

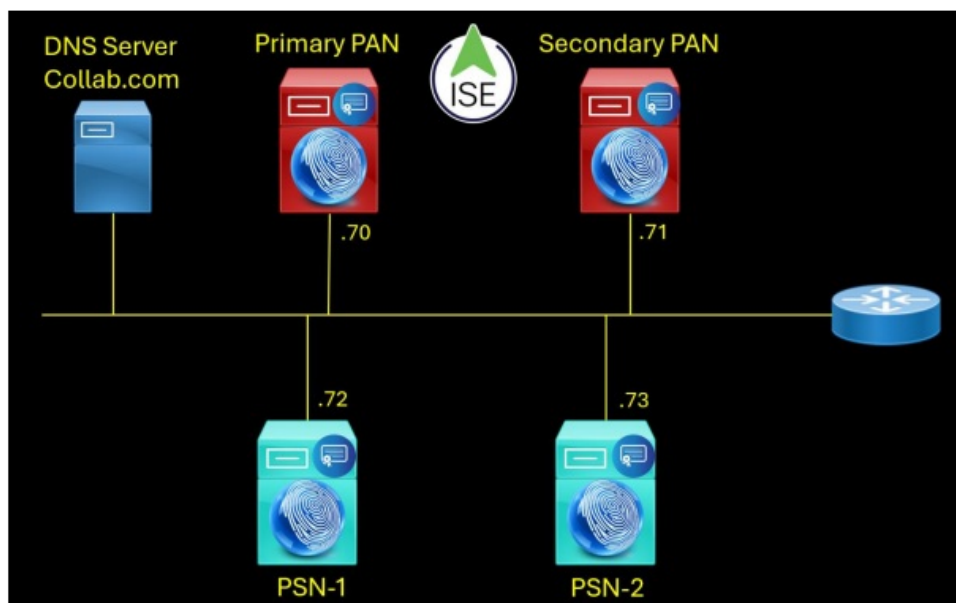


Contents [\[hide \]](#)

- [1 CISCO PSN-2 Identity Services Engine](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Frequently Asked Questions](#)
- [5 Documents / Resources](#)
- [5.1 References](#)



CISCO PSN-2 Identity Services Engine



Product Information

Specifications:

- Product Name: Cisco ISE Cluster Distributed Deployment
- Author: Redouane MEDDANE
- Certificate Type: PKI Infrastructure
- Object Type: Certificate Authority

Product Usage Instructions

Self-Signed Certificate Installation:

In a distributed deployment, each node installs a self-signed certificate signed by the system. This certificate serves as a Certificate Authority and is unique in that it's self-signed, ensuring its own authenticity.

Services Using Self-Signed Certificates:

- Admin Access
- EAP Authentication
- RADIUS DTLS
- Portals

Certificate Management:

Primary PAN centrally manages the certificates for the cluster. It can create, delete, and renew the nodes' certificates.

Certificate Hierarchy:

The internal PKI hierarchy includes Root CA certificates and subordinate certificates for different nodes.

Demystifying PKI Infrastructure and Certificate Management With Cisco ISE Cluster Distributed Deployment

In distributed deployment, each node installs a self-signed certificate signed by the system and has the Object Type : Certificate Authority. This certificate is unique in that it's self-signed, essentially ensuring for its own authenticity. It doesn't require validation from an external or superior entity because it already sits at the top of the trust hierarchy.

Below the list of the self-signed certificate used by each node. Each certificate has the Common Name equal to the FQDN of the node.

System Certificates ⚠️ For disaster recovery it is recommended to export certificate and private key pairs of all system certificates.

	Friendly Name	Used By	Portal group tag	Issued To	Issued By	Valid From	Expiration Date	
▼	pan-mnt-p							
<input type="checkbox"/>	OU=Certificate Services System Certificate,CN=pan-mnt-p.collab.com\Certificate Services Endpoint Sub CA - pan-mnt-p#00002	pxGrid		pan-mnt-p.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-p	Sat, 25 May 2024	Sat, 26 May 2029	✓
<input type="checkbox"/>	OU=ISE Messaging Service,CN=pan-mnt-p.collab.com\Certificate Services Endpoint Sub CA - pan-mnt-p#00001	ISE Messaging Service		pan-mnt-p.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-p	Sat, 25 May 2024	Sat, 26 May 2029	✓
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML		SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	Default Portal Certificate Group (i)	pan-mnt-p.collab.com	pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
▶	pan-mnt-s							
▶	psn-1							
▶	psn-2							





PSN-1.

▶ pan-mnt-s							
▼ psn-1							
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML		SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029
<input type="checkbox"/>	Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	Default Portal Certificate Group	psn-1.collab.com	psn-1.collab.com	Sun, 26 May 2024	Fri, 25 May 2029
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_psn-1.collab.com	Not in use		SAML_psn-1.collab.com	SAML_psn-1.collab.com	Sun, 26 May 2024	Fri, 25 May 2029
<input type="checkbox"/>	OU=Certificate Services System Certificate, CN=psn-1.collab.com #Certificate Services Endpoint Sub CA - psn-1#00003	pxGrid		psn-1.collab.com	Certificate Services Endpoint Sub CA - psn-1	Sat, 25 May 2024	Sat, 26 May 2029
<input type="checkbox"/>	OU=ISE Messaging Service, CN=psn-1.collab.com #Certificate Services Endpoint Sub CA - psn-1#00003	ISE Messaging Service		psn-1.collab.com	Certificate Services Endpoint Sub CA - psn-1	Sat, 25 May 2024	Sat, 26 May 2029
▶ psn-2							

Certificat

Général

Détails

Chemin d'accès de certification

Chemin d'accès de certification

psn-1.collab.com

Afficher le certificat

État du certificat :

Ce certificat racine de l'autorité de certification n'est pas de confiance car il ne fait pas partie du magasin d'autorités de certification de racine de confiance.

