

Device Pairing Using Short Authentication Strings draft-ietf-dnssd-pairing-01.txt

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Changes since draft-00

- Review by Steve Kent
- Simplifications
- Precisions

Rewrote the QR code section

- Was a bit confusing, now very direct
- Phase 1, Discovery
 - Use DNS-SD to discover “_pairing._tcp”; Or,
 - Optionally, scan QR code, get “server” location from code
- Phase 2, Agreement
 - TLS session, use DH-Anon
- Phase 3, Authentication
 - Compute SAS, manual verification
 - Optionally, scan QR code, read server’s SAS

Simplifications & Clarifications

- Removed speculative language
 - For example, left “intra user pairing” variants out of “specification” part
- MUST implement TLS_DH_anon_WITH_AES_256_CBC_SHA256.

Steve Kent Suggested Split in 2 Drafts

- Style of the first part seems inappropriate for a standards track document
 - Reads like research paper
- Split in two?
 - First part becoming an informational document,
 - Second part focusing on standard track specification of the protocol
 - Reference to the informational document as appropriate.

Next steps

- Split the documents?
- Complete implementations and tests
 - Availability of TLS_DH_anon_WITH_AES_256_CBC_SHA256
 - Availability of RFC 5705 key extractor
- Last call?