

## Enabler Test Report Smartcard Web Server v1.0

OMA TestFest (January 2008) Version 1st February 2008

Open Mobile Alliance OMA-Enabler\_Test\_Report-SCWS-V1\_0-20080201

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# 1. Scope

This report describes the results from the testing carried out at OMA TestFest-22 (January 2008) concerning the Smartcard Web Server Version 1.0 Enabler.

#### 2. References

#### 2.1 Normative References

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

[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 Smartcard Web Server, OMA-ERELD-Smartcard\_Web\_Server-

V1 0-20071002-C.pdf , http://www.openmobilealliance.org/

[SCWS\_SPEC] Enabler Release Package for Smartcard Web Server, OMA-ERP-Smartcard\_Web\_Server-

V1 0-20071002-C, http://www.openmobilealliance.org/

[EVP] Enabler Validation Plan for Smartcard Web Server,

OMA-EVP-Smartcard\_Web\_Server-V1\_0-20071106-C, <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>

[ETS] Enabler Test Specification for Smartcard Web Server (Interoperability), OMA-ETS-

Smartcard Web Server-V1 0-20071106-C, http://www.openmobilealliance.org/

[SCWS EICS] Enabler Implementation Conformance Statements, OMA-EICS-

Smartcard\_Web\_Server\_AdminServer-V1\_0-20070405-A, OMA-EICS-Smartcard\_Web\_Server\_Device-V1\_0-20070405-A, OMA-EICS-

Smartcard Web Server Smartcard-V1 0-20070405-A;

URL: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

Application authentication

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".

BIP Bearer Independent Protocol as defined in ETSI [TS 102 223].

BIP gateway BIP implementation in the terminal as defined in [TS 102 223].

Browser A program used to view (x) HTML or other media type documents.

CSIM 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.

**HTTPS** A short term for HTTP over TLS.

ISIM 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

**Network Operator** 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.

Proactive UICC session 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].

**ProactiveHandler** 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.

**R-UIM** 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.

SCWS proactive session A "SCWS proactive session" is a proactive UICC session that has been opened by a SCWS and is

maintained by a SCWS.

SIM 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.

Smart card 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).

**Smart card application** An application that executes in the smart card.

Smart card issuer The entity that gives/sales the smart card to the user (e.g. network operator for a SIM card).

**Terminal (or device)** 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).

UICC 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).

URI 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.

URL 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".

User Person who interacts with a user agent to view, hear or otherwise use a resource

USIM 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.

Web Page A document viewable by using a web browser or client application which is connected to the page

erver.

Web server A server process running on a processor, which sends out web pages in response to HTTP requests

from browsers.

#### 3.3 Abbreviations

ACP Access Control Policy
AD Architecture Document

**APDU** Application Protocol Data Units

**CAT** Card Application Toolkit

CSIM CDMA SIM

IP Internet Protocol

OMA Open Mobile Alliance
PSK-TLS Pre-Shared Key TLS
RD Requirements Document

**R-UIM** Removable User Identity Module

SCWS Smart Card Web Server

TCP Transmission Control Protocol

TLS Transport Layer Security

USIM Universal Subscriber Identity Module

### 4. Summary

This report gives details of the testing carried out during the OMA TestFest-22 (January 2008) for Smartcard-Web-Server (SCWS) 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 [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:   | 18 <sup>th</sup> to 25 <sup>th</sup> January 2008                                 |
|---|---|
| Location:   | Montréal, Canada  |
| Enabler:  | Smartcard Web Server v1.0   |
| Process:  | OMA Interoperability Policy and Process [OMAIOPPROC]                              |
| Type of Testing   | Interoperability Testing  |
| Products tested:  | Device-Smartcard-Admin Server   |
| Test Guidlines:   | SCWS Enabler Validation Plan - OMA-EVP-Smartcard_Web_Server-V1_0-20071106-C [EVP] |
| <b>Test Specification:</b>                                  | SCWS Enabler Test Specification - OMA-ETS-Smartcard_Web_Server-V1_0-20071106-C    |
|   | OMA-ETS-Smartcard_Web_Server_CONTENT_V1_0-20071106-C [ETS]                        |
| Test Tool:  | None  |
| Test Code:  | None  |
| Type of Test event:   | TestFest  |
| Participants:   | gemalto N.V. and 4other companies   |
| Number of Client<br>Implementations:                        | 2   |
| Participating Technology<br>Providers for clients:          | 2 companies   |
| Implementation IDs for each client:                         | 2 clients   |
| Number of Smartcard Implementations:                        | 3   |
| Participating Technology<br>Providers for Smartcards:       | gemalto N.V. and 2 other companies  |
| Implementation IDs for each Smartcard:                      | gemalto SCWS smartcard and 2 other smartcards.                                    |
| Number of Admin Server<br>Implementations:                  | 2   |
| Participating Technology<br>Providers for Admin<br>servers: | gemalto N.V. and 1 other company.   |

