

Enabler Test Specification for Device Management

Candidate Version 1.2 – 19 Apr 2007

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1. Scope

This document describes in detail available test cases for Device Management 1.2 Enabler Release, http://www.openmobilealliance.org/.

The test cases are split in two categories, conformance and interoperability test cases.

The conformance test cases are aimed to verify the adherence to normative requirements described in the technical specifications.

The interoperability test cases are aimed to verify that implementations of the specifications work satisfactory.

If either conformance or interoperability tests do not exists at the creation of the test specification this part should be marked not available.

2. References

2.1 Normative References

[ERELD] "Enabler Release Definition for Device Management", Open Mobile Alliance™, ERELD-

DM-V1 2. URL:http:www.openmobilealliance.org

[DMPRO] "OMA Device Management Protocol, Version 1.2". Open Mobile AllianceTM.

OMA-TS-DM-Protocol-V1 2. URL:http://www.openmobilealliance.org

[DMREPU] "OMA Device Management Representation Protocol, Version 1.2".

Open Mobile Alliance™. OMA-TS-DM-RepPro-V1_2.

URL:http://www.openmobilealliance.org

[DMSEC] "OMA Device Management Security, Version 1.2". Open Mobile Alliance™.

OMA-TS-DM-Security-V1_2. URL:http://www.openmobilealliance.org

[DMTND] "OMA Device Management Tree and Description, Version 1.2". Open Mobile Alliance™.

OMA-TS-DM-TND-V1_2. URL:http://www.openmobilealliance.org

[DMSTDOBJ] "OMA Device Management Standardized Objects, Version 1.2". Open Mobile AllianceTM.

OMA-TS-DM-StdObj-V1_2. URL:http://www.openmobilealliance.org

[DMBOOT] "OMA Device Management Bootstrap, Version 1.2". Open Mobile Alliance™.

OMA-TS-DM-Bootstrap-V1_2. URL:http://www.openmobilealliance.org

[DMNOTI] "OMA Device Management Notification Initiated Session, Version 1.2". Open Mobile

Alliance™. OMA-TS-DM-Notification-V1_2. URL:http://www.openmobilealliance.org

[DMTNDS] "OMA Device Management Tree and Description Serialization, Version 1.2". Open Mobile

Alliance™. OMA-TS-DM-TNDS-V1_2. URL:http://www.openmobilealliance.org

[ELREDSC] "Enabler Release Definition for SyncML Common Specifications, version 1.2". Open

Mobile Alliance™. OMA-ERELD-SyncML-Common-V1_2_0.

URL:http://www.openmobilealliance.org

[REPPRO] "SyncML Representation Protocol", Open Mobile Alliance™, OMA-SyncML-RepPro-

V1 2, URL:http://www.openmobilealliance.org

[SAN] "SyncML Server Alerted Notification", Open Mobile Alliance™, OMA-SyncML-SAN-

V1 2, URL:http://www.openmobilealliance.org

[SYNCHTTP] "SyncML HTTP Binding Specification", Open Mobile AllianceTM, OMA-SyncML-

HTTPBinding- V1_2_0, URL:http://www.openmobilealliance.org

[SYNCMETA] "SyncML Meta Information, version 1.2". Open Mobile Alliance™.

OMA-SyncML-MetaInfo- V1_2_0 URL:http://www.openmobilealliance.org

[SYNCOBEX] "SyncML OBEX Binding Specification", Open Mobile AllianceTM, OMA-SyncML-

OBEXBinding- V1_2_0, URL:http://www.openmobilealliance.org

[SYNCWSP] "SyncML WSP Binding Specification", Open Mobile AllianceTM, OMA-SyncML-

WSPBinding- V1 2 0, URL:http://www.openmobilealliance.org

[IOPPROC] "OMA Interoperability Policy and Process", Open Mobile AllianceTM,

OMA-IOP-Process-V1_4, 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

2.2 Informative References

[OMADICT] "Dictionary for OMA specifications". Open Mobile Alliance™. OMA-Dictionary-v1 0.

http://www.openmobilealliance.org/

3. Terminology and Conventions

3.1 Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except "Scope", are normative, unless they are explicitly indicated to be informative.

The following numbering scheme is used:

xxx-y.z-con-number where:

xxx Name of enabler, e.g. MMS or Browsing y.z Version of enabler release, e.g. 1.2 or 1.2.1 'con' Indicating this test is a conformance test case

number Leap number for the test case

Or

xxx-y.z-int-number where:

xxx Name of enabler, e.g. MMS or Browsing
 y.z Version of enabler release, e.g. 1.2 or 1.2.1
 'int' Indicating this test is a interoperability test case

number Leap number for the test case

3.2 Definitions

SCTS SyncML Conformance Test Suite.

Test Object The implementation under test is referred to as the Test Object. In this document, the Client.

Test Case A Test Case is an individual test used to verify the conformance of the Test Object to a particular

mandatory feature of the protocol. A 4-digit number identifies Test Cases where the first two digits denote

the Test Group ID.

Test Group A Test Group is a collection of Test Cases, which are executed, in a single SyncML session in SCTS

conformance test tool.

< Node > Path from the root to the interior node that is configured to the SCTS before the testing is done (e.g..

'./SyncML/DMAcc' or './DevDetail'). Test case is driven to this configured interior node. The <Node>

can be different between different Test Cases.

<Leaf> or <Leaf#n> Leaf node(s) that is configured to the SCTS before the testing is done (e.g., 'SwV' and/or 'Name'). Test

case is driven to this configured interior node. The <Leaf> can be different between different Test Cases.

3.3 Abbreviations

OMA Open Mobile Alliance

SCTS SyncML Conformance Test Suite

DM Device Management

4. Introduction

This document describes in detail available test cases for Device Management 1.2 Enabler Release, http://www.openmobilealliance.org/.

The test cases are split in two categories, conformance and interoperability test cases.

The conformance test cases are aimed to verify the adherence to normative requirements described in the technical specifications.

The interoperability test cases are aimed to verify that implementations of the specifications work satisfactory.

If either conformance or interoperability tests do not exists at the creation of the test specification this part should be marked not available.

If an implementation states in their ICS that an optional feature is supported. Then the tests for the optional feature are mandatory for that implementation.

5. Device Management Client Conformance Test Cases

5.1 Device Management Client Conformance Test Group #1

5.1.1 DeviceManagement-v1.2-client-con-0102

Test Case Id	DeviceManagement-v1.2-client-con-0102	
Test Object	Client device	
Test Case Description	To check if the Test Object sent a valid Alert command.	
Specification Reference	[DMREPU] Chapter 6.6.2	
SCR Reference	DMREPPRO-PCE-C-001 Support for sending 'Alert'	
Test Tool	SCTS DM 1.2 as a server	
Preconditions	None	
Pass-Criteria	The Test Object MUST send valid Client Initiated Alert.	

5.1.2 DeviceManagement-v1.2-client-con-0103

Test Case Id	DeviceManagement-v1.2-client-con-0103	
Test Object	Client device	
Test Case Description	To check if the Test Object sends Device Information	
Specification Reference	[DMREPU] Chapter 6.6.11	
SCR Reference	DMREPPRO-PCE-C-002 Support for 'Replace'	
Test Tool	SCTS DM 1.2 as a server	
Preconditions	None	
Pass-Criteria	The Test Object MUST send its Device Information in a Replace command	

5.1.3 DeviceManagement-v1.2-client-con-0104

Test Case Id	DeviceManagement-v1.2-client-con-0104
Test Object	Client device
Test Case Description	To check if the client's Source LocURI is same as the value in ./DevInfo/DevId
Specification Reference	[DMREPU] Chapter 6.1.10
SCR Reference	DMREPPRO-CUE-C-008 Support for 'LocURI'

Test Tool	SCTS DM 1.2 as a server
Preconditions	None
Pass-Criteria	The value of Source LocURI in the SyncHdr sent by the client MUST be equal to the value sent in ./DevInfo/DevId

5.2 Device Management Client Conformance Test Group #2

5.2.1 DeviceManagement-v1.2-client-con-0201

Test Case Id	DeviceManagement-v1.2-client-con-0201	
Test Object	Client device	
Test Case Description	To check if the Test Object can switch the authentication scheme based on the challenge (MD5).	
Specification Reference	[DMSEC] Chapter 5.3	
SCR Reference	DM-SEC-C-001 Client must authenticate itself to a server	
	DM-SEC-C-005 Send credentials to server	
	DM-SEC-C-008 Support for OMA DM syncml:auth-md5 type authentication	
Test Tool	SCTS DM 1.2 as a server	
Preconditions	None	
Pass-Criteria	The Test Object MUST update its authentication scheme and send credentials using MD5 in the next session.	

5.3 Device Management Client Conformance Test Group #3

5.3.1 DeviceManagement-v1.2-client-con-0301

Test Case Id	DeviceManagement-v1.2-client-con-0301
Test Object	Client device
Test Case Description	To check if the Test Object supports the MD5 Digest authentication scheme.
Specification Reference	[DMSEC] Chapter 5.3
SCR Reference	DM-SEC-C-001 Client must authenticate itself to a server

	DM-SEC-C-005	Send credentials to server
	DM-SEC-C-008 authentication	Support for OMA DM syncml:auth-md5 type
Test Tool	SCTS DM 1.2 as a	server
1651 1001		
Preconditions	Incoming userid & clients outgoing use	password configured on SCTS should match those of the crid & password.
Pass-Criteria	The Test Object MU Digest authentication	UST send valid credentials encoded using the MD5 on scheme.

5.3.2 DeviceManagement-v1.2-client-con-0302

Test Case Id	DeviceManagement-v1.2-client-con-0302	
Test Object	Client device	
Test Case Description	To check if the Test Object responds with a Results for a Get on the Root node.	
Specification Reference	[DMREPU] Chapter 6.6.7	
	[DMREPU] Chapter 6.6.12	
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get' DMREPPRO-PCE-C-010 Support for sending 'Results'	
Test Tool	SCTS DM 1.2 as a server	
Preconditions	SCTS should have ACL access rights for Get on the Root node.	
Pass-Criteria	The Test Object MUST respond with a Results containing at least the following element: DevInfo, DevDetail, SyncML.	

5.3.3 DeviceManagement-v1.2-client-con-0303

Test Case Id	DeviceManagement-v1.2-client-con-0303
Test Object	Client device
Test Case Description	To check if the Test Object responds with a Results for a Get on a leaf node.
Specification Reference	[DMREPU] Chapter 6.6.7
	[DMREPU] Chapter 6.6.12.
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get' DMREPPRO-PCE-C-010 Support for sending 'Results'
Test Tool	SCTS DM 1.2 as a server

Preconditions	SCTS should have ACL access rights for Get on the leaf node.
Pass-Criteria	The Test Object MUST respond with a Results.

5.3.4 DeviceManagement-v1.2-client-con-0304

Test Case Id	DeviceManagement-v1.2-client-con-0304
Test Object	Client device
Test Case Description	To check if the Test Object responds correctly for a Get on a non-existant node.
Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Test Object MUST return a 404 status code on the Get.

5.4 Device Management Client Conformance Test Group #4

5.4.1 DeviceManagement-v1.2-client-con-0401

Test Case Id	DeviceManagement-v1.2-client-con-0401
Test Object	Client device
Test Case Description	To check if the Test Object uses HMAC scheme.
Specification Reference	[DMSEC] Chapter 5.4
SCR Reference	DM-SEC-C-010 Integrity checking using HMAC-MD5
	DM-SEC-C-011 Inserting HMAC in transport
	DM-SEC-C-012 Using HMAC for all subsequent messages
Test Tool	SCTS DM 1.2 as a server
Preconditions	The client should support HMAC and use a insecure transport.
Pass-Criteria	The Test Object MUST send valid HMAC.

5.5 Device Management Client Conformance Test Group #5

5.5.1 DeviceManagement-v1.2-client-con-0501

Test Case Id	DeviceManagement-v1.2-client-con-0501
Test Object	Client device
Test Case Description	To check if a interior node can be Added to a client.
Specification Reference	[DMREPU] Chapter 6.6.1
SCR Reference	DMREPPRO-PCE-C-003 Support for receiving 'Add'
Test Tool	SCTS DM 1.2 as a server
Preconditions	The node MUST not exist on the device
Pass-Criteria	The Test Object MUST return either a 200 or 405 status code. If the status code is 200, the new interior node MUST exist.

5.5.2 DeviceManagement-v1.2-client-con-0502

Test Case Id	DeviceManagement-v1.2-client-con-0502
Test Object	Client device
Test Case Description	To check if a leaf node can be Added to a client.
Specification Reference	[DMREPU] Chapter 6.6.1
SCR Reference	DMREPPRO-PCE-C-003 Support for receiving 'Add'
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Test Object MUST return a 200 status code and the new leaf node MUST exist.

5.5.3 DeviceManagement-v1.2-client-con-0503

Test Case Id	DeviceManagement-v1.2-client-con-0503
Test Object	Client device
Test Case Description	To check if the Test Object returns a status code of 418 (Already Exists) for a Add on a existing leaf node.
Specification Reference	[DMREPU] Chapter 6.6.1
SCR Reference	DMREPPRO-PCE-C-003 Support for receiving 'Add'

Test Tool	SCTS DM 1.2 as a server
Preconditions	Test case 501 should have passed with a 200 status code.
Pass-Criteria	The Test Object MUST return a 418 status code.

5.6 Device Management Client Conformance Test Group #6

5.6.1 DeviceManagement-v1.2-client-con-0601

Test Case Id	DeviceManagement-v1.2-client-con-0601
Test Object	Client device
Test Case Description	To check if the Test Object handles a Replace.
Specification Reference	[DMREPU] Chapter 6.6.11
SCR Reference	DMREPPRO-PCE-C-002 Support for 'Replace'
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Test Object MUST return a 200 status code.

5.6.2 DeviceManagement-v1.2-client-con-0602

Test Case Id	DeviceManagement-v1.2-client-con-0602
	, , , , , , , , , , , , , , , , , , ,
Test Object	Client device
Test Case Description	To check if the Test Object rejects a Replace on a non-existant node.
Specification Reference	[DMREPU] Chapter 6.6.11
SCR Reference	DMREPPRO-PCE-C-002 Support for 'Replace'
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Test Object MUST return a 404 status code.

5.7 Device Management Client Conformance Test Group #7

5.7.1 DeviceManagement-v1.2-client-con-0701

Test Case Id	DeviceManagement-v1.2-client-con-0701
Test Object	Client device
Test Case Description	To check if the Test Object handles the Sequence command correctly.
Specification Reference	[DMREPU] Chapter 6.6.14
SCR Reference	DMREPPRO-PCE-C-009 Support for receiving 'Sequence'
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Test Object MUST behave according to the rules specified for Sequence.

5.8 Device Management Client Conformance Test Group #8

5.8.1 DeviceManagement-v1.2-client-con-0801

Test Case Id	DeviceManagement-v1.2-client-con-0801
Test Object	Client device
Test Case Description	To check if the Test Object implements Confirmation User Interaction Alert command.
Specification Reference	[DMPRO] Chapter 10.2
SCR Reference	DM-PRO-UI-C-002 Executing Confirm or Reject Alert
Test Tool	SCTS DM 1.2 as a server
Preconditions	None
Pass-Criteria	The test object must accept the change and send a status of 200 status code on the Alert.

5.8.2 Reject on Confirmation User Interaction Alert command

Test Case Id	DeviceManagement-v1.2-client-con-0802
Test Object	Client device
Test Case Description	To check if the Test Object implements Confirmation User Interaction Alert command.

Specification Reference	[DMPRO] Chapter 10.2
SCR Reference	DM-PRO-UI-C-002 Executing Confirm or Reject Alert
Test Tool	SCTS DM 1.2 as a server
Preconditions	None
Pass-Criteria	The test object must reject the change and send a status of 304 status code on the Alert.

5.9 Device Management Client Conformance Test Group #9

5.9.1 DeviceManagement-v1.2-client-con-0901

Test Case Id	DeviceManagement-v1.2-client-con-0901
Test Object	Client device
Test Case Description	To check if the Test Object deletes a interior node correctly.
Specification Reference	[DMREPU] Chapter 6.6.5
SCR Reference	DMREPPRO-PCE-C-006 Support for receiving 'Delete'
Test Tool	SCTS DM 1.2 as a server
Preconditions	There should be interior node configured under test node.
Pass-Criteria	The Test Object MUST return either a 200/405 status code.

5.9.2 DeviceManagement-v1.2-client-con-0902

Test Case Id	DeviceManagement-v1.2-client-con-0902
Test Object	Client device
Test Case Description	To check if the Test Object sends a 404 status code for a Delete on a non-existant node.
Specification Reference	[DMREPU] Chapter 6.6.5
SCR Reference	DMREPPRO-PCE-C-006 Support for receiving 'Delete'
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Test Object MUST return a 404 status code.

5.9.3 DeviceManagement-v1.2-client-con-0903

Test Case Id	DeviceManagement-v1.2-client-con-0903
Test Object	Client device
Test Case Description	To check if the Test Object rejects a delete on a Permanent node
Specification Reference	[DMREPU] Chapter 6.6.5
SCR Reference	DMREPPRO-PCE-C-006 Support for receiving 'Delete'
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Test Object MUST return a 405 status code.

5.10 Device Management Client Conformance Test Group #10

5.10.1 DeviceManagement-v1.2-client-con-1001

Test Case Id	DeviceManagement-v1.2-client-con-1001
Test Object	Client device
Test Case Description	To check if the Test Object can handle multiple messages.
Specification Reference	[SYNCMETA]
SCR Reference	DSDM-METINF-S-009 Support for MaxMsgSize element
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The session MUST complete successfully.

5.11 Device Management Client Conformance Test Group #11

5.11.1 DeviceManagement-v1.2-client-con-1101

Test Case Id	DeviceManagement-v1.2-client-con-1101
Test Object	Client device
Test Case Description	To check if the Test Object handles the Atomic command correctly.
Specification Reference	[DMREPU] Chapter 6.6.3
SCR Reference	DMREPPRO-PCE-C-004 Support for receiving 'Atomic'
Test Tool	SCTS DM 1.2 as a server

Preconditions	None.
Pass-Criteria	The Test Object MUST return a 200 status code on the Atomic.

