technology Providers for servers:	Adamind Ltd., Mobixell Networks Ltd., and VoiceAge Networks.
Number of test sessions completed:	5

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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:	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	5	8	30	0	10	0	0	40
Total	**5**	**8**	**30**	**0**	**10**	**0**	**0**	**40**

Table 1. Test Summary Table

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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 the cause of Inconclusive or Fail verdicts.

Tests for STI Enabler taken from OMA-ETS-STI-V1_0_1-20051129-A

Test Case:	Test Case Description:	R	P	F	O	I	PR:	Note:
STI-1.0-int-001	The purpose is to verify that requests and responses can be sent/received between STI client and STI server for image resolution reduction	5	5	0	0	0		
STI-1.0-int-002	The purpose is to verify that requests and responses can be sent/received between STI client and STI server for image size reduction.	5	5	0	0	0		
STI-1.0-int-003	The purpose is to verify that a video file is correctly sent from Terminal A to Terminal B in Content Class Image Basic and that the received image is less than or equal to 30k and has a resolution of 160x120 or less.	5	5	0	0	0		
STI-1.0-int-004	The purpose is to verify that a video file larger than 100k is correctly sent from Terminal A in content class Video Rich to Terminal B in Content Class Video Basic and that the received video file is less than or equal to 100k.	5	5	0	0	0		

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Test Case:	Test Case Description:	R	P	F	O	I	PR:	Note:
STI-1.0-int-005	The purpose is to verify that requests and responses can be sent/received between STI Client and STI Server when the source media resides on an HTTP server and is referenced by the request.	0	0	0	0	0		
STI-1.0-int-006	The purpose is to verify that requests and responses can be sent/received between STI Client and STI Server when the target media is to be uploaded to an HTTP server and is referenced by the response.	0	0	0	0	0		
STI-1.0-int-007	The purpose of this test case is to verify that requests and responses which contain multipart media can be appropriately sent, received and handled between an STI Client and an STI Server.	5	5	0	0	0		
STI-1.0-int-008	The purpose of this test case is to verify that requests and responses which contain audio media can be appropriately sent, received and handled between an STI Client and an STI Server.	5	5	0	0	0		

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5.2.3 Problem Reports

During the activities for the Bilateral Period, the following problem reports were generated relating to the test materials and test process:

No Problem Reports were reported during the Bilateral Period.

PR Number	Affecting	Description	Test Case reference / Specification reference

Full details of all Problem Reports can be found at:

http://www.openmobilealliance.org/OMA-Problem-Reporting-System.html

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6. Confirmation

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

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OMA Trusted Zone

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Appendix A. Change History (Informative)

Type of Change	Date	Section	Description
Initial Version	29th September 2006	All	First Version from Bi-Lateral Test Sessiions

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