

Validation Rule List - 2.0.0

Approved Algos table

All Algorithm/CAVP cert Name concatenated column (algoDisplayName-cavpCertName) entries in the CAVP Certs Algorithms table (cavpImplAlgoList) are present in the Algorithms column (algorithmList) of the Security Function Implementations table (secFunImplLi

Approved Service table

All of the Roles column (roleSspAccessList) entries of the Approved Services table (ApprovedServiceList) are present in the Name column (name) of the Roles table (roleList) or is the value None

All of the Security Function Implementations column (secFunImplList) entries of the Approved Services table (approvedServiceList) are present in the Name column (name) of the Security Function Implementations table (secFunImplList) or is the value None

All of the SSP entries in the Roles SSP Access column (sspAccessList) of the Approved Services table (approvedServiceList) are present in the Name column (name) of the SSPs table (sspList)

Name column (name) entries of Approved Services table (approvedServiceList) are unique

The Access Type entries in the Roles SSP Access column (roleSspAccessList) of the Approved Services table (approvedServiceList) are one of the following valid entries: G, R, E, W, A, Z, None

The Approved Services table (approvedServiceList) is not empty

The Regex expression '(S|s)how.*(S|s)tatus' matches for at least one of the Name column (name) entries of the Approved Services table (approvedServiceList)

The Regex expression '(S|s)how.*(V|v)ersion' matches for at least one of the Name column (name) entries of the Approved Services table (approvedServiceList)

The Regex expression '(Z|z)eroi(s|z)' matches for at least one of the Description column (description) entries of the Approved Services table (approvedServiceList)

Auth Methods table

If the Overall Security Level (securityLevelInfo.overallLevel) is > 1, all of the Name column (name) entries of the Authentication Methods table (authMethodList) are present in the Authentication Methods column (authMethodList) of the Roles table (roleLis

If the Overall security level (securityLevelInfo.overallLevel) is > 1, the Authentication Methods table (authMethodList) is not empty

Name column (name) entries of Authentication Methods table (authMethodList) are unique

CavpImplAlgo table

CanonicalAlgorithmId property number correctly matches up with Algorithm (algoDisplayName) in CAVP Certs Algorithms table (cavpImplAlgoList)

CavpOeAlgo table

Algorithm column (algoDisplayName) entries in CAVP Certs Algorithms/OE table (cavpOeAlgoList) are valid algorithm names from CAVP system

CanonicalAlgorithmId property number correctly matches up with Algorithm (algoDisplayName) in CAVP Certs Algorithms/OE table (cavpOeAlgoList)

Cond Self-Test table

The Conditional Self-Tests table (condSelfTestList) is not empty

The Type column (type) entries of the Conditional Self-Tests table (condSelfTestList) are one of the following valid entries: CAST, PCT, Software/Firmware Load, Manual Entry, Bypass, Critical Function

EFP/EFT table

If the module type (moduleInfo.type) is Hardware and the Physical Security section level > 3, the EFP/EFT Information table (efpEftInfoList) is not empty

The Type column (tempVoltType) entries of the EFP/EFT Information table (efpEftInfoList) are one of the following valid entries: LowTemperature, HighTemperature, LowVoltage, HighVoltage

Entropy Source table

Name column (name) entries of Entropy Sources table (entropySourceList) are unique

The Type column (type) entries of the Entropy Sources table (entropySourceList) are either Physical or Non-Physical

Error State table

State Name column (name) entries of Error States table (errorStateList) are unique

The Error States table (errorStateList) is not empty

Hardness Temp table

If the module type (moduleInfo.type) is Hardware and the Physical Security section level > 3, the Hardness Testing Temperature Ranges table (hardnessTestTempList) is not empty

The Type column (tempType) entries of the Hardness Testing Temperature Ranges table (hardnessTestTempList) are one of the following valid entries: LowTemperature, HighTemperature

Mode of Ops table

If any of the four indicators are true that the module has a non-Approved mode (Non-Approved column entry in Modes of Operation table; any entries in the Non-Approved, Not Allowed Algorithms table; any entries in the Non-Approved Services table; non-Appro

