SailFin/SJSCAS1.0

TLS/SIPS Test Specification

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I. Introduction

This test spec aims to cover the TLS transport protocol and the SIPS URI scheme.

II. Test Scenarios - Summary

Tests summary table grouped by priority where P1 is highest priority and P2 and so on.. You can have till P5.

Index	*Priority*	*Test Scenario/ Assertion ID*	*Comments*
1.	P1	23-1 (UAS) Basic TLS transport	cause its important
2.	P1	23-2 (UAS) SIPS URI Scheme in request URI	cause this is important as well.
TOTAL =			
3.	P2	23-3	Not as important.
4.	P2	23-4	
5.	P2	23-5	
6.	P2	23-6	
TOTAL=			
6.	P3		
TOTAL=			

III. Test Scenarios Details

1) 23-1 (UAS) Basic TLS transport and isSecure()

Description/Strategy:
Test that a simple INVITE scenario using sip: URI scheme in request URI travel over TLS as specified.

It also verfies that the isSecure() method specified in JSR 289 returns correct value.

Requirement: RFC 3261, Chapter *26.4.3 TLS* and JSR 289 Chapter *5.4.3 TLS Attributes*.

Slingshot Scenario: 23_1_basic_tls.xml

Servlet: com.ericsson.eas.ft.tls.servlet.BasicTLS

2) 23-2 (UAS) SIPS URI Scheme in request URI

Description/Strategy:
When used in the Request-URI of a request, the SIPS scheme signifies that each hop over which the request is forwarded, until the request reaches the SIP entity responsible for the domain portion of the Request-URI, must be secured with TLS.

Requirement: RFC 3261, 26.2.2 SIPS URI Scheme

Slingshot Scenario: 23_2_sips_uri_scheme.xml

Servlet: com.ericsson.eas.ft.tls.servlet.BasicTLS

3) 23-3 (PROXY) Proxy according to incoming Request URI.

Description/Strategy:
When an application proxies a request it may subsequently be invoked to handle requests and responses related to that transaction or to subsequent transactions, if the application record-routed. The servlet sets proxy.setRecordRoute(true);

The proxied request MUST have a Record-Route header that MUST specify the sips: URI scheme.

Requirement: RFC 3261, 20.30 Record-Route and JSR 289 Chapter 10.3 Proxying and Sessions.

Slingshot Scenario: 23_3_proxy_sips_uri.xml

Servlet: com.ericsson.eas.ft.tls.servlet.proxyToRequestURIAndRecordRoute.

4) 23-4 (PROXY) Proxy according to new SIPS URI.

Description/Strategy:
Similar to 23-3 but this test case sends a sip: URI and the servlet proxies to a new sips: URI.

The proxied request MUST have a Record-Route header that MUST specify the sips: URI scheme.

The servlet sets proxy.setRecordRoute(true);

Requirement: RFC 3261, 20.30 Record-Route and JSR 289 Chapter 10.3 Proxying and Sessions.

Slingshot Scenario: 23_4_proxy_to_sips.xml

Servlet: com.ericsson.eas.ft.tls.servlet.proxyToCustomURIAndRecordRoute.

5) 23-5 (UAC) Create New Secure Request.

Description/Strategy:
Similar to 23-3 but this test case sends a sip: URI and the servlet proxies to a new sips: URI.

The proxied request MUST have a Record-Route header that MUST specify the sips: URI scheme.

The servlet sets proxy.setRecordRoute(true);

Requirement: RFC 3261, 20.30 Record-Route and JSR 289 Chapter 10.3 Proxying and Sessions.

Slingshot Scenario: 23_4_proxy_to_sips.xml

Servlet: com.ericsson.eas.ft.tls.servlet.proxyToCustomURIAndRecordRoute.

IV. Approvals/Reviewers

Name	Function	Date	Approval/ Reviewer	Comments
Jens Tinfors	Quality Engineer		Reviwer	Any buddy engineer should be ok.
Kristoffer Gronowski Per Pettersson	Engineering Module Owner		Approver	Mandatory email needed from the engineering module owner.
Binod P.G./ Prasad Subramanian/ Jagadesh Munta	Lead		Approver	Any one should be ok.
Srikanth Anandal/	Manager		Approver	Optional.

Name	Function	Date	Approval/ Reviewer	Comments
Sriram Lakkaraju				

V. References

http://www.ietf.org/rfc/rfc3261.txt
http://jcp.org/en/jsr/detail?id=289