Network Device Interpretation # 202021

Incomplete Mappings of OEs in FW Module v1.4+Errata

Status:		☐ Inactive	
Date: 7-Sep-2020			
End of proposed Tra	nsition Period (to be updated a	fter TR2TD process): 7-Se	p-2020
Type of Change:		Minor change	Major change
Type of Document:	Technical Decision	☐ Technical	Recommendation
Approved by:	Network iTC Interpretar	tions Team 🔲 Network i	TC
Affected Document(s): FW Module v1.4+Errata 2020	00625	
Affected Section(s):	5.3.2, 5.3.4		
Superseded Interpre	tation(s): None		
Issue:			
defined for virtualiza	onal assumptions and Objective tion which have not been accou PFW Module v1.4+Errata 20200	nted for in the correspond	

Resolution:

To overcome this issue described in the issue section the tables in sections 5.3.2 and 5.3.4 shall be replaced as follows:

In section 5.3.2

<old>

Objective for the Operational Environment	Assumptions and OSPs
OE.PHYSICAL	A.PHYSICAL_PROTECTION
OE.NO_GENERAL_PURPOSE	A.LIMITED_FUNCTIONALITY
OE.TRUSTED_ADMIN	A.TRUSTED_ADMINISTRATOR
OE.UPDATES	A.REGULAR_UPDATES
OE.ADMIN_CREDENTIALS_SECURE	A.ADMIN_CREDENTIALS_SECURE
OE.COMPONENTS_RUNNING	A.COMPONENTS_RUNNING

OE.RESIDUAL_INFORMATION	A.RESIDUAL_INFORMATION
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</old>

shall be replaced by

<new>

Objective for the Operational Environment	Assumptions and OSPs
OE.PHYSICAL	A.PHYSICAL_PROTECTION
OE.NO_GENERAL_PURPOSE	A.LIMITED_FUNCTIONALITY
OE.TRUSTED_ADMIN	A.TRUSTED_ADMINISTRATOR, A.VS_TRUSTED_ADMINISTRATOR
OE.UPDATES	A.REGULAR_UPDATES, A.VS_REGULAR_UPDATES
OE.ADMIN_CREDENTIALS_SECURE	A.ADMIN_CREDENTIALS_SECURE
OE.COMPONENTS_RUNNING	A.COMPONENTS_RUNNING
OE.RESIDUAL_INFORMATION	A.RESIDUAL_INFORMATION
OE.VM_CONFIGURATION	A.VS_CORRECT_CONFIGURATION, A.VS_ISOLATON

</new>

In section 5.3.4

<old>

Assumption	Rationale for security objectives for the environment
A.PHYSICAL_PROTECTION	The assumption that the TOE is physically protected against all unauthorized access attempts is addressed by the corresponding requirement in OE.PHYSICAL.
A.LIMITED_FUNCTIONALITY	The assumption that the TOE does not provide any general purpose computing capabilities is addressed by the corresponding requirement in OE.NO_GENERAL_PURPOSE.

Assumption	Rationale for security objectives for the environment
A.TRUSTED_ADMINISTRATOR	The assumption that the Security Administrator is trusted is addressed by the corresponding requirement in OE.TRUSTED_ADMIN.
A.REGULAR_UPDATES	The assumption that the devices firmware and software is updated regularly is addressed by the corresponding requirement in OE.UPDATES.
A.ADMIN_CREDENTIALS_SECURE	The assumption that the Security Administrator's credentials are protected by the platform they are stored on is addressed by the corresponding requirement in OE.ADMIN_CREDENTIALS_SECURE.
A.COMPONENTS_RUNNING	The assumption that each component of a distributed system is functioning properly is satisfied by the fact that this is specified as an expectation by OE.COMPONENTS_RUNNING.
A.RESIDUAL_INFORMATION	The assumption that the Security Administrator must ensure that there is no unauthorized access possible for sensitive residual information is addressed by the corresponding requirement in OE.RESIDUAL_INFORMATION.

</old>

shall be replaced by

<new>

Assumption	Rationale for security objectives for the
A.PHYSICAL_PROTECTION	The assumption that the TOE is physically protected against all unauthorized access attempts is addressed by the corresponding requirement in OE.PHYSICAL.

Assumption	Rationale for security objectives for the environment
A.LIMITED_FUNCTIONALITY	The assumption that the TOE does not provide any general purpose computing capabilities is addressed by the corresponding requirement in OE.NO_GENERAL_PURPOSE.
A.TRUSTED_ADMINISTRATOR	The assumption that the Security Administrator is trusted is addressed by the corresponding requirement in OE.TRUSTED_ADMIN.
A.REGULAR_UPDATES	The assumption that the devices firmware and software is updated regularly is addressed by the corresponding requirement in OE.UPDATES.
A.ADMIN_CREDENTIALS_SECURE	The assumption that the Security Administrator's credentials are protected by the platform they are stored on is addressed by the corresponding requirement in OE.ADMIN_CREDENTIALS_SECURE.
A.COMPONENTS_RUNNING	The assumption that each component of a distributed system is functioning properly is satisfied by the fact that this is specified as an expectation by OE.COMPONENTS_RUNNING.
A.RESIDUAL_INFORMATION	The assumption that the Security Administrator must ensure that there is no unauthorized access possible for sensitive residual information is addressed by the corresponding requirement in OE.RESIDUAL_INFORMATION.
A.VS_TRUSTED_ADMINISTRATOR (applies to vNDs only)	The assumption that the Security Administrator for the VS is trusted is addressed by the corresponding requirement in OE.TRUSTED_ADMIN.
A.VS_REGULAR_UPDATES (applies to vNDs only)	The assumption that the VS software is updated regularly is addressed by the corresponding requirement in OE.UPDATES.

Assumption	Rationale for security objectives for the environment
A.VS_ISOLATON (applies to vNDs only)	The assumption that the VS provides and is configured to provide sufficient isolation between software running in VMs on the same physical platform is addressed by the corresponding requirement in OE.VM_CONFIGURATION
A.VS_CORRECT_CONFIGURATION (applies to vNDs only)	The assumption that the VS and VMs are correctly configured is addressed by the corresponding requirement in OE.VM_CONFIGURATION

</new>

Rationale:

See 'Issue' section.

Background: NDcPPv2.2e as BasePP for the FW Modulev1.4+Errata claims among others APE_OBJ.1 which does not require mappings or rationales for Security Objectives for the TOE or the Operational Environment. Chapter 11 of CC Part3 v3.1R5 defines requirements for the evaluation of PP Configurations which includes requirements on PP Modules. And ACE_OBJ.1 just contains a pointer back to APE_OBJ.2. So instead of providing the same level of granularity for elements for PP Modules in ACE_OBJ.x as for (c)PPs in APE_OBJ.x there is only an equivalent to APE_OBJ.2 defined for PP Modules. We therefore need to provide the additional rationales and mappings from APE_OBJ.2 in the PP Module which are not required for the BasePP.

None

Action by Network iTC:

None