5.12 Device Management Client Conformance Test Group #12

5.12.1 DeviceManagement-v1.2-client-con-1201

Test Case Id	DeviceManagement-v1.2-client-con-1201
Test Object	Client device
Test Case Description	To check if the structure of the ./DevInfo standard object is correct.
Specification Reference	[DMSTDOBJ] Chapter 5.3.2
	[DMREPU] Chapter 6.6.12
SCR Reference	SCR-DM-STDOBJ-C-001 Support of DevInfo object
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Results returned by the Test Object MUST contain the names of all the mandatory nodes under /DevInfo seperated by /

5.12.2 DeviceManagement-v1.2-client-con-1202

Test Case Id	DeviceManagement-v1.2-client-con-1202
Test Object	Client device
Test Case Description	To check if the structure of the ./DevDetail standard object is correct.
Specification Reference	[DMSTDOBJ] Chapter 5.3.3
	[DMREPU] Chapter 6.6.12
SCR Reference	SCR-DM-STDOBJ-C-002 Support of DevDetail Object
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Results returned by the Test Object MUST contain the names of all the mandatory nodes under ./DevDetail seperated by /

5.12.3 DeviceManagement-v1.2-client-con-1203

Test Case Id	DeviceManagement-v1.2-client-con-1203
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Test Object	Client device
Test Case Description	To check if the structure of the DMAcc MO is correct.
Specification Reference SCR Reference	[DMSTDOBJ] Chapter 5.3.1 [DMSTDOBJ] SCR-DM-STDOBJ-C-003, SCR-DM-STDOBJ-S- 003
Test Tool	SCTS DM 1.2 as a server
Preconditions	Client must submit to server a DDF or XML schema description of the expected node structure
	2. Client must enter <interior node=""> location into the test tool</interior>
	3. Server address, port number, authentication settings, and connectivity definitions provisioned into the client as applicable.
Procedure	 Server will perform a GET on <interior node=""> as defined by submitted DDF or XML Schema</interior>
	2. Server will perform a GET on <interior node=""> / AppAddr/<x></x></interior>
	 If supported Server will perform a GET on <interior Node>/AppAddr/<x>/Port/<x></x></x></interior
	4. Server will perform a GET on <interior node="">/ AppAuth /<x>/</x></interior>
	5. If supported Server will perform a GET on <interior node="">/ ToConRef /<x></x></interior>
Pass-Criteria	The Results returned by the Test Object MUST contain the names of all the mandatory nodes under <interior node=""> separated by /. GET on <interior node=""> MUST also return appropriate optional nodes as defined in the DDF or XML Schema submitted by Client</interior></interior>
	1. GET on <interior node=""> MUST at least return:</interior>
	AppId / ServerId / AppAddr
	GET on <interior node=""> MAY also return the following node names as appropriate to submitted DDF</interior>
	Name / PrefConRef / ToConRef / AAuthPref / AppAuth / Ext
	2. GET on <interior node="">/AppAddr/<x>/ MUST at least return:</x></interior>
	Addr / AddrType
	GET on <interior node="">/AppAddr/<x>/ MAY also return the following node names as appropriate to submitted DDF:</x></interior>
	Port
	3. If applicable, GET on <interior node="">/AppAddr/<x>/Port/<x> MUST at least return:</x></x></interior>
	PortNbr

4. GET on <interior node="">/ AppAuth /<x>/ MUST at least return :</x></interior>
AAuthLevel/ AuthType
GET on <interior node="">/ AppAuth /<x>/ MAY also return the following node names as appropriate to submitted DDF:</x></interior>
AAuthName / AAuthSecret / AAuthData
5. If applicable, GET on <interior node="">/ ToConRef /<x> MUST at least return:</x></interior>
ConRef object

5.13 Device Management Client Conformance Test Group #13

5.13.1 DeviceManagement-v1.2-client-con-1301

Test Case Id	DeviceManagement-v1.2-client-con-1301	
Test Object	Client device	
Test Case Description	To check if the Root node has ACL.	
Specification Reference	[DMTND] Chapter 7.7.1	
	[DMREPU] Chapter 6.6.7	
SCR Reference	DMTND-Prop-C-001 Support for the ACL property	
Test Tool	SCTS DM 1.2 as a server	
Preconditions	None	
Pass-Criteria	Response to Get on '.?prop=ACL' MUST be 200 and the Results must contain valid ACL .	

5.13.2 DeviceManagement-v1.2-client-con-1302

Test Case Id	DeviceManagement-v1.2-client-con-1302
Test Object	Client device
Test Case Description	To check if Test Object supports Get on Format property on a Interior node ('.')
Specification Reference	[DMREPU] Chapter 6.6.7
	[DMTND] Chapter 7.2

SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get' DMTND-Prop-C-002 Support for the Format property	
Test Tool	SCTS DM 1.2 as a server	
Preconditions	None	
Pass-Criteria	Status to Get on '.?prop=Format' MUST be 200 and the Results must contain the data 'node'.	

5.13.3 DeviceManagement-v1.2-client-con-1303

Test Case Id	DeviceManagement-v1.2-client-con-1303	
Test Object	Client device	
Test Case Description	To check if Test Object supports Get on the Type property on a Interior node ('.').	
Specification Reference	[DMREPU] Chapter 6.6.7 [DMTND] Chapter 7.2	
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get' DMTND-Prop-C-008 Support for the Type property	
Test Tool	SCTS DM 1.2 as a server	
Preconditions	None	
Pass-Criteria	Response to Get on '.?prop=Type' MUST be 200 and the Results must be null or point to DDF document.	

5.13.4 DeviceManagement-v1.2-client-con-1304

Test Case Id	DeviceManagement-v1.2-client-con-1304	
Test Object	Client device	
Test Case Description	To check if the Test Object supports Get on the Size property on a Interior node ('.').	
Specification Reference	[DMREPU] Chapter 6.6.7	
	[DMTND] Chapter 7.2	
SCR Reference	DMREPPRO-PCE-C-008	Support for receiving 'Get'
	DMTND-Prop-C-005 nodes	No support for the Size property in interior
Test Tool	SCTS DM 1.2 as a server	
Preconditions	None	

Pass-Criteria	Status to Get on '.?prop=Size' MUST be a 406.
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5.13.5 DeviceManagement-v1.2-client-con-1305

Test Case Id	DeviceManagement-v1.2-client-con-1305	
Test Object	Client device	
Test Case Description	To check if the Test Object supports Get on the Name property on a Interior node ('./DevDetail/URI').	
Specification Reference	[DMREPU] Chapter 6.6.7	
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'	
	DMTND-Prop-C-003 Support for the Name property	
Test Tool	SCTS DM 1.2 as a server	
Preconditions	None	
Pass-Criteria	Status to Get on '.DevDetail/URI?prop=Name' MUST be 200 and the Results must have the data as 'URI'.	

5.13.6 DeviceManagement-v1.2-client-con-1306

Test Case Id	DeviceManagement-v1.2-client-con-1306	
Test Object	Client device	
Test Case Description	To check if the Test Object supports Get on the Size property on a leaf node('./DevDetail/URI/MaxTotLen').	
Specification Reference	[DMREPU] Chapter 6.6.7	
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'	
	DMTND-Prop-C-004 Support for the Size property in leaf nodes	
Test Tool	SCTS DM 1.2 as a server	
Preconditions	None	
Pass-Criteria	Status to Get on '.DevDetail/URI?prop=Size' MUST be 200.	

5.13.7 DeviceManagement-v1.2-client-con-1307

Test Case Id	DeviceManagement-v1.2-client-con-1307
Test Object	Client device
Test Case Description	To check the behaviour of the Test Object for Replace on the Name property on a permanent node('./DevDetail').

Specification Reference	[DMREPU] Chapter 6.6.11	
SCR Reference	DMREPPRO-PCE-C-002	Support for 'Replace'
	DMTND-Prop-C-003	Support for the Name property
Test Tool	SCTS DM 1.2 as a server	
Preconditions	None	
Pass-Criteria	Status to Replace on '.DevDetail?prop=Name' MUST be 405.	

5.13.8 DeviceManagement-v1.2-client-con-1308

Test Case Id	DeviceManagement-v1.2-client-con-1308	
Test Object	Client device	
Test Case Description	To check if the Test Object supports Replace on the ACL property on the interior test node.	
Specification Reference	[DMTND] Chapter 7.7.1	
	[DMREPU] Chapter 6.6.11	
SCR Reference	DMREPPRO-PCE-C-002 Support for 'Replace'	
	DMTND-Prop-C-001 Support for the ACL property	
Test Tool	SCTS DM 1.2 as a server	
Preconditions	An interior test node must be set prior to the execution of this test and there should be replace access rights for SCTS.	
Pass-Criteria	Status to Replace on the interior test node MUST be 200.	

5.14 Device Management Client Conformance Test Group #14

5.14.1 DeviceManagement-v1.2-client-con-1401

Test Case Id	DeviceManagement-v1.2-client-con-1401
Test Object	Client device
Test Case Description	To check if the Test Object enforces ACL. SCTS replaces the ACL of the test interior node to 'Get=*&Add=*&Replace=*' and issues a Get and Delete command.
Specification Reference	[DMTND] Chapter 7.7.1
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get' DMREPPRO-PCE-C-006 Support for receiving 'Delete' DMTND-Prop-C-001 Support for the ACL property
Test Tool	SCTS DM 1.2 as a server

Preconditions	SCTS should have replace access rights on the test interior node.
Pass-Criteria	SCTS should get a 200 status code for Get and 425 status code for Delete.

5.15 Device Management Client Conformance Test Group #15

5.15.1 DeviceManagement-v1.2-client-con-1501

Test Case Id	DeviceManagement-v1.2-client-con-1501
Test Object	Client device
Test Case Description	SCTS removes the Replace access right for the test interior node and tries to replace the ACL of a leaf node under the test interior node.
Specification Reference	[DMTND] Chapter 7.7.1
	[DMREPU] Chapter 6.6.11
SCR Reference	DMREPPRO-PCE-C-002 Support for 'Replace'
	DMTND-Prop-C-001 Support for the ACL property
Test Tool	SCTS DM 1.2 as a server
Preconditions	SCTS should have replace access right on the test interior node and this node should have atleast one leaf node as its child.
Pass-Criteria	SCTS should receive a 425 status code for the Replace.

5.16 Device Management Client Conformance Test Group #16

5.16.1 DeviceManagement-v1.2-client-con-1601

Test Case Id	DeviceManagement-v1.2-client-con-1601
Test Object	Client device
Test Case Description	To check if the Test Object deletes a leaf node correctly.
Specification Reference	[DMREPU] Chapter 6.6.5
SCR Reference	DMREPPRO-PCE-C-006 Support for receiving 'Delete'
Test Tool	SCTS DM 1.2 as a server
Preconditions	The device should allow Adding and Deleting of nodes. There should be a leaf node under the test node.
Pass-Criteria	The Test Object MUST return a 200/405 status code.

5.17 Device Management Client Conformance Test Group #17

5.17.1 DeviceManagement-v1.2-client-con-1701

Test Case Id	DeviceManagement-v1.2-client-con-1701
Test Object	Client device
Test Case Description	To check if the Test Object supports Large Object Delivery Mechanism.SCTS issues a Get on ./DevDetail/LrgObj.
Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'
	SCR-DM-STDOBJ-C-002 Support of DevDetail Object DM-PRO-C-004 Support of Large Object Handling. This is RECOMMENDED for clients.
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	SCTS should receive a status of 200 on Get and the result should contain a value of either 'true' or 'false'.

5.17.2 DeviceManagement-v1.2-client-con-1702

Test Case Id	DeviceManagement-v1.2-client-con-1702
Test Object	Client device
Test Case Description	To checks if the Test Object follows the Large Object Delivery rules.SCTS Adds a leaf node with a Large Object.
Specification Reference	[DMREPU] Chapter 6.6.1
SCR Reference	DMREPPRO-PCE-C-003 Support for receiving 'Add'
	DM-PRO-C-004 Support of Large Object Handling. This is RECOMMENDED for clients.
Test Tool	SCTS DM 1.2 as a server
Preconditions	This test is executed only if the Test Object indicates support for Large Object.
Pass-Criteria	SCTS should receive a status code of 200.

5.17.3 DeviceManagement-v1.2-client-con-1703

Test Case Id DeviceManagement-v1.2-client-con-1703		
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Test Object	Client device
Test Case Description	To check if the Test Object can send Results with a Large Object.SCTS issues a Get on the Large Object node added by the previous test case.
Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get' DMREPPRO-PCE-S-010 Support for receiving 'Results' DMREPPRO-PCE-C-010 Support for sending 'Results' DM-PRO-C-004 Support of Large Object Handling. This is RECOMMENDED for clients.
Test Tool	SCTS DM 1.2 as a server
Preconditions	This test is executed only if Test Case 1702 successfully added a leaf node with Large Object.
Pass-Criteria	SCTS should receive a status code of 200 on the Get and valid results.

5.17.4 DeviceManagement-v1.2-client-con-1704

Test Case Id	DeviceManagement-v1.2-client-con-1704
Test Object	Client device
Test Case Description	To check if the Test Object honors the server MaxObjSize.SCTS sends a small MaxObjSize and issues a Get on the Large Object added by Test case 1702
Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'
	DM-PRO-C-004 Support of Large Object Handling. This is RECOMMENDED for clients.
	DMREPPRO-MIE-C-005 Support for 'MaxObjSize'
Test Tool	SCTS DM 1.2 as a server
Preconditions	This test is executed only if Test Case 1702 successfully added a leaf node with Large Object.
Pass-Criteria	SCTS should receive a status code of 413.

5.18 Device Management Client Conformance Test Group #18

5.18.1 DeviceManagement-v1.2-client-con-1801

Test Case Id	DeviceManagement-v1.2-client-con-1801
Test Object	Client device

Test Case Description	To check if the Test Object can handle a Get with 'list=Struct'. SCTS issues a Get on './DevDetail?list=Struct'.
Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	SCTS should receive a status code of either 200/406. If status is 200, SCTS should receive valid results.

5.19 Device Management Client Conformance Test Group #19

5.19.1 DeviceManagement-v1.2-client-con-1901

Test Case Id	DeviceManagement-v1.2-client-con-1901
Test Object	Client device
Test Case Description	To check if the Test Object can handle a Get with 'list=Struct'. SCTS issues a Get on './DevDetail?list=StructData'.
Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	SCTS should receive a status code of either 200/406. If status is 200, SCTS should receive valid results.

5.20 Device Management Client Conformance Test Group #20

5.20.1 DeviceManagement-v1.2-client-con-2001

Test Case Id	DeviceManagement-v1.2-client-con-2001
Test Object	Client device
Test Case Description	To check if the Test Object supports Notification Initiated Session using HTTP.
Specification Reference	[DMNOTI] Chapter 6
SCR Reference	SCR-DM-NOTI-C-002 Receiving Notification message DMREPPRO-PCE-C-001 Support for sending 'Alert'
Test Tool	SCTS DM 1.2 as a server

Preconditions	None.
Pass-Criteria	The Test Object must verify the Notification HTTP headers and data format and connect to SCTS with a Alert of 1200.

5.21 Device Management Client Conformance Test Group #21

5.21.1 DeviceManagement-v1.2- client-con-2101

Test Case Id	DeviceManagement-v1.2- client-con-2101
Test Object	Client device
Test Case Description	Purpose of this test case is to check if the Test Object returns 405 for an Exec on a node where AccessType property does not contain Exec?.
Specification Reference	[DMREPU] Chapter 6.6.6
	[DMTND] Chapter 9.4.3
SCR Reference	DMREPRO-PCE-C-007
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Test Object MUST return a 405 status code.

5.21.2 DeviceManagement-v1.2-client-con-2102

Test Case Id	DeviceManagement-v1.2-client-con-2102
Test Object	Client device
Test Case Description	Purpose of this test case is to check if the Test Object returns 425 for an Exec on an ACL protected node.
Specification Reference	[DMREPU] Chapter 6.6.6
	[DMTND] Chapter 7
SCR Reference	DMREPRO-PCE-C-007, DMTND-Prop-C-001
Test Tool	SCTS DM 1.2 as a server
Preconditions	None.
Pass-Criteria	The Test Object MUST return a 425 status code.

5.22 Device Management Client Conformance Test Group #22

5.22.1 DeviceManagement-v1.2-client-con-2201

Test Case Id	DeviceManagement-v1.2-client-con-2201
Test Object	Device Management Client
Test Case Description	Purpose of this test case is to check if the Test Object supports implicit addition of parent interior nodes for an addition of a child node whose valid parent/parents does not exist in the DM Tree
Specification Reference	[DMREPU] Chapter 6.6.1
	[DMTND] Chapter 7
SCR Reference	NA
Test Tool	SCTS DM 1.2 as a server
Test Code	
Preconditions	Parent Node of the child node to be added does not exist.
	An stablished DM session between Test Tool and DM Client.
	SCTS Tool has sufficient rights to add a node on the DM tree.
Test Procedure	1- SCTS Server sends an add command including the complete URI of the child node.
	2- DM Clients Returns a 200 Status code.
	3- SCTS sends a get command on the newly added node.
	4- DM Client returns 200 Status Code.
	5- DM Client returns a result code with the value of the Node.
Pass-Criteria	The Test Object MUST return a 200 status code and the value of the newly Added child node.

5.23 Device Management Client Conformance TestGroup #23

5.23.1 DeviceManagement-v1.2-client-con-2301

Test Case Id	DeviceManagement-v1.2-client-con-2301
Test Object	Client device
Test Case Description	To check if the Test Object can handle a Get with 'list=TNDS'.
	SCTS issues a Get on './DevDetail?list=TNDS+ACL+Format+Value'

Specification Reference	[DMREPU] Chapter 6.6.7
	[DMTND] Chapter 8 and Appendix B
SCR Reference	DMTND-Prop-C-012 Support Get? list=TNDS
Test Tool	SCTS DM 1.2 as a server
Test Code	
Preconditions	An stablished DM session between Test Tool and DM Client.
	SCTS Tool has sufficient rights on /DevDetail.
	/DevDetail node exists on the DM Client Tree and contains some sub nodes.
Test-Procedure	1-SCTS Server issues a Get on './DevDetail?list=TNDS+ACL+Format+Value'
	2- DM Client returns 200 Status Code.
	3- DM Client returns a result code with the TNDS file fo the contents of the DevInfo (including ACLs, Format and Value)
Pass-Criteria	SCTS should receive valid results in TNDS format (including ACLs, Format and Value) .

5.24 Device Management Client Conformance Test Group #24

5.24.1 DeviceManagement-v1.2-client-con-2401

Test Case Id	DeviceManagement-v1.2-client-con-2401
Test Object	Client Device
Test Case Description	To check if the Test Object can handle the copy command, It would be followed by a Get command on both the URI
Specification Reference	[DMREPU] Chapter 6.6.4 and Annex B.
SCR Reference	DMREPPRO-PCE-C-005 Support for receiving 'Copy' command
Test Tool	SCTS DM 1.2 as a server
Test Code	
Preconditions	An stablished DM session between Test Tool and DM Client.
	SCTS Tool has sufficient rights on target node.
	SCTS Tool has sufficient rights on sorce node.
Test-Procedure	1- SCTS Server issues a copy to the DM Client.
	2- DM Client returns 200 Status Code.
	3- SCTS Server issues a Get on target node.

	4- DM Client returns 200 Status Code.
	5- DM Client returns result code.
	6- SCTS Server issues a Get on source node.
	7- DM Client returns 200 Status Code.
	8- DM Client returns result code.
Pass-Criteria	- DM Client returs a status 200 code for the copy.
	- Results from the get commend at the source at the same as results for the get command at the target.

