



## **Enabler Test Report**

### **Smartcard Web Server v1.1**

OMA Bi Lateral Test Event (March 2009)  
Version 1st April 2009

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Open Mobile Alliance  
OMA-Enabler\_Test\_Report-SCWS-V1\_1-20090401

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# 1. Scope

This report describes the results from the testing carried out at OMA Bilateral Test Event (March 2009) concerning the Smartcard Web Server Version 1.1 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](http://www.ietf.org/rfc/rfc2119.txt)
- [ERELD] Enabler Release Definition for Smartcard Web Server, OMA-ERELD-Smartcard\_Web\_Server-V1\_1-20080812-C.pdf , <http://www.openmobilealliance.org/>
- [SCWS\_SPEC] Enabler Release Package for Smartcard Web Server, OMA-ERP-Smartcard\_Web\_Server-V1\_1-20080812-C, <http://www.openmobilealliance.org/>
- [EVP] Enabler Validation Plan for Smartcard Web Server,  
OMA-EVP-Smartcard\_Web\_Server-V1\_1-20081024-C, <http://www.openmobilealliance.org/>
- [ETS] Enabler Test Specification for Smartcard Web Server (Interoperability), OMA-ETS-Smartcard\_Web\_Server-V1\_1-20081024-C, <http://www.openmobilealliance.org/>
- [SCWS\_EICS] Enabler Implementation Conformance Statements OMA-EICS-Smartcard\_Web\_Server\_AdminServer-V1\_1-20081006-A, OMA-EICS-Smartcard\_Web\_Server\_Device-V1\_1-20081006-A, OMA-EICS-Smartcard\_Web\_Server\_Smartcard-V1\_1-20081006-A;  
[URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

### 2.2 Informative References

- [OMADICT] Dictionary for OMA Specification, OMA-Dictionary  
<http://www.openmobilealliance.org/>
- [SCWS WID] Smartcard web server work item (WID 92)

## 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

<b>Application authentication</b>	An application that is invoked by the SCWS and that may generate dynamic content can implement its own user or principal authentication scheme. We call this authentication “Application authentication”.
<b>BIP</b>	Bearer Independent Protocol as defined in ETSI [TS 102 223].
<b>BIP gateway</b>	BIP implementation in the terminal as defined in [TS 102 223].
<b>Browser</b>	A program used to view (x) HTML or other media type documents.
<b>CSIM</b>	A Cdma2000 Subscriber Identify Module is an application defined in [3GPP2 C.S0065] residing on the UICC to register services provided by 3GPP2 mobile networks with the appropriate security.
<b>HTTPS</b>	A short term for HTTP over TLS.
<b>ISIM</b>	An IP Multimedia Services Identity Module is an application defined in [3GPP TS 31.103] residing in the memory of the UICC, providing IP service identification, authentication and ability to set up Multimedia IP Services.
<b>Network Operator</b>	An entity that is licensed and allocated frequency to operate a public mobile wireless telecommunications network for the purpose of providing publicly available commercial services.
<b>Proactive UICC session</b>	A “Proactive UICC session” is a sequence of related CAT commands and responses which start with the status response '91XX' (proactive command pending) and ends with a status response of '90 00' (normal ending of command) after Terminal Response as defined in [TS 102223].
<b>ProactiveHandler</b>	A ProactiveHandler is a smart card entity that is in charge of managing Proactive UICC sessions. Only one Proactive UICC session can be active at a given time.
<b>R-UIM</b>	A Removable User Identity Module is a standalone module defined in [3GPP2 C.S0023] to register services provided by 3GPP2 mobile networks with the appropriate security.
<b>SCWS proactive session</b>	A “SCWS proactive session” is a proactive UICC session that has been opened by a SCWS and is maintained by a SCWS.
<b>SIM</b>	A Subscriber Identity Module is a standalone module defined in [3GPP TS 51.011] to register services provided by 2G mobile networks with the appropriate security.
<b>Smart card</b>	This is a portable tamper resistant device with an embedded microprocessor chip. A smart card is used for storing data (e.g. access codes, user subscription information, secret keys etc.) and performing typically security related operations like encryption and authentication. A smart card may contain one or more network authentication applications like the SIM (Subscriber Identification Module), USIM, R-UIM (Removable – User Identification Module), CSIM (CDMA SIM).
<b>Smart card application</b>	An application that executes in the smart card.
<b>Smart card issuer</b>	The entity that gives/sales the smart card to the user (e.g. network operator for a SIM card).
<b>Terminal (or device)</b>	A voice and/or data terminal that uses a Wireless Bearer for data transfer. Terminal types may include (but are not limited to): mobile phones (GSM, CDMA, 3GSM, etc.), data-only terminals, PDAs, laptop computers, PCMCIA cards for data communication and unattended data-only terminals (e.g., vending machines).
<b>UICC</b>	UICC is the smart card defined for the ETSI standard [TS 102 221]. It is a platform to resident applications (e.g. USIM, CSIM or ISIM).
<b>URI</b>	Uniform Resource Identifiers (URI, see [RFC1630]) provides a simple and extensible means for identifying a resource. URI syntax is widely used to address Internet resources over the web but is also adapted to local resources over a wide variety of protocols and interfaces.