| Implementation IDs for each Admin server: | gemalto SCWS admin server and 1 other admin server |
|---|--|
| Number of test sessions completed:        | 18   |

**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 session s: | Total<br>number<br>of TCs: | Number<br>of<br>Passed: | Number<br>of<br>Failed: | Number<br>of<br>N/A: | Number<br>of<br>OT: | Number<br>of<br>INC: | Total: |
|-------------------------------|---------------------------|----------------------------|-------------------------|-------------------------|----------------------|---------------------|----------------------|--------|
| Device to<br>Smartcard<br>TCs | 6                         | 27                         | 156                     | 0                       | 6                    | 0                   | 0                    | 162    |
| Smartcard to<br>Admin Server  | 12                        | 14                         | 125                     | 0                       | 43                   | 0                   | 0                    | 168    |
| Total                         | 18                        | 41                         | 281                     | 0                       | 49                   | 0                   | 0                    | 330    |

**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\_0-20071106-C

| Test Case id:    | Description:  |   | Т | est C | Count | ts |     | PR: | Note: |
|------------------|---|---|---|-------|-------|----|-----|-----|-------|
| rest Case iu.    | Description.  | R | Р | F     | 0     | I  | N/A | FK. | Note. |
| SCWS-1.0-INT-001 | The purpose is to verify that gif image of size 117 bytes is correctly sent from server to client.  | 6 | 6 | 0     | 0     | 0  | 0   |     |       |
| 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   | 6 | 6 | 0     | 0     | 0  | 0   |     |       |
| 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. | 6 | 6 | 0     | 0     | 0  | 0   |     |       |

| T                |   |    | Т  | est C | ount | s |     |     |       |
|------------------|---|----|----|-------|------|---|-----|-----|-------|
| Test Case id:    | Description:  | R  | Р  | F     | 0    | I | N/A | PR: | Note: |
| 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.   | 4  | 4  | 0     | 0    | 0 | 2   |     |       |
| 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. | 2  | 2  | 0     | 0    | 0 | 4   |     |       |
| SCWS-1.0-INT-100 | The purpose is to verify that server is accessible in off-line mode (no network connection).  | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-101 | The purpose is to verify that html page with many resources (9 gif anf 1 stylesheet) is correctly sent from server to client.   | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-102 | This test case will test mutiple http connection in parallele.  | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| 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 exhange interruption by BIP event channel status ESTABLISHED, LISTEN.  | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| 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 exhange interruption by BIP event channel status ESTABLISHED, LISTEN in multiple connection mode.                           | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-105 | The purpose is to verify that admin client connection is taken into account when receiving during client / server exchange.   | 12 | 12 | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-106 | The purpose is to verify that the SCWS doesn't modify the behaviour of CAT applications   | 6  | 6  | 0     | 0    | 0 | 0   |     |       |

| Total Constitu   | Descriptions  |   | Т | est C | ount | s |     | PR: | Neter |
|------------------|---|---|---|-------|------|---|-----|-----|-------|
| Test Case id:    | Description:  | R | Р | F     | 0    | I | N/A | PK: | Note: |
| 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     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-200 | The purpose is to verify that uri with a long file name is correctly handled by server.   | 6 | 6 | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-201 | The purpose is to verify that uri with a long directory name is correctly handled by server.  | 6 | 6 | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-202 | The purpose is to verify that uri with escaped char is correctly handled by server.   | 6 | 6 | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-203 | The purpose is to verify that uri with query string is correctly handled by server.   | 6 | 6 | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-204 | The purpose is to verify that uri of 1024 bytes is correctly handled by server.   | 6 | 6 | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-205 | The purpose is to verify that not found uri is correctly handled by client and server.  | 6 | 6 | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-206 | The purpose is to verify that uri 5 levels of directory is correctly handled by server.   | 6 | 6 | 0     | 0    | 0 | 0   |     |       |
| 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'. | 6 | 6 | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-251 | The purpose is to verify that resource protected by admin protection is not accessible throught WAP Browser. This test case will test HTTP status-code '403 Forbiden'.  | 6 | 6 | 0     | 0    | 0 | 0   |     |       |

