



Feedback from the ETSI IPsec over IPv6 Interoperability Tests

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ETSI IPsec over IPv6 Tests



Introduction

- IPv6 plugtests
 - ◆ Organized by ETSI – <http://www.etsi.org/plugtests/>
- IPsec tests
 - ◆ Managed by HSC – <http://www.hsc.fr/ipsec/>
 - ◆ Interoperability only (no conformance tests)
 - ◆ HSC provided an OpenBSD 3.1 gateway for testing against





Participants

- 24 Total participating companies in the plugtest
- 5 willing to test IPsec
 - ◆ 1 found no time to test this feature
 - ◆ 1 could not test because his IPsec implementation was not ready yet
 - ◆ The 3 remaining were only able to do manual IPsec



Test Parameters

- Manual IPsec only
- Transport and tunnel mode
- AH, ESP, AH+ESP
- Varying encryption algorithms support:
 - ◆ NULL only for 2 implementations
 - ◆ DES or AES for the third one
- HMAC-MD5, HMAC-SHA1



Tests Results

- Difficulties for the participants finding common time slots, so most tests made with HSC's OpenBSD machine
- Most tests successful
 - ◆ All implementations required configuration adjustments before working
 - ◆ One had to debug the code on site
- Fragmentation tests ok for all except one
- Some issues with encrypted neighbor advertisement



Tests Conclusion

- Too few IPsec participants to draw general conclusion
- IPsec obviously not a priority for the IPv6 implementers present at this event
 - ◆ At least for the testing part: other features need to be tested before
 - ◆ Only the mandatory part (manual IPsec) is implemented, IKE is not included yet



Future ETSI Events

- <http://www.etsi.org/plugtests/02UpcomingEvents/calendar.htm>
- Next IPv6 plugtests
 - ◆ 12-14 May: remote plugtest
 - ◆ 22-26 September: Brussels
- ETSI is considering organizing an IPsec bakeoff in France in 2003
 - ◆ Tentative date: week after IETF in Vienna = 21-25 July 2003
 - ◆ IPsec over IPv4 and IPv6, NAT-T, remote access extensions, IKE v1 and v2...
 - ◆ Please answer survey to help plan the event
 - <http://www.etsi.org/plugtests/> → Calendar → IPsec
 - Or directly at http://www.etsi.org/plugtests/02UpcomingEvents/IPsec/IPsec2_interest.htm



For Further Info

- Those slides are available online:
<http://www.hsc.fr/presentations/etsi/>
- Contacts:
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