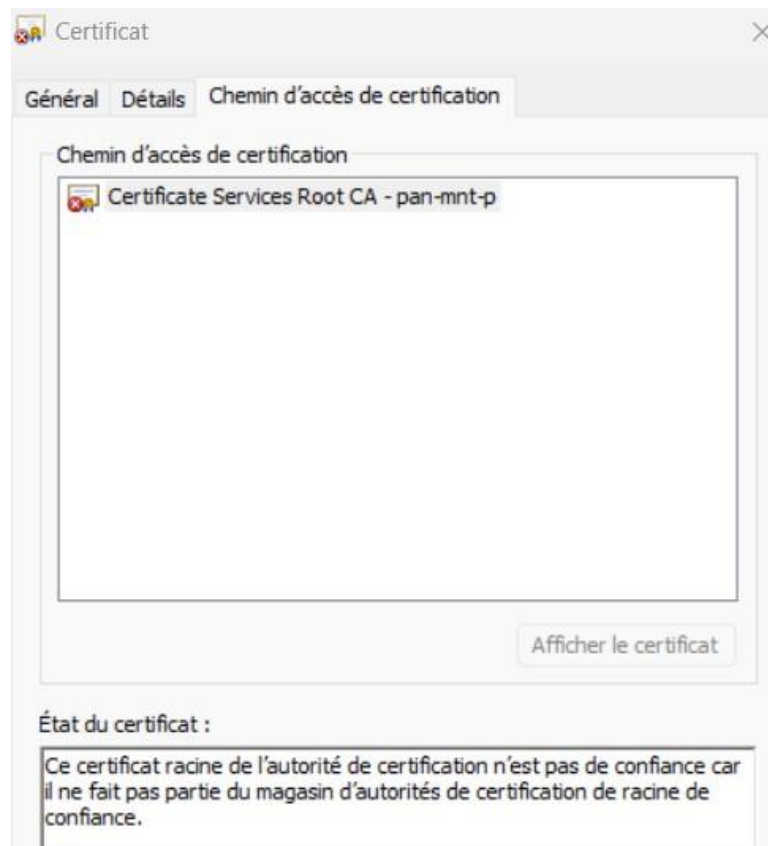
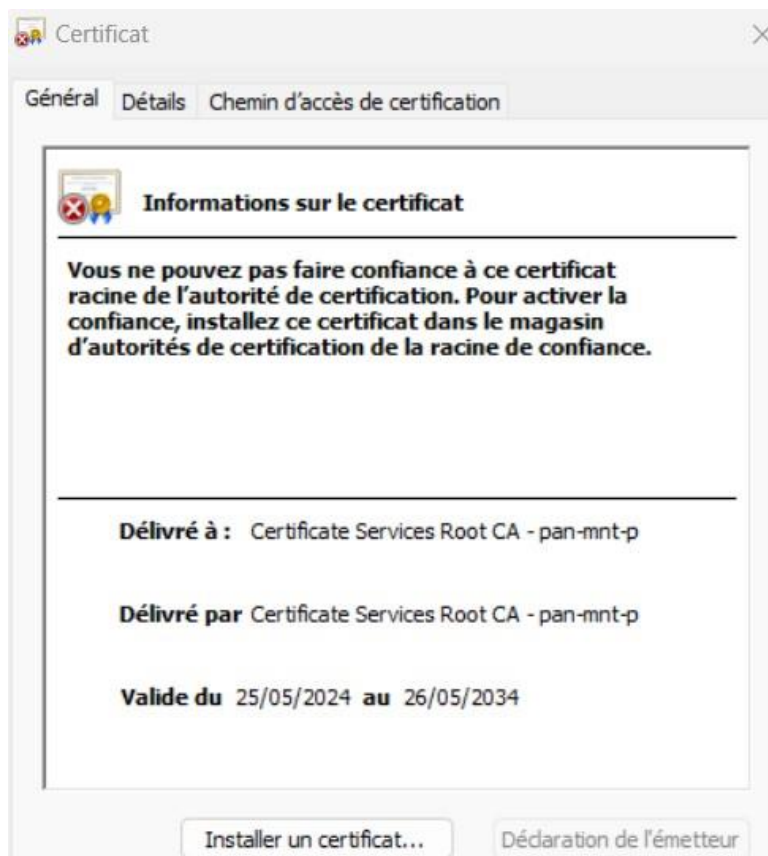


PSN-2.

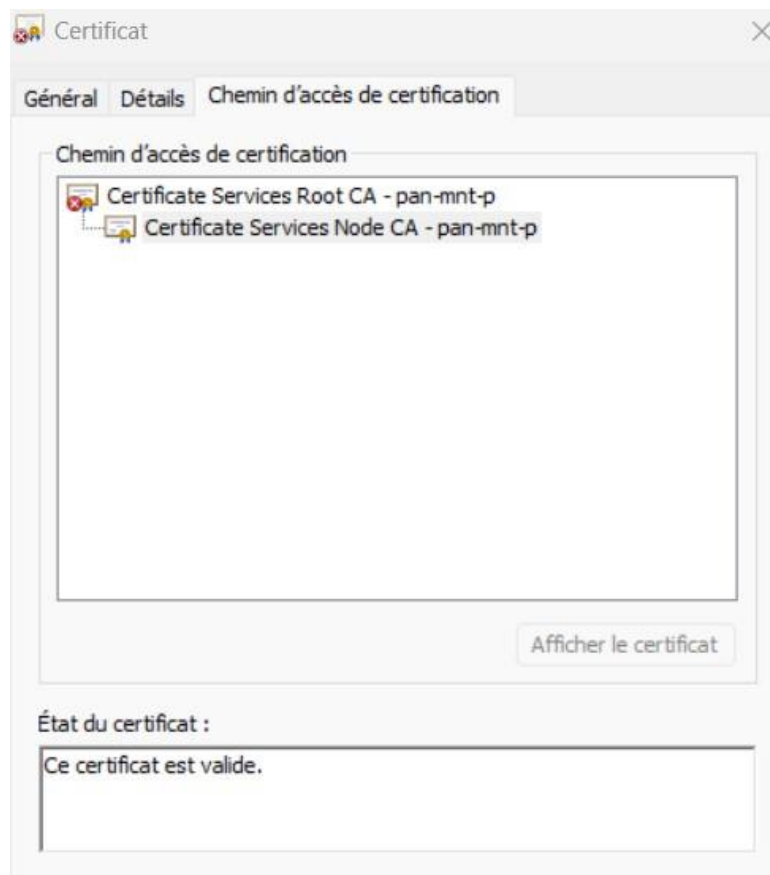
▶ pan-mnt-s									
▶ psn-1									
▼ psn-2									
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML		SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓	
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_psn-2.collab.com	Not in use		SAML_psn-2.collab.com	SAML_psn-2.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓	
<input type="checkbox"/>	Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	Default Portal Certificate Group (i)	psn-2.collab.com	psn-2.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓	
<input type="checkbox"/>	OU=Certificate Services System Certificate,CN=psn-2.collab.com#Certificate Services Endpoint Sub CA - psn-2#00003	pxGrid		psn-2.collab.com	Certificate Services Endpoint Sub CA - psn-2	Sat, 25 May 2024	Sat, 26 May 2029	✓	
<input type="checkbox"/>	OU=ISE Messaging Service,CN=psn-2.collab.com#Certificate Services Endpoint Sub CA - psn-2#00004	ISE Messaging Service		psn-2.collab.com	Certificate Services Endpoint Sub CA - psn-2	Sat, 25 May 2024	Sat, 26 May 2029	✓	



