

Trustworthy Systems Commands

This module describes the commands related to trustworthy systems on Cisco IOS XR7 software.

For detailed information about the key components that form the trustworthy security systems, see the *Implementing Trustworthy Systems* chapter in the *System Security Configuration Guide for Cisco NCS 5500* Series Routers.

- show platform security integrity log, on page 2
- show platform security attest, on page 3

show platform security integrity log

To display the security integrity logs for the router, use the **show platform security integrity log** command in XR EXEC mode.

show platform security integrity log { boot location location-name | runtime file-location
| secure-boot status location location-name }

Syntax Description	boot	Displays boot integrity logs	
	runtime	Displays integrity measurement architecture (IMA) logs	
	secure-boot	Displays information related to secure boot	
Command Default	None		
command Modes	- XR EXEC		
Command History	Release		Modification
	Release 7.1	0.1	The command was modified to include the secure boot status.
	Release 7.0	0.12	This command was introduced.
Jsage Guidelines		does not support this secure boot verification functionality	
Usage Guidelines Task ID	If the router <i>Supported</i> .		
	If the router <i>Supported</i> . Task Opt	does not support this secure boot verification functionality erations d,	
Fask ID	If the router Supported. Task Ope ID system rea wri	does not support this secure boot verification functionality erations d,	y, then the status is displayed as <i>No</i>
Fask ID	If the router Supported. Task Opt ID system rea wri This examp? Router#sho	does not support this secure boot verification functionality erations d, ite	y, then the status is displayed as <i>No</i>
Fask ID	If the router Supported. Task Ope ID system rea wri This examp Router#sho Wed Aug 10	does not support this secure boot verification functionality erations d, ite le shows how to verify the secure boot status of the router: w platform security integrity log secure-boot status 15:39:17.871 UTC	y, then the status is displayed as <i>No</i>
	If the router Supported. Task Ope ID system rea wri This examp Router#sho Wed Aug 10	does not support this secure boot verification functionality erations d, ite le shows how to verify the secure boot status of the router: w platform security integrity log secure-boot status 15:39:17.871 UTC	y, then the status is displayed as <i>No</i>

show platform security attest

To allow the operator to cryptographically verify the Platform Configuration Registers (PCRs) and attest with the device Attestation Identity Key (AIK), use the **show platform security attest** command in XR EXEC mode.

show platform security attest { pcr 0/1 { location all | | trustpoint ciscoaik nonce nonce value } | certificate { ciscoaik | | ciscosudi } }

Syntax Description	attest	The attest keyword is used with either per or certificate keywords.		
	pcr	The pcr keyword takes the index number 0 or 1 as an argument. PCRs return the pcr-index and pcr-value of the specified node.		
	certificate	The certificate keyword takes ciscoaik or ciscosudi as an argument.		
	ciscoaik	The ciscoaik keyword returns the Cisco AIK Root, Cisco AIK CA, and Cisco AIK certificates. The AIK is a Certificate Enrollment Specification used to certify the trustworthiness of a router.		
	ciscosudi	The ciscosudi keyword returns the Cisco SUDI Root, Cisco SUDI CA, and Cisco SUDI certificates. The Secure Unique Device Identifier (SUDI) is a secure device identity in an X.509v3 certificate that maintains the product identifier and serial number.		
	trustpoint	Cisco AIK certificate to be used for the PCR quote.		
	Optional keywords for ciscoaik and ciscosudi	 json location all nonce nonce value 		
Command Default	None			
Command Modes	- XR EXEC			
Command History	Release Modification			
	Release 7.4.1	This command was introduced.		
Usage Guidelines	If the router does not supp Supported.	ort this secure attest verification functionality, then the status is displayed as Not		
Task ID	Task Operations ID			
	system read, write			

Examples

This example shows the truncated output of the certificates used to attest the trustworthiness of a router:

RP/0/RP0/CPU0:NCS-540-C-LNT#show platform security attest certificate ciscoaik Thu Apr 11 06:09:57.026 UTC

+----+
Node location: node0_RP0_CPU0
+-----+
Certificate name: Cisco AIK Root
-----BEGIN CERTIFICATE----MIIDITCCAgmgAwIBAgIJAZozWHjOFSHBMA0GCSqGSIb3DQEBCwUAMC0xDjAMBgNV
-----END CERTIFICATE----Certificate name: Cisco AIK CA
-----BEGIN CERTIFICATE----MIIEXzCCA0egAwIBAgIJCsCKAlbCuHJDMA0GCSqGSIb3DQEBCwUAMC0xDjAMBgNV

----END CERTIFICATE----

Certificate name: Cisco AIK ----BEGIN CERTIFICATE----MIIEFjCCAv6gAwIBAgIDGGJ9MA0GCSqGSIb3DQEBCwUAMCkxFzAVBgNVBAMTDkF0

```
----END CERTIFICATE-----
```

This example shows the pcr-quote, pcr-quote-signature, pcr-index, and pcr-value of the specified nonce.

RP/0/RP0/CPU0:NCS-540-C-LNT#show platform security attest PCR 0 trustpoint ciscoaik nonce 4678 Thu Apr 11 12:58:41.963 UTC Nonce: 4678

+-----+

Node location: node0_RP0_CPU0

Uptime: 1224771

pcr-quote: /1RDR4AYACCkyXSBYFKZw5Nurif7DYQRMrBTg6q91heoKFZW0kp0FQACRngAAAAABX7FPQAAA97/ ///AQAAACQAAAALAAAAQALAwEAAAAgrE798Ll0kKp1kryIv50kG0/V461IQutuSVgCUwjG8q4= pcr-guote-signature:

X3xo0M5DLWeJI3WGOM1XRLkE5sKyp9oEo0+EX8x5s13qdhdIe---<truncated>--KhmwAV8ETdxfgbccPYS6A== pcr-index pcr-value

0 sl3H+Em2xzxXrNUoDF+kC47IXxN4V/d/7hYUXApXNoY=