| Test Ossa ide    | Decembrisms  |    | Т  | est C | ount | s |     | PR: | Neter |
|------------------|--|----|----|-------|------|---|-----|-----|-------|
| Test Case id:    | Description:   | R  | Р  | F     | 0    | ı | N/A | PK: | Note: |
| 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 htpp POST message with content-body handle by dynamic content application. | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| 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 htpp GET message with query-string handle by dynamic content application.   | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-302 | The purpose is to verify that server response error 404 not found on an http request POST with an unxeistant uri.  | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-303 | The purpose is to verify that dynamic content application response with HTTP Header "Transfert-Encoding: chuncked" is correctly processed by Device, SCWS Client.  | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| 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.               | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-305 | The purpose is to verify that server dynamic content application is correctly sending an SMS to another handset.   | 6  | 6  | 0     | 0    | 0 | 0   |     |       |
| SCWS-1.0-INT-500 | The purpose is to verify single resource 1kb (portal 'oma-500')can be sent, received throught full admin protocol.   | 12 | 12 | 0     | 0    | 0 | 0   |     |       |

| Total Constitution | Descriptions   |    | Test Counts |   |   |   | DD. | Note |       |
|--------------------|--|----|-------------|---|---|---|-----|------|-------|
| Test Case id:      | Description:   | R  | Р           | F | 0 | ı | N/A | PR:  | Note: |
| SCWS-1.0-INT-501   | The purpose is to verify single resource 10kb (portal 'oma-501') can be sent, received throught full admin protocol. This test case will test POST response of remote admin server with HTTP header 'Transfert-Encoding: chuncked'.  | 12 | 12          | 0 | 0 | 0 | 0   |      |       |
| SCWS-1.0-INT-502   | The purpose is to verify that portal of 32kb (portal 'oma-502') with multiple resources can be sent, received throught 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.  | 12 | 12          | 0 | 0 | 0 | 0   |      |       |
| SCWS-1.0-INT-503   | The purpose is to verify that portal of 100kb (portal 'oma-503') with multiple resources can be sent, received throught 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 and with HTTP header 'Transfert-Encoding: chuncked'. | 12 | 12          | 0 | 0 | 0 | 0   |      |       |
| 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 switchoff. This test case will test admin client POST request with HTTP header 'SCWS-resume: true'.   | 6  | 6           | 0 | 0 | 0 | 6   |      |       |

| T. (0)           | Descriptions  |    | Т  | est C | ount | ts |     | PR: | Net   |
|------------------|---|----|----|-------|------|----|-----|-----|-------|
| Test Case id:    | Description:  | R  | Р  | F     | 0    | 1  | N/A | PK: | Note: |
| 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. | 5  | 5  | 0     | 0    | 0  | 7   |     |       |
| 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.  | 8  | 8  | 0     | 0    | 0  | 4   |     |       |
| 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 adminchannel exchange.   | 12 | 12 | 0     | 0    | 0  | 0   |     |       |
| SCWS-1.0-INT-555 | The purpose is to verify that administration session is taken into account when card administration agent trigerring event (push sms) is received in other card application toolkit context.  | 12 | 12 | 0     | 0    | 0  | 0   |     |       |
| 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.   | 12 | 12 | 0     | 0    | 0  | 0   |     |       |

| Test Case id:    | Description:   |   | Т | est C | ount | S |     | DD: | Note: |
|------------------|--|---|---|-------|------|---|-----|-----|-------|
| rest case iu.    | Description.   | R | Р | F     | 0    | 1 | N/A | PR: | Note. |
| 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_C BC_SHA. | 4 | 4 | 0     | 0    | 0 | 8   |     |       |
| 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_CB C_SHA.  | 4 | 4 | 0     | 0    | 0 | 8   |     |       |
| SCWS-1.0-INT-701 | The purpose is to deactivate the SCWS using the lightweight protocol. At the end the SCWS shall be reactivated.  | 2 | 2 | 0     | 0    | 0 | 10  |     |       |

**Table 3. Test Case Counts** 

### 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<br>Number | Affecting | Description                 | Test Case reference /<br>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

### 6. Confirmation

Miljo bellera.

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

### Appendix A. Change History

# (Informative)

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