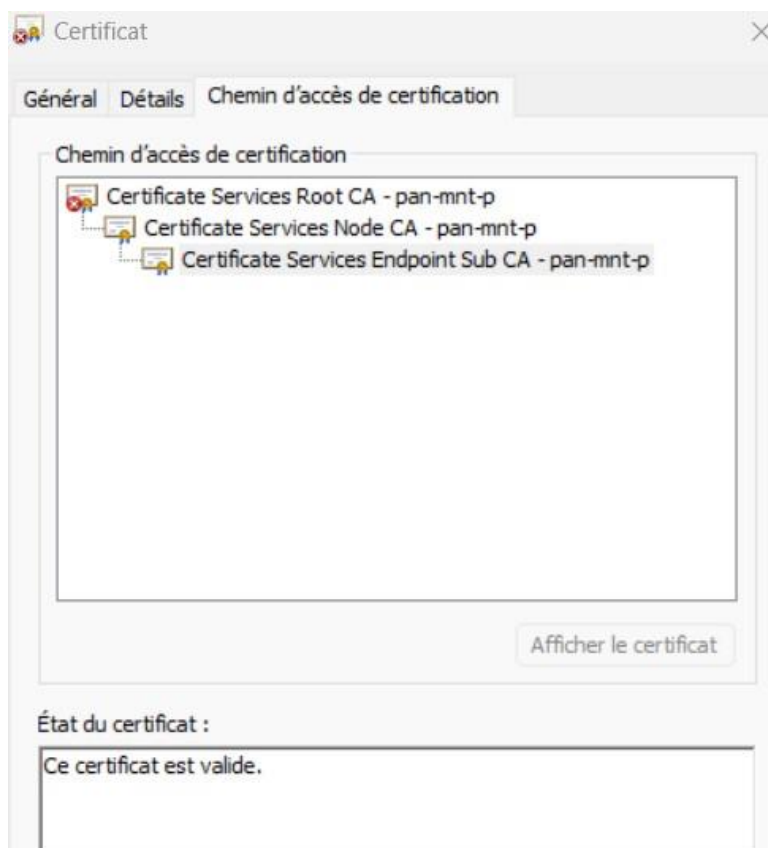
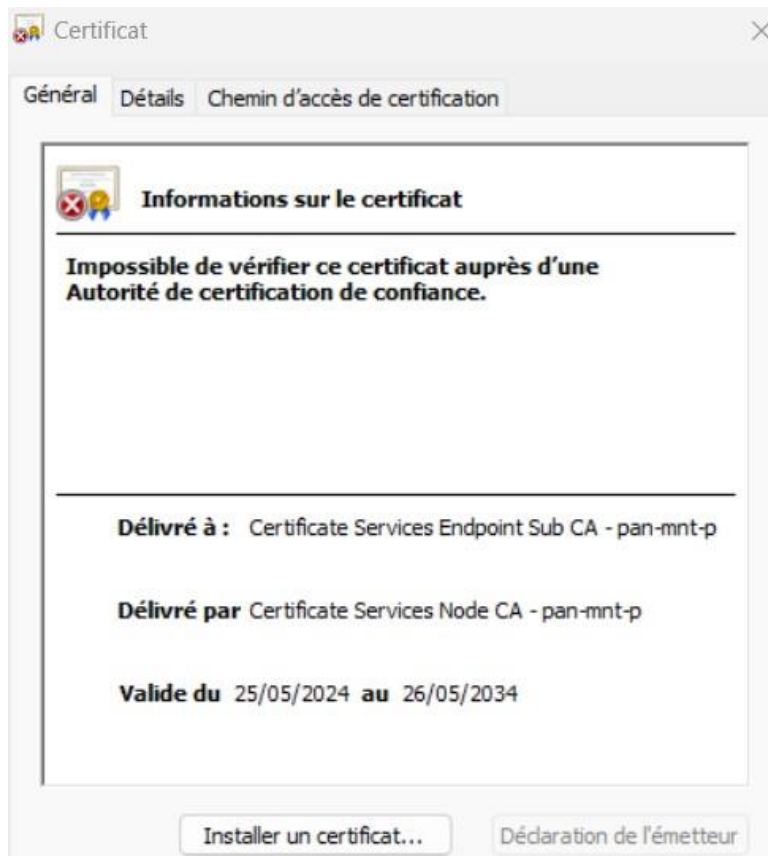
When you install Cisco ISE cluster, an internal PKI hierarchy is built. The certificate management are centralized on the Primary PAN where you can create, delete and renew the nodes certificates. First the primary PAN has the Root CA certificate representing the top of trust hierarchy as shown below.