5.25 Device Management Client Conformance Test Group #25

5.25.1 DeviceManagement-v1.2-client-con-2501

Test Case Id	DeviceManagement-v1.2-client-con-2501
Test Object	Client Device
Test Case Description	To check if the DM Client can support receiving and processing a Correlator.
Specification Reference	[DMREPU] Chapter 6.3 and Chapter 6.6.2
SCR Reference	DMREPPRO-PCE-C-007 Support for 'Exec'
	DM-PRO-GAlert-C-004 Support for Correlator
Test Tool	SCTS DM 1.2 as a Server
Test Code	
Preconditions	An established DM session between Test Tool and DM Client.
	A node capable of receiving an exec node exists in the DM Tree of the DM Client.
	SCTS Server has sufficient rights to exec a node on that node of the DM Client.
	Test object is capable of supporting Correlator.
Test procedure	SCTS Server need to be configured to send an Exec to a specified node
	2- SCTS Server sends an Exec command to the node with a Correlator.
	# Typically a process is being started at client by the EXEC command.
	# When the process is terminated, then:
	3- DM Client returns a Generic Alert including the same correlator.
Pass-Criteria	-Client returns 200 for the EXEC

	-Correlator of Exec command and Generic Alert are the same.
--	---

5.26 Device Management Client Conformance Test Group #26

5.26.1 DeviceManagement-v1.2-client-con-2601

Test Case Id	DeviceManagement-v1.2-client-con-2601
Test Object	Client device
Test Case Description	To test if the Test Object supports transport layer authentication using TLS over HTTP
Specification Reference	[DMSEC] Chapter 5.3 and 5.5.1.1
SCR Reference	DM-SEC-C-003 Support for transport layer authentication
	DM-SEC-C-004 Support for HTTP transport
	DM-SEC-C-013 Identifying that the server is using TLS1.0 or SSL3.0
	DM-SEC-C-014 Support for TLS
	DM-SEC-C-016 Supporting at least one of the cipher suites TLS_RSA_WITH_AES_128_CBC_SHA-1, TLS_RSA_WITH_3DES_EDE_CBC_SHA and TLS_RSA_WITH_RC4_128_SHA
Test Tool	SCTS DM 1.2 as a server
Preconditions	Client Device supports HTTP.
	Credentials / certificates necessary to perform authentication have been provisioned in Test Object and Tool.
Test Procedure	1. DM client initiates a session with the Test Tool requesting transport layer authentication using TLS and indicating cipher settings.
	2. Test Tool authenticates the DM client and sends the information the DM client needs to authenticate it.
	3. DM client authenticates the Test Tool and the TLS session is established.
	4. DM session is established between DM client and Test Tool
Pass-Criteria	- Test Tool authenticates the DM client
	- DM client authenticates the Test Tool
	- DM session is correctly established

5.26.2 DeviceManagement-v1.2-client-con-2602

Test Case Id	DeviceManagement-v1.2-client-con-2602
Test Object	Client device
Test Case Description	To test if the Test Object supports transport layer authentication using SSL

	3.0 over HTTP
Specification Reference	[DMSEC] Chapter 5.3 and 5.5.1.1
SCR Reference	DM-SEC-C-003 Support for transport layer authentication
	DM-SEC-C-004 Support for HTTP transport
	DM-SEC-C-013 Identifying that the server is using TLS1.0 or SSL3.0
1	DM-SEC-C-015 Support for SSL 3.0
	DM-SEC-C-017 Support for at least one of SSL_RSA_WITH_RC4_128_SHA and SSL_RSA_WITH_3DES_EDE_CBC_SHA
Test Tool	SCTS DM 1.2 as a server
Preconditions	Client Device supports HTTP.
	Credentials / certificates necessary to perform authentication have been provisioned in Test Object and Tool.
Test Procedure	1. DM client initiates a session with the Test Tool requesting transport layer authentication using SSL 3.0 and indicating cipher settings.
	2. Test Tool authenticates the DM client and sends the information the DM client needs to authenticate it.
	3. DM client authenticates the Test Tool and the SSL session is established.
	4. DM session is established between DM client and Test Tool
Pass-Criteria	- Test Tool authenticates the DM client
	- DM client authenticates the Test Tool
	- DM session is correctly established

6. Device Management Server Conformance Test Cases

The Test cases are listed according to the Test Groups. Each Test Group describes its Test cases and the relevant information regarding the message exchanged.

6.1 Device Management Server Conformance Test Group #1

6.1.1 DeviceManagement-v1.2-server-con-0101

Test Case Id	DeviceManagement-v1.2-server-con-0101
Test Object	Server device
Test Case Description	To check if the Test Object implements 'Server Layer Authentication'. SCTS sends SyncHdr with wrong credentials.
Specification Reference	[DMSEC] Chapter 5.1
	[REPRO] Chapter 6.2.2
SCR Reference	DSDM-RepPro-MCE-S-002 Support SyncHdr
Test Tool	SCTS DM 1.2 as a client
Preconditions	UserID and Password should be configured for the DMAccount in use.
Pass-Criteria	The Test Object MUST return a 401 status code on the SyncHdr

6.2 Device Management Server Conformance Test Group #2

6.2.1 DeviceManagement-v1.2-server-con-0201

Test Case Id	DeviceManagement-v1.2-server-con-0201
Test Object	Server device
Test Case Description	To check if the Test Object implements 'Server Layer Authentication'. SCTS sends SyncHdr with no credentials.
Specification Reference	[DMSEC] Chapter 5.1
	[REPRO] Chapter 6.2.2
SCR Reference	DSDM-RepPro-MCE-S-002 Support SyncHdr
Test Tool	SCTS DM 1.2 as a client
Preconditions	None.
Pass-Criteria	The Test Object MUST return a 407 status code on the first SyncHdr

6.2.2 DeviceManagement-v1.2-server-con-0202

Test Case Id	DeviceManagement-v1.2-server-con-0202	
Test Object	Server device	
Test Case Description	To check if the Test Object accepts the credentials sent and proceeds with the Sync Session.	
Specification Reference	[DMSEC] Chapter 5.1	
	[REPRO] Chapter 6.2.2	
SCR Reference	DSDM-RepPro-MCE-S-002 Support SyncHdr	
Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	The Test Object MUST return either a 200 or 212 status code on the first/second SyncHdr.	

6.2.3 DeviceManagement-v1.2-server-con-0203

Test Case Id	DeviceManagement-v1.2-server-con-0203	
Test Object	Server device	
Test Case Description	To check if the Test Object processed the Replace command with devInfo without errors.	
Specification Reference	[DMREPU] Chapter 6.6.11	
SCR Reference	DMREPPRO-PCE-S-002 Support for 'Replace'	
	SCR-DM-STDOBJ-S-001 Support of DevInfo object	
Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	The Test Object MUST return a 200 status code on the Replace.	

6.2.4 DeviceManagement-v1.2-server-con-0204

Test Case Id	DeviceManagement-v1.2-server-con-0204	
Test Object	Server device	
Test Case Description	To check if the Test Object processed the Alert command without errors.	
Specification Reference	[DMREPU] Chapter 6.6.2	
SCR Reference	DMREPPRO-PCE-S-001 Support for 'Alert'	

Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	The Test Object MUST return a 200 status code on the Alert.	

6.3 Device Management Server Conformance Test Group #3

6.3.1 DeviceManagement-v1.2-server-con-0301

Test Case Id	DeviceManagement-v1.2-server-con-0301	
Test Object	Server device	
Test Case Description	To check if the Test Object generates a valid Get command on a existing interior node (Root Node, '.').	
Specification Reference	[DMREPU] Chapter 6.6.7	
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'	
Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	SCTS should respond with a 200 status code on the Get.	

6.4 Device Management Server Conformance Test Group #4

6.4.1 DeviceManagement-v1.2-server-con-0401

Test Case Id	DeviceManagement-v1.2-server-con-0401	
Test Object	Server device	
Test Case Description	To check if the Test Object generates a valid Add command to add a leaf node (./SCTSValue).	
Specification Reference	[DMREPU] Chapter 6.6.1	
SCR Reference	DMREPPRO-PCE-S-003 Support for sending 'Add'	
Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	SCTS should respond with a 200 status code on the Add.	

6.5 Device Management Server Conformance Test Group #5

6.5.1 DeviceManagement-v1.2-server-con-0501

Test Case Id	DeviceManagement-v1.2-server-con-0501	
Test Object	Server device	
Test Case Description	To check if the Test Object generates a valid Replace command to replace the contents of a leaf node (./SCTSValue).	
Specification Reference	[DMREPU] Chapter 6.6.11	
SCR Reference	DMREPPRO-PCE-S-002 Support for 'Replace'	
Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	SCTS should respond with a 200 status code on the Replace.	

6.6 Device Management Server Conformance Test Group #6

6.6.1 DeviceManagement-v1.2-server-con-0601

7		
Test Case Id	DeviceManagement-v1.2-server-con-0601	
Test Object	Server device	
Test Case Description	To check if the Test Object generates a valid Delete command to delete a leaf node (./SCTSValue).	
Specification Reference	[DMREPU] Chapter 6.6.5	
SCR Reference	DMREPPRO-PCE-S-006 Support for sending 'Delete'	
Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	SCTS should respond with a 200 status code on the Delete.	

6.7 Device Management Server Conformance Test Group #7

6.7.1 DeviceManagement-v1.2-server-con-0701

Test Case Id	DeviceManagement-v1.2-server-con-0701
Test Object	Server device
Test Case Description	To check if the Test Object can handle multiple messages.
Specification Reference	[DMPRO] – Chapter 6, 8

	[DMREPU] – Chapter 6.1.7	
SCR Reference	DM-PRO-Mul-S-001 must contain Final	Last message within multiple messages
	DM-PRO-Mul-S-002 Multiple Messages then the N	If message that is not the last one within ext Message or Abort Alert must be sent
	DMREPPRO-MIE-S-003	Support for sending 'MaxMsgSize'
	DMREPPRO-MIE-S-004	Support for receiving 'MaxMsgSize'
Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	The session MUST complete s	successfully.

6.8 Device Management Server Conformance Test Group #8

6.8.1 DeviceManagement-v1.2-server-con-0801

Test Case Id	DeviceManagement-v1.2-server-con-0801	
Test Object	Server device	
Test Case Description	To check if the Test Object generates a valid Sequence command. Sequence should contain two Replace commands.	
Specification Reference	[DMREPU] Chapter 6.6.14	
	[DMREPU] Chapter 6.6.11	
SCR Reference	DMREPPRO-PCE-S-002 Support for 'Replace'	
	DMREPPRO-PCE-S-009 Support for sending 'Sequence'	
Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	SCTS should respond with a 200 status code on the Sequence.	

6.9 Device Management Server Conformance Test Group #9

6.9.1 DeviceManagement-v1.2-server-con-0901

Test Case Id	DeviceManagement-v1.2-server-con-0901
Test Object	Server device
Test Case Description	To check if the Test Object generates a valid Atomic command. Atomic should contain two Replace commands.
Specification Reference	[DMREPU] Chapter 6.6.3

SCR Reference	DMREPPRO-PCE-S-002	Support for 'Replace'
	DMREPPRO-PCE-S-004	Support for sending 'Atomic'
Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	SCTS should respond with a 2	200 status code on the Atomic.

6.10 Device Management Server Conformance Test Group #10

6.10.1 DeviceManagement-v1.2-server-con-1001

Test Case Id	DeviceManagement-v1.2-server-con-1001
Test Object	Server device
Test Case Description	To check if the Test Object can Add a text Large Object.(./SCTSLrgObjText).
Specification Reference	[DMREPU] Chapter 6.6.1
SCR Reference	DMREPPRO-PCE-S-003 Support for sending 'Add'DMREPPRO-MIE-S-003 Support for sending 'MaxMsgSize' DMREPPRO-MIE-S-005 Support for 'MaxObjSize' DMREPPRO-MIE-S-008 Support for 'Size'
Test Tool	SCTS DM 1.2 as a client
Preconditions	None.
Pass-Criteria	Successfully Add the text based large object that is larger than MaxMsgSize.Final status to Add should be 200.

6.10.2 DeviceManagement-v1.2-server-con-1002

Test Case Id	DeviceManagement-v1.2-server-con-1002
Test Object	Server device
Test Case Description	To check if the Test Object can Get a text Large Object.(./SCTSLrgObjText).
Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	DMREPPRO-PCE-S-008 Support for sending 'Get'
	DMREPPRO-MIE-S-004 Support for receiving 'MaxMsgSize' DMREPPRO-MIE-S-005 Support for 'MaxObjSize' DMREPPRO- MIE-S-008 Support for 'Size'
Test Tool	SCTS DM 1.2 as a client
Preconditions	None.

Pass-Criteria	Successfully Get the text based large object.	
	,	

6.11 Device Management Server Conformance Test Group #11

6.11.1 DeviceManagement-v1.2-server-con-1101

Test Case Id	DeviceManagement-v1.2-server-con-1101
Test Object	Server device
Test Case Description	To check if the Test Object can Add a binary Large Object.(./SCTSLrgObjBin).
Specification Reference	[DMREPU] Chapter 6.6.1
SCR Reference	DMREPPRO-PCE-S-003 Support for sending 'Add'
	DMREPPRO-MIE-S-003 Support for sending 'MaxMsgSize' DMREPPRO-MIE-S-005 Support for 'MaxObjSize'
	DMREPPRO-MIE-S-008 Support for 'Size'
Test Tool	SCTS DM 1.2 as a client
Preconditions	None.
Pass-Criteria	Successfully Add the binary large object that is larger than MaxMsgSize. Final status to Add should be 200.

6.11.2 DeviceManagement-v1.2-server-con-1102

Test Case Id	DeviceManagement-v1.2-server-con-1102
Test Object	Server device
Test Case Description	To check if the server can Get a binary Large Object from the client.
Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'
	DMREPPRO-MIE-S-004 Support for receiving 'MaxMsgSize' DMREPPRO-MIE-S-005 Support for 'MaxObjSize'
	DMREPPRO-MIE-S-008 Support for 'Size'
Test Tool	SCTS DM 1.2 as a client
Preconditions	Passed test case 1101
Pass-Criteria	Final status to Get on <leaf> MUST be 200 and the Results must contain the large object.</leaf>

6.12 Device Management Server Conformance Test Group #12

6.12.1 DeviceManagement-v1.2-server-con-1201

Test Case Id	DeviceManagement-v1.2-server-con-1201
Test Object	Server device
Test Case Description	To check if the Test Object responds with a status after SCTS has sent a Session Abort Alert 1223.
Specification Reference	[DMPRO] Chapter 8.1
SCR Reference	DM-PRO-Abort-S-002 Receiving Session Abort Alert
Test Tool	SCTS DM 1.2 as a client
Preconditions	None.
Pass-Criteria	Response to Session Abort Alert MUST be 200.

6.13 Device Management Server Conformance Test Group #13

6.13.1 DeviceManagement-v1.2-server-con-1301

Test Case Id	DeviceManagement-v1.2-server-con-1301
Test Object	Server device
Test Case Description	To check if the Test Object can send a Get with '.?list=Struct' and handle the results correctly.
Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	DMREPPRO-PCE-S-008 Support for sending 'Get'
Test Tool	SCTS DM 1.2 as a client
Preconditions	None.
Pass-Criteria	SCTS should receive a valid Get and the Test Object should send status of 200 to all the results sent by SCTS.

6.14 Device Management Server Conformance Test Group #14

6.14.1 DeviceManagement-v1.2-server-con-1401

Test Case Id	DeviceManagement-v1.2-server-con-1401
Test Object	Server device
Test Case Description	To check if the Test Object can send a Get with '.?list=StructData' and handle the results correctly.

Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	DMREPPRO-PCE-S-008 Support for sending 'Get'
Test Tool	SCTS DM 1.2 as a client
Preconditions	None.
Pass-Criteria	SCTS should receive a valid Get and the Test Object should send status of 200 to all the results sent by SCTS.

6.15 Device Management Server Conformance Test Group #15

6.15.1 DeviceManagement-v1.2-server-con-1501

Test Case Id	DeviceManagement-v1.2-server-con-1501
Test Object	Server device
Test Case Description	To check if the Test Object can send a UI Display Alert.
Specification Reference	[DMPRO] Chapter 10.2.1
SCR Reference	DM-PRO-UI-S-001 Sending Display Alert
Test Tool	SCTS DM 1.2 as a client
Preconditions	None.
Pass-Criteria	SCTS should respond with a status code of 200 to the Alert.

6.16 Device Management Server Conformance Test Group #16

6.16.1 DeviceManagement-v1.2-server-con-1601

Test Case Id	DeviceManagement-v1.2-server-con-1601
Test Object	Server device
Test Case Description	To check if the Test Object can send a UI Confirmation Alert.
Specification Reference	[DMPRO] Chapter 10.2.2
SCR Reference	DM-PRO-UI-S-002 Sending Confirm or Reject Alert
Test Tool	SCTS DM 1.2 as a client
Preconditions	None.
Pass-Criteria	SCTS should respond with a status code of 200/304 to the Alert.

6.17 Device Management Server Conformance Test Group #17

6.17.1 DeviceManagement-v1.2-server-con-1701

Test Case Id	DeviceManagement-v1.2-server-con-1701	
Test Object	Server device	
Test Case Description	To check if the Test Object can send a UI User Input Alert.	
Specification Reference	[DMPRO] Chapter 10.2.3	
SCR Reference	DM-PRO-UI-S-003 Sending Text Input Alert	
Test Tool	SCTS DM 1.2 as a client	
Preconditions	None.	
Pass-Criteria	SCTS should respond with a status code of 200 to the Alert.	

6.18 Device Management Server Conformance Test Group #18

6.18.1 DeviceManagement-v1.2-server-con-1801

Test Case Id	DeviceManagement-v1.2-server-con-1801		
Test Object	Server device		
Test Case Description	To check if the Test Object supports Notification Initiated Session using HTTP.		
Specification Reference	[DMNOTI] Chapter 6		
SCR Reference	SCR-DM-NOTI-S-002 Sending of Notification message		
Test Tool	SCTS DM 1.2 as a client		
Preconditions	None.		
Pass-Criteria	The Test Object must verify the Notification HTTP headers and data format and connect to SCTS with a Alert of 1200.		

6.19 Device Management Server Conformance Test Group #19

6.19.1 DeviceManagement-v1.2-server-con -1901

Test Case Id	DeviceManagement-v1.2-server-con -1901	
Test Object	Device management server	
Test Case Description	Purpose of this test case is to check if the Test Object can receive, parse and send status back to the Test Tool for a Generic alert 1226.	
Specification Reference	[DMPRO] Chapter 8.7	

SCR Reference	DM-PRO-S-009	
	DM-PRO-GAlert-S-001	
	DM-PRO-GAlert-S-002	
Tool	Test Tool as DM1.2 client	
Test Code		
Preconditions	None.	
Test Procedure	Test tool sends Package #1 (Client Initiated Management Alert) to the Test Object.	
	2. Test tool sends Generic Alert message to the Test Object.	
Pass-Criteria	The Test Object should respond with a status code of 200 or 202 to the Alert.	

