



Security Enhancements

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Security Enhancements

This section lists enhancements introduced to support Cisco Product Security Requirements and the Product Security Baseline (PSB). For more information about Cisco Product Security Requirements, refer to: <https://www.cisco.com/c/en/us/about/security-center/security-programs/secure-development-lifecycle/sdl-process.html>

PSB Requirements for 22.2.0 Release

Feature Summary and Revision History

Table 1: Summary Data

Applicable Product(s) or Functional Area	CPS/vDRA
Applicable Platform(s)	Not Applicable
Default Setting	Enabled - Always-on
Related Changes in This Release	Not Applicable
Related Documentation	Not Applicable

Table 2: Revision History

Revision Details	Release
First introduced	22.2.0

Feature Description

CPS PCRF meets the Cisco security guidelines and is aligned with the security features for 22.2.0 release. CPS now supports the following PSB requirements:

Table 3: CPS PSB Requirements

PSB Item	Description
CT2001: SEC-RUN-ASLR-FR1-v3	Randomize memory segments.
CT2115: SEC-SW-SIG-FR3-v5	Wrapping signatures.
CT1995: SEC-ASU-TMOD-FR4-v3	Review and update threat models as needed.
CT1982: SEC-ASU-TMOD-FR1-v3	Create and review a System-Level threat model.
CT2093: SEC-CRY-STDCODE-FR4-v3	Cisco Cryptographic specialists.
CT2088: SEC-RUN-ASLR-FR2-v3	Randomization Entropy.
CT2087: SEC-CRY-PRIM-FR1-v7	Algorithms and primitives.
CT2131: SEC-ASU-TMOD-FR6-v3	Threat models for offers that use Machine Learning or Artificial Intelligence.
CT2116: SEC-SW-SIG-FR4-v5	Protected data.
CT2114: SEC-SW-SIG-FR2-v5	Native signature formats.
CT2113: SEC-SW-SIG-FR1-v5	Sign all code.
CT2086: SEC-TLS-CURR-FR3-v6	SSL 2.0 and SSL 3.0
CT2060: SEC-CRY-STDCODE-FR3-v3	Third-party libraries.
CT2059: SEC-ASU-TMOD-FR2-v3	Assess and mitigate Threats against high value assets.
CT2048: SEC-CRY-PRIM-FR2-v7	Random number generation.
CT2037: SEC-CRY-STDCODE-FR2-v3	Adaptation layers and C3M.
CT2034: SEC-UPS-REGI-FR1-v3	Register third-party software.
CT2118: SEC-SW-SIG-FR6-v5	Cisco controlled packaging systems.
CT2117: SEC-SW-SIG-FR5-v5	Code-signing keys.

PSB Item	Description
CT2026: SEC-TLS-CURR-FR1-v6	TLS 1.2 and TLS 1.3.
CT2025: SEC-ASU-TMOD-FR3-v3	Create additional threat models for new features.
CT2015: SEC-CRY-STDCODE-FR1-v3	Cisco common Cryptography Modules (C3M).
CT2004: SEC-UPS-REGI-FR2-v3	Update TPS registrations regularly.
CT2140: SEC-PWD-STORE-2	Hash and salt non-recoverable stored credentials. Store recoverable credentials using a password manager.
CT1997: SEC-TLS-CURR-FR2-v6	TLS 1.0 and TLS 1.1.
CT2135: SEC-HRD-BUILDENV-FR1-v1	Register and link your build environment to your offer.
CT2138: SEC-HRD-MANDACC	Mandatory Access Controls (MAC) must be enabled and constraining all network services.
CT2080: SEC-ASU-TMOD-FR5-v3	Store threat models.
CT2050: SEC-RUN-ASLR-FR3-v3	ASLR cannot be disabled.
CT2021: SEC-RUN-ASLR-FR4-v3	Do not leak addresses.

CPS vDRA meets the Cisco security guidelines and is aligned with the security features for 22.2.0 release. vDRA now supports the following PSB requirements:

Table 4: vDRA PSB Requirements

PSB Item	Description
CT1723: SEC-HRD-OS	Harden production components.
CT2001: SEC-RUN-ASLR-FR1-v3	Randomize memory segments.
CT2115: SEC-SW-SIG-FR3-v5	Wrapping signatures.
CT1995: SEC-ASU-TMOD-FR4-v3	Review and update threat models as needed.
CT1982: SEC-ASU-TMOD-FR1-v3	Create and review a System-Level threat model.

PSB Item	Description
CT2093: SEC-CRY-STDCODE-FR4-v3	Cisco Cryptographic specialists.
CT2088: SEC-RUN-ASLR-FR2-v3	Randomization Entropy.
CT2087: SEC-CRY-PRIM-FR1-v7	Algorithms and primitives.
CT2131: SEC-ASU-TMOD-FR6-v3	Threat models for offers that use Machine Learning or Artificial Intelligence.
CT2116: SEC-SW-SIG-FR4-v5	Protected data.
CT2114: SEC-SW-SIG-FR2-v5	Native signature formats.
CT2113: SEC-SW-SIG-FR1-v5	Sign all code.
CT2086: SEC-TLS-CURR-FR3-v6	SSL 2.0 and SSL 3.0
CT2060: SEC-CRY-STDCODE-FR3-v3	Third-party libraries.
CT2059: SEC-ASU-TMOD-FR2-v3	Assess and mitigate Threats against high value assets.
CT2048: SEC-CRY-PRIM-FR2-v7	Random number generation.
CT2037: SEC-CRY-STDCODE-FR2-v3	Adaptation layers and C3M.
CT2034: SEC-UPS-REGI-FR1-v3	Register third-party software.
CT2118: SEC-SW-SIG-FR6-v5	Cisco controlled packaging systems.
CT2117: SEC-SW-SIG-FR5-v5	Code-signing keys.
CT2026: SEC-TLS-CURR-FR1-v6	TLS 1.2 and TLS 1.3.
CT2025: SEC-ASU-TMOD-FR3-v3	Create additional threat models for new features.
CT2015: SEC-CRY-STDCODE-FR1-v3	Cisco common Cryptography Modules (C3M).
CT2004: SEC-UPS-REGI-FR2-v3	Update TPS registrations regularly.

PSB Item	Description
CT2140: SEC-PWD-STORE-2	Hash and salt non-recoverable stored credentials. Store recoverable credentials using a password manager.
CT1997: SEC-TLS-CURR-FR2-v6	TLS 1.0 and TLS 1.1.
CT2135: SEC-HRD-BUILDENV-FR1-v1	Register and link your build environment to your offer.
CT2080: SEC-ASU-TMOD-FR5-v3	Store threat models.
CT2050: SEC-RUN-ASLR-FR3-v3	ASLR cannot be disabled.
CT2021: SEC-RUN-ASLR-FR4-v3	Do not leak addresses.