<b>URL</b>	The specification is derived from concepts introduced by the World-Wide Web global information initiative, whose use of such objects dates from 1990 and is described in "Universal Resource Identifiers in WWW", RFC 1630. The specification of URLs (see [RFC1738]) is designed to meet the requirements laid out in "Functional Requirements for Internet Resource Locators".
<b>User</b>	Person who interacts with a user agent to view, hear or otherwise use a resource
<b>USIM</b>	A Universal Subscriber Identity Module is an application defined in [3GPP TS 31.102] residing in the memory of the UICC to register services provided by 3GPP mobile networks with the appropriate security.
<b>Web Page</b>	A document viewable by using a web browser or client application which is connected to the page server.
<b>Web server</b>	A server process running on a processor, which sends out web pages in response to HTTP requests from browsers.

### 3.3 Abbreviations

<b>ACP</b>	Access Control Policy
<b>AD</b>	Architecture Document
<b>APDU</b>	Application Protocol Data Units
<b>CAT</b>	Card Application Toolkit
<b>CSIM</b>	CDMA SIM
<b>IP</b>	Internet Protocol
<b>OMA</b>	Open Mobile Alliance
<b>PSK-TLS</b>	Pre-Shared Key TLS
<b>RD</b>	Requirements Document
<b>R-UIM</b>	Removable User Identity Module
<b>SCWS</b>	Smart Card Web Server
<b>TCP</b>	Transmission Control Protocol
<b>TLS</b>	Transport Layer Security
<b>USIM</b>	Universal Subscriber Identity Module

## 4. Summary

This report gives details of the testing carried out during the OMA Bilateral Test Event (March 2009) for Smartcard-Web-Server (SCWS) v1.1.

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.

<b>Date:</b>	17 <sup>th</sup> to 19 <sup>th</sup> March 2009
<b>Location:</b>	La Vigie, France
<b>Enabler:</b>	Smartcard Web Server v1.1
<b>Process:</b>	OMA Interoperability Policy and Process [OMAIOPPROC]
<b>Type of Testing</b>	Interoperability Testing
<b>Products tested:</b>	Device-Smartcard-Admin Server
<b>Test Guidelines:</b>	SCWS Enabler Validation Plan - OMA-EVP-Smartcard_Web_Server-V1_1-20081024-C [EVP]
<b>Test Specification:</b>	SCWS Enabler Test Specification - OMA-ETS-Smartcard_Web_Server-V1_1-20081024-C [ETS] OMA-TFP-SCWS-V1_1-20081118-C [TFP]
<b>Test Tool:</b>	None
<b>Test Code:</b>	None
<b>Type of Test event:</b>	Bi-lateral
<b>Participants:</b>	gemalto N.V., Giesecke & Devrient, Sagem Wireless, SanDisk <i>plus 2 other companies</i>
<b>Number of Client Implementations:</b>	3
<b>Participating Technology Providers for clients:</b>	Sagem Wireless <i>plus 1 other company</i>
<b>Implementation IDs for each client:</b>	my700X contactless <i>plus 2 other implementations</i>
<b>Number of Smartcard Implementations:</b>	4
<b>Participating Technology Providers for Smartcards:</b>	gemalto N.V., Giesecke & Devrient, Sandisk <i>plus 1 other companies</i>
<b>Implementation IDs for each Smartcard:</b>	gemalto SCWS smartcard, Smartcard Web Server – Smartcard, SCWS SanDisk <i>plus 1 other implementation.</i>
<b>Number of Admin Server Implementations:</b>	2
<b>Participating Technology Providers for Admin servers:</b>	gemalto N.V. <i>plus 1 other company.</i>

