

DTLS 1.1

Eric Rescorla

Network Resonance

`ekr@networkresonance.com`

Overview

- Update to match TLS 1.2
 - Mostly s/TLS 1.1/TLS 1.2/
- Clarify confusing points in the spec
- No other changes

TLS 1.2 Upgrade

- DTLS 1.0 is a delta off TLS 1.1
 - This is intentional
 - Not clear you can just pick a random version (cf. TLS 1.0)
- But now TLS 1.2 is out
 - Need to upgrade
- Proposal: Rev DTLS version to 1.1 and have it matched to TLS 1.2
 - Question: would it be better to go to 1.2 to match versions?

Known Issue 1: HelloVerifyRequest and CertificateVerify

- S 4.1.2. specifies that the first ClientHello and HelloVerifyRequest are not included in Finished
- Nothing is said about CertificateVerify
- Proposal: it's not included there either

Handshake Headers and Hashes

- DTLS handshake messages are:

```
struct {  
    HandshakeType msg_type;  
    uint24 length;  
    uint16 message_seq;           // New field  
    uint24 fragment_offset;     // New field  
    uint24 fragment_length;     // New field  
    ...  
}
```

- How are handshake hashes computed with fragmentation
 - Reassemble and then hash
 - Include the headers?
 - * This isn't clear in the spec (answer is "yes" in TLS)
- Proposal: change the text to make this clear

Planned Timeline

- Gather other issues
 - Call on the mailing list
 - Have them by 31-April-08
- Discuss contentious issues on mailing list
- New draft by 31-May-08
- Resolve final contentious issues in Dublin