

show cmp

This chapter includes the **show cmp** command output tables. CMP refers to IPSec Certificate Management Protocol v2.

Important The commands described in this chapter appear in the CLI for this release. However, they have not been qualified for use with any current Cisco StarOS gateway products.

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show cmp history

Table 1: show cmp history Command Output Descriptions

Field	Description
Trans id	Internal ID assigned to this Certificate Management Protocol v2 (CMPv2) transaction
Cert Name	CMPv2 certificate name

Field	Description
Src State	Possible source states: • INIT – the initial state generates the public and private keys for the Initialize Response/Enrollment Response message, builds these messages and sends them to the CA. • RESP WAIT – waiting for a response for any of Initialize Response, Enrollment Response, Update Response or Polling Response messages. The response messages are handled in this state and appropriate actions taken based on the PKIStatus of the response. • POLL WAIT – there is no outstanding request for the certificate but the CA has not yet signed the certificate and has returned a PKIStatus of "waiting". • READY – the certificate is signed by CA and is ready for use. • CLEANUP – This is an error handling state that handles all error transitions and results in cleanup activities for the certificate.
Trigger	Transaction trigger: • cp (Enrollment Response) • cr (Enrollment Request) • ip (Initialize Response) • ir (Initialize Request) • kup (Update Response) • kur (Update Request)
Dst State	Possible destination states: • INIT – the initial state generates the public and private keys for the Initialize Response/Enrollment Response message, builds these messages and sends them to the CA. • RESP WAIT – waiting for a response for any of Initialize Response, Enrollment Response, Update Response or Polling Response messages. The response messages are handled in this state and appropriate actions taken based on the PKIStatus of the response. • POLL WAIT – there is no outstanding request for the certificate but the CA has not yet signed the certificate and has returned a PKIStatus of "waiting". • READY – the certificate is signed by CA and is ready for use. • CLEANUP – This is an error handling state that handles all error transitions and results in cleanup activities for the certificate.
Status	Transaction status: OK or KEY_GEN_FAIL

show cmp outstanding-reg

Table 2: show cmp outstanding-req Command Output Descriptions

Field	Description
Cert name	Name of the CMPv2 certificate
Current State	Possible states: • INIT – the initial state generates the public and private keys for the Initialize Response/Enrollment Response message, builds these messages and sends them to the Certificate Authority (CA). • RESP WAIT – waiting for a response for any of Initialize Response, Enrollment Response, Update Response or Polling Response messages. The response messages are handled in this state and appropriate actions taken based on the PKIStatus of the response. • POLL WAIT – there is no outstanding request for the certificate but the CA has not yet signed the certificate and has returned a PKIStatus of "waiting". • READY – the certificate is signed by CA and is ready for use. • CLEANUP – This is an error handling state that handles all error transitions and results in cleanup activities for the certificate.
Outstanding Message	Possible messages: None and those states listed above

show cmp statistics

Table 3: show cmp statistics Command Output Descriptions

Field	Description
Protocol Statistics	
Initialize Request (ir)	Number of Initialize Request messages
Initialize Response (ip)	Number of Initialize Response messages
Enrollment Request (cr)	Number of Enrollment Request messages
Enrollment Response (cp)	Number of Enrollment Response messages
Manual Update Request (kur)	Number of manual Update Request messages
Manual Update Response (kup)	Number of manual Update Response messages
Polling Request	Number of Polling Request messages

Field	Description
Polling Response	Number of Polling Response messages
Certconf Message	Number of Certificate Configuration messages
Error Message	Number of error messages
Accepted Initial Request	Number of accepted Initial Request messages
Accepted Enrollment Request	Number of accepted Enrollment Request messages
Accepted Update Request	Number of accepted Update Request messages
Accepted Polling Request	Number of accepted Polling Request messages
Auto Update (kur) Triggered	Number of times an automatic certificate update was triggered
Parse Response - CA Reject	Number of times messages have received Reject response from the Certificate Authority (CA)
Pkiconf Message	Number of Public Key Infrastructure (PKI) Configuration messages received
Response Timeout	
Initialize Request (ir)	Number of Initialize Request timeouts
Enrollment Request (cr)	Number of Enrollment Request timeouts
Update Request (kur)	Number of Update Request timeouts
Certconf	Number of Certificate Configuration timeouts
PollReq	Number of Polling Request timeouts
Parse Failure	
Initialize Response (ip)	Number of Initialize Response parsing error messages
Enrollment Response (cp)	Number of Enrollment Response parsing error messages
Update Response (kup)	Number of Update Response parsing error messages
Pkiconf Message	Number of PKI Configuration parsing error messages
Polling Response	Number of Polling Response parsing error messages
Unexpected Response Msg	Number of Unexpected Response messages
Message Build Failure	
Initialize Request (ir)	Number of Initialize Request message build failures
Enrollment Request (cr)	Number of Enrollment Request message build failures
Update Request (kur)	Number of Update Request message build failures

Field	Description
Certconf Message	Number of Certificate Configuration build failures
Polling Request	Number of Polling Request message build failures
Internal Statistics	
TCP Socket Connection Failure	Number of TCP socket connection failures
Failed Key Pair Generation	Number of times a key pair failed to be generated
Certificate Validation Failure	Number of times a certificate validation failed
Certificate Storage Failure	Number of times a certificate failed to be stored
Certificate Configuration Failure	Number of times a certificate failed to be configured
DNS Host Failures	Number of DNS host failures
Other Internal Error	Number of other internal errors
Manual CMP Certificate Cleared	Number of times a CMP certificate was manually cleared
Redundancy Statistics	
Certificate Recovery Succeeded	Number of times a certificate was successfully recovered
Certificate Recovery Failed	Number of times a certificate failed to be recovered