6.20 Device Management Server Conformance Test Group #20

6.20.1 DeviceManagement-v1.2-server-con-2001

Test Case Id	DeviceManagement-v1.2-server-con-2001		
Test Object	DM Server		
Test Case Description	To check if the Test Object can support sending and receiving a correlator		
Specification Reference	[DMREPU] Chapter 6.3 and Chapter 6.6.2		
SCR Reference	DMREPPRO-PCE-S-007 Support for Sending 'Exec'		
	DM-PRO-S-009 Support of 'Generic Alert'		
	DMREPPRO-DDE-S-001 Support for sending 'Correlator'		
	DMREPPRO-DDE-S-002 Support for receiving 'Correlator'		
	DM-PRO-Galert-S-001 Support for receiving, parsing and send Status Back to Client		
Test Tool	SCTS DM 1.2 as a Client		
Test Code			
Preconditions	An established DM session between Test Tool and DM Server.		
	A node capable of receiving an exec node exists in the DM Tree of the SCTS.(e.g. $/x*/TestExec)$		
	DM Server has sufficient rights to exec a node on that node of the SCTS Tool.		
Test procedure	 Test object need to be configured to send an Exec to the specified node 		

	2- DM Server sends an Exec command to the node with a Correlator.	
	3- SCTS returns a Generic Alert including the same correlator.	
Pass-Criteria	-DM server is able to send exec including the correlator.	
	-SCTS returns 200 for a valid Exec command	
	-DM Server returns a status code 200 or 202 in response to the Generic alert	

6.21 Device Management Server Conformance Test Group #21

6.21.1 DeviceManagement-v1.2-server-con-2101

Total Consult	D. i. W	
Test Case Id	DeviceManagement-v1.2-server-con-2101	
Test Object	Server device	
Test Case Description	To test if the Test Object supports transport layer authentication using TLS over HTTP	
Specification Reference	[DMSEC] Chapter 5.3 and 5.5.1.1	
SCR Reference	DM-SEC-S-002 Support for client authentication at the transport layer	
	DM-SEC-S-014 Support for HTTP transport	
	DM-SEC-S-015 Support for TLS 1.0 [TLS]	
	DM-SEC-S-017 Using OMA DM over HTTP	
	DM-SEC-S-018 Using TLS	
	DM-SEC-S-020 Supporting all three cipher suites TLS_RSA_WITH_AES_128_CBC_SHA-1, TLS_RSA_WITH_3DES_EDE_CBC_SHA and TLS_RSA_WITH_RC4_128_SHA	
Test Tool	SCTS DM 1.2 as a client	
Preconditions	Server Device supports HTTP.	
	Credentials / certificates necessary to perform authentication have been provisioned in Test Object and Tool.	
Test Procedure	5. Test Tool initiates a session with the Server requesting transport layer authentication using TLS and indicating that it wishes to use cipher suite TLS_RSA_WITH_AES_128_CBC_SHA-1	
	6. Server authenticates the Test Tool and sends the information the Test Tool needs to authenticate it.	
	7. Test Tool authenticates the Server and the TLS session is established.	
	8. DM session is established between Server and Test Tool	
	9. Repeat steps 1-4 using cipher suites TLS_RSA_WITH_3DES_EDE_CBC_SHA and TLS_RSA_WITH_RC4_128_SHA	
Pass-Criteria	- Test Tool authenticates the DM server	

	-	DM server authenticates the Test Tool
	-	DM session is correctly established

6.21.2 DeviceManagement-v1.2-server-con-2102

Test Case Id	DeviceManagement-v1.2-server-con-2102	
Test Object	Server device	
Test Case Description	To test if the Test Object supports transport layer authentication using SSL 3.0 over HTTP	
Specification Reference	[DMSEC] Chapter 5.3 and 5.5.1.1	
SCR Reference	DM-SEC-S-002 Support for client authentication at the transport layer	
	DM-SEC-S-014 Support for HTTP transport	
	DM-SEC-S-016 Support for SSL3.0 [SSL3.0]	
	DM-SEC-S-017 Using OMA DM over HTTP	
	DM-SEC-S-019 Using SSL3.0	
	DM-SEC-S-021 Support for both of SSL_RSA_WITH_RC4_128_SHA and SSL_RSA_WITH_3DES_EDE_CBC_SHA	
Test Tool	SCTS DM 1.2 as a client	
Preconditions	Server Device supports HTTP.	
	Credentials / certificates necessary to perform authentication have been provisioned in Test Object and Tool.	
Test Procedure	1- Test Tool initiates a session with the Server requesting transport layer authentication using SSL 3.0 and indicating that it wishes to use cipher suite SSL_RSA_WITH_RC4_128_SHA	
	2- Server authenticates the Test Tool and sends the information the Test Tool needs to authenticate it.	
	3- Test Tool authenticates the Server and the TLS session is established.	
	4- DM session is established between Server and Test Tool	
	5- Repeat steps 1-4 using cipher suite SSL_RSA_WITH_3DES_EDE_CBC_SHA	
Pass-Criteria	- Test Tool authenticates the DM server	
	- DM server authenticates the Test Tool	
	- DM session is correctly established	

7. Device Management Interoperability Test Cases

7.1 DeviceManagement-v1.2-int-001

Test Case Id	DeviceManagement-v1.2-int-001		
Test Object	Client and Server device		
Test Case Description	Purpose of this verification is to show compliance with MD-5 client authentication.		
Specification Reference	[DMSEC] Chapter 5.3		
SCR Reference	DM-SEC-C-001 Client must authenticate itself to a server		
	DM-SEC-C-005 Send credentials to server		
	DM-SEC-C-008 Support for OMA DM syncml:auth-md5 type authentication		
	DM-SEC-S-006 MD5 challenge to client		
Preconditions	None.		
Test Procedure	Configure the SyncML DM Server to require MD5 authentication from the client. The client credentials shall be sent in Package 1, thereby avoiding the need for the server to challenge for them.		
	2. Establish the connection from the client.		
	3. Complete the DM session.		
	4. Check both the server and the client to verify the DM session has completed without any failures		
Pass-Criteria	1. DM session runs through without any communication problem.		

7.2 DeviceManagement-v1.2-int-002

Test Case Id	DeviceManagement-v1.2-int-002		
Test Object	Client and Server d	Client and Server device	
Test Case Description	Purpose of this verification is to show compliance with MD-5 server authentication.		
Specification Reference	[DMSEC] Chapter 5.3		
SCR Reference	DM-SEC-C-002	Client must authenticate a server	
	DM-SEC-C-006	Challenge Server	
	DM-SEC-C-008 authentication	Support for OMA DM syncml:auth-md5 type	
	DM-SEC-S-006	MD5 challenge to client	

Preconditions	None.	
Test Procedure	 Configure the SyncML DM client to require MD5 authentication from the server. The server credentials may be sent in Package 2 or not. If not, the client will issue a challenge and the server will subsequently provide the credentials Establish the connection from the client. Complete the DM session. Check both the server and the client to verify the DM session has completed without any failures. 	
Pass-Criteria	DM session runs through without any communication problem.	

7.3 DeviceManagement-v1.2-int-003

Test Case Id	DeviceManagement-v1.2-int-003	
Test Object	Client and Server device	
Test Case Description	Purpose of this verification is to show compliance with the GET command on a leaf node.	
Specification Reference	[DMREPU] Chapter 6.6.7 [DMTND] Chapter 6	
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get' DMREPPRO-PCE-S-008 Support for sending 'Get'	
Preconditions	None.	
Test Procedure	Use the client default authentication and connection settings.	
	2. In the server, configure it to perform a Get command on a leaf node.	
	 Example: In the server choose to receive the data value of a leaf node of Device Detail by sending a Get command: Get ./DevDetail/LrgObj 	
	3. Establish the connection from the client	
	4. Client returns data value for .the given leaf node.	
	 Example: In the server sent a Get command on ./DevDetail/LrgObj, the client returns true or false (must be lowercase) The Meta Format is also returned and MUST be bool. 	
	5. Complete the DM session.	

	6.	Verify the DM session completes without any errors.
	7.	Check the server received the data value from the client.
Pass-Criteria	1.	DM session runs through without any communication problem.
	2.	Server received the proper device detail from client. (Check from XML log if necessary.)

7.4 DeviceManagement-v1.2-int-004

Test Case Id	DeviceManagement-v1.2-int-004		
Test Object	Client and Server device		
Test Case Description	Purpose of this verification is to show compliance with the GET command on a node that doesn't exist.		
Specification Reference	[DMREPU] Chapter 6.6.7		
	[DMTND] Chapter 6		
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'		
	DMREPPRO-PCE-S-008 Support for sending 'Get'		
Preconditions	None.		
Test Procedure	Use the client default authentication and connection settings.		
	2. In the server, configure it to perform a Get on a non-existant node.		
	■ Example: In the server choose to receive the data value of a non-existant URI node by sending a Get command: Get /XYZ		
	3. Establish the connection from the client		
	4. The client returns a status code of 404 (Not found).		
	5. Complete the DM session.		
	6. Verify the DM session completes without any errors.		
	7. Check the server received the data value from the client.		
Pass-Criteria	DM session runs through without any communication problem.		
	Server received the proper device detail from client. (Check from XML log if necessary.)		

7.5 DeviceManagement-v1.2-int-005

Test Case Id	DeviceManagement-v1.2-int-005
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Test Object	Client and Server device		
Test Case Description	Purpose of this verification is to show compliance with the GET command on an interior node.		
Specification Reference	[DMREPU] Chapter 6.6.7		
	[DMTND] Chapter 6.2.2		
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'		
	DMREPPRO-PCE-S-008 Support for sending 'Get'		
Preconditions	None.		
Test Procedure	Use the client default authentication and connection settings.		
	2. In the server, configure it to perform a Get on an interior node.		
	■ Example: In the server choose to receive the data value of the URI node of Device Detail by sending a Get command: Get ./DevDetail/URI		
	3. Establish the connection from the client		
	4. Client returns data value that includes leaf node names.		
	Example: Client returns a data value that includes the leaf node names MaxDepth, MaxTotLen, and MaxSegLen separated by the "/" character. Note: The names can appear in any order.		
	5. Complete the DM session.		
	6. Verify the DM session completes without any errors.		
	7. Check the server received the data value from the client.		
Pass-Criteria	1. DM session runs through without any communication problem.		
	2. Server received the proper device detail from client. (Check from XML log if necessary.)		

7.6 DeviceManagement-v1.2-int-006

Test Case Id	DeviceManagement-v1.2-int-006		
Test Object	Client and Server device		
Test Case Description	Purpose of this verification is to show compliance with the GET on an inaccessible leaf node.		
Specification Reference	[DMREPU] Chapter 6.6.7		
	[DMTND] Chapter 6.2.5		
SCR Reference	DMREPPRO-PCE-C-008 Support for receiving 'Get'		

	DMREPPRO-PCE-S-008 Support for sending 'Get'
Preconditions	None.
Test Procedure	Use client default authentication and connection settings
	2. In the server, configure it to perform a Get command on an inaccessible leaf node. (An inaccessible leaf node for a Get is determined by looking at the DDF for the object and making sure the <dfproperties><accesstype> does not allow Get.)</accesstype></dfproperties>
	Example: In the server choose to receive the server password for reading DM Account settings. By assumption, the DM Server provisioned the DM Account parameters at an earlier time. Thus, to read the DM Account settings, the server sends the following commands, in which instance_name is replaced by the DM Account name of the server: Get ./SyncML/DMAcc/instance_name/ServerPW
	3. Establish the connection from the client.
	4. The client returns a status code of 405 (Command not allowed).
	5. Complete the DM session.
Pass-Criteria	DM session runs through without any communication problem.
	2. Client and Server show proper error messages.

7.7 DeviceManagement-v1.2-int-007

Test Case Id	DeviceManagement-v1.2-int-007		
Test Object	Client and Server device		
Test Case Description	Purpose of this verification is to show compliance with REPLACE on permanent leaf node.		
Specification Reference	[DMREPU] Chapter 6.6.11		
	[DMTND] Chapter 6.2.3		
SCR Reference			
	DMREPPRO-PCE-C-002 Support for 'Replace'		
	DMREPPRO-PCE-S-002 Support for 'Replace'		
Preconditions	None.		
Test Procedure	Use client default authentication and connection settings.		
	2. In the server, configure it to perform a Replace command on a permanent leaf node.		
	Example: In the server choose to replace the manufacturer identifier by sending a Replace command: Replace ./DevInfo/Man		

	3. I	Establish the connection from the client
	4. (Client returns a status of 405 (Command not allowed).
	5. (Complete the DM session.
	6. (Check the DM session goes without any errors.
Pass-Criteria	1.	The server successfully sent the requested value to the client.
	2. (Client and Server show proper error messages.
		The session runs through without any communication problem till the end.

7.8 DeviceManagement-v1.2-int-008

Test Case Id	DeviceManagement-v1.2-int-008		
Test Object	Client and Server device		
Test Case Description	Purpose of this verification is to show compliance with management node ACL behaviour.		
Specification Reference	[DMTND] Chapter 7.7.1		
SCR Reference	DMTND-Prop-C-001 Support for the ACL property		
	DMREPPRO-PCE-C-008 Support for receiving 'Get'		
	DMREPPRO-PCE-S-008 Support for sending 'Get'		
	DMREPPRO-PCE-C-002 Support for 'Replace'		
	DMREPPRO-PCE-S-002 Support for 'Replace'		
Preconditions	None.		
Test Procedure	Use client default authentication and connection settings.		
	2. In the server, configure it to perform a Sequence containing the following commands:		
	■ Example (the URI is negotiated between client and server vendor):		
	a. Get ./SyncML/DMAcc/instance_name?prop=ACL.		
	b. Replace ./SyncML/DMAcc/instance_name?prop=ACL		
	c. Get ./SyncML/DMAcc/instance_name?prop=ACL		
	3. Establish the connection from the client		
	4. Complete the DM session.		
	5. Check the DM session goes without any errors.		
Pass-Criteria	The server successfully sent the requested value to the client.		

2.	Client and Server show proper error messages. In a successful test, the status will be 200 for the sequence, 200 for the first Get, 200 for the Replace, and 425 (Permission Denied) for the 2 nd Get.
3.	The session runs through without any communication problem till the end.

7.9 DeviceManagement-v1.2-int-009

Test Case Id	DeviceManagement-v1.2-int-009	
Test Object	Client and Server device	
Test Case Description	Purpose of this verification is to show compliance with the error handling when connection failure occurs during the SyncML DM session.	
Specification Reference	[DMPRO] Chapter 8	
SCR Reference		
Preconditions	None.	
Test Procedure	 Use client default authentication and connection settings. Establish the connection from the client, but Stop the client-side data connection after the actual DM object exchange starts. For example, the client may be powered off during the session. Check from the server that the server shows the proper error message. Establish the connection from the client. Complete the DM session. Check the DM session goes without any errors. Check both from the server and the client that DM session has completed without any failures. 	
Pass-Criteria	 Second DM session runs through without any communication problem till the end. Client and Server show proper error messages. 	

7.10 DeviceManagement-v1.2-int-010

Test Case Id	DeviceManagement-v1.2-int-010
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to show compliance with HMAC client authentication.
Specification Reference	[DMSEC] Chapter 5.4
SCR Reference	DM-SEC-C-010 Integrity checking using HMAC-MD5
	DM-SEC-C-011 Inserting HMAC in transport

	DM-SEC-C-012 Using HMAC for all subsequent messages
	DM-SEC-S-011 Integrity checking using HMAC-MD5
	DM-SEC-S-012 Inserting HMAC in transport
	DM-SEC-S-013 Using HMAC for all subsequent messages
Preconditions	None.
Test Procedure	Configure DM settings on the SyncML DM Server and Client.
	2. Configure the SyncML DM Server to require HMAC authentication from the client.
	3. Establish the connection from the client.
	4. Complete the DM session.
	5. Check both the server and the client to verify the DM session has completed without any failures.
Pass-Criteria	1. DM session runs through without any communication problem.

7.11 DeviceManagement-v1.2-int-011

Test Case Id	DeviceManagement-v1.2-int-011
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to show compliance with HMAC server authentication.
Specification Reference	[DMSEC] Chapter 5.4
SCR Reference	DM-SEC-C-010 Integrity checking using HMAC-MD5
	DM-SEC-C-011 Inserting HMAC in transport
	DM-SEC-C-012 Using HMAC for all subsequent messages
	DM-SEC-S-011 Integrity checking using HMAC-MD5
	DM-SEC-S-012 Inserting HMAC in transport
	DM-SEC-S-013 Using HMAC for all subsequent messages
Preconditions	None.
Test Procedure	1. If applicable, set in the SyncML DM client to require HMAC authentication from the server. The server credentials may be sent in Package 2 or not. If not, the client will issue a challenge and the server will subsequently provide the credentials. (In the case it is not possible in the client, go on to the procedure 3.)

	2.	Establish the connection from the client.
	3.	Complete the DM session.
	4.	Check both the server and the client to verify the DM session has completed without any failures.
Pass-Criteria	1.	DM session runs through without any communication problem.

7.12 DeviceManagement-v1.2-int-012

Test Case Id	DeviceManagement-v1.2-int-012
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to show compliance with the large object/multiple commands.
Specification Reference	[DMPRO] Chapter 6, 7
SCR Reference	
	DMREPPRO-PCE-C-003 Support for receiving 'Add'
	DMREPPRO-PCE-S-003 Support for sending 'Add'
	DMREPPRO-PCE-C-010 Support for sending 'Results'
	DMREPPRO-PCE-S-010 Support for receiving 'Results'
	DM-PRO-C-004 Support of Large Object Handling. This is RECOMMENDED for clients.
	DM-PRO-S-004 Support of Large Object Handling DMREPPRO-MIE-C-005 Support for 'MaxObjSize'
Preconditions	None.
Test Procedure	Use client default authentication and connection settings
	2. In the server, configure it to perform an Add of a Large Object. Note: This test also exercises multiple commands per package.
	a. Example: Add <node>/LargeObj (this URI is negotiated between client and server vendor).</node>
	3. Establish the connection from the client.
	4. Complete the DM session.
	5. Check the DM session goes without any errors.
	6. Check the DM server sent the proper response to the client.
Pass-Criteria	1. DM session runs through without any communication problem.

2. Synchronisation runs through with a basic DM authentication.

7.13 DeviceManagement-v1.2-int-013

Test Case Id	DeviceManagement-v1.2-int-013
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to show compliance with notification initiated session.
Specification Reference	[DMNOTI] Chapter 5, 6
	[DMSEC] Chapter 5.6
	[DMREPU] Chapter 7
SCR Reference	SCR-DM-NOTI-C-001 Support of Server-Alerted Management Session
	SCR-DM-NOTI-S-001 Support of Server-Alerted Management Session
	DM-PRO-Session-C-003 Sending Server-Initiated mgmt Alert
Preconditions	None.
Test Procedure	Make the server initiate the client connecting into the server using the Notification Initiated Session mechanism.
	2. Client should use data in the notification to start a SyncML DM session with the server.
	3. The server should receive an Alert 1200 (Server Initiated Management) in package 1 from the client.
	4. Complete the DM session.
	5. Check the DM session goes without any errors.
Pass-Criteria	Client received the proper data in the notification to start a SyncML session with the server.
	2. DM session runs through without any communication problem.

7.14 DeviceManagement-v1.2-int-014

Test Case Id	DeviceManagement-v1.2-int-014
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to show compliance with Server Initiated bootstrap using Client Provisioning Profile.
Specification Reference	[DMBOOT] Chapter 5.3

	[DMSEC] Chapter 5.7.1
SCR Reference	DM-BOOT-C-001 Support for OMA Client Provisioning Profile
	DM-BOOT-S-001 Support for OMA Client Provisioning Profile
Preconditions	A DM Client to be bootstrapped supporting CP Profile
	 A DM Server supporting CP profile with bootstrap information (DM account and connectivity information) (Reference Content stored in the server CP_Prov_doc_1.xml)
Test Procedure	DM server sends out the bootstrap message
	2. On the client select to accept the incoming bootstrap message if necessary.
	3. Check that the device is bootstrapped with the bootstrap information sent by the DM server.
Pass-Criteria	DM client processes correctly the bootstrap message
	2. Bootstrap information contained in the w7 AC is successfully mapped to DM tree and DM client is correctly configured
	3. DM client is able to successfully establish a DM session with the server that initiated the bootstrap

7.15 DeviceManagement-v1.2-int-015

Test Case Id	DeviceManagement-v1.2-int-015
Test Object	Client and Smart Card device
Test Case Description	Purpose of this test is to check that a Device Management client supports bootstrap from the Smart Card using the Client Provisioning profile
Specification Reference	[DMBOOT] Section 5.3
	[DMBOOT] Appendix D
SCR Reference	DM-BOOT-C-001
	DM-BOOT-C-003
	DM-BOOT-C-004
	DM-BOOT-C-005
	DM-BOOT-C-006
	DM-BOOT-C-008
	DM-BOOT-C-009
Preconditions	A DM client to be configured supporting Client Provisioning Profile.
	A Smart Card with bootstrap information containing a w7

	APPLICATION characteristic (Reference content stored in the Smart Card: CP_Prov_doc_1.xml)
Test Procedure	1. Insert a smart card in the handset.
	2. Select to configure the terminal from the Smart Card if necessary.
	3. On the client, select to save the information read from the Smart Card on the client if necessary.
	4. Check that the bootstrap information is saved in the client.
	5. Check that the client can use the bootstrap information
Pass-criteria	1. The client is able to read the bootstrap configuration correctly from the smart card.
	2. The bootstrap information contained in the w7 application characteristic is correctly mapped into the DM tree
	3. DM client is able to successfully establish a DM session with the DM server indicated in the bootstrap message

7.16 DeviceManagement-v1.2-int-016

Test Case Id	DeviceManagement-v1.2-int-016
Test Object	Client and Smart Card device
Test Case Description	Purpose of this test is to check that a Device Management client supports bootstrap from the Smart Card using the Device Management Profile and WBXML encoded TNDS objects for the bootstrap information
Specification Reference	[DMBOOT] Section 5.4
	[DMBOOT] Appendix D
SCR Reference	DM-BOOT-C-002
	DM-BOOT-C-006
	DM-BOOT-C-007
	DM-BOOT-C-008
	DM-BOOT-C-009
	DM-BOOT-C-010
Preconditions	A DM client to be configured supporting the DM profile.
	A Smart Card with DM bootstrap information (DM Account and Connectivity Information) contained in WBXML encoded TNDS object (Reference content stored in the Smart Card: TNDS.xml)
Test Procedure	1. Insert a smart card in the handset.
	2. Check that the bootstrap information is saved in the client.
	3. Check that the client can use the bootstrap information

Pass-criteria	1.	The client is able to read the bootstrap configuration correctly from the smart card.	
	2.	The bootstrap information contained is correctly mapped to the DM tree	
	3.	The device is correctly configured according to bootstrap information from the smart card	
	4.	DM client is able to successfully establish a DM session with the DM server indicated in the bootstrap message	

