

# CRYPTO-Shield Software Components

CRYPTO-Shield is an integrated package of function-specific modules to provide optimal performance, flexibility, workflow automation, interoperability, and reliability for strong authentication. Many modules can replace or augment technologies which are already deployed within your organization. CRYPTO-Shield seamlessly integrates into your corporate structure and provides the widest possible range of options to define, implement, execute, and verify network security access policy.



## CRYPTO-Shield Authentication Module

The CRYPTO-Shield 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. Authentication methods supported include all CRYPTOCard token types, RSA/SecurID (DES) based tokens, manual OTP, and static passwords.

## CRYPTO-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.

## CRYPTO-Console

Operator access to CRYPTO-Server is provided by the CRYPTO-Console GUI, which may be installed locally on the CRYPTO-Server platform. Token management, reporting, licensing, and other housekeeping functions are performed through CRYPTO-Console.

## CRYPTO-Deploy

CRYPTO-Deploy™ is a Web-based deployment tool for CRYPTO-Server that automates the issuing, installation, self-enrolment, and activation of CRYPTOCard tokens to authorized users. Once initiated by the administrator, users are directed to a unique URL for one-time enrolment and installation of their token.

### The Components of the CRYPTO-Shield 6 Platform Includes:

- CRYPTO-Shield Authentication Module
- CRYPTO-Protocol Server
- CRYPTO-Console
- CRYPTO-Deploy
- CRYPTO-Logon
- CRYPTO-Web
- CRYPTO-Kit

### 5-User Kit Includes:

- All items listed above
- 5 Tokens (choose from several varieties)
- 5-Seat License
- 30 Days support

## CRYPTO-Logon (Windows, Linux and Mac)

CRYPTO-Logon for Microsoft Windows is a complete solution that enforces token authentication for all domain access points, including domain logon, IIS, OWA, Terminal Server, and Citrix. Once fully implemented, only users who have been issued a CRYPTOCard token will be able to gain access to the protected Windows network, systems, or resources.

CRYPTO-Logon for Linux is a PAM authentication module for Linux-based computers. It provides two-factor authentication for local machine logon and PAM-enabled server daemons. Once installed on the client/server machine, a user is required to authenticate against a CRYPTO-Server using their CRYPTOCard token-generated one-time password.

CRYPTO-Logon for Mac OS X is an authentication module for Mac OS X-based computers. It provides two-factor authentication for local and domain machine logon and PAM-enabled server daemons. Once installed on the client/server machine, a user is required to authenticate against a CRYPTO-Server using their CRYPTOCard token.

## CRYPTO-Web (IIS and Apache)

CRYPTO-Web sits in the data stream between the user's browser and the Web applications residing on the Web server, it intercepting all resource requests. CRYPTO-Web allows access to the requested resource only after authenticating and verifying that the user is authorized to receive it. It may be configured to protect domain name-based and IP address-based virtual hosts.

CRYPTO-Web for IIS is an ISAPI filter for Web servers running Microsoft IIS-5 or IIS-6. CRYPTO-Web for Apache is an Apache module for an Apache 1.3 or 2.0 Web server.

## CRYPTO-Kit

CRYPTO-Kit is a set of application programming interfaces available on the Windows, Linux and Macintosh platforms, the purpose of which is to provide programmable access to two CRYPTOCard services - the M2M software token interface and the Authentication Service.

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