

nShield Web Services Crypto API

- Access to high security data protection solution from cloud, data center or on-premises applications
- Streamlined, easy connection to nShield hardware security module cryptographic services
- Simple deployment eliminating the need for client-side integration
- Flexible OS and architecture support

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Cloud-friendly interface to high assurance hardware security modules



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Feature Overview

The nShield Web Services Crypto API creates an easily accessible, streamlined interface between applications requiring cryptographic key and data protection services and highly secure nShield hardware security modules (HSMs). nShield HSMs perform a variety of cryptographic functions including encryption, decryption, signing and verifying, and now these core functions are available to applications through a simple web-service interface.

The key benefits of the nShield Web Services Crypto API are:

- **Access to high security data protection solution from cloud, data center or on-premises applications**
Applications that reside anywhere, whether in the cloud, in remote data centers or locally, can access nShield services through web service calls, bringing greater flexibility to today's varied computing environments.
- **Streamlined, easy connection to nShield hardware security module cryptographic services**
The efficient, modern web service interface improves the speed with which applications can be developed to access nShield HSM crypto services.
- **Simple deployment eliminating the need for client-side integration**
Typically, integrating applications with nShield HSMs requires binding to local host libraries; by using the web services API, developers benefit from reduced deployment complexity.
- **Flexible OS and architecture support**
The web services interface is independent of client application infrastructure and requires no OS-specific software local to the application, thus simplifying integration, particularly in custom environments.

Applications can reside in the cloud, a remote data center or locally.



Web Services Crypto API provides a simple interface between applications and nShield Crypto services.

GETTING STARTED WITH NSHIELD WEB SERVICES CRYPTO API

To use nShield Web Services Crypto API, you will need:

- nShield Web Services Option Pack (WSOP)
- nShield Edge, Solo or Connect HSM

To use the API, the nShield Web Services Option Pack (WSOP) is installed on the nShield client server, activating the service and making it available for direct and immediate connections from applications.

For nShield Connect HSMs: A standard client license is required only for the client server running the web service. Client licences are not required for connecting applications.

TECHNICAL SPECIFICATIONS

nShield compatibility

The nShield Web Services Crypto API is compatible with all models of the nShield HSM product family and all supported versions of nCipher Security World software. The WSOP must be installed onto a host running a supported version of the Linux OS and have the nShield Security World software installed.

API compatibility

nShield HSMs can support applications using the Web Services Crypto API in conjunction with applications using other supported APIs (PKCS#11, Java, CNG, etc.).

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