7.17 DeviceManagement-v 1.2-int-017

Test Case Id	DeviceManagement-v 1.2-int-017	
Test Object	Client and Smart Card device	
Test Case Description	Purpose of this test is to check that a Client removes from the DM tree the account information for a DM Server previously bootstrapped from the Smart Card when that information is no longer present in the Smart Card	
Specification Reference	[DMBOOT] Section 5.3.5.1 and 5.4.6.	
SCR Reference	DM-BOOT-C-006	
	DM-BOOT-C-007	
	DM-BOOT-C-008	
	DM-BOOT-C-009	
Preconditions	A DM client supporting bootstrap from the Smart Card	
	A DM client provisioned from a Smart Card and with the Smart Card inside the terminal	
Test Procedure	6. Introduce a Smart Card containing bootstrap information	
	7. Verify that the DM client is provisioned with the corresponding account information contained in the Smart Card	
	8. Remove the Smart Card from the terminal.	
	9. Introduce another Smart Card with different bootstrap information	
Pass-criteria	The DM client should remove from the DM management tree the account information corresponding to the DM server bootstrapped from the first Smart Card	

7.18 DeviceManagement-v 1.2-int-018

Test Case Id	DeviceManagement-v 1.2-int-018	
Test Object	DM client and DM server	
Test Case Description	Purpose of this test is to check that a DM client supports server initiated bootstrap using the DM profile, WBXML encoded TNDS objects and the	

	Inbox, under transport neutral security when the transport method used does not have appropriate security. NETWORKID is used.		
Specification Reference	[TS-DM-Bootstrap] Section 5.4.1 [TS-DM-Security] Section 5.7.2.3		
SCR Reference	DM-BOOT-C-002	DM-SEC-C-022	
	DM-BOOT-C-010	DM-SEC-S-026	
	DM-BOOT-C-011		
	DM-BOOT-S-002		
	DM-BOOT-S-003		
Preconditions	A DM Client to be bootstra	pped supporting DM Profile	
		M profile with bootstrap information vity information) (Reference Content xml)	
		propriate security mechanisms for arely (e.g SMS, USSD) supported by a server.	
	Client and server supplemechanism	port for NETWORKID security	
Test Procedure	DM server sends out the bootstrap message along with the HI calculated using NETWORKID.		
	2. On the client select to accept necessary.	the incoming bootstrap message if	
	3. Check that the device is bootstr sent by the DM server.	apped with the bootstrap information	
Pass-criteria	1. The server is authenticated by the client		
	2. DM client processes correctly the	ne bootstrap message	
	3. Bootstrap information is succe client is correctly configured.	ssfully mapped to DM tree and DM	
	4. DM client is able to successfu server that initiated the bootstra	lly establish a DM session with the p	

7.19 DeviceManagement-v 1.2-int-019

Test Case Id	DeviceManagement-v 1.2-int-019
Test Object	DM client and DM server
Test Case Description	Purpose of this test is to check that a DM client supports server initiated bootstrap using the DM profile WBXML encoded TNDS objects and the Inbox under transport neutral security when the transport method used

	does not have appropriate security. USERPIN is used.		
Specification Reference	[TS-DM-Bootstrap] Section 5.4.1		
	[TS-DM-Security] Section 5.7.2.3		
SCR Reference	DM-BOOT-C-002	DM-SEC-C-023	
	DM-BOOT-C-010	DM-SEC-S-027	
	DM-BOOT-C-011		
	DM-BOOT-S-002		
	DM-BOOT-S-003		
Preconditions	A DM Client to be bootstrapped supporting DM Profile		
		DM profile with bootstrap information trivity information) (Reference Content (S.xml)	
		ppropriate security mechanisms for ecurely (e.g SMS, USSD) supported by M server	
	Client and server support	for USERPIN security mechanism	
Test Procedure	DM server sends out the boo calculated using USERPIN.	otstrap message along with the HMAC,	
	On the client select to acce necessary.	pt the incoming bootstrap message if	
	3. Check that the device is boot sent by the DM server.	strapped with the bootstrap information	
Pass-criteria	1. The server is authenticated by the client		
	2. DM client processes correctly	y the bootstrap message	
	3. Bootstrap information is suc client is correctly configured.	cessfully mapped to DM tree and DM	
	4. DM client is able to success server that initiated the bootst	fully establish a DM session with the rap	

7.20 DeviceManagement-v 1.2-int-020

Test Case Id	DeviceManagement-v 1.2-int-020	
Test Object	DM client and DM server	
Test Case Description	Purpose of this test is to check that a DM client supports server initiated bootstrap using the DM profile, WBXML encoded TNDS objects and the Inbox, under transport neutral security when the transport method used does not have appropriate security. USERPIN_NETWORKID is used.	

Specification Reference	[TS-DM-Bootstrap] Section 5.4.1 [TS-DM-Security] Section 5.7.2.3	
SCR Reference	DM-BOOT-C-002	DM-SEC-C-021
	DM-BOOT-C-010	DM-SEC-S-025
	DM-BOOT-C-011	
	DM-BOOT-S-002	
	DM-BOOT-S-003	
Preconditions	 A DM Client to be bootstrapped supporting DM Profile A DM Server supporting DM profile with bootstrainformation (DM account and connectivity information (Reference Content stored in the server: TNDS.xml) A transport without appropriate security mechanisms of bootstrapping a device securely (e.g SMS, USSD) supported both the DM client and DM server. 	
	Client and s security mechan	erver support for USERPIN_NETWORKID
Test Procedure		the bootstrap message along with the HMAC, RPIN_NETWORKID.
	5. On the client select necessary.	to accept the incoming bootstrap message if
	6. Check that the device sent by the DM serve	e is bootstrapped with the bootstrap information r.
Pass-criteria	4. The server is authenticated by the client DM	
	5. DM client processes	correctly the bootstrap message
	6. Bootstrap information client is correctly con	n is successfully mapped to DM tree and DM figured
	7. DM client is able to server that initiated the	successfully establish a DM session with the ne bootstrap

7.21 DeviceManagement-v1.2-int-021

Test Case Id	DeviceManagement-v1.2-int-021	
Test Object	Client and Server device	
Test Case Description	Purpose of this verification is to show compliance with UI Display Alert.	
Specification Reference	[DMPRO] Chapter 10.2.1	
	[DMREPU] Chapter 7	

SCR Reference	DM-PRO-UI-C-001 Executing Display Alert	
	DM-PRO-UI-S-001 Sending Display Alert	
Preconditions	None.	
Test Procedure	Use client default authentication and connection settings	
	2. In the server, configure it to send the UI Display Alert to the client with a message.	
	With this UI Alert, the user interaction options (MAXDT, MINDT, DR, MAXLEN, IT, ET) MAY be specified by the server.	
	3. Establish the connection from the client.	
	4. The message is displayed on the client device.	
	 The client MUST ignore all interaction options it does not understand. 	
	5. Complete the DM session.	
	6. Check the DM session goes without any errors.	
Pass-Criteria	DM session runs through without any communication problem.	
	2. Client received the proper UI Display Alert from the server.	

7.22 DeviceManagement-v1.2-int-022

Test Case Id	DeviceManagement-v1.2-int-022		
Test Object	Client and Server device		
Test Case Description	Purpose of this verification is to show compliance with UI Confirmation Alert.		
Specification Reference	[DMPRO] Chapter 10.2.2		
	[DMREPU] Chapter 7		
SCR Reference	DM-PRO-UI-C-002 Executing Confirm or Reject Alert		
	DM-PRO-UI-S-002 Sending Confirm or Reject Alert		
Preconditions	None.		
Test Procedure	Use client default authentication and connection settings		
	2. In the server, configure it to send the UI Confirmation Alert to the client with a message		
	With this UI Alert, the user interaction options (MAXDT, MINDT, DR, MAXLEN, IT, ET) MAY be specified by the server.		
	3. Establish the connection from the client.		

	4.	. The message is displayed on the client device.	
		 The client MUST ignore all interaction options it does not understand. 	
	5.	Depending on the client action, the status in the response will be 200 (Yes), 304 (No), or 214 (Cancel).	
	6.	Note: Optionally, the server could send the Alert within a Sequence or Atomic to verify the status returned for commands when the user action is No.	
	7.	Complete the DM session.	
	8.	Check the DM session goes without any errors.	
Pass-Criteria	1.	DM session runs through without any communication problem.	
	2.	Client received the proper UI Confirmation Alert from the server.	

7.23 DeviceManagement-v1.2-int-023

Test Case Id	DeviceManagement-v1.2-int-023
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to show compliance with UI Text Input Alert.
Specification Reference	[DMPRO] Chapter 10.2.3
	[DMREPU] Chapter 7
SCR Reference	
	DM-PRO-UI-C-003 Executing Text Input Alert
	DM-PRO-UI-S-003 Sending Text Input Alert
Preconditions	None.
Test Procedure	Use client default authentication and connection settings
	2. In the server, configure it to send the UI Text Input Alert to the client with a message
	With this UI Alert, the user interaction options (MAXDT, MINDT, DR, MAXLEN, IT, ET) MAY be specified by the server.
	3. Establish the connection from the client.
	4. The message is displayed on the client device and the user is allowed to enter some text.
	■ The client MUST ignore all interaction options it does not understand.
	5. The text is returned to the server.

	Complete the DM session.	
	Check the DM session goes without any errors.	
Pass-Criteria	DM session runs through without any communication	problem.
	Client received the proper UI Text Input Alert from the	ne server.

7.24 DeviceManagement-v1.2-int-024

Test Case Id	DeviceManagement-v1.2-int-024
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to show compliance with UI Single Choice Alert.
Specification Reference	[DMPRO] Chapter 10.2.4
	[DMREPU] Chapter 7
SCR Reference	DM-PRO-UI-C-004 Executing Single Choice Alert
	DM-PRO-UI-S-004 Sending Single Choice Alert
Preconditions	None.
Test Procedure	Use client default authentication and connection settings
	2. In the server, configure it to send the UI Single Choice Alert to the client with a message and several choices.
	With this UI Alert, the user interaction options (MAXDT, MINDT, DR, MAXLEN, IT, ET) MAY be specified by the server.
	3. Establish the connection from the client.
	4. The message is displayed on the client device and the user is allowed to select one item from the supplied choices.
	 The client MUST ignore all interaction options it does not understand.
	5. The index of the selected item (1 based) is returned to the server.
	6. Complete the DM session.
	7. Check the DM session goes without any errors.
Pass-Criteria	DM session runs through without any communication problem.
	2. Client received the proper UI Single Choice Alert from the server.

7.25 DeviceManagement-v1.2-int-025

Test Case Id	DeviceManagement-v1.2-int-025
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to show compliance with UI Multiple Choice Alert.
Specification Reference	[DMPRO] Chapter 10.2.4
	[DMREPU] Chapter 7
SCR Reference	DM-PRO-UI-C-005 Executing Multiple Choice Alert
	DM-PRO-UI-S-005 Sending Multiple Choice Alert
Preconditions	None.
Test Procedure	Use client default authentication and connection settings
	2. In the server, configure it to send the UI Multiple Choice Alert to the client with a message and several choices.
	With this UI Alert, the user interaction options (MAXDT, MINDT, DR, MAXLEN, IT, ET) MAY be specified by the server.
	3. Establish the connection from the client.
	4. The message is displayed on the client device and the user is allowed to select one or more items from the supplied choices.
	■ The client MUST ignore all interaction options it does not understand.
	5. The indexes of the selected items (1 based) are returned to the server.
	6. Complete the DM session.
	7. Check the DM session goes without any errors.
Pass-Criteria	DM session runs through without any communication problem.
	2. Client received the proper UI Multiple Choice Alert from the server.

7.26 DeviceManagement-v1.2-int-026

Test Case Id	DeviceManagement-v1.2-int-026
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to show compliance with the server reading subtree structure without data from part of the management tree.
Specification Reference	[DMREPU] Chapter 6.6.7
	[DMTND] Chapter 8

SCR Reference	
	DMREPPRO-PCE-C-008 Support for receiving 'Get'
	DMREPPRO-PCE-S-008 Support for sending 'Get'
Preconditions	None.
Test Procedure	Use client default authentication and connection settings.
	2. In the server, configure it to perform a Get command on an interior node to read a part of the subtree structure. Note: If this feature is not supported, the client should return status 406 (Optional feature not supported).
	 Example: In the server choose to receive the subtree structure of Device Detail: Get ./SyncML/DMAcc?list=Struct
	3. Establish the connection from the client.
	4. Complete the DM session.
	5. Check the DM session goes without any errors.
	6. Check the DM server sent the proper response to the client.
Pass-Criteria	1. Client didn't receive any DM data from the server.
	2. Server received part of the subtree structure.
	3. DM session runs through without any communication problem.
	4. Synchronisation runs through with a basic DM authentication.

7.27 DeviceManagement-v1.2-int-027

Test Case Id	DeviceManagement-v1.2-int-027
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to show compliance with the server reading subtree structure and data from part of the management tree.
Specification Reference	[DMREPU] Chapter 6.6.7
	[DMTND] Chapter 8
SCR Reference	
	DMREPPRO-PCE-C-008 Support for receiving 'Get'
	DMREPPRO-PCE-S-008 Support for sending 'Get'
Preconditions	None.
Test Procedure	Use client default authentication and connection settings.
	2. In the server, configure it to perform a Get command on an interior node

	to read a part of the subtree structure and data. Note: If this feature is not supported, the client should return status 406 (Optional feature not supported).
	 Example: In the server choose to receive the subtree structure and data of Device Detail: Get ./SyncML/DMAcc?list=StructData
	3. Establish the connection from the client.
	4. Complete the DM session.
	5. Check the DM session goes without any errors.
	6. Check the DM server sent the proper response to the client.
Pass-Criteria	1. Client didn't receive any DM data from the server.
	2. Server received part of the subtree structure and data.
	3. DM session runs through without any communication problem.
	4. Synchronisation runs through with a basic DM authentication.

7.28 DeviceManagement-v1.2-int-028

Test Case Id	DeviceManagement-v1.2-int-028
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to verify creation of new Application Setting in client using DM server
Specification Reference	[DMREPU] Chapter 6.6.7
SCR Reference	
Preconditions	One Access Point exists in client
Test Procedure	Establish the connection from the client.
	2. Request the supported fields of the Application from the client.
	3. Depending on the server functionality, fill the supported fields with new Application server data and send the Application Settings to the client. The Application server data can also be filled in server database or file before the connection to the client is established.
	4. Complete the DM session.
	5. Test the results by making a session using existing Access Point and new Application Settings set by DM session.
Pass-Criteria	Server accepts incoming call.
	2. Client sends supported fields.
	3. Server sends new settings.
	4. Connection closed.

5. Connection to the Application server established.
3. Connection to the Application server established.

7.29 DeviceManagement-v1.2-int-029

Test Case Id	DeviceManagement-v1.2-int-029
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to verify modification of Application Settings in client using DM server.
Specification Reference	[DMREPU] Chapter 6.6.11
SCR Reference	
Preconditions	Application Settings exist in client.
	Have another Application Settings available.
Test Procedure	Establish the connection from the client.
	2. Request the supported fields of the Application from the client.
	3. Depending on the server functionality, modify the supported fields with new Application server data and send the settings to the client. The Application server data can also be filled in server database or file before the connection to the client is established.
	4. Complete the DM session.
	5. Test the results by making a session using existing Access Point and new Application Settings set by DM session.
Pass-Criteria	Server accepts incoming call.
	2. Client sends supported fields.
	3. Server sends the new settings.
	4. Connection closed.
	5. Connection to the Application server established.

7.30 DeviceManagement-v1.2-int-030

Test Case Id	DeviceManagement-v1.2-int-030
Test Object	Client and Server device
Test Case Description	Purpose of this verification is to verify deletion of Application Settings in client using DM server.
Specification Reference	[DMREPU] Chapter 6.6.5
SCR Reference	
Preconditions	Application Settings exist in client.

	Have another Application Settings available.
Test Procedure	1. Establish the connection from the client.
	2. Request the supported fields of the Application from the client.
	3. Depending on the server functionality, delete the Application Settings from the client. The Application server data can also be filled in server database or file before the connection to the client is established.
	4. Complete the DM session.
	5. Check that no SyncML settings exist in the client.
Pass-Criteria	Server accepts incoming call.
	2. Client sends supported fields.
	3. Server deletes the Access Point.
	4. Connection closed.
	5. No Access Point in client.

7.31 DeviceManagement-v 1.2-int-031

Test Case Id	DeviceManagement-v 1.2-int-031
Test Object	Client and Server device
Test Case Description	Purpose of this test is to check that a DM client supports the Inbox object and that the information in the Inbox is correctly mapped onto the DM tree
Specification Reference	[DMSTDOBJ] Section 5.3.4
SCR Reference	DM-STDOBJ-C-004
	DM-STDOBJ-S-004
Preconditions	A DM client and DM server supporting the Inbox object
Test Procedure	The DM Client and Server establish a DM session
	2. The DM server sends an "ADD" command for a Standardized Management Object (e.g. DMAcc) with the URI: "./Inbox"
Pass-criteria	1. The device, using the management object identifier, resolves the correct location in the management tree to add that Management Object initially stored in the "./Inbox"

7.32 DeviceManagement-v 1.2-int-032

Test Case Id	DeviceManagement-v 1.2-int-032
--------------	--------------------------------

Test Object	Client and Server device
Test Case Description	Purpose of this test is to check that a Device Management client rejects <i>Get</i> operations from a DM server on the "./Inbox" node.
Specification Reference	[DMSTDOBJ] Section 5.3.4
SCR Reference	DM-BOOT-C-011
	DM-STDOBJ-C-004
Preconditions	A DM client supporting the Inbox object .
	• A DM server interested in retrieving information from the "./Inbox" of the DM client tree.
Test Procedure	1. The DM server establishes a DM session with the DM client
	2. The DM server performs a <i>Get</i> operation on the Inbox node in the DM client.
Pass-criteria	1. The client does not permit a <i>Get</i> operation on the "./Inbox" to be done from any server.
	2. The DM Client returns the status code "Command not allowed" (405) in response to a Get which targets "./Inbox" or any direct or indirect child node of "./Inbox".

7.33 DeviceManagement-v 1.2-int-033

Test Case Id	DeviceManagement-v 1.2-int-033	
Test Object	DM 1.1.2 client and DM 1.2 server	
Test Case Description	Purpose of this test is to verify backwards compatibility between a DM 1.2 server and a DM 1.1.2 client.	
Specification Reference	[OMA-SyncML-DMProtocol-V1_1_2] Section 8.3	
SCR Reference	[OMA-SyncML-DMConReqs-V_1_1_2] Section 6	
Preconditions	A DM 1.2 server	
	A bootstrapped DM 1.1.2 client	
Test Procedure	4. Establish the connection from the client	
	5. In the server, configure it to perform a Get on a specific node in the client. Example: Get ./DevDetail/URI	
	6. Client returns a data value that includes leaf node names: Example: Client returns a data value that includes the leaf node names MaxDepth, MaxTotLen and MaxSegLen	
Pass-criteria	The DM Session is correctly established between the DM server and the DM client	

2.	The DM 1.2 server responds to the Pkg#1 from the DM 1.1.2 client by using the protocol version specified by DM 1.1.2 enabler release for the remainder of that session.
3.	The Server receives the proper information from the client as response to the Get command

^{*} If this test case is successfully passed, the DM server should act as a DM 1.1.2 server (although it is supporting DM 1.2 too) in the rest of the test session, so the applicable test cases in this scenario are those contained in the DM 1.1.2 Enabler Test Specification

7.34 DeviceManagement-v 1.2-int-034

Test Case Id	DeviceManagement-v1.2-int-034		
Test Object	Client and Server device		
Test Case Description	Purpose of this test case is to check if the Test Object supports implicit addition of parent interior nodes for an addition of a child node whose valid parent/parents does not exist in the DM Tree		
Specification Reference	[DMREPU] Chapter 6.6.1		
	[DMTND] Chapter 7		
SCR Reference	N/A		
Preconditions	Parent Node of the child node to be added does not exist.		
	An stablished DM session between DM Server and DM Client.		
	DM Server has sufficient rights to add a node on the DM tree.		
Test Procedure	1- DM Server sends an add command including the complete URI of the child node.		
	2- DM Clients Returns a 200 Status code.		
	3- DM Server sends a get command on the newly added node.		
	4- DM Client returns 200 Status Code.		
	5- DM Client returns a result code with the value of the Node.		
Pass-Criteria	The Test Object MUST return a 200 status code and the value of the newly Added child node.		