<b>Implementation IDs for each Admin server:</b>	gemalto SCWS admin server <i>plus 1 other implementation</i>
<b>Number of test sessions completed:</b>	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 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 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:
Device to Smartcard TCs	12	31	289	12	31	40	0	372
Smartcard to Admin Server	12	24	68	8	57	155	0	288
<b>Total</b>	<b>24</b>	<b>55</b>	<b>357</b>	<b>20</b>	<b>88</b>	<b>195</b>	<b>0</b>	<b>660</b>

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 Smartcard Web Server TestFest Taken From OMA-ETS-Smartcard\_Web\_Server-V1\_1-20081024-C

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
SCWS-1.0-INT-001	The purpose is to verify that gif image of size 117 bytes is correctly sent from server to client.	11	11	0	1	0	12		
SCWS-1.0-INT-002	The purpose is to verify that gif image of size 1519 bytes is correctly sent from server to client. This test case will test segmentation on BIP commands	11	11	0	1	0	12		
SCWS-1.0-INT-003	The purpose is to verify that jpeg image of size 11.3 KB bytes is correctly sent from server to client. This test case will test ability to exchange http message larger than BIP OPEN_CHANNEL buffer size.	11	11	0	1	0	12		
SCWS-1.0-INT-004	The purpose is to verify that midi file of size 41 KB bytes is correctly sent from server to client. This test case will test server ability to host resource bigger than 32Kb.	8	8	0	1	0	12		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
SCWS-1.0-INT-005	The purpose is to verify that jpeg file of size 136 KB bytes is correctly sent from server to client. This test case will test long exchange between client and server, during this exchange client time-out can occurred or over flow client capabilities.	6	6	0	1	0	12		
SCWS-1.0-INT-100	The purpose is to verify that server is accessible in off-line mode (no network connection).	11	11	0	1	0	12		
SCWS-1.0-INT-101	The purpose is to verify that html page with many resources (9 gif and 1 stylesheet) is correctly sent from server to client.	11	10	1	1	0	12		
SCWS-1.0-INT-102	This test case will test multiple http connection in parallel.	6	6	0	1	0	12		
SCWS-1.0-INT-103	The purpose is to verify that client/server connection cancelled is correctly managed. This test case will test http message exchange interruption by BIP event channel status ESTABLISHED, LISTEN.	11	8	3	1	0	12		
SCWS-1.0-INT-104	The purpose is to verify that client/server connection interruption is correctly managed. This test case will test http message exchange interruption by BIP event channel status ESTABLISHED, LISTEN in multiple connection mode.	11	9	2	1	0	12		
SCWS-1.0-INT-105	The purpose is to verify that admin client connection is taken into account when receiving during client / server exchange.	4	4	0	7	0	12		
SCWS-1.0-INT-106	The purpose is to verify that the SCWS doesn't modify the behaviour of CAT applications	9	8	1	3	0	12		
SCWS-1.0-INT-107	The purpose is to verify that a SCWS browsing session is correctly processed while the execution of the proactive command SET UP CALL is triggered by a SMS from the second terminal.	6	6	0	5	0	12		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
SCWS-1.0-INT-108	The purpose is to verify that a SCWS browsing session is correctly processed while the execution of the proactive command DISPLAY_TEXT with user-confirmation is triggered by a SMS.	6	6	0	5	0	12		
SCWS-1.0-INT-200	The purpose is to verify that uri with a long file name is correctly handled by server.	11	11	0	1	0	12		
SCWS-1.0-INT-201	The purpose is to verify that uri with a long directory name is correctly handled by server.	11	11	0	1	0	12		
SCWS-1.0-INT-202	The purpose is to verify that uri with escaped char is correctly handled by server.	11	11	0	1	0	12		
SCWS-1.0-INT-203	The purpose is to verify that uri with query string is correctly handled by server.	11	11	0	1	0	12		
SCWS-1.0-INT-204	The purpose is to verify that uri of 1024 bytes is correctly handled by server.	11	11	0	1	0	12		