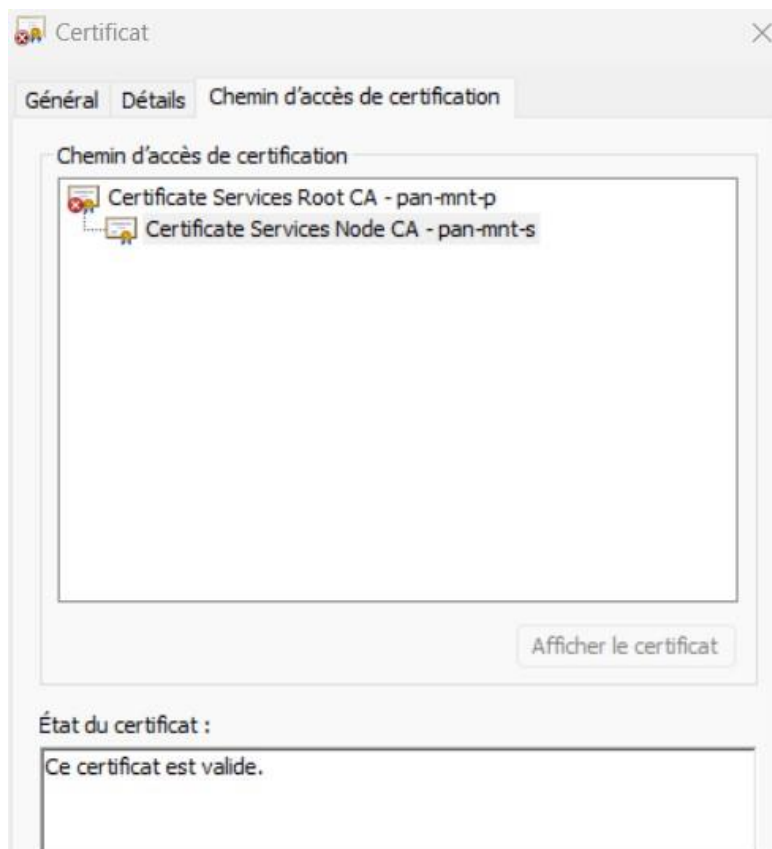


The PAN has also a subordinate certificate called Certificate Services Nodes CA – pan-mnt-p signed by its Root CA certificate as shown below.

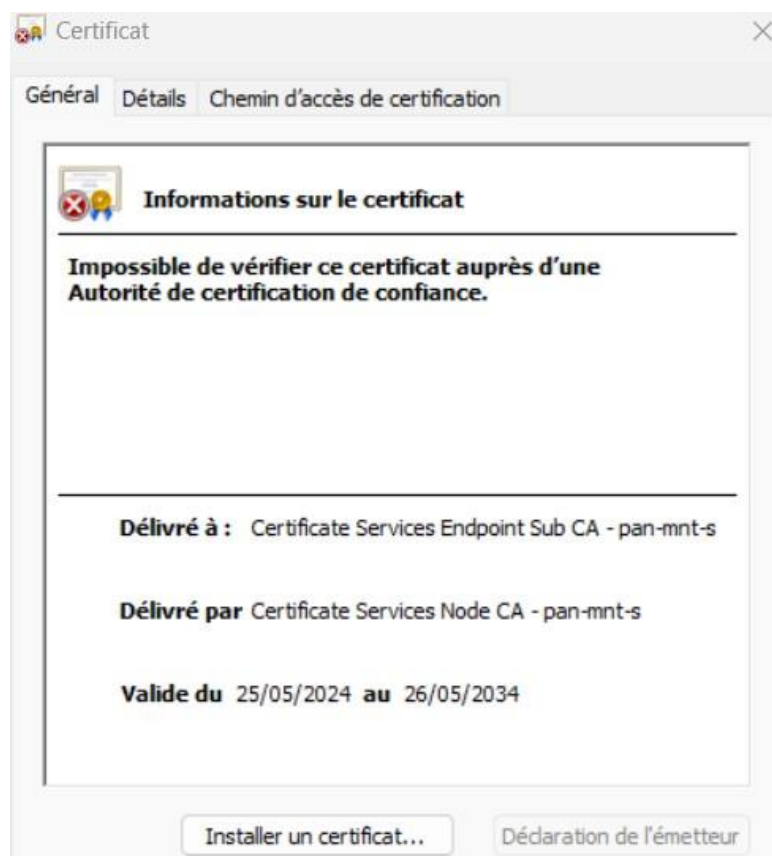


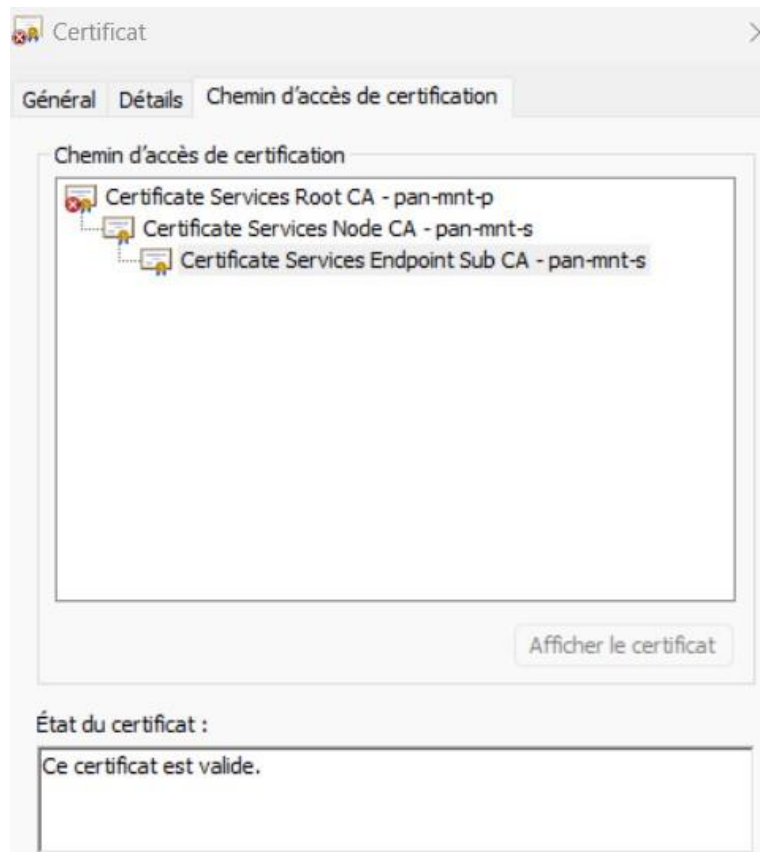
In addition the Primary PAN generates a subordinate certificate called Certificate Services Endpoint Sub CA – pan-mnt-p and it is signed by the Node Certificate of the primary PAN called “Certificate Services Nodes CA – pan-mnt-p”.