7.35 DeviceManagement-v 1.2-int-035

Test Case Id	DeviceManagement-v1.2-int-035
Test Object	Client and Server device
Test Case Description	To check if the Test Object can handle a Get with 'list=TNDS'.

	DM Server issues a Get on './DevDetail?list=TNDS+ACL+Format+Value'	
Specification Reference	[DMREPU] Chapter 6.6.7	
	[DMTND] Chapter 8 and Appendix B	
SCR Reference	DMTND-Prop-C-012 Support Get? list=TNDS	
	DMTND-Prop-S-012 Support Get?list=TNDS	
Preconditions	An stablished DM session between DM Server and DM Client.	
	DM Server has sufficient rights on /DevDetail.	
	 /DevDetail node exists on the DM Client Tree and contains some sub nodes. 	
Test-Procedure	1-DM Server issues a Get on './DevDetail?list=TNDS+ACL+Format+Value'	
	2- DM Client returns 200 Status Code.	
	3- DM Client returns a result code with the TNDS file fo the contents of the DevInfo (including ACLs, Format and Value)	
Pass-Criteria	DM Server should receive valid results in TNDS format (including ACLs, Format and Value) .	

7.36 DeviceManagement-v 1.2-int-036

Test Case Id	DeviceManagement-v1.2-int-036	
Test Object	Client and Server device	
Test Case Description	To check if the Test Object can handle the copy command, It would be followed by a Get command on both the URI	
Specification Reference	[DMREPU] Chapter 6.6.4 and Annex B.	
SCR Reference	DMREPPRO-PCE-C-005 Support for receiving 'Copy' command	
	DMREPPRO-PCE-S-005 Support for receiving 'Copy' command	
Preconditions	An stablished DM session between Test Tool and DM Client.	
	DM Server has sufficient rights on target node.	
	DM Server has sufficient rights on source node.	
Test-Procedure	DM Server issues a copy to the DM Client.	
	2. DM Client returns 200 Status Code.	
	3. DM Server issues a Get on target node.	
	4. DM Client returns 200 Status Code.	
	5. DM Client returns result code.	
	6. DM Server issues a Get on source node.	

	7.	DM Client returns 200 Status Code.
	8.	DM Client returns result code.
Pass-Criteria	1.	DM Client returs a status 200 code for the copy.
	2.	Results from the get commend at the source at the same as results for the get command at the target.

7.37 DeviceManagement-v 1.2-int-037

Test Case Id	DeviceManagement-v1.2-int-037		
Test Object	Client and Server device		
Test Case Description	Purpose of this verification is to show capability of correlator use		
Specification Reference	[DMREPU] Chapter 6.3 and Chapter 6.6.2		
SCR Reference	DMREPPRO-PCE-C-007 Support for 'Exec'		
	DM-PRO-GAlert-C-004		
	DMREPPRO-PCE-S-007 Support for Sending 'Exec'		
	DM-PRO-S-009 Support of 'Generic Alert'		
	DMREPPRO-DDE-S-001 Support for sending 'Correlator'		
	DMREPPRO-DDE-S-002 Support for receiving 'Correlator'		
	DM-PRO-Galert-S-001 Support for receiving, parsing and send Status Back to Client		
Preconditions	An established DM session between DM Client and DM Server.		
	A node capable of receiving an exec node exists in the DM Tree of the DM Client.		
	DM Server has sufficient rights to exec a node on that node of the DM Client		
	Client is capable of supporting Correlator.		
Test Procedure	1. DM Server sends an Exec command to the node with a Correlator.		
	2. DM Client returns a Generic Alert including the same correlator.		
Pass-Criteria	DM server is able to send exec including the correlator. Client returns 200 for a valid Exec command.		
	2. DM Server returns a status code 200 or 202 in response to the Generic alert		
	3. Correlator of Exec node and Generic Alert are the same		

7.38 DeviceManagement-v 1.2-int-038

Test Case Id	DeviceManagement-v1.2-int-038	
Test Object	Client and Server device	
Test Case Description	Purpose of this verification is to show capability to add a serialized management object to the DM tree	
Specification Reference	[DMTNDS] Chapters 5 & 6	
SCR Reference	DM-TNDS-C-002 Support of Decoding a TNDS object	
	DM-TNDS-S-001 Support of Encoding a TNDS object	
Preconditions	A established DM session between server and client	
	A node in the DM tree in which the DM server has sufficient rights to perform an Add command	
Test Procedure	 3. DM Server sends an Add command with a TNDS serialized management object (for instance DMAcc) to a specific node in the tree 4. DM Server performs a Get for one of the child nodes included under the root of the added serialized Management Object (for instance if DMAcc is used it could be DMAcc/ServerId) 	
Pass-Criteria	 Client responds to the Add command with a 200 status The serialized MO is correctly mapped into the device DM tree. Client responds to the Get command with a 200 status and the correct value for the requested node 	

7.39 DeviceManagement-v1.2-int-039

Test Case Id	DeviceManagement-v1.2-int-039	
Test Object	Client and Server device	
Test Case Description	Purpose of this verification is to test transport layer authentication using TLS 1.0	
Specification Reference	[DMSEC] Chapter 5.3 and 5.5.1.1	
SCR Reference	DM-SEC-C-003 Support for transport layer authentication	
	DM-SEC-C-013 Identifying that the server is using TLS1.0 or SSL3.0	
	DM-SEC-C-014 Support for TLS	
	DM-SEC-C-016 Supporting at least one of the cipher suites TLS_RSA_WITH_AES_128_CBC_SHA-1, TLS_RSA_WITH_3DES_EDE_CBC_SHA and TLS_RSA_WITH_RC4_128_SHA DM-SEC-S-002 Support for client authentication at the transport layer	

	DM-SEC-S-015 Support for TLS 1.0 [TLS]
	DM-SEC-S-018 Using TLS
	DM-SEC-S-020 Supporting all three cipher suites TLS_RSA_WITH_AES_128_CBC_SHA-1, TLS_RSA_WITH_3DES_EDE_CBC_SHA and TLS_RSA_WITH_RC4_128_SHA
Preconditions	DM Client and Server support DM over the same transport protocol (HTTP or other)
	Credentials / certificates necessary to perform authentication have been provisioned in Server and Device prior to the test.
Test Procedure	5. DM client initiates a session with the DM Server requesting transport layer authentication using TLS and indicating cipher settings.
	6. DM Server authenticates the DM client and sends the information the DM client needs to authenticate it.
	7. DM client authenticates the DM Server and the TLS session is established.
	8. DM session is established between DM client and DM Server
Pass-Criteria	10. DM Server authenticates the DM client
	11. DM client authenticates the DM Server
	12. DM session is correctly established.

7.40 DeviceManagement-v1.2-int-040

Test Case Id	DeviceManagement-v1.2-int-040	
Test Object	Client and Server device	
Test Case Description	Purpose of this verification is to test transport layer authentication using SSL 3.0	
Specification Reference	[DMSEC] Chapter 5.3 and 5.5.1.1	
SCR Reference	DM-SEC-C-003 Support for transport layer authentication	
	DM-SEC-C-013 Identifying that the server is using TLS1.0 or SSL3.0	
	DM-SEC-C-015 Support for SSL 3.0	
	DM-SEC-C-017 Support for at least one of SSL_RSA_WITH_RC4_128_SHA and SSL_RSA_WITH_3DES_EDE_CBC_SHA	
	DM-SEC-S-002 Support for client authentication at the transport layer	
	DM-SEC-S-016 Support for SSL3.0 [SSL3.0]	
	DM-SEC-S-019 Using SSL3.0	
	DM-SEC-S-021 Support for both of SSL_RSA_WITH_RC4_128_SHA and	

	SSL_RSA_WITH_3DES_EDE_CBC_SHA	
Preconditions	DM Client and Server support DM over the same transport protocol (HTTP or other)	
	Credentials / certificates necessary to perform authentication have been provisioned in Server and Device prior to the test.	
Test Procedure	DM client initiates a session with the DM Server requesting transport layer authentication using SSL 3.0 and indicating cipher settings.	
	DM Server authenticates the DM client and sends the information the DM client needs to authenticate it.	
	3. DM client authenticates the DM Server and the SSL session is established.	
	4. DM session is established between DM client and DM Server	
Pass-Criteria	DM Server authenticates the DM client	
	2. DM client authenticates the DM Server	
	3. DM session is correctly established.	

Appendix A. Change History

(Informative)

A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version –or- No previous version within OMA

A.2 Draft/Candidate Version 1.2 History

Document Identifier	Date	Sections	Description
Draft Versions: OMA-ETS-DM-V1 2	01 Mar 2006		Draft ETS baseline Agreed in the 01 March 2006 CC (OMA-IOP-PRC-2006-0036R01)
_	03 May 2006	7.14	OMA-IOP-PRC-2006-0064-DM1.2Bootstrap-Test-Cases- improvement incorporated
		7.31	OMA-IOP-PRC-2006-0065-DM-1.2.TNDS-test-cases incorporated
		7.27, 7.28, 7.29	OMA-IOP-PRC-2006-0066-Remove-SCTS-references-in-DM-1.2interoperability-test-cases incorporated
		5.26, 6.21, 7.32, 7.33	OMA-IOP-PRC-2006-0067R01-DM-1.2Transport-Layer-Security- Test-Cases incorporated
	10 May 2006	5.12.3.	OMA-IOP-PRC-2006-0074-CR-DM1_2-DMAcc-test-case incorporated
	11 May 2006	n/a	Agreed by IOP WG prepared for TP approval
Candidate Versions : OMA-ETS-DM-V1 2	24 May 2006	n/a	Status changed to Candidate by TP R&A (2006-05-17 to 2006-05-23) OMA-TP-2006-0192-ETS_INP_DM_1_2_for_Candidate_Approval
_	05 Jul 2006	n/a	INT and interoperability removed from the filename and title page as the ETS covers both INT and CON test cases
	06 Jul 2006	n/a	The updated ETS, available as OMA-IOP-2006-0172 agreed in IOP.
			ETS prepared for notification OMA-TP-2006-0277-OMA-TP-2006-0277-OMA-ETS-DM_INT-V1_2_for_Notification.
	19 Apr 2007	App. C,	Incorprated CR:
		all	OMA-IOP-PRC-2006-0077R04
			Editorial change: Test case headings modified to match the template
		n/a	IOP WG Agreed
		all	ETS prepared for notification OMA-TP-2006-0277-OMA-TP-2006-0277-OMA-ETS-DM_INT-V1_2_for_Notification.

Appendix B. Reference Configuration Messages (Normative)

B.1 TNDS.xml

These reference document should be completed according to the specifics of the corresponding DM server being bootstrapped by substituting the bold text with the appropriate parameters for that server. Besides the nodes already marked as such, the nodes ToConRef and AppAuth are also optional and may not be included in the document.

```
<?xml version="1.0" encoding="UTF-8"?>
<SyncML xmlns='SYNCML:SYNCML1.2'>
           <SyncHdr>
                      <VerDTD>1.2</VerDTD>
                      <VerProto>DM/1.2</VerProto>
                      <SessionID>0</SessionID>
                      <MsgID>0</MsgID>
                      <Target>
                                 <LocURI>./</LocURI>
                      </Target>
                      <Source>
                                 <LocURI>http://www.operator.com/dm-server</LocURI>
                      </Source>
           </SyncHdr>
           <SyncBody>
                      <Add>
                                 <CmdID>1</CmdID>
                                 <Item>
                                            <Target>
                                                       <LocURI>./Inbox</LocURI>
                                            </Target>
                                           <Meta>
                                                      <Format xmlns='syncml:metinf'>xml</Format>
                                                      <Type xmlns='syncml:metinf'>
                                                                 application/vnd.syncml.dmtnds+xml
                                                       </Type>
                                            </Meta>
                                            <Data>
                                                      <![CDATA[
<SyncML xmlns='syncml:dmddf1.2'>
<MgmtTree>
           <VerDTD>1.2</VerDTD>
           <!-- <Man>The device manufacturer</Man> -->
           <!-- <Mod>The device model</Mod> -->
           <Node>
                      <NodeName>DMAcc</NodeName>
                      <RTProperties>
                                 <Format>
```

```
<node/>
           </Format>
</RTProperties>
<Node>
           <NodeName>AppID</NodeName>
           <RTProperties>
                       <Format>
                                  <chr/>
                       </Format>
                       <Type> text/plain </Type>
           </RTProperties>
           <Value>org.openmobilealliance/1.0/w7</Value>
</Node>
<Node>
           <NodeName>ServerID</NodeName>
           <RTProperties>
                       <Format>
                                  <chr/>
                       </Format>
                       <Type> text/plain </Type>
           </RTProperties>
           <Value>DM Server Identifier</Value>
</Node>
<Node>
           <NodeName>Name</NodeName>
           <RTProperties>
                       <Format>
                                  <chr/>
                       </Format>
                       <Type> text/plain </Type>
           </RTProperties>
           <Value>Optional DM Server Displayable Name</Value>
</Node>
<Node>
           <NodeName>PrefConRef</NodeName>
           <RTProperties>
                       <Format>
                                  <chr/>
                       </Format>
                       <Type>text/plain</Type>
           </RTProperties>
           <Value>Optional Reference to preferred connectivity information </Value>
</Node>
```

```
<Node>
               <NodeName>ToConRef</NodeName>
               <RTProperties>
                          <Format>
                                     <node/>
                          </Format>
               </RTProperties>
         <Node>
                          <NodeName>Connectivity Reference Name</NodeName>
                          <RTProperties>
                                     <Format>
                                                 <node/>
                                     </Format>
                          </RTProperties>
                          <Node>
                                     <NodeName>ConRef</NodeName>
                                     <RTProperties>
                                                 <Format>
                                                            <chr/>
                                                 </Format>
                                                 <Type> text/plain </Type>
                                     </RTProperties>
                                     <Value>Reference to Connectivity Information</value>
                          </Node>
         </Node>
   </Node>
   <Node>
               <NodeName>AppAddr</NodeName>
               <RTProperties>
                          <Format>
                                     <node/>
                          </Format>
               </RTProperties>
<Node>
                          <NodeName>Management Server Address Name</NodeName>
                          <RTProperties>
                                     <Format>
                                                 <node/>
                                     </Format>
                          </RTProperties>
                          <Node>
                                     <NodeName>Addr</NodeName>
                                     <RTProperties>
                                                 <Format>
                                                            <chr/>
                                                 </Format>
                                                 <Type> text/plain </Type>
                                     </RTProperties>
```

```
<Value>Management Server Address</Value>
                          </Node>
                          <Node>
                                     <NodeName>AddrType</NodeName>
                                     <RTProperties>
                                                <Format>
                                                           <chr/>
                                                </Format>
                                                <Type> text/plain </Type>
                                     </RTProperties>
                                     <Value>URI, IPv4 or IPv6</Value>
                          </Node>
                          <Node>
                                     <NodeName>Port</NodeName>
                                     <RTProperties>
                                                <Format>
                                                           <node/>
                                                </Format>
                                     </RTProperties>
                                     <Node>
                                                <NodeName>Port Name</NodeName>
                                                <RTProperties>
                                                           <Format>
                                                                      <node/>
                                                           </Format>
                                                </RTProperties>
                                                <Node>
                                                           <NodeName>PortNbr</NodeName>
                                                           <RTProperties>
                                                                      <Format>
                                                                                  <int/>
                                                                      </Format>
                                                                      <Type> text/plain </Type>
                                                           </RTProperties>
                                                           <Value>Port Number</Value>
                                                </Node>
                                     </Node>
                          </Node>
              </Node>
   </Node>
<Node>
               <NodeName>AauthPref</NodeName>
               <RTProperties>
                          <Format>
                                     <chr/>
                          </Format>
                          <Type>text/plain</Type>
               </RTProperties>
              <Value>Optional Preferred auth mechanism (see section 5.3.1.20 in [DMSTDOBJ])
```

```
</Node>
<Node>
              <NodeName>AppAuth</NodeName>
              <RTProperties>
                         <Format>
                                    <node/>
                         </Format>
              </RTProperties>
              <Node>
                         <NodeName>Authentication Settings Name
                         <RTProperties>
                                    <Format>
                                               <node/>
                                    </Format>
                         </RTProperties>
                         <Node>
                  <Node>
                                    <NodeName>AAuthLevel</NodeName>
                                    <RTProperties>
                                               <Format>
                                                          <chr/>
                                               </Format>
                                               <Type> text/plain </Type>
                                    </RTProperties>
                                    <Value>Auth Level Value (section 5.3.1.19 in [DMSTDOBJ]) 
                  </Node>
                  <Node>
                                    <NodeName>AAuthType</NodeName>
                                    <RTProperties>
                                               <Format>
                                                          <chr/>
                                               </Format>
                                               <Type> text/plain </Type>
                                    </RTProperties>
                                    <Value>Auth Type Value (section 5.3.1.20 in [DMSTDOBJ]) </vl>
                  </Node>
                  <Node>
                                    <NodeName>AAuthName</NodeName>
                                    <RTProperties>
                                               <Format>
                                                          <chr/>
                                               </Format>
                                               <Type> text/plain </Type>
                                    </RTProperties>
                                    <Value>Auth Name </Value>
                  </Node>
                  <Node>
                                    <NodeName>AAuthSecret</NodeName>
                                    <RTProperties>
```

```
<Format>
                                                                                <chr/>
                                                                     </Format>
                                                                    <Type> text/plain </Type>
                                                         </RTProperties>
                                                         <Value>Auth Secret</Value>
                                      </Node>
                                      <Node>
                                                         <NodeName>AAuthData</NodeName>
                                                         <RTProperties>
                                                                    <Format>
                                                                                <chr/>
                                                                    </Format>
                                                                    <Type> text/plain </Type>
                                                         </RTProperties>
                                                         <Value>Auth Nonce </Value>
                                      </Node>
                                  </Node>
                       </Node>
           </Node>
</MgmtTree>
</SyncML>
                                                         ]]>
                                             </Data>
                                  </Item>
                       </Add>
           </SyncBody>
</SyncML>
```

B.2 CP_Prov_doc_1.xml

This reference document should be completed according to the specifics of the corresponding DM server being bootstrapped and test fest infrastructure by substituting the bold text with the appropriate parameters.

