

CRYPTO-Server Strong Authentication Module

CRYPTO-Server is the authentication component of CRYPTO-Shield, CRYPTOCARD's award winning two-factor authentication suite. CRYPTO-Server services authentication requests from firewalls, VPN devices, as well as other CRYPTO-Shield components, such as CRYPTO-Web and CRYPTO-Logon. Using secure one-time passwords, CRYPTO-Shield protects your network from unauthorized access.



CRYPTO-Server Authentication Module

The CRYPTO-Server Authentication Module processes authentication requests and provides all system and token management functions. CRYPTO-Server provides authentication for users stored in AD/OpenLDAP/Open Directory, or the internal database. CRYPTO-Server includes workflow automation tools, such as CRYPTO-Deploy, which aid in the deployment of all supported token types and substantially reduces administrative overhead.

CRYPTOCARD Authentication Protocol Server

The CRYPTO-Protocol Server module is the interface between CRYPTO-Server and the various network access points such as VPN Gateways, Web servers, and LANs configured to use CRYPTOCARD authentication. The CAP (CRYPTOCARD Authentication Protocol) Server includes support for a number of industry standard protocols including RADIUS, HTTP, HTTPS, as well as the native CAP protocol. Additional CRYPTO-Protocol Servers may be installed as required in other locations

to facilitate authentication in complex network environments. An example would be multiple Web servers belonging to different domains authenticating against a central CRYPTO-Server.

CRYPTO-Console

Operator access to CRYPTO-Server is provided by the CRYPTO-Console GUI, which may be installed locally on the CRYPTO-Server platform. Additional consoles may be added as required, provided they reside on the same subnet as the CRYPTO-Server. Token management, reporting, licensing, and other housekeeping functions are performed through CRYPTO-Console.

Multiple Authentication Methods

Authentication methods supported include:

- CRYPTOCARD token types
- RSA/SecurID (DES) based tokens
- Static passwords

CRYPTO-Shield Includes:

- Full CRYPTO-Server software
- CRYPTO-VPN
- CRYPTO-Logon
- CRYPTO-Web
- CRYPTO-Console
- CRYPTO-Kit
- Failover/Redundancy

Server Platform Coverage

- Windows 2000 Server SP4
- Windows 2003 Server SP1
- RedHat Linux Enterprise
- SuSe Linux Enterprise Server
- Mac OS X Tiger

Scalability

The solution encompasses internal users, standalone computers, Web servers, VPNs, and virtually every other form of network access. It is scalable up to 255 realms and hundreds of thousands of users. CRYPTO-Server can be implemented as a stand-alone system or installed on existing RADIUS servers. CRYPTO-Server is designed for high availability to respond to peak demands, as well as network outages, with:

- RADIUS load balancing
- Mirrored servers
- Authentication process is not sensitive to time synchronization or network transit delays
- Up to 250,000 users per system

Replication

Supports local and remote replica servers for hot standby/failover

Encryption Algorithms

- DES
- 3DES
- AES 128-bit, 192-bit, 256-bit

Directory Support (user data storage)

- CRYPTO-Server internal
- Active Directory
- Open LDAP
- Open Directory

Database Support (token data storage)

- Native MySQL
- External MySQL
- MS-SQL
- Oracle

Reporting and Logging

- All activity is stored in logs and database tables
- Data is accessible via management consoles and external reporting tools
- Multiple logging options, including output to HTML

Authentication Protocols

- PAP
- MSCHAPv2
- RADIUS
- CAP

Interoperability

- CRYPTO-Server includes a RADIUS server for maximum interoperability
- Compatible with leading remote access servers, wireless access points, Web servers, firewalls, and VPNs (e.g. Microsoft, Nortel, Check Point, Cisco, Apache, Citrix)
- RSA token migration

Application Developer API

CRYPTO-Kit enables development of interfaces/authentication agents for specific environments or integration with existing applications/workflows.

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