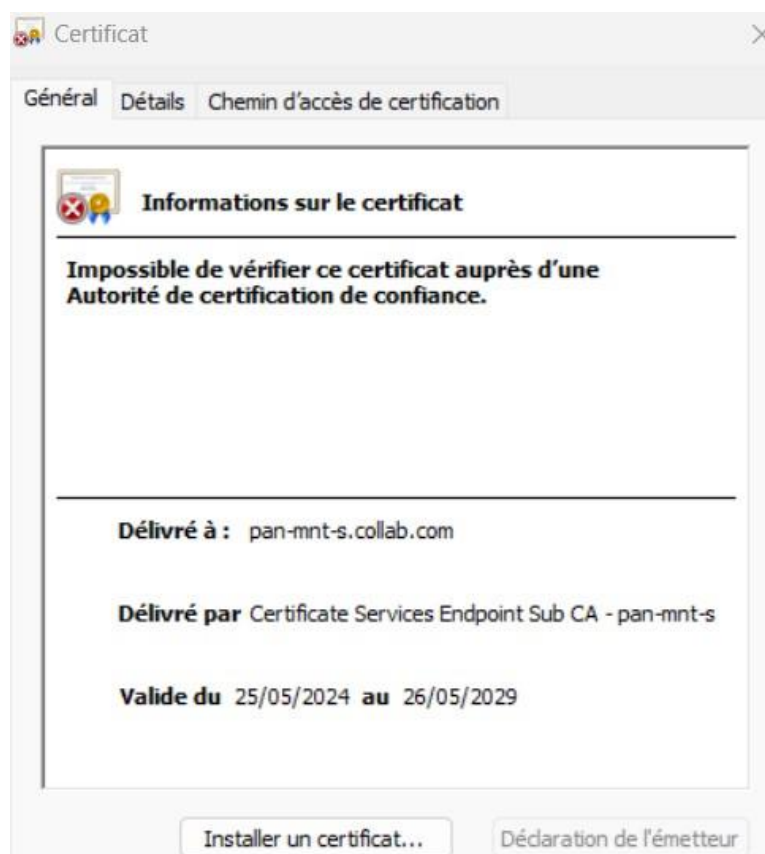


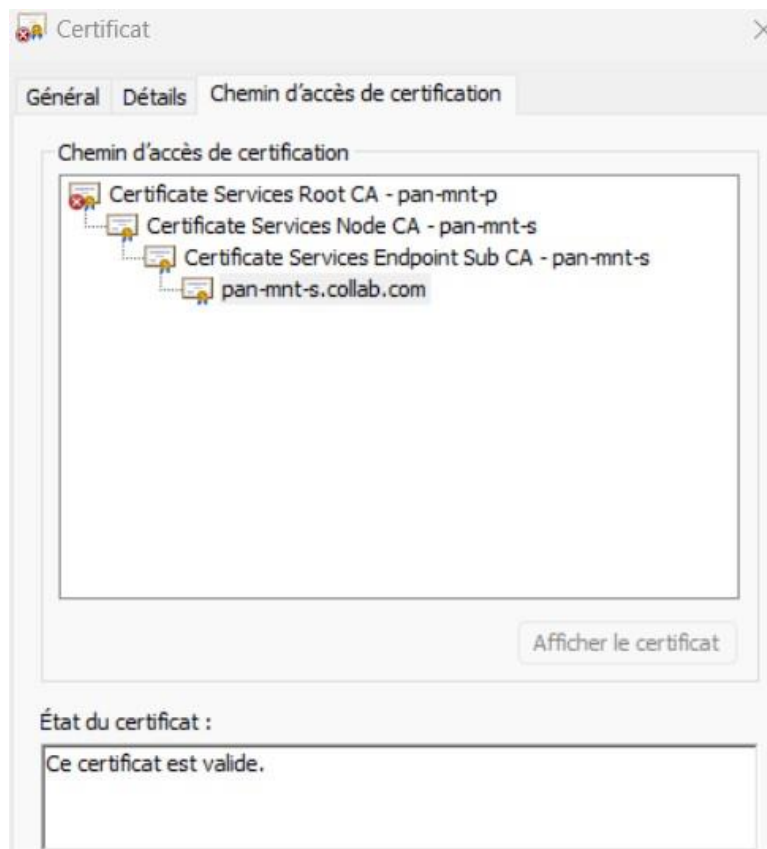
Certificate Services Endpoint Sub CA – pan-mnt-s signed by the subordinate certificate
Services Nodes CA – pan-mnt-s.



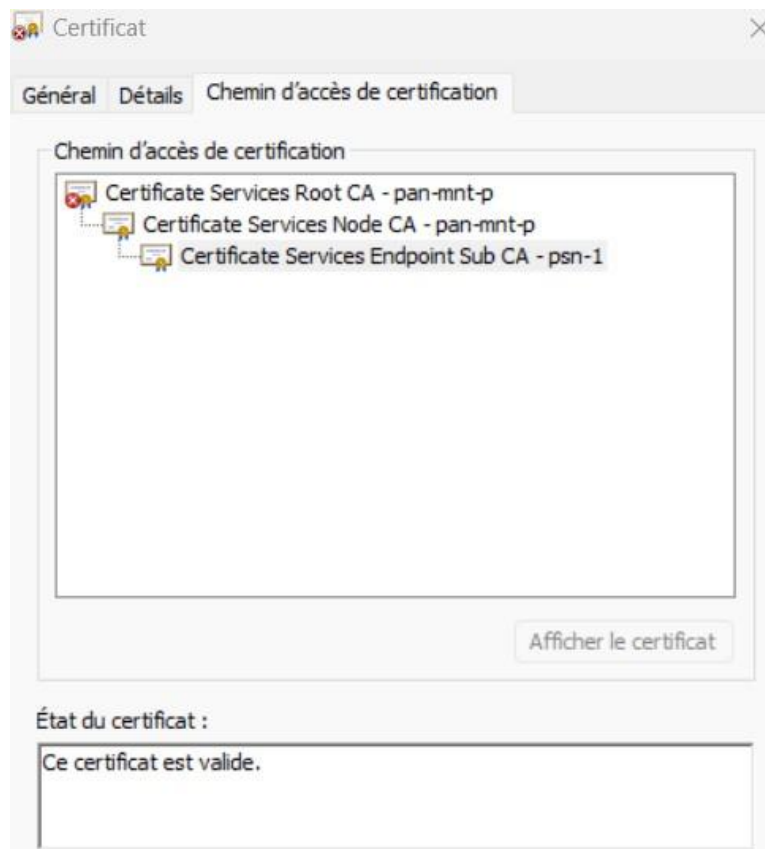


In addition, a server or entity certificate is generated for the secondary PAN with the Common Name equal to the FQDN pan-mnt-s.collab.com, this server certificate is signed by the subordinate certificate Services Endpoint Sub CA – pan-mnt-s.collab.com.