</wap-provisioningdoc>

```
<parm name="PXADDRTYPE" value="Physical Proxy Address Type"/>
  <parm name="TO-NAPID" value="Reference to Access Point"/>
  <characteristic type="PORT">
   <parm name="PORTNBR" value="Port Number"/>
  </characteristic>
 </characteristic>
</characteristic>
<characteristic type="NAPDEF">
 <parm name="NAPID" value="Access Point ID"/>
<parm name="BEARER" value="Bearer type"/>
 <parm name="NAME" value="Access Point Name"/>
<parm name="NAP-ADDRESS" value="Access Point Address"/>
 <parm name="NAP-ADDRTYPE" value="Access Point Address Type"/>
 <characteristic type="NAPAUTHINFO">
  <parm name="AUTHTYPE" value="Authentication Type"/>
  <parm name="AUTHNAME" value="Authentication Name"/>
  <parm name="AUTHSECRET" value="Authentication Secret"/>
 </characteristic>
</characteristic>
<!-- APPLICATION characteristic for DM -->
<characteristic type="APPLICATION">
<parm name="APPID" value="w7"/>
<parm name="PROVIDER-ID" value="DM Server ID"/>
 <parm name="NAME" value="DM Server Name"/>
<parm name="ADDR" value="DM Server Address"/>
 <parm name="TO-NAPID" value="Reference to Access Point"/>
 <characteristic type="APPAUTH">
  <parm name="AAUTHLEVEL" value="Authentication Level"/>
  <parm name="AAUTHTYPE" value="Authentication Type"/>
  <parm name="AAUTHNAME" value="Authentication Name"/>
  <parm name="AAUTHSECRET" value="Authentication Secret"/>
  <parm name="AAUTHDATA" value="Authentication Nonce"/>
 </characteristic>
</characteristic>
```

Appendix C. SCR mapping to Test Case (Informative)

C.1 SCR for DM Client

DM Protocol Requirements

Item	Function	Test Case
DM-PRO-C-001	Support of Session Setup Phase	Implicit
DM-PRO-C-002	Support of Session Abort	N/A
DM-PRO-C-003	Support of Multiple Messages	DeviceManagement-v1.2-client-con- 1001
DM-PRO-C-004	Support of Large Object Handling. This is RECOMMENDED for clients.	DeviceManagement-v1.2-client-con- 1701 DeviceManagement-v1.2-client-con- 1702 DeviceManagement-v1.2-client-con- 1703 DeviceManagement-v1.2-client-con- 1704 DeviceManagement-v1.2-int-012
DM-PRO-C-005	Support of Management Phase	Implicit
DM-PRO-C-006	Support for executing Management Commands	Implicit
DM-PRO-C-007	Executing User Interaction Commands	DeviceManagement-v1.2-client-con- 0801 DeviceManagement-v1.2-client-con- 0802
DM-PRO-C-008	Support for sending Status and Result after receiving Management Operations	Implicit
DM-PRO-C-009	Support for standard SyncML command Format and Status and Result reporting	Implicit
DM-PRO-C-010	Support for sending asynchronous data via client initiated Alerts	DeviceManagement-v1.2-client-con- 0102
DM-PRO-C-011	Sending Generic Alert	DeviceManagement-v1.2-int-037

DM Session Setup Phase

Item	Function	Test Case
DM-PRO-Session-C-001	Support Server Notification	DeviceManagement-v1.2-int-013
DM-PRO-Session-C-002	Sending Client Initiation and Device Info (Package #1) including Final element	DeviceManagement-v1.2-int-013 DeviceManagement-v1.2-client-con- 0103
DM-PRO-Session-C-003	Sending Server-Initiated mgmt Alert	DeviceManagement-v1.2-int-013 DeviceManagement-v1.2-client-con- 0103

DM-PRO-Session-C-004	Sending Client-Initiated mgmt Alert	DeviceManagement-v1.2-int-013 DeviceManagement-v1.2-client-con- 0103
DM-PRO-Session-C-005	Sending Device Info in Replace Command in Package #1	DeviceManagement-v1.2-int-013 DeviceManagement-v1.2-client-con- 0103

Session Abort

Item	Function	Test Case
DM-PRO-Abort-C-001	Sending Session Abort Alert	N/A
DM-PRO-Abort-C-002	Receiving Session Abort Alert	N/A
DM-PRO-Abort-C-003	Session Abort message includes Status and Results of executed commands	N/A
DM-PRO-Abort-C-004	Include Final in Message	N/A
DM-PRO-Abort-C-005	Sender of Abort discards the response if response is received	N/A

Multiple Messages

Item	Function	Test Case
DM-PRO-Mul-C-001	Last message within multiple messages must contain Final	DeviceManagement-v1.2-client-con- 1001
DM-PRO-Mul-C-002	If message that is not the last one within Multiple Messages then the Next Message or Abort Alert must be sent	DeviceManagement-v1.2-client-con- 1001

Large Object

Item	Function	Test Case
DM-PRO-LO-C-001	Response with Status 213 if data chunk that is not the last one is received	DeviceManagement-v1.2-client-con- 1703
DM-PRO-LO-C-002	Management Commands inside Large Object is handled as Atomic	DeviceManagement-v1.2-client-con- 1702
DM-PRO-LO-C-003	While sending data chunks all chunks except the last one must include "MoreData"	DeviceManagement-v1.2-client-con- 1703
DM-PRO-LO-C-004	Indicate support for Large Object in DevDetail	DeviceManagement-v1.2-client-con- 1701
DM-PRO-LO-C-005	Data chunks must be sent in continuous order without any new commands	DeviceManagement-v1.2-client-con- 1703
DM-PRO-LO-C-006	Data that fits into a single message must be sent in a single message	DeviceManagement-v1.2-client-con- 1701
DM-PRO-LO-C-007	Sending MaxObjSize to indicate size limitations for Package	DeviceManagement-v1.2-client-con- 1701

DM-PRO-LO-C-008	Never encode packages bigger than the server indicated in MaxObjSize	DeviceManagement-v1.2-client-con- 1704
DM-PRO-LO-C-009	Include Size in first data chunk	DeviceManagement-v1.2-client-con- 1703
DM-PRO-LO-C-010	Validation of actual size and the Size value and report if not equal	DeviceManagement-v1.2-client-con- 1702 (Implicit)

User Interaction Commands

Item	Function	Test Case
DM-PRO-UI-C-001	Executing Display Alert	DeviceManagement-v1.2-int-021
DM-PRO-UI-C-002	Executing Confirm or Reject Alert	DeviceManagement-v1.2-client-con- 0801 DeviceManagement-v1.2-client-con- 0802 DeviceManagement-v1.2-int-022
DM-PRO-UI-C-003	Executing Text Input Alert	DeviceManagement-v1.2-int-023
DM-PRO-UI-C-004	Executing Single Choice Alert	DeviceManagement-v1.2-int-024
DM-PRO-UI-C-005	Executing Multiple Choice Alert	DeviceManagement-v1.2-int-025
DM-PRO-UI-C-006	Order of the Items MUST be used in the same order as in the DM message	N/A

Generic Alert

Item	Function	Test Case
DM-PRO-GAlert-C-001	The Generic Alert have a relation to a Management Object	DeviceManagement-v1.2-int-037
DM-PRO-GAlert-C-002	The Generic Alert does not have a relation to a Management Object	N/A
DM-PRO-GAlert-C-003	LocURI must reference the address to the corresponding Management Object	DeviceManagement-v1.2-int-037
DM-PRO-GAlert-C-004	Support for Correlator	DeviceManagement-v1.2-client-con- 2501 DeviceManagement-v1.2-int-037
DM-PRO-GAlert-C-005	Type must be included and it is RECOMMENDED to include URN or registered MIME-type as Type	N/A
DM-PRO-GAlert-C-006	Support for importance level, Mark	N/A

DM Representation Protocol

Common use elements

Item	Function	Test Case
DMREPPRO-CUE-C-001	Support for 'Chal'	DeviceManagement-v1.2-client-con- 0201
DMREPPRO-CUE-C-002	Support for 'Cmd'	Implicit
DMREPPRO-CUE-C-003	Support for 'CmdId'	Implicit
DMREPPRO-CUE-C-004	Support for 'CmdRef'	Implicit
DMREPPRO-CUE-C-005	Support for 'Cred'	Implicit
DMREPPRO-CUE-C-006	Support for 'Final'	DeviceManagement-v1.2-int-013 DeviceManagement-v1.2-client-con- 0103
DMREPPRO-CUE-C-007	Support for 'LocName'	Implicit
DMREPPRO-CUE-C-008	Support for 'LocURI'	DeviceManagement-v1.2-client-con- 0104
DMREPPRO-CUE-C-009	Support for 'MoreData'	DeviceManagement-v1.2-client-con- 1703
DMREPPRO-CUE-C-010	Support for 'MsgID'	Implicit
DMREPPRO-CUE-C-011	Support for 'MsgRef'	Implicit
DMREPPRO-CUE-C-012	Support for sending 'RespURI'	N/A
DMREPPRO-CUE-C-013	Support for receiving 'RespURI'	Implicit
DMREPPRO-CUE-C-014	Support for 'SessionID'	Implicit
DMREPPRO-CUE-C-015	Support for 'Source'	Implicit
DMREPPRO-CUE-C-016	Support for 'SourceRef'	Implicit
DMREPPRO-CUE-C-017	Support for 'Target'	Implicit
DMREPPRO-CUE-C-018	Support for 'TargetRef'	Implicit

Meta Information elements

Item	Function	Test Case
DMREPPRO-MIE-C-001	Support for 'EMI'	N/A
DMREPPRO-MIE-C-002	Support for 'Format'	DeviceManagement-v1.2-int-003
DMREPPRO-MIE-C-003	Support for sending 'MaxMsgSize'	DeviceManagement-v1.2-client-con- 1001
DMREPPRO-MIE-C-004	Support for receiving 'MaxMsgSize'	DeviceManagement-v1.2-client-con- 1001
DMREPPRO-MIE-C-005	Support for 'MaxObjSize'	DeviceManagement-v1.2-client-con- 1704 DeviceManagement-v1.2-int-012
DMREPPRO-MIE-C-006	Support for 'MetInf'	Implicit
DMREPPRO-MIE-C-007	Support for 'NextNonce'	N/A

DMREPPRO-MIE-C-008	Support for 'Size'	DeviceManagement-v1.2-client-con- 1304
DMREPPRO-MIE-C-009	Support for 'Type'	DeviceManagement-v1.2-client-con- 1303

Data description elements

Item	Function	Test Case
DMREPPRO-DDE-C-001	Support for sending 'Correlator'	DeviceManagement-v1.2-int-037
DMREPPRO-DDE-C-002	Support for receiving 'Correlator'	DeviceManagement-v1.2-int-037

Protocol command elements

Item	Function	Test Case
DMREPPRO-PCE-C-001	Support for sending 'Alert'	DeviceManagement-v1.2-client-con- 0102 DeviceManagement-v1.2-client-con- 2001
DMREPPRO-PCE-C-002	Support for 'Replace'	DeviceManagement-v1.2-client-con- 0103 DeviceManagement-v1.2-client-con- 0601 DeviceManagement-v1.2-client-con- 0602 DeviceManagement-v1.2-client-con- 1307 DeviceManagement-v1.2-client-con- 1308 DeviceManagement-v1.2-client-con- 1501 DeviceManagement-v1.2-int-007 DeviceManagement-v1.2-int-008
DMREPPRO-PCE-C-003	Support for receiving 'Add'	DeviceManagement-v1.2-client-con- 0501 DeviceManagement-v1.2-client-con- 0502 DeviceManagement-v1.2-client-con- 0503 DeviceManagement-v1.2-client-con- 1702 DeviceManagement-v1.2-int-012
DMREPPRO-PCE-C-004	Support for receiving 'Atomic'	DeviceManagement-v1.2-client-con- 1101
DMREPPRO-PCE-C-005	Support for receiving 'Copy'	DeviceManagement-v1.2-client-con- 2401 DeviceManagement-v1.2-int-036
DMREPPRO-PCE-C-006	Support for receiving 'Delete'	DeviceManagement-v1.2-client-con- 0901 DeviceManagement-v1.2-client-con- 0902 DeviceManagement-v1.2-client-con-

DMREPPRO-PCE-C-007	Support for receiving 'Exec'	0903 DeviceManagement-v1.2-client-con- 1401 DeviceManagement-v1.2-client-con- 1601 DeviceManagement-v1.2- client-con- 2101 DeviceManagement-v1.2- client-con- 2102 DeviceManagement-v1.2-client-con- 2501 DeviceManagement-v1.2-int-037
DMREPPRO-PCE-C-008	Support for receiving 'Get'	DeviceManagement-v1.2-client-con- 0302 DeviceManagement-v1.2-client-con- 0303 DeviceManagement-v1.2-client-con- 0304 DeviceManagement-v1.2-client-con- 1302 DeviceManagement-v1.2-client-con- 1303 DeviceManagement-v1.2-client-con- 1304 DeviceManagement-v1.2-client-con- 1305 DeviceManagement-v1.2-client-con- 1306 DeviceManagement-v1.2-client-con- 1401 DeviceManagement-v1.2-client-con- 1701 DeviceManagement-v1.2-client-con- 1703 DeviceManagement-v1.2-client-con- 1704 DeviceManagement-v1.2-client-con- 1801 DeviceManagement-v1.2-client-con- 1901 DeviceManagement-v1.2-int-003 DeviceManagement-v1.2-int-004 DeviceManagement-v1.2-int-005 DeviceManagement-v1.2-int-006 DeviceManagement-v1.2-int-008 DeviceManagement-v1.2-int-008 DeviceManagement-v1.2-int-026 DeviceManagement-v1.2-int-026
DMREPPRO-PCE-C-009	Support for receiving 'Sequence'	DeviceManagement-v1.2-int-027 DeviceManagement-v1.2-client-con- 0701
DMREPPRO-PCE-C-010	Support for sending 'Results'	DeviceManagement-v1.2-client-con- 0302 DeviceManagement-v1.2-client-con- 0303 DeviceManagement-v1.2-client-con- 1703 DeviceManagement-v1.2-int-012

Event Alert

Item	Function	Test Case
DMREPPRO-Alert-C-001	Sending Client Event Alert	N/A

DM Client Security requirements

The following specifies the ICS proforma tables for DM security for client devices that conform to [DMSEC].

Item	Function	Test Case
DM-SEC-C-001	Client must authenticate itself to a server	DeviceManagement-v1.2-client-con- 0201 DeviceManagement-v1.2-client-con- 0301 DeviceManagement-v1.2-int-001
DM-SEC-C-002	Client must authenticate a server	DeviceManagement-v1.2-int-002
DM-SEC-C-003	Support for transport layer authentication	DeviceManagement-v1.2-client-con- 2601 DeviceManagement-v1.2-int-039 DeviceManagement-v1.2-int-040
DM-SEC-C-004	Support for HTTP transport	DeviceManagement-v1.2-client-con- 2601
DM-SEC-C-005	Send credentials to server	DeviceManagement-v1.2-client-con- 0201 DeviceManagement-v1.2-client-con- 0301 DeviceManagement-v1.2-int-001
DM-SEC-C-006	Challenge Server	DeviceManagement-v1.2-int-002
DM-SEC-C-007	Support for application layer authentication	DeviceManagement-v1.2-client-con- 0201
DM-SEC-C-008	Support for OMA DM syncml:auth-md5 type authentication	DeviceManagement-v1.2-client-con- 0201 DeviceManagement-v1.2-client-con- 0301 DeviceManagement-v1.2-int-001 DeviceManagement-v1.2-int-002
DM-SEC-C-009	Accept challenges from server that has not yet been successfully authenticated	N/A
DM-SEC-C-010	Integrity checking using HMAC-MD5	DeviceManagement-v1.2-client-con- 0401 DeviceManagement-v1.2-int-010 DeviceManagement-v1.2-int-011
DM-SEC-C-011	Inserting HMAC in transport	DeviceManagement-v1.2-client-con- 0401 DeviceManagement-v1.2-int-010 DeviceManagement-v1.2-int-011

DM-SEC-C-012	Using HMAC for all subsequent messages	DeviceManagement-v1.2-client-con- 0401 DeviceManagement-v1.2-int-010 DeviceManagement-v1.2-int-011
DM-SEC-C-013	Identifying that the server is using TLS1.0 or SSL3.0	DeviceManagement-v1.2-client-con- 2601 DeviceManagement-v1.2-int-039
DM-SEC-C-014	Support for TLS	DeviceManagement-v1.2-client-con- 2601 DeviceManagement-v1.2-int-039 DeviceManagement-v1.2-int-040
DM-SEC-C-015	Support for SSL 3.0	DeviceManagement-v1.2-client-con- 2601
DM-SEC-C-016	Supporting at least one of the cipher suites TLS_RSA_WITH_AES_128_CBC_SHA-1, TLS_RSA_WITH_3DES_EDE_CBC_SHA and TLS_RSA_WITH_RC4_128_SHA	DeviceManagement-v1.2-client-con- 2601 DeviceManagement-v1.2-int-039
DM-SEC-C-017	Support for at least one of SSL_RSA_WITH_RC4_128_SHA and SSL_RSA_WITH_3DES_EDE_CBC_SHA	DeviceManagement-v1.2-int-040
DM-SEC-C-018	Bootstrap Security for Bootstrap via DM Profile	DM-1.2-int-018
DM-SEC-C-019	Transport neutral security for Bootstrap via DM Profile	DM-1.2-int-018
DM-SEC-C-020	Transport layer security for Bootstrap via DM Profile	DM-1.2-int-018
DM-SEC-C-021	Use of NETWORKID and USERPIN when Bootstrapping via DM Profile	DM-1.2-int-020
DM-SEC-C-022	Support of NETWORKID in Bootstrap via DM Profile	DM-1.2-int-018
DM-SEC-C-023	Support of USERPIN in Bootstrap via DM Profile	DM-1.2-int-019

DM Tree and Description

Item	Function	Test Case
DMTND-Prop-C-001	Support for the ACL property	DeviceManagement-v1.2-client-con- 1301
		DeviceManagement-v1.2-client-con- 1401
		DeviceManagement-v1.2-client-con- 1501
		DeviceManagement-v1.2-client-con- 2102
		DeviceManagement-v1.2-int-008
DMTND-Prop-C-002	Support for the Format property	DeviceManagement-v1.2-client-con- 1302
DMTND-Prop-C-003	Support for the Name property	DeviceManagement-v1.2-client-con- 1305 DeviceManagement-v1.2-client-con-
		1307

DMTND-Prop-C-004	Support for the Size property in leaf nodes	DeviceManagement-v1.2-client-con- 1306
DMTND-Prop-C-005	No support for the Size property in interior nodes	DeviceManagement-v1.2-client-con- 1304
DMTND-Prop-C-006	Support for the Title property	N/A
DMTND-Prop-C-007	Support for the TStamp property	N/A
DMTND-Prop-C-008	Support for the Type property	DeviceManagement-v1.2-client-con- 1303
DMTND-Prop-C-009	Support for the VerNo property	N/A
DMTND-Prop-C-010	Support Get?list=Struct	DeviceManagement-v1.2-int-026
DMTND-Prop-C-011	Support Get?list=StructData	DeviceManagement-v1.2-int-027
DMTND-Prop-C-012	Support Get?list=TNDS	DeviceManagement-v1.2-client-con- 2301 DeviceManagement-v1.2-int-035

DM Standardized Objects

Item	Function	Test Case
SCR-DM-STDOBJ-C-001	Support of DevInfo object	DeviceManagement-v1.2-client-con- 1201
SCR-DM-STDOBJ-C-002	Support of DevDetail Object	DeviceManagement-v1.2-client-con- 1202 DeviceManagement-v1.2-client-con- 1701
SCR-DM-STDOBJ-C-003	Support of DM Account Object	DeviceManagement-v1.2-client-con- 1203
SCR-DM-STDOBJ-C-004	Support of Inbox Object	DeviceManagement-v 1.2-int-031

DM Bootstrap Client

Item	Function	Test Case
DM-BOOT-C-001	Support for OMA Client Provisioning Profile	DeviceManagement-v1.2-int-014 DeviceManagement-v1.2-int-015
DM-BOOT-C-002	Support for OMA Device Management Profile	DeviceManagement-v1.2-int-016 DM-1.2-int-018 DM-1.2-int-019 DM-1.2-int-020
DM-BOOT-C-003	Provisioning Content granted Get, Replace and Delete ACL rights to ServerID in w7.	DeviceManagement-v1.2-int-015
DM-BOOT-C-004	Support for OMA Client Provisioning Profile AND OMA Device Management	DeviceManagement-v1.2-int-015
DM-BOOT-C-005	Map w7, NAPDEF (if supported) and PROXY (if supported) to management tree.	DeviceManagement-v1.2-int-015