SCWS-1.0-INT-205	The purpose is to verify that not found uri is correctly handled by client and server.	11	11	0	1	0	12		
SCWS-1.0-INT-206	The purpose is to verify that uri 5 levels of directory is correctly handled by server.	11	11	0	1	0	12		
SCWS-1.0-INT-207	The purpose is to verify the default path "/" mapping.	8	8	0	1	0	12		
SCWS-1.0-INT-250	The purpose is to verify that http basic authentication is correctly handled by client and server. This test case will test HTTP status-code '401 Unauthorized', HTTP response header 'WWW-Authenticate' and HTTP request header 'Authorization'.	11	11	0	1	0	12		
SCWS-1.0-INT-251	The purpose is to verify that resource protected by admin protection is not accessible through WAP Browser. This test case will test HTTP status-code '403 Forbidden'.	11	11	0	1	0	12		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
SCWS-1.0-INT-300	The purpose is to verify that server dynamic content application is correctly triggered on HTTP POST method. This test case will test http POST message with content-body handle by dynamic content application.	11	10	1	1	0	12		
SCWS-1.0-INT-301	The purpose is to verify that server dynamic content application is correctly triggered on HTTP GET method. This test case will test http GET message with query-string handle by dynamic content application.	11	10	1	1	0	12		
SCWS-1.0-INT-302	The purpose is to verify that server response error 404 not found on an http request POST with an unexistent uri.	11	11	0	1	0	12		
SCWS-1.0-INT-303	The purpose is to verify that dynamic content application response with HTTP Header "Transfer-Encoding: chunked" is correctly processed by Device, SCWS Client.	11	11	0	1	0	12		
SCWS-1.0-INT-304	The purpose is to verify that server dynamic content application is correctly triggered on HTTP GET method and query-string with special char is correctly handled by dynamic content application.	11	8	3	1	0	12		
SCWS-1.0-INT-305	The purpose is to verify that server dynamic content application is correctly sending an SMS to another handset.	10	10	0	1	0	12		
SCWS-1.0-INT-400	The purpose is to verify that the BIP server mode protocol is correctly handled by client and server.	11	11	0	1	0	12		
SCWS-1.0-INT-401	The purpose is to verify that the TCP/IP protocol (i.e.: not using BIP server mode protocol) is correctly handled by client and server.	0	0	0	0	0	12		
SCWS-1.0-INT-500	The purpose is to verify single resource 1kb (portal 'oma-500') can be sent, received through full admin protocol.	7	7	0	4	0	12		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
SCWS-1.0-INT-501	The purpose is to verify single resource 10kb (portal 'oma-501') can be sent, received through full admin protocol. This test case will test POST response of remote admin server with HTTP header 'Transfer-Encoding: chunked'.	6	6	0	5	0	12		
SCWS-1.0-INT-502	The purpose is to verify that portal of 32kb (portal 'oma-502') with multiple resources can be sent, received through full admin protocol. This portal contains 2 different pages: - Page 1 with 4 images of 5kb. - Page 2 with 6 images of 2kb. This test case will test POST response of remote admin server with pipelined administration command.	6	5	1	5	0	12		
SCWS-1.0-INT-503	The purpose is to verify that portal of 100kb (portal 'oma-503') with multiple resources can be sent, received through full admin protocol. This portal contains 3 different pages: - Page 1 with 2 images of 18kb. - Page 2 with 8 images of 5kb. - Page 3 with 12 images of 2kb. This test case will test POST response of remote admin server with pipelined administration command and with HTTP header 'Transfer-Encoding: chunked'.	6	4	2	5	0	12		
SCWS-1.1-INT-504	The purpose is to validate portal deletion using directory deletion command.	2	2	0	7	0	12		
SCWS-1.1-INT-505	The purpose is to verify that portal with gzip resources can be sent, received through full admin protocol, and properly displayed by the Terminal.	2	2	0	7	0	12		
SCWS-1.1-INT-506	The purpose is to verify scws administration using Cache-Control header in the admin command and browsing cache mechanism based on Entity-Tag validator.	2	2	0	7	0	12		



Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
SCWS-1.1-INT-507	The purpose is to verify that a given authorized entitie (ex: bank) is able to manage its URI and not able to manage other entities URI (ex: transport).	2	1	1	7	0	12		
SCWS-1.1-INT-508	The purpose is to verify that http-status code 590 Memory full is returned by SCWS Server on http PUT request when server is currently unable to handle the request because the card memory is full	2	1	1	8	0	12		
SCWS-1.0-INT-551	The purpose is to verify that SCWS admin client retry administration session when the current admin session is interrupted by terminal switch-off. This test case will test admin client POST request with HTTP header 'SCWS-resume: true'.	3	2	1	8	0	12		
SCWS-1.0-INT-552	The purpose is to verify that SCWS admin client retry administration session when the current admin session is interrupted by network coverage loss. This test case will test SCWS admin client resume admin session, BIP event channel status link-dropped, BIP commad SEND_DATA, RECEIVED_DATA terminal response temporary-error or permanent-error.	3	3	0	8	0	12		
SCWS-1.0-INT-553	The purpose is to verify that SCWS admin client sent SMS MO admin-failure-report to the Remote admin SCWS Server when administration session is abandoned.	3	3	0	8	0	12		
SCWS-1.0-INT-554	The purpose is to verify that SCWS server connection is taken into account when receiving during admin client / remote admin server exchange. This test case will test reception of the BIP Event-Data-Available (channel http) during BIP admin-channel exchange.	2	2	0	9	0	12		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
SCWS-1.0-INT-555	The purpose is to verify that administration session is taken into account when card administration agent triggering event (push sms) is received in other card application toolkit context.	3	2	1	8	0	12		
SCWS-1.0-INT-556	The purpose is to verify that a SCWS admin session with PUT is correctly processed while the execution of the proactive command SET UP CALL is triggered by a SMS from the second terminal.	2	2	0	8	0	12		
SCWS-1.0-INT-600	The purpose is to verify that administration session is correctly processed using TLS communication channel using cipher suite TLS_PSK_WITH_3DES_EDE_CBC_SHA.	6	6	0	5	0	12		
SCWS-1.0-INT-601	The purpose is to verify that administration session is correctly processed using TLS communication channel using cipher suite TLS_PSK_WITH_AES_128_CBC_SHA.	3	2	1	7	0	12		
SCWS-1.1-INT-602	The purpose is to verify that administration session is correctly processed using TLS communication channel using cipher suite TLS_PSK_WITH_NULL_SHA.	2	2	0	6	0	12		
SCWS-1.0-INT-701	The purpose is to deactivate the SCWS using the lightweight protocol. At the end the SCWS shall be reactivated.	1	1	0	8	0	12		
SCWS-1.0-INT-800	The purpose is to verify single resource 1kb (portal 'oma-500') can be sent, received through full admin protocol using the BIP client protocol..	7	7	0	4	0	12		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
SCWS-1.0-INT-801	The purpose is to verify single resource 1kb (portal 'oma-500') can be sent, received through full admin protocol using the full TCP/IP client protocol (i.e.: not using BIP client mode protocol).	0	0	0	2	0	12		
SCWS-1.0-INT-900	The purpose is to validate backward compatibility between SCWS Remote Admin 1.0 and Admin Client 1.1	1	1	0	6	0	12		
SCWS-1.0-INT-901	The purpose is to validate backward compatibility between SCWS Remote Admin 1.1 and Admin Client 1.0	1	1	0	6	0	12		

Table 3. Test Case Counts

## 5.3 Problem Reports

During the activities for Bi-lateral Test Event, the following problem reports were generated relating to the test materials and test process:

PR Number	Affecting	Description	Test Case reference / Specification reference
		None raised from this event	

**Table 4. Problem Reports**

Full details of the Problem Reports can be found at:

[http://www.openmobilealliance.org/TestFests/Problem\\_Reporting.aspx](http://www.openmobilealliance.org/TestFests/Problem_Reporting.aspx)

## 6. Confirmation

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

A handwritten signature in black ink, appearing to read 'OMA Trusted Zone', is positioned above a horizontal line.

OMA Trusted Zone

## Appendix A. Change History (Informative)

Type of Change	Date	Section	Description
Initial Release	1 <sup>st</sup> April 2009	All	First Version from Bi-lateral Test Event in March