## **Network Device Interpretation # RFI201914**

Applicability of FPT\_APW\_EXT.1

Status:	⊠ Active	☐ Inactive		
Date: 14-Oct-2019				
End of proposed Trans	sition Period (to be updated a	ter TR2TD process): 14-	Nov-2019	
Type of Change:	☐ Immediate application	Minor change	Major change	
Type of Document:	☐ Technical Decision	☐ Technica	☐ Technical Recommendation	
Approved by:	Network iTC Interpretat	ions Team 🔀 Network	iTC	
Affected Document(s)	: ND cPP v2.0e, FW cPP v2.0e,	ND cPP v2.1		
Affected Section(s): FF	PT_APW_EXT.1			
Superseded Interpreta	ation(s): None			
Issue:				
limits the scope to adn passwords (admin and	ed "Protection of Administrator ninistrative passwords. The wo non-admin alike). Similarly, Ap rds. (The threat that this SFR is asswords.)	rding of the requirement oplication Note 27 only to	, technically, applies to al alks about passwords, not	
Is the intent of FPT_AP passwords?	W_EXT.1 to apply to only adm	inistrative passwords? O	r does it apply to all	
<u>Proposal:</u>				
If it only applies to adn	ninistrative passwords, then m	aybe the SFR wording sh	ould be changed to:	
FPT_APW_EXT.1.1 Th	e TSF shall store <u>administrative</u>	passwords in non-plain	text form.	
FPT_APW_EXT.1.2 Th	e TSF shall prevent the reading	of plaintext <u>administrat</u>	<u>ive</u> passwords.	
"Protection of Passwor	vords (both admin and non-adi rds" and mention in the App No h the threat is regarding admir	te that the SFR covers bo		

## **Resolution:**

Since the Security Administrator as defined in FMT\_SMR.2 is the only authorized user covered by NDcPP, the protection of passwords formally also only applies to administrative passwords.

Therefore FPT\_APW\_EXT.1.1 and FPT\_APW\_EXT.1.2 shall be modified as follows:

<old>

FPT\_APW\_EXT.1.1 The TSF shall store passwords in non-plaintext form.

FPT\_APW\_EXT.1.2 The TSF shall prevent the reading of plaintext passwords.

</old>

shall be replaced by

<new>

FPT APW EXT.1.1 The TSF shall store administrative passwords in non-plaintext form.

FPT APW EXT.1.2 The TSF shall prevent the reading of plaintext administrative passwords.

</new>

The Application Note for FPT\_APW\_EXT.1 shall be updated as follows:

<old>

The intent of the requirement is that raw password authentication data is not stored in the clear, and that no user or Administrator is able to read the plaintext password through "normal" interfaces. An all-powerful Administrator could directly read memory to capture a password but is trusted not to do so. Passwords should be obscured during entry on the local console in accordance with FIA\_UAU.7.

</old>

shall be replaced by

<new>

The intent of the requirement is that raw password authentication data of Security Administrators is not stored in the clear, and that no user or Administrator is able to read the plaintext password of a Security Administrator through "normal" interfaces. An all-powerful Administrator could directly read memory to capture a password but is trusted not to do so. Passwords should be obscured during entry on the local console in accordance with FIA UAU.7.

Although this is out-of-scope of this cPP, it is strongly advised to protect all authentication data of the device the same way and/or with similar strength as administrative passwords to reduce the risk of attacks like privilege escalation, etc.

</new>

The extended component definition for FPT\_APW\_EXT.1 shall be updated accordingly.

To further clarify the role of the Security Administrator the following paragraphs shall be added to the Application Note for FMT\_SMR.2:

<new>

A single user associated with the Security Administrator role does not necessarily have to be able to perform all security management functions defined in FMT\_SMF.1 and does not necessarily have to able to perform local and remote administration. All users associated with the Security Administrator role together need to be able to perform all security management functions defined in FMT\_SMF.1 (mandatory and selected ones) and need to be able to perform local and remote administration.

This implies that a user that can perform only a single security management function defined in FMT SMF.1 needs to be regarded as Security Administrator of the TOE.

FIVIT_SIVIF.1 fleeds to be regarded as security Administrator of the TOE.
Rationale:
See Resolution.
Further Action:
None
Action by Network iTC:
None