DM-BOOT-C-006	Device supports a Smartcard.	DeviceManagement-v1.2-int-015 DeviceManagement-v1.2-int-016 DeviceManagement-v 1.2-int-017
DM-BOOT-C-007	DM Client is capable of detecting, retrieving, and processing DM Profile bootstrap data from the Smartcard.	DeviceManagement-v1.2-int-016 DeviceManagement-v 1.2-int-017
DM-BOOT-C-008	Smartcard bootstrap function is enabled by DM client and the smartcard has not been rejected by the device.	DeviceManagement-v1.2-int-015 DeviceManagement-v1.2-int-016 DeviceManagement-v 1.2-int-017
DM-BOOT-C-009	Device retrieves bootstrap data from the Smartcard and applies it to the device configuration.	DeviceManagement-v1.2-int-015 DeviceManagement-v1.2-int-016 DeviceManagement-v 1.2-int-017
DM-BOOT-C-010	Support for embedded WBXML encoded TNDS objects.	DeviceManagement-v1.2-int-016 DM-1.2-int-018 DM-1.2-int-019 DM-1.2-int-020
DM-BOOT-C-011	Support for Inbox.	DM-1.2-int-018 DM-1.2-int-019 DM-1.2-int-020 DeviceManagement-v 1.2-int-032

DM Notification Initiated Session

Item	Function	Test Case
SCR-DM-NOTI-C-001	Support of Server-Alerted Management Session	DeviceManagement-v1.2-client-con- 2001 DeviceManagement-v1.2-int-013
SCR-DM-NOTI-C-002	Receiving Notification message	DeviceManagement-v1.2-client-con- 2001

DM Tree and Description Serialization

Item	Function	Test Case
DM-TNDS-C-001	Support of Encoding a TNDS object	DeviceManagement-v1.2-client-con- 2301
DM-TNDS-C-002	Support of Decoding a TNDS object	DeviceManagement-v1.2-int-038

C.2 SCR for DM Server

DM Protocol Requirements

Item	Function	Test Case
DM-PRO-S-001	Support of Session Setup Phase	ALL (Implicit)
DM-PRO-S-002	Support of Session Abort	DeviceManagement-v1.2-server-con-

		1201
DM-PRO-S-003	Support of Multiple Messages	DeviceManagement-v1.2-server-con- 0701
DM-PRO-S-004	Support of Large Object Handling	DeviceManagement-v1.2-int-012
DM-PRO-S-005	Support of Management Phase	ALL (Implicit)
DM-PRO-S-006	Support for sending Management Commands	ALL (Implicit)
DM-PRO-S-007	Sending User Interaction Commands	DeviceManagement-v1.2-server-con- 1501 DeviceManagement-v1.2-server-con- 1601
DM-PRO-S-008	Support for sending Status and Results on Client Commands and Alerts	ALL (Implicit)
DM-PRO-S-009	Support of Generic Alert	DeviceManagement-v1.2-server-con- 2001 DeviceManagement-v1.2-int-037
DM-PRO-S-010	Support application layer authentication	DeviceManagement-v1.2-int-001

DM Session Setup Phase

Item	Function	Test Case
DM-PRO-Session-S-001	Support Server Notification	DeviceManagement-v1.2-server-con- 1801 DeviceManagement-v1.2-int-013
DM-PRO-Session-S-002	Support of receiving initiation message from client (Package #1), perform authentication and send initiation (Package #2)	Implicit

Session Abort

Item	Function	Test Case
DM-PRO-Abort-S-001	Sending Session Abort Alert	N/A
DM-PRO-Abort-S-002	Receiving Session Abort Alert	DeviceManagement-v1.2-server-con- 1201
DM-PRO-Abort-S-003	Session Abort message includes Status and Results of executed commands	N/A
DM-PRO-Abort-S-004	Include Final in Message	N/A
DM-PRO-Abort-S-005	Sender of Abort must discard the response if response is received	N/A

Multiple Messages

Item	Function	Test Case
DM-PRO-Mul-S-001	Last message within multiple messages must contain Final	DeviceManagement-v1.2-server-con-0701
DM-PRO-Mul-S-002	If message that is not the last one within Multiple Messages then the Next Message or Abort Alert must be sent	DeviceManagement-v1.2-server-con-0701

Large Object

Item	Function	Test Case
DM-PRO-LO-S-001	Response with Status 213 if data chunk that is not the last one is received	DeviceManagement-v1.2-server-con- 1001. DeviceManagement-v1.2-server-con- 1101
DM-PRO-LO-S-002	Management Commands inside Large Object is handled as Atomic	DeviceManagement-v1.2-server-con- 1002 DeviceManagement-v1.2-server-con- 1102
DM-PRO-LO-S-003	While sending data chunks all chunks except the last one must include "MoreData"	DeviceManagement-v1.2-server-con- 1001. DeviceManagement-v1.2-server-con- 1101
DM-PRO-LO-S-004	Data chunks must be sent in continues order without any new ccommands	DeviceManagement-v1.2-server-con- 1001. DeviceManagement-v1.2-server-con- 1101
DM-PRO-LO-S-005	Data that fits into a single message must be sent in a single message	DeviceManagement-v1.2-server-con- 1001. DeviceManagement-v1.2-server-con- 1101
DM-PRO-LO-S-006	Sending MaxObjSize to indicate size limitations for Package	DeviceManagement-v1.2-server-con- 1002 DeviceManagement-v1.2-server-con- 1102
DM-PRO-LO-S-007	Never encode packages bigger than the server indicated in MaxObjSize	DeviceManagement-v1.2-server-con- 1001. DeviceManagement-v1.2-server-con- 1101
DM-PRO-LO-S-008	Include Size in first data chunk	DeviceManagement-v1.2-server-con- 1001. DeviceManagement-v1.2-server-con- 1101
DM-PRO-LO-S-009	Validation of actual size and the Size value and report if not equal	DeviceManagement-v1.2-server-con- 1002 DeviceManagement-v1.2-server-con- 1102 (Implicit)

User Interaction Commands

Item	Function	Test Case
DM-PRO-UI-S-001	Sending Display Alert	DeviceManagement-v1.2-server-con- 1501 DeviceManagement-v1.2-int-021
DM-PRO-UI-S-002	Sending Confirm or Reject Alert	DeviceManagement-v1.2-server-con- 1601 DeviceManagement-v1.2-int-022
DM-PRO-UI-S-003	Sending Text Input Alert	DeviceManagement-v1.2-server-con- 1701 DeviceManagement-v1.2-int-023

DM-PRO-UI-S-004	Sending Single Choice Alert	DeviceManagement-v1.2-int-024
DM-PRO-UI-S-005	Sending Multiple Choice Alert	DeviceManagement-v1.2-int-025
DM-PRO-UI-S-006	Order of the Items MUST be followed in the DM message	DeviceManagement-v1.2-int-025:

Generic Alert

Item	Function	Test Case
DM-PRO-GAlert-S-001	Support for receiving, parsing and send Status back to client	DM-1.2-server-con-1901 DeviceManagement-v1.2-server-con- 2001 DeviceManagement-v1.2-int-037
DM-PRO-GAlert-S-002	Perform action from the data content in the Generic Alert	DM-1.2-server-con-1901

DM Representation Protocol

Common use elements

Item	Function	Test Case
DMREPPRO-CUE-S-001	Support for 'Chal'	Implicit
DMREPPRO-CUE-S-002	Support for 'Cmd'	Implicit
DMREPPRO-CUE-S-003	Support for 'CmdId'	Implicit
DMREPPRO-CUE-S-004	Support for 'CmdRef'	Implicit
DMREPPRO-CUE-S-005	Support for 'Cred'	Implicit
DMREPPRO-CUE-S-006	Support for 'Final'	DeviceManagement-v1.2-server-con- 0701
DMREPPRO-CUE-S-007	Support for 'LocName'	Implicit
DMREPPRO-CUE-S-008	Support for 'LocURI'	Implicit
DMREPPRO-CUE-S-009	Support for 'MoreData'	DeviceManagement-v1.2-server-con- 1001. DeviceManagement-v1.2-server-con- 1101
DMREPPRO-CUE-S-010	Support for 'MsgID'	Implicit
DMREPPRO-CUE-S-011	Support for 'MsgRef'	Implicit
DMREPPRO-CUE-S-012	Support for sending 'RespURI'	Implicit
DMREPPRO-CUE-S-013	Support for receiving 'RespURI'	Implicit
DMREPPRO-CUE-S-014	Support for 'SessionID'	Implicit
DMREPPRO-CUE-S-015	Support for 'Source'	Implicit
DMREPPRO-CUE-S-016	Support for 'SourceRef'	Implicit
DMREPPRO-CUE-S-017	Support for 'Target'	Implicit
DMREPPRO-CUE-S-018	Support for 'TargetRef'	Implicit

Data description elements

Item	Function	Test Case
DMREPPRO-DDE-S-001	Support for sending 'Correlator'	DeviceManagement-v1.2-server-con- 2001

		DeviceManagement-v1.2-int-037
DMREPPRO-DDE-S-002	Support for receiving 'Correlator'	DeviceManagement-v1.2-server-con- 2001 DeviceManagement-v1.2-int-037

Meta Information elements

Item	Function	Test Case
DMREPPRO-MIE-S-001	Support for 'EMI'	N/A
DMREPPRO-MIE-S-002	Support for 'Format'	Implicit
DMREPPRO-MIE-S-003	Support for sending 'MaxMsgSize'	DeviceManagement-v1.2-server-con- 0701 DeviceManagement-v1.2-server-con- 1001 DeviceManagement-v1.2-server-con- 1002 DeviceManagement-v1.2-server-con- 1101 DeviceManagement-v1.2-server-con- 1102
DMREPPRO-MIE-S-004	Support for receiving 'MaxMsgSize'	DeviceManagement-v1.2-server-con- 0701 DeviceManagement-v1.2-server-con- 1001 DeviceManagement-v1.2-server-con- 1002 DeviceManagement-v1.2-server-con- 1101 DeviceManagement-v1.2-server-con- 1102
DMREPPRO-MIE-S-005	Support for 'MaxObjSize'	DeviceManagement-v1.2-server-con- 1001. DeviceManagement-v1.2-server-con- 1101 DeviceManagement-v1.2-server-con- 1002. DeviceManagement-v1.2-server-con- 1102
DMREPPRO-MIE-S-006	Support for 'MetInf'	DeviceManagement-v1.2-server-con- 1001. DeviceManagement-v1.2-server-con- 1101 DeviceManagement-v1.2-server-con- 1002. DeviceManagement-v1.2-server-con- 1102
DMREPPRO-MIE-S-007	Support for 'NextNonce'	Implicit
DMREPPRO-MIE-S-008	Support for 'Size'	DeviceManagement-v1.2-server-con- 1001 DeviceManagement-v1.2-server-con- 1101 DeviceManagement-v1.2-server-con-

		1102
DMREPPRO-MIE-S-009	Support for 'Type'	Implicit

Protocol command elements

Item	Function	Test Case
DMREPPRO-PCE-S-001	Support for 'Alert'	DeviceManagement-v1.2-server-con- 0204
DMREPPRO-PCE-S-002	Support for 'Replace'	DeviceManagement-v1.2-server-con- 0203 DeviceManagement-v1.2-server-con- 0501 DeviceManagement-v1.2-server-con- 0801 DeviceManagement-v1.2-server-con- 0901 DeviceManagement-v1.2-int-007 DeviceManagement-v1.2-int-008
DMREPPRO-PCE-S-003	Support for sending 'Add'	DeviceManagement-v1.2-server-con- 0401 DeviceManagement-v1.2-server-con- 1001 DeviceManagement-v1.2-server-con- 1101 DeviceManagement-v1.2-int-012
DMREPPRO-PCE-S-004	Support for sending 'Atomic'	DeviceManagement-v1.2-server-con- 0901
DMREPPRO-PCE-S-005	Support for sending 'Copy'	DeviceManagement-v1.2-int-036
DMREPPRO-PCE-S-006	Support for sending 'Delete'	DeviceManagement-v1.2-server-con- 0601
DMREPPRO-PCE-S-007	Support for sending 'Exec'	DeviceManagement-v1.2-server-con- 2001 DeviceManagement-v1.2-int-037
DMREPPRO-PCE-S-008	Support for sending 'Get'	DeviceManagement-v1.2-server-con- 0301 DeviceManagement-v1.2-server-con- 1002 DeviceManagement-v1.2-server-con- 1102 DeviceManagement-v1.2-server-con- 1301 DeviceManagement-v1.2-server-con- 1401 DeviceManagement-v1.2-int-003 DeviceManagement-v1.2-int-004 DeviceManagement-v1.2-int-005 DeviceManagement-v1.2-int-006 DeviceManagement-v1.2-int-008 DeviceManagement-v1.2-int-026 DeviceManagement-v1.2-int-026 DeviceManagement-v1.2-int-027
DMREPPRO-PCE-S-009	Support for sending 'Sequence'	DeviceManagement-v1.2-server-con- 0801

DMREPPRO-PCE-S-010	Support for receiving 'Results'	DeviceManagement-v1.2-int-012
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Event Alert

Item	Function	Test Case
DMREPPRO-Alert-S-001	Receiving Client Event Alert	DeviceManagement-v1.2-server-con-
		0204

DM Server Security requirements

Item	Function	Test Case
DM-SEC-S-001	Different password for each client	N/A
DM-SEC-S-002	Support for client authentication at the transport layer	DeviceManagement-v1.2-server-con- 2101 DeviceManagement-v1.2-server-con- 2102 DeviceManagement-v1.2-int-039 DeviceManagement-v1.2-int-040
DM-SEC-S-003	Send credentials to client	DeviceManagement-v1.2-int-002 DeviceManagement-v1.2-int-011
DM-SEC-S-004	Challenge Client	DeviceManagement-v1.2-int-001 DeviceManagement-v1.2-int-010
DM-SEC-S-005	Support for clients authentication at the application layer	DeviceManagement-v1.2-int-001 DeviceManagement-v1.2-int-010
DM-SEC-S-006	MD5 challenge to client	DeviceManagement-v1.2-int-002
DM-SEC-S-007	MD5 challenge to client in conjunction with transport layer security	N/A
DM-SEC-S-008	Supply of a new nonce with one more challenge if authentication fails	DeviceManagement-v1.2-int-001
DM-SEC-S-009	Using new nonce for each new session	N/A
DM-SEC-S-010	Accept challenges from clients that have not yet been successfully authenticated	Implicit
DM-SEC-S-011	Integrity checking using HMAC-MD5	DeviceManagement-v1.2-int-010 DeviceManagement-v1.2-int-011
DM-SEC-S-012	Inserting HMAC in transport	DeviceManagement-v1.2-int-010 DeviceManagement-v1.2-int-011
DM-SEC-S-013	Using HMAC for all subsequent messages	DeviceManagement-v1.2-int-010 DeviceManagement-v1.2-int-011
DM-SEC-S-014	Support for HTTP transport	DeviceManagement-v1.2-server-con- 2101 DeviceManagement-v1.2-server-con- 2102
DM-SEC-S-015	Support for TLS 1.0 [TLS]	DeviceManagement-v1.2-server-con- 2101 DeviceManagement-v1.2-int-039

DM-SEC-S-016	Support for SSL3.0 [SSL3.0]	DeviceManagement-v1.2-server-con- 2102 DeviceManagement-v1.2-int-040
DM-SEC-S-017	Using OMA DM over HTTP	DeviceManagement-v1.2-server-con- 2101
DM-SEC-S-018	Using TLS	DeviceManagement-v1.2-server-con- 2101 DeviceManagement-v1.2-int-039
DM-SEC-S-019	Using SSL3.0	DeviceManagement-v1.2-server-con- 2102 DeviceManagement-v1.2-int-040
DM-SEC-S-020	Supporting all three cipher suites TLS_RSA_WITH_AES_128_CBC_SHA-1, TLS_RSA_WITH_3DES_EDE_CBC_SHA and TLS_RSA_WITH_RC4_128_SHA	DeviceManagement-v1.2-server-con- 2101 DeviceManagement-v1.2-int-039
DM-SEC-S-021	Support for both of SSL_RSA_WITH_RC4_128_SHA and SSL_RSA_WITH_3DES_EDE_CBC_SHA	DeviceManagement-v1.2-server-con- 2102 DeviceManagement-v1.2-int-040
DM-SEC-S-022	Bootstrap Security for Bootstrap via DM Profile	DeviceManagement-v 1.2-int-018 DeviceManagement-v 1.2-int-019 DeviceManagement-v 1.2-int-020
DM-SEC-S-023	Transport neutral security for Bootstrap via DM Profile	DeviceManagement-v 1.2-int-018 DeviceManagement-v 1.2-int-019 DeviceManagement-v 1.2-int-020
DM-SEC-S-024	Transport layer security for Bootstrap via DM Profile	N/A
DM-SEC-S-025	Use of NETWORKID and USERPIN when Bootstrapping via DM Profile	DM-1.2-int-020
DM-SEC-S-026	Support of NETWORKID in Bootstrap via DM Profile	DM-1.2-int-018
DM-SEC-S-027	Support of USERPIN in Bootstrap via DM Profile	DM-1.2-int-019

DM Tree and Description

Item	Function	Test Case
DMTND-Prop-S-001	Support for the ACL property	DeviceManagement-v1.2-int-008
DMTND-Prop-S-002	Support for the Format property	Implicit
DMTND-Prop-S-003	Support for the Name property	Implicit
DMTND-Prop-S-004	Support for the Size property in leaf nodes	DeviceManagement-v1.2-server-con- 1001 DeviceManagement-v1.2-server-con- 1101 DeviceManagement-v1.2-server-con- 1102
DMTND-Prop-S-005	No support for the Size property in interior nodes	N/A
DMTND-Prop-S-006	Support for the Title property	N/A
DMTND-Prop-S-007	Support for the TStamp property	N/A
DMTND-Prop-S-008	Support for the Type property	Implicit
DMTND-Prop-S-009	Support for the VerNo property	N/A

DMTND-Prop-S-010	Support Get?list=Struct	DeviceManagement-v1.2-server-con-
		1301
		DeviceManagement-v1.2-int-026
DMTND-Prop-S-011	Support Get?list=StructData	DeviceManagement-v1.2-server-con-
		1401
		DeviceManagement-v1.2-int-027
DMTND-Prop-S-012	Support Get?list=TNDS	DeviceManagement-v1.2-int-035

DM Standardized Objects

Item	Function	Test Case
SCR-DM-STDOBJ-S-001	Support of DevInfo object	DeviceManagement-v1.2-server-con- 0203
SCR-DM-STDOBJ-S-002	Support of DevDetail Object	Implicit
SCR-DM-STDOBJ-S-003	Support of DM Account Object	Implicit
SCR-DM-STDOBJ-S-004	Support of Inbox Object	DeviceManagement-v 1.2-int-031 DeviceManagement-v 1.2-int-032

DM Bootstrap Server

Item	Function	Test Case
DM-BOOT-S-001	Support for OMA Client Provisioning Profile	DeviceManagement-v1.2-int-014
DM-BOOT-S-002	Support for OMA Device Management Profile	DM-1.2-int-018 DM-1.2-int-019 DM-1.2-int-020
DM-BOOT-S-003	Encode DM message into WBXML.	DM-1.2-int-018 DM-1.2-int-019 DM-1.2-int-020

DM Notification Initiated Session

Item	Function	Test Case
SCR-DM-NOTI-S-001	Support of Server-Alerted Management Session	DeviceManagement-v1.2-server-con- 1801 DeviceManagement-v1.2-int-013
SCR-DM-NOTI-S-002	Sending of Notification message	DeviceManagement-v1.2-server-con- 1801
SCR-DM-NOTI-S-003	Notification message <version> field value is the binary value '0000001011'</version>	DeviceManagement-v1.2-server-con- 1801 DeviceManagement-v1.2-int-013

DM Tree and Description Serialization

Item	Function	Test Case
DM-TNDS-S-001	Support of Encoding a TNDS object	DeviceManagement-v1.2-int-038
DM-TNDS-S-002	Support of Decoding a TNDS object	DeviceManagement-v1.2-int-035