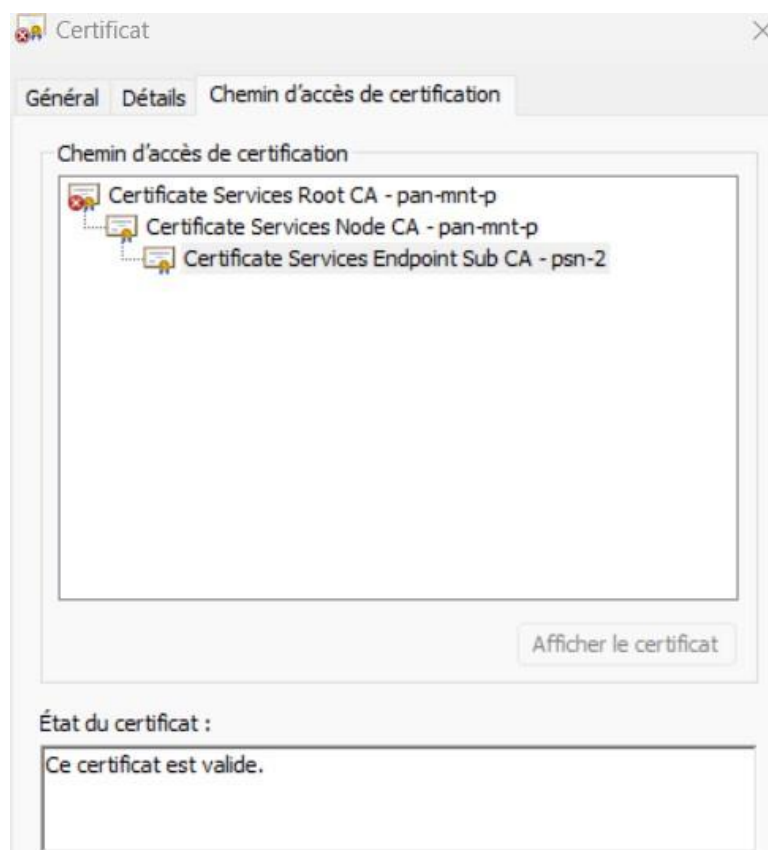




When you register the Policy Service Node PSN, each PSN node is provisioned a subordinate certificate called Certificate Services Endpoint Sub CA and it is signed by the Node Certificate of the primary PAN called “Certificate Services Nodes CA – pan-mnt-p”. In this example, the PSN-1 is provisioned with a subordinate certificate called “Certificate Services Endpoint Sub CA – PSN-1”.



The PSN-2 is provisioned with a subordinate certificate called “Certificate Services Endpoint Sub CA – PSN-2”.



By default, each node uses the self-signed certificate for the following services: admin access, EAP authentication, RADIUS DTLS and portals.

Identity Services Engine

Home Context Visibility Operations Policy Administration Work Centers

System Identity Management Network Resources Device Portal Management pxGrid Services Feed Service Threat Centric NAC

Deployment Licensing Certificates Logging Maintenance Upgrade Backup & Restore Admin Access Settings

Certificate Management

System Certificates

Trusted Certificates

OCSP Client Profile

Certificate Signing Requests

Certificate Periodic Check Settings

Certificate Authority

System Certificates ⚠️ For disaster recovery it is recommended to export certificate and private key pairs of all system certificates.

Generate Self-Signed Certificate Import Export Delete View

	Friendly Name	Used By	Portal group tag	Issued To	Issued By	Valid From	Expiration Date	
pan-mnt-p	OU=Certificate Services System Certificate,CN=pan-mnt-p.collab.com#Certificate Services Endpoint Sub CA - pan-mnt-p#00002	pxGrid		pan-mnt-p.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-p	Sat, 25 May 2024	Sat, 26 May 2029	✓
	OU=ISE Messaging Service,CN=pan-mnt-p.collab.com#Certificate Services Endpoint Sub CA - pan-mnt-p#00001	ISE Messaging Service		pan-mnt-p.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-p	Sat, 25 May 2024	Sat, 26 May 2029	✓
	Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML		SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
	Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	Default Portal Certificate Group	pan-mnt-p.collab.com	pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
pan-mnt-s								
psn-1								
psn-2								

pan-mnt-s

<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-s.collab.com	Not in use		SAML_pan-mnt-s.collab.com	SAML_pan-mnt-s.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	OU=Certificate Services System Certificate,CN=pan-mnt-s.collab.com#Certificate Services Endpoint Sub CA - pan-mnt-s#00003	pxGrid		pan-mnt-s.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-s	Sat, 25 May 2024	Sat, 26 May 2029	✓
<input type="checkbox"/>	OU=ISE Messaging Service,CN=pan-mnt-s.collab.com#Certificate Services Endpoint Sub CA - pan-mnt-s#00003	ISE Messaging Service		pan-mnt-s.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-s	Sat, 25 May 2024	Sat, 26 May 2029	✓
<input type="checkbox"/>	Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	Default Portal Certificate Group	pan-mnt-s.collab.com	pan-mnt-s.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML		SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
psn-1								
psn-2								

pan-mnt-s

psn-1

<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML		SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	Default Portal Certificate Group	psn-1.collab.com	psn-1.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_psn-1.collab.com	Not in use		SAML_psn-1.collab.com	SAML_psn-1.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	OU=Certificate Services System Certificate,CN=psn-1.collab.com#Certificate Services Endpoint Sub CA - psn-1#00003	pxGrid		psn-1.collab.com	Certificate Services Endpoint Sub CA - psn-1	Sat, 25 May 2024	Sat, 26 May 2029	✓
<input type="checkbox"/>	OU=ISE Messaging Service,CN=psn-1.collab.com#Certificate Services Endpoint Sub CA - psn-1#00003	ISE Messaging Service		psn-1.collab.com	Certificate Services Endpoint Sub CA - psn-1	Sat, 25 May 2024	Sat, 26 May 2029	✓
psn-2								

pan-mnt-s

psn-1

psn-2

<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML		SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_psn-2.collab.com	Not in use		SAML_psn-2.collab.com	SAML_psn-2.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	Default Portal Certificate Group	psn-2.collab.com	psn-2.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	OU=Certificate Services System Certificate,CN=psn-2.collab.com#Certificate Services Endpoint Sub CA - psn-2#00003	pxGrid		psn-2.collab.com	Certificate Services Endpoint Sub CA - psn-2	Sat, 25 May 2024	Sat, 26 May 2029	✓
<input type="checkbox"/>	OU=ISE Messaging Service,CN=psn-2.collab.com#Certificate Services Endpoint Sub CA - psn-2#00004	ISE Messaging Service		psn-2.collab.com	Certificate Services Endpoint Sub CA - psn-2	Sat, 25 May 2024	Sat, 26 May 2029	✓