Name column (name) entries of Modes of Operation table (modeOfOpList) are unique

The Modes of Operation table (modeOfOpList) is not empty

The Type column (type) entries of the Modes of Operation table (ModeOfOpList) are either Approved or Non-Approved

Module Count

If the module type (moduleInfo.type) is Hardware, the Module Count (moduleInfo.count) equals the number of rows in the Tested Module Identification - Hardware table (testedHwList)

If the module type (moduleInfo.type) is Software or Firmware, the Module Count (moduleInfo.count) equals the number of rows in the Tested Module Identification - Software/Firmware/Hybrid table (testedSwFwHyList)

If the module type (moduleInfo.type) is Software-hybrid or Firmware-hybrid, the Module Count (moduleInfo.count) equals the number of rows in the Tested Module Identification - Software/Firmware/Hybrid table (testedSwFwHyList) times the number of rows in t

Module Info

The module Embodiment (moduleInfo.embodiment) is one of the following valid entries: SingleChip, MultiChipEmbed, MultiChipStand

The module Operational Environment Type (moduleInfo.OpEnvType) is one of the following valid entries: Modifiable, Limited, Non-Modifiable

The module Type (moduleInfo.type) is one of the following valid entries: Hardware, Software, Firmware, Software-hybrid, Firmware-hybrid

Non-Approved Algos table

If the non-Approved mode Supplemental Setting is yes, all of the Algorithm column (name) entries in the Non-Approved, Not Allowed Algorithms table (nonApprovedNotAllowedAlgoList) are present in the Algorithms Accessed column (nonApprovedAlgoList) of the N

Non-Approved Service table

If the non-Approved mode Supplemental Setting is yes, all of the Algorithms Accessed column (nonApprovedAlgoList) entries of the Non-Approved Services table (nonApprovedServiceList) are present in the Algorithm column (name) of the Non-Approved, Not Allow

Name column (name) entries of Non-Approved Services table (nonApprovedServiceList) are unique

OpEnvSwFwHyTested table

The Paa/Pai column (paaPai) entries of the Tested Operational Environments - Software/Firmware/Hybrid table (opEnvSwFwHyTestedList) are either Yes or No

PhySec Mechanisms table

If the module type (moduleInfo.type) is Hardware, the Mechanisms and Actions Required table (phSecMechanismList) is not empty

Port/Interface table

All four required logical interfaces (Data Input; Data Output; Control Input; Status Output) are present in the Logical Interfaces column (logicalInterfaceList) of the Ports and Interfaces table (portInterfaceList)

The Logical Interface column (logicalInterfaceList) entries of the Ports and Interfaces table (portInterfaceList) are one of the following valid entries: Data Input, Data Output, Control Input, Status Output, Control Output, Power, None

The Ports and Interfaces table (portInterfaceList) is not empty

PreOp Self-Test table

The Pre-Operational Self-Tests table (preOpSelfTestList) is not empty

The Type column (type) entries of the Pre-Operational Self-Tests table (preOpSelfTestList) are one of the following valid entries: SW/FW Integrity, Bypass, Critical Function

Roles table

All of the Authentication Methods column (authMethodList) entries of the Roles table (roleList) are present in the Name column (name) of the Authentication Methods table (authMethodsList) or is the value None

Name column (name) entries of Roles table (roleList) are unique

The Roles table (roleList) is not empty

The Type column (type) entries of the Roles table (roleList) are one of the following valid entries: Role, Identity, MultiFactorIdentity

Security Levels table

All security level sections are present

Section number (section) entries of Security Levels table (secLevels) are unique

Security Levels for Sections 1, 2, 3, 4, 9, 10, and 11 aren't N/A (0)

The Overall security level is equal to the minimum of all the security levels

SFI table

All of the Name column (name) entries in the Security Function Implementations table (secFunImplList) are present in the Security Function Implementations column (secFunImplList) of the Approved Services table (approvedServiceList)

Name column entries of Security Function Implementations table (secFunImplList) are unique

The SFI table (secFunImplList) is not empty

SSP Input/Output table

All of the Name column (name) entries in the SSP Input-Output Methods table (sspInputOutputList) are present in the Input/Outputs column (inputOutputList) of the SSPs table (ssplList)

