Network Device Interpretation # 201913rev2 RSA-based ciphers and the Server Key Exchange message

| Status: | | ☐ Inactive | |
|---|-----------------------------------|-------------------------|-------------------|
| Date: 11-Dec-2019 | | | |
| End of proposed Trai | nsition Period (to be updated aft | er TR2TD process): 11-l | Dec-2019 |
| Гуре of Change: | | Minor change | ☐ Major change |
| Гуре of Document: | Technical Decision | Technica | l Recommendation |
| Approved by: | Network iTC Interpretation | ns Team 🔲 Network | iTC |
| Affected Document(s): ND SDv2.0e, ND SD v2.1, FW SDv2.0e | | | |
| Affected Section(s): / | FCS_TLSS_EXT.*.3, FCS_DTLSS_EX | T.*.4 | |
| Superseded Interpretation(s): RfI#201913(rev1) | | | |
| | | | |
| ssue: | | | |
| FCS_TLSS_EXT.1.3 TSS | S | | |
| The evaluator shall verify that the TSS describes the key agreement parameters of the server Key Exchange message. | | | |
| Question: As this activity is not marked as conditional, what description must be provided in cases of RSA-based ciphers? | | | |
| Background informat | ion: | | |
| f RSA-based cipher is used, then the client retrieves the public key from the server certificate and encrypts the premaster secret with this key. In such cases, the Server's Certificate message is sufficient and no additional information is required to securely communicate a premaster secret to the server. | | | |
| Consequently, no Servexchanged. | verKeyExchange message is needd | ed and no key agreeme | nt parameters are |
| Resolution: | | | |
| The following text shall be modified in the ND SD: | | | |
| The TSS requirements for FCS_DTLSS_EXT.*.4 and FCS_TLSS_EXT.*.3 shall be replaced as follows: | | | |

<old>

| The evaluator shall verify that the TSS describes the key agreement parameters of the server Key Exchange message. | | | |
|---|--|--|--|
| | | | |
| shall be replaced by | | | |
| <new></new> | | | |
| If using ECDHE or DHE ciphers, the evaluator shall verify that the TSS describes the key agreement parameters of the server Key Exchange message. | | | |
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| Rationale: | | | |
| See Issue section. | | | |
| Change in rev2: Extension to ND SDv2.0e as well as FW SDv2.0e upon request. | | | |
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| Further Action: | | | |
| None | | | |
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| Action by Network iTC: | | | |
| None | | | |
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