We can instruct each node to use another system certificate such as the one used for pxGrid which is signed by the Certificate Services Endpoint Sub CA of each node.

Primary PAN pan-mnt-p.

Identity Services Engine

HomeContext VisibilityOperationsPolicyAdministrationWork Centers

License Warning

SystemIdentity ManagementNetwork ResourcesDevice Portal ManagementpxGrid ServicesFeed ServiceThreat Centric NAC

DeploymentLicensingCertificatesLoggingMaintenanceUpgradeBackup & RestoreAdmin AccessSettings

▼ Certificate Management

System CertificatesTrusted CertificatesOCSP Client ProfileCertificate Signing RequestsCertificate Periodic Check Settings

▼ Certificate Authority

System Certificates

For disaster recovery it is recommended to export certificate and private key pairs of all system certificates.

Generate Self-Signed CertificateImportExportDeleteView

Friendly Name	Used By	Portal group tag	Issued To	Issued By	Valid From	Expiration Date
pan-mnt-p						
<input checked="" type="checkbox"/> OU=Certificate Services System Certificate,CN=pan-mnt-p.collab.com#Certificate Services Endpoint Sub CA - pan-mnt-p#00002	pxGrid		pan-mnt-p.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-p	Sat, 25 May 2024	Sat, 26 May 2029
<input type="checkbox"/> OU=ISE Messaging Service,CN=pan-mnt-p.collab.com#Certificate Services Endpoint Sub CA - pan-mnt-p#00001	ISE Messaging Service		pan-mnt-p.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-p	Sat, 25 May 2024	Sat, 26 May 2029
<input type="checkbox"/> Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML		SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029
<input type="checkbox"/> Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	Default Portal Certificate Group	pan-mnt-p.collab.com	pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029
pan-mnt-s						
psn-1						
psn-2						

Identity Services Engine

HomeContext VisibilityOperationsPolicyAdministrationWork Centers

License Warning

SystemIdentity ManagementNetwork ResourcesDevice Portal ManagementpxGrid ServicesFeed ServiceThreat Centric NAC

DeploymentLicensingCertificatesLoggingMaintenanceUpgradeBackup & RestoreAdmin AccessSettings

▼ Certificate Management

System CertificatesTrusted CertificatesOCSP Client ProfileCertificate Signing RequestsCertificate Periodic Check Settings

▼ Certificate Authority

Issuer

* Friendly Name

rficate,CN=pan-mnt-p.collab.com#Certificate Services Endpoint Sub CA - pan-mnt-p#00002

Description

Subject

CN=pan-mnt-p.collab.com,OU=Certificate Services System Certificate

Issuer

Certificate Services Endpoint Sub CA - pan-mnt-p

Valid From

Sat, 25 May 2024 12:17:21 UTC

Valid To (Expiration)

Sat, 26 May 2029 12:17:21 UTC

Serial Number

26 C9 CA 28 11 DD 43 04 9F 97 2B 31 52 A4 BD A6

Signature Algorithm

SHA256WITHRSA

Key Length

4096

Certificate Policies

Usage

☒ Admin: Use certificate to authenticate the ISE Admin Portal

☐ EAP Authentication: Use certificate for EAP protocols that use SSL/TLS tunneling

☐ RADIUS DTLS: Use certificate for the RADIUS server

☒ pxGrid: Use certificate for the pxGrid Controller

Secondary PAN pan-mnt-s.

pan-mnt-s

<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-s.collab.com	Not in use		SAML_pan-mnt-s.collab.com	SAML_pan-mnt-s.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	
<input checked="" type="checkbox"/>	OU=Certificate Services System Certificate,CN=pan-mnt-s.collab.com#Certificate Services Endpoint Sub CA - pan-mnt-s#00003	pxGrid		pan-mnt-s.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-s	Sat, 25 May 2024	Sat, 26 May 2029	
<input type="checkbox"/>	OU=ISE Messaging Service,CN=pan-mnt-s.collab.com#Certificate Services Endpoint Sub CA - pan-mnt-s#00003	ISE Messaging Service		pan-mnt-s.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-s	Sat, 25 May 2024	Sat, 26 May 2029	
<input type="checkbox"/>	Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	Default Portal Certificate Group	pan-mnt-s.collab.com	pan-mnt-s.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML		SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	
psn-1								
psn-2								

Usage

- ☒ Admin: Use certificate to authenticate the ISE Admin Portal
- ☐ EAP Authentication: Use certificate for EAP protocols that use SSL/TLS tunneling
- ☐ RADIUS DTLS: Use certificate for the RADSec server
- ☒ pxGrid: Use certificate for the pxGrid Controller
- ☐ SAML: Use certificate for SAML Signing
- ☐ Portal: Use for portal

Renew Self Signed Certificate

Policy Service Node PSN-1.