All of the SFI or Algorithm column (relatedSFI) entries of the SSP Input-Output Methods table (sspInputOutputList) are present in the Algorithm column (algoDisplayName) of the CAVP Cert Algorithms table or in the Name column (name) of the Security Function

Name column (name) entries of SSP Input-Output Methods table (sspInputOutputList) are unique

The Distribution Type column (distributionType) entries of the SSP Input-Output Methods table (sspInputOutputList) are one of the following valid entries: Manual, Automated, Wireless, N/A

The Entry Type column (entryType) entries of the SSP Input-Output Methods table (sspInputOutputList) are one of the following valid entries: Direct, Electronic, N/A

The Format Type column (formatType) entries of the SSP Input-Output Methods table (sspInputOutputList) are one of the following valid entries: Encrypted, Plaintext

SSP table

All of the Established By column (establishedByList) entries of the SSPs table (sspList) are present in the Algorithm column (algoDisplayName) of the CAVP Cert Algorithms table or in the Name column (name) of the Security Function Implementations table (s

All of the Generated By column (generatedByList) entries of the SSPs table (sspList) are present in the Algorithm column (algoDisplayName) of the CAVP Cert Algorithms table or in the Name column (name) of the Security Function Implementations table (secFu

All of the Inputs/Outputs column (inputOutputList) entries of the SSPs table (sspList) are present in the Name column (name) of the SSP Input-Output Methods table (sspInputOutputList)

All of the Name column (name) entries in the SSPs table (sspList) are present in the Roles SSP Access column (roleSspAccessList) of the Approved Services table (approvedServiceList)

All of the Storage Area Names (areaName) entries in the Storage column (storageItemList) of the SSPs table (sspList) are present in the Name column (name) of the Storage Areas table (storageAreaList)

All of the Used By column (usedByList) entries of the SSPs table (sspList) are present in the Algorithm column (algoDisplayName) of the CAVP Cert Algorithms table or in the Name column (name) of the Security Function Implementations table (secFunImplList)

All of the Zeroization Methods column (zeroizationList) entries of the SSPs table (sspList) are present in the Method column (method) of the SSP Zeroization Methods table (sspZeroizationList)

Name column (name) entries of SSPs table (sspList) are unique

The Category column (category) entries of the SSPs table (sspList) are one of the following valid entries: CSP, PSP, Neither

The Format entries in the Storage column (storageItemList) of the SSPs table (sspList) are one of the following valid entries: Plaintext, Encrypted, Obfuscated, None

The SSPs table (sspList) is not empty

SSP Zeroization table

Method column (method) entries of SSP Zeroization Methods table (sspZeroizationList) are unique

The SSP Zeroization Methods table (sspZeroizationList) is not empty

Storage Areas table

Name column (name) entries of Storage Areas table (storageAreaList) are unique

The Persistence Type column (persistenceType) entries of the Storage Areas table (storageAreaList) are one of the following valid entries: Dynamic, Static

Supplemental Settings table

Name column (name) entries of Supplemental Settings (supplementalSettingList) are unique

Tested Hardware table

If the module type (moduleInfo.type) is Hardware, the Tested Module Identification - Hardware table (testedHwList) is not empty

Model/Part Numbers column (modelPartNum) entries of Tested Module Identification - Hardware table (testedHwList) are unique

Tested Hybrid Hw table

If the module type (moduleInfo.type) is Hybrid, the Tested Module Identification - Hybrid Disjoint Hardware table (testedHyHwList) is not empty

Tested OE table

If the module type (moduleInfo.type) is Sw/Fw/Hy, the Tested Operational Environments - Software/Firmware/Hybrid table (opEnvSwFwHyTestedList) is not empty

Tested Sw/Fw/Hy table

If the module type (moduleInfo.type) is Sw/Fw/Hy, the Tested Module Identification - Software/Firmware/Hybrid table (testedSwFwHyList) is not empty

Package/File Names column (packageFileName) entries of Tested Module Identification - Software/Firmware/Hybrid table (testedSwFwHyList) are unique