

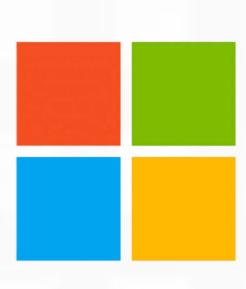


# BOOST DIGITAL PROTECTION: ACTIVE DIRECTORY CERTIFICATE SERVICES

## **Futurex Digital Protection with AD CS**



Microsoft's Active Directory Certificate Services (AD CS) is a core component within the Microsoft ecosystem, providing essential certificate issuance and management services. However, storing the private key in software poses significant security risks. Futurex integrates with AD CS to mitigate these risks to offload the private key function to a CryptoHub hardware security module (HSM).

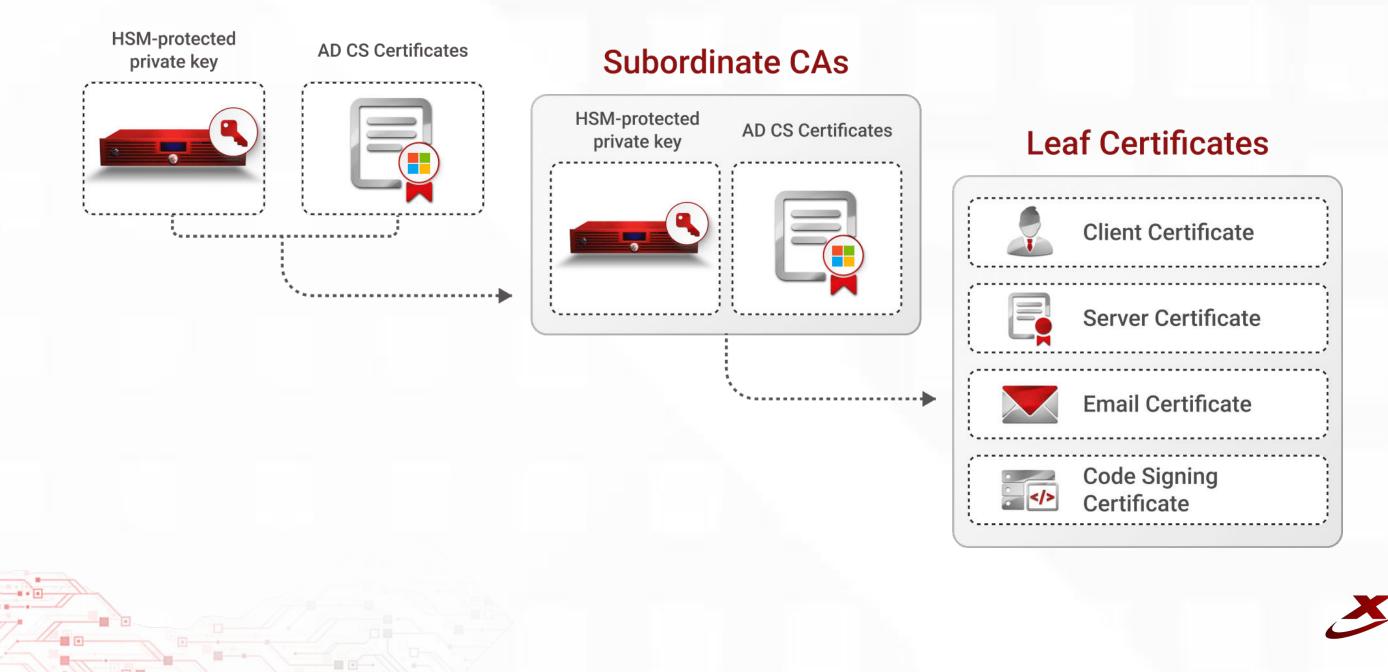


## Microsoft

An HSM enhances security by securely storing and managing the private key, protecting it from unauthorized access and potential breaches. Our HSMs meet stringent security standards, including FIPS 140-2 Level 3 certification, and offer robust role-based access management. This centralized key management improves security and aids in disaster recovery (DR). If an AD server is lost, it can be rebuilt with the keys securely stored in the HSM.

Microsoft AD CS / HSM Integration Architecture

#### **Root CAs**





## **Powerful Security**



#### **Certificate Authority Management**

Manages the entire digital certificate lifecycle efficiently and securely

#### Protection for Root Keys

Safeguards the most critical cryptographic assets in your PKI with tamper-resistant HSMs.

#### **Protection Against Insider Threats**

Enforces strong access controls and multi-factor authentication for secure PKI

### **The Futurex Advantage**

Integrating with Active Directory Certificate Services is simpler with CryptoHub's intuitive workflow-driven setup. Deploy a robust HSM solution to securely manage and protect your private keys in just a few clicks. This allows your organization to enhance its cryptographic security quickly without the complexity traditionally associated with HSM deployments.

When you choose Futurex, you secure more than just your AD CS environment. CryptoHub is part of a versatile, highly extensible platform that addresses all your enterprise cryptographic needs.

From general-purpose and payment HSMs, enterprise key

#### Principal Features with Futurex

Compliance: FIPS 140-2 Level 3

Integration Mechanism: Microsoft CNG

**High Availability and Synchronization**: Natively Supported

Supported Algorithms: RSA & ECC

**Deployment Models:** 

- On-premises appliance (1U or 2U)
- **Cloud** all major CSPs and virtualization platforms supported
- SaaS 13 data centers worldwide

#### Supported AD CS Versions:

• Windows Server 2008/R2

management, PKI and certificate authority, and data protection, CryptoHub covers all bases.

This comprehensive approach eliminates the need for multiple, siloed products, streamlining your security infrastructure.

- Windows Server 2012/R2
- Windows Server 2016
- Windows Server 2019
- Windows Server 2022

# FUTUREX

For over 40 years, Futurex has been an award-winning leader and innovator in the encryption market, delivering uncompromising enterprise-grade data security solutions. Over 15,000 organizations worldwide trust Futurex to provide groundbreaking hardware security modules, key management servers, and cloud HSM solutions.

Futurex is headquartered outside of San Antonio, Texas, with regional offices worldwide and over a dozen data centers across five continents. Futurex delivers unmatched support for its clients' mission-critical data encryption and key management requirements.

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