

Network security device registration certificate number



AI Overview

A network security device registration certificate number is the unique identifier associated with a digital certificate issued to a network device during enrollment via NDES/SCEP. Overview Network devices such as routers, switches, and firewalls often require digital certificates to authenticate securely within a network. These certificates are issued by a Certification Authority (CA) and managed through a Registration Authority (RA), commonly implemented via the Network Device Enrollment Service (NDES) in Windows environments. The certificate number, sometimes referred to as the serial number or unique certificate identifier, is embedded in the certificate itself and is used to track, validate, and manage the device's credentials.

Enrollment Process

- Key Generation:** The network device generates a public-private key pair locally.
- Authentication:** The device authenticates to the NDES server using a one-time password or an existing certificate in renewal mode.
- Certificate Request:** A PKCS#10 certificate request is created, optionally signed with a self-signed or existing certificate.
- Submission to CA:** The NDES server forwards the request to the CA, which issues a certificate.
- RA Certificate Linking:** The issued certificate is linked to the RA certificate on the NDES server, which acts as a proxy for the CA.
- Certificate Number Assignment:** The CA assigns a unique serial number to the certificate, which serves as the registration certificate number for the device.

Usage and Management

The registration certificate number uniquely identifies the device's certificate in the CA database. It is used for authentication in IPSec sessions, secure communications, and compliance tracking. Administrators can view or manage certificate numbers through tools like the CA management console, NDES logs, or certificate management platforms such as Trust Protection Foundation. Poli...

Article Content

Certificate Enrollment with SCEP and NDES Explained

A network device initiates the process by sending a certificate request message through SCEP to the NDES server. This message typically includes information like the device's public key

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Network Device Enrollment Service (NDES) Installation Guide

From Role Services, select "Network Device Enrollment Service" and click Next. In the Service Account for NDES section, select the "Specify service account recommended" option and enter the credentials

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The Ultimate Guide to Digital Certificates in Network Security

Digital certificates are electronic documents that verify the identity of a user, device, or organization and ensure secure online communications. In this article, we will provide a

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Network Device Enrollment Service (NDES)

Network Device Enrollment Service (NDES) allows software on routers and other network devices to obtain digital certificates without running any domain credentials.

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Configure Network Device Enrollment Service to use a domain user ...

In this article, learn how to configure Network Device Enrollment Service (NDES) to run as a specified service account. The NDES allows routers and other network devices to obtain

Generating a Key and Obtaining and Registering a Certificate ...

To obtain and register a certificate from an SCEP server, configure the settings for communicating with the SCEP server, and then generate a key and request certificate issuance.

What is Network Device Enrollment Service for Active Directory ...

The Device Registration Service (DRS) is a new Windows service that is included with the Active Directory Federation Service Role on Windows Server 2012 R2. The DRS must be installed

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Network Device Enrollment Service (NDES) Basics

Authentication at the Network Device Enrollment Service (NDES) with an existing certificate (renewal mode) Configuring the Network Device Enrollment Service

Install or Restore a Device Certificate

The device certificate installed on your firewall has a 90-day lifetime. A firewall with the device certificate installed automatically attempts to reinstall the

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Configuring the Network Device Enrollment Service (NDES)

The Network Device Enrollment Service (NDES) provides a way for devices that do not have an identifier in Active Directory (for example, network devices such as routers, switches, printers, thin

Understanding device certificates :: Sectigo Certificate

Device certificates can be managed on the Certificates Device Certificates page. The following table describes the details and controls of the Device Certificates

ISO/IEC 27001:2022

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Network Device Enrollment Service (NDES) Basics

After the end device has authenticated the certification authority using the Registration Authority certificate, a certificate request is created in the format PKCS#10. This contains the one-time

What is Network Device Enrollment Service for Active Directory ...

The Network Device Enrollment Service (NDES) is one of the role services of Active Directory Certificate Services (AD CS). NDES acts as a Registration Authority to enable the software

Prepare to Deploy Device-ID

If you have not already done so, install a device certificate on your firewall or Panorama. The device certificate authenticates the firewall when connecting to Strata Logging Service and

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