



ENTRUST

nShield Remote Administration

Feature Overview

HIGHLIGHTS

- Lets you administer distantly-located nShield hardware security modules (HSMs) from any location, whenever you choose
- Cuts travel time and cost while adding 24 × 7 access to your HSMs
- Enables a wide variety of functions via the remote presentation of nShield smart cards including upgrading firmware, checking HSM status, and running utilities
- Eliminates the risk of carrying high-value smart cards to remote locations

Remote Administration uses the following components to locally manage remote HSMs:

- Remote Administration cards — Custom smart cards equipped with an Entrust applet (available separately)
- Trusted verification devices (TVDs) — Entrust smart card readers used with Remote Administration cards to create a secure connection with the target HSM (includes Type A USB connector)
- Remote Administration Client (RAC) software — Simple GUI run on client laptop or workstation to configure connection to HSM

Remote Administration smart cards



Trusted verification device



nShield PCIe HSM



Network-attached nShield HSM



Learn more about nShield Remote Administration at entrust.com



nShield Remote Administration

nShield Remote Administration creates a secure connection between your remote HSM and your local Remote Administration cards and TVD, letting you present your quorum of smartcards and administer your HSMs as if physically present with the device. Communicating over your VPN, you control the HSM from a laptop or workstation via remote desktop or secure shell session.

Operational features

Remote Administration lets you perform the vast majority of typical HSM functions including:

- Configuring new nShield HSMs
- Creating new nShield Security Worlds — Entrust's unique key management architecture — and enrolling new HSMs into existing Security Worlds
- Upgrading firmware and image files for maintenance and feature updates
- Monitoring and changing HSM status and rebooting as required

Security features

Remote Administration includes the following to safeguard your transactions:

- Mutual authentication between Remote Administration cards and HSM utilizing factory-issued warrants (analogous to digital certificates) using Diffie-Hellman ephemeral key exchange (AES256-equivalent crypto) connection between Remote Administration cards and HSM

- HSM electronic serial number verification by the card holder
- FIPS 140-2 certified Remote Administration cards (available separately)
- TVDs certified to Secoder protocol — inhibits malware on the client workstation from spoofing the HSM identity being passed to Remote Administration Cards

Please request the Entrust Remote Administration Security White Paper to learn more.

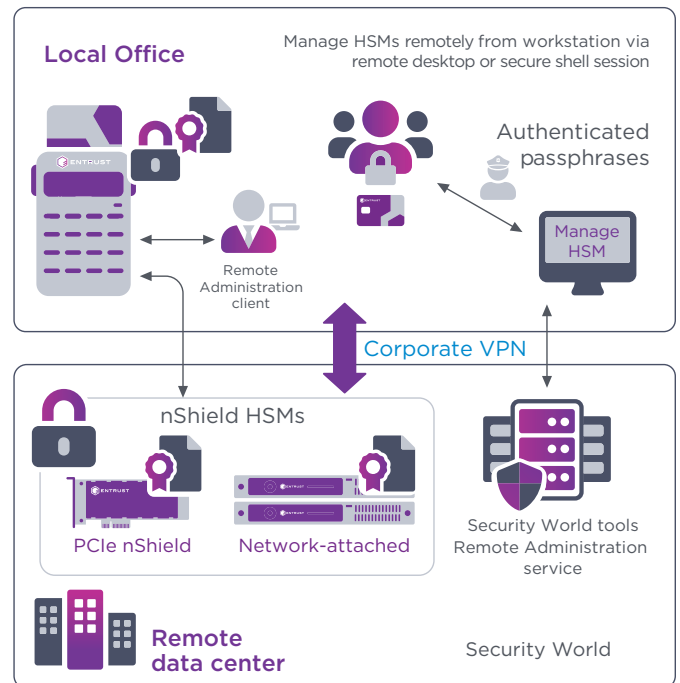


Figure 1. High-level illustration of the components used in a typical Remote Administration deployment



nShield Remote Administration

Getting Started with nShield Remote Administration kits

Remote Administration Kits are available in a variety of tiers depending on HSM estate size. Additionally, Remote Administration can be expanded to support larger estates post-installation by purchasing upgrade kits. The table below shows the kit tiers available for purchase.

Tier	Remote HSMs Served	TVDs	Client DVDs
1	1 to 10	2	2
2	11 to 20	5	5
3	21 to 40	10	10
4	40 or more	20	20

nShield Remote administration smart cards are available to order separately.

nShield Remote Administration compatibility and prerequisites

- nShield PCIe and network-attached HSMs
- RAC software compatible with Microsoft Windows, Linux, and OS X
- nShield Security World v12.80 minimum and 12.50.11 firmware or later; v13.x required for nShield 5s/5c HSMs
- Customer-supplied LAN or VPN and remote access solution

Learn more

To find out more about Entrust nShield HSMs visit [entrust.com/HSM](https://www.entrust.com/HSM). To learn more about Entrust's digital security solutions for identities, access, communications, and data visit [entrust.com](https://www.entrust.com)

To find out more about
Entrust nShield HSMs
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ABOUT ENTRUST CORPORATION

Entrust keeps the world moving safely by enabling trusted identities, payments and data protection. Today more than ever, people demand seamless, secure experiences, whether they're crossing borders, making a purchase, accessing e-government services or logging into corporate networks. Entrust offers an unmatched breadth of digital security and credential issuance solutions at the very heart of all these interactions. With more than 2,500 colleagues, a network of global partners, and customers in over 150 countries, it's no wonder the world's most entrusted organizations trust us.

Learn more at
entrust.com/HSM    

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