



# 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 21.1.0 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	21.1.0

### Feature Description

CPS PCRF meets the Cisco security guidelines and is aligned with the security features for 21.1.0 release. CPS now supports the following PSB requirements:

Table 3: CPS PSB Requirements

PSB Item	Description
CT1942: SEC-ASU-SCAN-3	Evaluate the attack surface of an operational offering using automated scanning tools.
CT1933: SEC-OFF-DEFT-4	Disable non-essential services by default.
CT1902: SEC-RUN-ASLR-3	Randomize program address space layout.
CT1884: SEC-RUN-XSPACE-3	Mutually exclude segment write and execute.
CT1940: SEC-VAL-INLDAP	Prevent LDAP injection flows in applications.
CT1935: SEC-WEB-ID-4	Use secure Session Tokens (session IDs/state tokens).
CT1893: SEC-WEB-XSS-3	Prevent cross-site scripting vulnerabilities.
CT1937: SEC-SCR-CONFLEAK-3	Do not expose critical data.
CT1903: SEC-AUT-DEFROOT-2	Do not include non-essential authentication roots.
CT1892: SEC-CRY-PRIM-5	Use approved cryptographic primitives and parameters.
CT1930: SEC-CRY-RANDOM-3	Use approved, well seeded random number generation.
CT1901: SEC-CRE-NOBACK-2	Do not permit undocumented ways of gaining access to the offering.
CT1886: SEC-LOG-NOSENS-3	Do not log sensitive data, passwords, credentials, crypto keys, and so on.
CT1934: SEC-AUT-ANCHOR-2	Anchor authentication trust chains.
CT1140: SEC-CRY-LOG	Log cryptographic connection setup and teardown.
CT1723: SEC-HRD-OS	Harden production components.
CT1741: SEC-PRV-DSRIGHTS	Rights of Personally Identifiable Information's Data Subject.
CT1814: SEC-PWD-CONFIG	Provide configuration options for customer password complexity policy.
CT1929: SEC-LOG-CHANGES	Log system and configuration changes.

CPS vDRA meets the Cisco security guidelines and is aligned with the security features for 21.1.0 release. vDRA now supports the following PSB requirements:

Table 4: CPS vDRA Requirements

PSB Item	Description
CT1942: SEC-ASU-SCAN-3	Evaluate the attack surface of an operational offering using automated scanning tools.

<b>PSB Item</b>	<b>Description</b>
CT1934: SEC-AUT-ANCHOR-2	Anchor authentication trust chains.
CT1930: SEC-CRY-RANDOM-3	Use approved, well seeded random number generation.
CT1933: SEC-OFF-DEFT-4	Disable non-essential services by default.
CT1937: SEC-SCR-CONFLEAK-3	Do not expose critical data.
CT1940: SEC-VAL-INLDAP	Prevent LDAP Injection flows in applications.
CT1935: SEC-WEB-ID-4	Use secure Session Tokens (session IDs/state tokens).
CT1943: SEC-AUT-AUTH-5	Authenticate and authorize remote agents seeking access.
CT1945: SEC-UPS-NOBACK-2	Protect against Supplier backdoors, malware, or known vulnerabilities.
CT672: SEC-DOC-PLATSRV	List needed user platform TCP/IP services.
CT1929: SEC-LOG-CHANGES	Log system and configuration changes.
CT1815: SEC-OUT-CRED-3	No fixed or forced null outbound credentials.
CT578: SEC-DSP-PROC	Display the active TCP/IP services (including open ports).
CT602: SEC-OFF-PROC	Selectively enable TCP/IP SERVICES/OPEN PORTS.