pan-mnt-s

psn-1

<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML		SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	Default Portal Certificate Group	psn-1.collab.com	psn-1.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_psn-1.collab.com	Not in use		SAML_psn-1.collab.com	SAML_psn-1.collab.com	Sun, 26 May 2024	Fri, 25 May 2029	✓
<input checked="" type="checkbox"/>	OU=Certificate Services System Certificate,CN=psn-1.collab.com #Certificate Services Endpoint Sub CA - psn-1#00003	pxGrid		psn-1.collab.com	Certificate Services Endpoint Sub CA - psn-1	Sat, 25 May 2024	Sat, 26 May 2029	✓
<input type="checkbox"/>	OU=ISE Messaging Service,CN=psn-1.collab.com#Certificate Services Endpoint Sub CA - psn-1#00003	ISE Messaging Service		psn-1.collab.com	Certificate Services Endpoint Sub CA - psn-1	Sat, 25 May 2024	Sat, 26 May 2029	✓

psn-2

Usage

- ☒ Admin: Use certificate to authenticate the ISE Admin Portal
- ☐ EAP Authentication: Use certificate for EAP protocols that use SSL/TLS tunneling
- ☐ RADIUS DTLS: Use certificate for the RADSec server
- ☒ pxGrid: Use certificate for the pxGrid Controller
- ☐ SAML: Use certificate for SAML Signing
- ☒ Portal: Use for portal

* Portal group tag Default Portal Certificate Group ⓘ

Portal(s) using this tag

BYOD Portal (default)

Certificate Provisioning Portal (default)

Hotspot Guest Portal (default)

My Devices Portal (default)

Sponsor Portal (default)

Blacklist Portal (default)

Client Provisioning Portal (default)

MDM Portal (default)

Self-Registered Guest Portal (default)

Sponsored Guest Portal (default)

Renew Self Signed Certificate

Policy Service Node PSN-2.

pan-mnt-s						
psn-1						
psn-2						
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_pan-mnt-p.collab.com	SAML	SAML_pan-mnt-p.collab.com	SAML_pan-mnt-p.collab.com	Sun, 26 May 2024	Fri, 25 May 2029
<input type="checkbox"/>	Default self-signed saml server certificate - CN=SAML_psn-2.collab.com	Not in use	SAML_psn-2.collab.com	SAML_psn-2.collab.com	Sun, 26 May 2024	Fri, 25 May 2029
<input type="checkbox"/>	Default self-signed server certificate	EAP Authentication, Admin, Portal, RADIUS DTLS	psn-2.collab.com	psn-2.collab.com	Sun, 26 May 2024	Fri, 25 May 2029
<input checked="" type="checkbox"/>	OU=Certificate Services System Certificate,CN=psn-2.collab.com#Certificate Services Endpoint Sub CA - psn-2#00003	pxGrid	psn-2.collab.com	Certificate Services Endpoint Sub CA - psn-2	Sat, 25 May 2024	Sat, 26 May 2029
<input type="checkbox"/>	OU=ISE Messaging Service,CN=psn-2.collab.com#Certificate Services Endpoint Sub CA - psn-2#00004	ISE Messaging Service	psn-2.collab.com	Certificate Services Endpoint Sub CA - psn-2	Sat, 25 May 2024	Sat, 26 May 2029

Usage

- ☒ Admin: Use certificate to authenticate the ISE Admin Portal
- ☐ EAP Authentication: Use certificate for EAP protocols that use SSL/TLS tunneling
- ☐ RADIUS DTLS: Use certificate for the RADSec server
- ☒ pxGrid: Use certificate for the pxGrid Controller
- ☐ SAML: Use certificate for SAML Signing

☒ Portal: Use for portal

* Portal group tag Default Portal Certificate Group

Portal(s) using this tag

BYOD Portal (default)
 Certificate Provisioning Portal (default)
 Hotspot Guest Portal (default)
 My Devices Portal (default)
 Sponsor Portal (default)

Blacklist Portal (default)
 Client Provisioning Portal (default)
 MDM Portal (default)
 Self-Registered Guest Portal (default)
 Sponsored Guest Portal (default)

Renew Self Signed Certificate

The primary PAN is now using the system certificate for admin access and signed by its own subordinate CA certificate called Certificate Services Endpoint Sub CA – pan-mnt-p.

Certificat

pan-mnt-p.collab.com

Nom du sujet

Unité organisationnelle Certificate Services System Certificate
 Nom courant pan-mnt-p.collab.com

Nom de l'émetteur

Nom courant Certificate Services Endpoint Sub CA - pan-mnt-p

The secondary PAN is now using the system certificate for admin access and signed by its own subordinate CA certificate called Certificate Services Endpoint Sub CA – pan-mnt-s.

Certificat

pan-mnt-s.collab.com	Certificate Services Endpoint Sub CA - pan-mnt-s	Certificate Services Node CA - pan-mnt-s	Certificate Services Root CA - pan-mnt-p
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Nom du sujet

Unité organisationnelle	Certificate Services System Certificate
Nom courant	pan-mnt-s.collab.com

Nom de l'émetteur

Nom courant	Certificate Services Endpoint Sub CA - pan-mnt-s
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The Policy Service Node PSN-1 is now using the system certificate for admin access/portals and signed by its own subordinate CA certificate called Certificate Services Endpoint Sub CA – psn-1.

Certificat

psn-1.collab.com	Certificate Services Endpoint Sub CA - psn-1	Certificate Services Node CA - pan-mnt-p	Certificate Services Root CA - pan-mnt-p
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Nom du sujet

Unité organisationnelle	Certificate Services System Certificate
Nom courant	psn-1.collab.com

Nom de l'émetteur

Nom courant	Certificate Services Endpoint Sub CA - psn-1
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The Policy Service Node PSN-2 is now using the system certificate for admin access/portals and signed by its own subordinate CA certificate called Certificate Services Endpoint Sub CA – psn-2.

Certificat

psn-2.collab.com

Certificate Services
Endpoint Sub CA - psn-2

Certificate Services
Node CA - pan-mnt-p

Certificate Services
Root CA - pan-mnt-p

Nom du sujet

Unité organisationnelle Certificate Services System Certificate
Nom courant psn-2.collab.com

Nom de l'émetteur

Nom courant [Certificate Services Endpoint Sub CA - psn-2](#)

Frequently Asked Questions

Q: Can I use a different system certificate for services?

A: Yes, you can instruct each node to use another system certificate, such as the one used for pxGrid, signed by the Certificate Services Endpoint Sub CA of each node.

Documents / Resources



[CISCO PSN-2 Identity Services Engine \[pdf\]](#) User Guide

PSN-2, PSN-2 Identity Services Engine, Identity Services Engine, Services Engine

References

- [User Manual](#)

📎 Cisco, Identity Services Engine, PSN-2, PSN-2 Identity Services Engine, Services

📁 Cisco Engine

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[Cisco Spaces Apps Owner's Manual](#)

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