

# Network Device Interpretation # 201908

## NDcPP v2.1 Clarification - FCS\_SSHC/S\_EXT1.5

**Status:**  *Active*  *Inactive*

**Date:** 20-May-2019

**End of proposed Transition Period (to be updated after TR2TD process):** 20-May-2019

**Type of Change:**  Immediate application  Minor change  Major change

**Type of Document:**  *Technical Decision*  *Technical Recommendation*

**Approved by:**  *Network iTC Interpretations Team*  *Network iTC*

**Affected Document(s):** *NDcPP V2.1*

**Affected Section(s):** *FCS\_SSHC\_EXT.1.5, FCS\_SSHS\_EXT.1.5*

**Superseded Interpretation(s):** *None*

### Issue:

A vendor is entering in an evaluation that is claiming compliance to the collaborative Protection Profile for Network Devices Version 2.1. which includes the SFR FCS\_SSHS\_EXT.1 – SSH Server Protocol. The CCTL is requesting clarification on FCS\_SSHS\_EXT.1.5 and FCS\_SSHC\_EXT.1.5 as it is identified in the cNDPP v2.1.

The cNDPP identifies the SFR as:

“FCS\_SSHS\_EXT.1.5 The TSF shall ensure that the SSH public-key based authentication implementation uses [selection: ssh-rsa, **rsa-sha2-256, rsa-sha2-512**, ecdsa-sha2-nistp256, x509v3-ssh-rsa, ecdsa-sha2-nistp384, ecdsa-sha2-nistp521, x509v3-ecdsa-sha2-nistp256, x509v3-ecdsa-sha2-nistp384, x509v3-ecdsa-sha2-nistp521, x509v3-rsa2048-sha256] as its public key algorithm(s) and rejects all other public key algorithms.”

The cNDPP Section 6.1 identifies the PP conventions as the following:

Selection wholly or partially completed in the PP: the selection values (i.e. the selection values adopted in the PP or the remaining selection values available for the ST) are indicated with underlined text

e.g. “[selection: disclosure, modification, loss of use]” in [CC2] or an ECD might become “disclosure” (completion) or “[selection: disclosure, modification]” (partial completion) in the PP;

Is it the PP authors intent to make “rsa-sha2-256, rsa-sha2-512” a mandatory selected component for FCS\_SSHS\_EXT.1.5 and FCS\_SSHC\_EXT.1.5?

**Resolution:**

The formatting of the SFRs FCS\_SSHC\_EXT.1.5 and FCS\_SSHS\_EXT.1.5 needs to be corrected as follows:

<old> The TSF shall ensure that the SSH public-key based authentication implementation uses [selection: *ssh-rsa*, ***rsa-sha2-256***, ***rsa-sha2-512***, *ecdsa-sha2-nistp256*, *x509v3-ssh-rsa*, *ecdsa-sha2-nistp384*, *ecdsa-sha2-nistp521*, *x509v3-ecdsa-sha2-nistp256*, *x509v3-ecdsa-sha2-nistp384*, *x509v3-ecdsa-sha2-nistp521*, *x509v3-rsa2048-sha256*] as its public key algorithm(s) and rejects all other public key algorithms.</old>

Shall be reformatted to (without any change of the content)

<new> The TSF shall ensure that the SSH public-key based authentication implementation uses [selection: *ssh-rsa*, *rsa-sha2-256*, *rsa-sha2-512*, *ecdsa-sha2-nistp256*, *x509v3-ssh-rsa*, *ecdsa-sha2-nistp384*, *ecdsa-sha2-nistp521*, *x509v3-ecdsa-sha2-nistp256*, *x509v3-ecdsa-sha2-nistp384*, *x509v3-ecdsa-sha2-nistp521*, *x509v3-rsa2048-sha256*] as its public key algorithm(s) and rejects all other public key algorithms.</new>

**Rationale:**

*FCS\_SSHC\_EXT.1.5 and FCS\_SSHS\_EXT.1.5 properly replicate the SFR as defined in the ECD. The current formatting of the two ciphers in the ECD seems to be a mistake and need therefore to be corrected (Why would an option in a selection be marked as partially completed in the ECD?). The current formatting would not indicate, though, that the options would be mandatory as indicated by the originator of the Rfl, since the formatting just indicates a refinement and a partially completed operation.*

**Further Action:**

*None.*

**Action by Network iTC:**

*None.*