Certificate Authority Services

Add-On Available with Portnox CLEAR NAC-as-a-Service

Elevating Network Authentication

Traditionally, enterprises have enabled network authentication via usernames and passwords. As we now know today, this method of authentication can be easily compromised by bad actors, making it no longer sufficiently secure for enforcing network access control. As a means of elevating and strengthening network authentication, Portnox has introduced several new and powerful certificate authority-as-a-service capabilities within Portnox CLEAR, our cloud-delivered NAC solution.

Available Certificate Authority Services

Agent-Based Onboarding

When an endpoint enrolls using *AgentP*, Portnox CLEAR automatically generates a supplicant certificate for the endpoint. This is true for all supported operating systems, and for all *AgentP* enrollment methods.

Agentless Self-Onboarding

For those not using *AgentP*, Portnox CLEAR generates an organizational root certificate upon org creation in the system and adds the root certificate to its list of trusted root certificates.

Simple Certificate Enrollment Protocol (SCEP)

To make certificate issuance easier for our customers, Portnox CLEAR also supports SCEP, the open-source protocol, which issues a one-time password to the user transmitted out-of-band.

Microsoft InTune

Portnox CLEAR customers utilizing our MS InTune integration can use InTune to authenticate devices to the network as an alternative to Portnox's agent-based or agentless options.
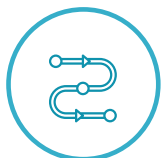
EAP-TLS 802.1X

EAP-TLS is considered by many to be the gold standard when it comes to network authentication. EAP-TLS 802.1X authentication is available with Portnox CLEAR out of the box.

Advantages of Portnox CLEAR Certificate Authority Services

Self-Signed Root Certificate
Each organization can get a dedicated self-signed root CA certificate that is valid for seven years. This private key is stored in our cloud storage with no public access.

Certificate Revocation Lists
With Portnox CLEAR, CRL checks are being performed during the authentication process. CLEAR supports both CDP, OCSP and third-party options.

Certificate Lifecyle Management
With CLM from Portnox CLEAR, admins can manage every part of the lifecycle for an individual certificate while maintaining a broader perspective on the state of the network.

CLM with Portnox CLEAR

Revocation
On invalidity

Issuance
CSR Generation

Renewal
pre-emptive,
to prevent expiry

Provisioning
Servers, applications,
devices, et. al

Security
Encrypting private
key storage

Inventory
Group certificates and
manages entities

Monitoring
Dynamic
notifications