

CRYPTO-MAS

Managed Authentication Service

Many companies recognize the need for strong authentication to protect their data and other digital assets, but they lack the requisite skills, manpower, infrastructure or budget to implement a two-factor authentication solution. CRYPTOCARD's Managed Authentication Service offers the benefits of strong two-factor authentication without the need to implement the infrastructure in house.



CRYPTO-MAS is a managed service that provides two-factor authentication for companies that do not want to manage it themselves. CRYPTO-MAS is based on CRYPTOCARD's award-winning authentication technology, which is deployed by major organizations in over 70 countries.

Increased Security

CRYPTO-MAS provides all the security benefits of CRYPTOCARD strong authentication:

- Positive verification of users based on two factors, an authentication token and a PIN;
- Protection against shoulder surfing, social engineering, phishing and other forms of password theft;
- Reduced help desk calls due to lost or forgotten passwords, mandatory password complexity and password expiry.

Easy to Implement

CRYPTO-MAS requires no additional investment in infrastructure. Nor does it require your employees to have technical skills in two-factor authentication.

You can be up and running with a secure, reliable, strong authentication mechanism within hours.

Low Up-front Costs

Because you are not purchasing any software or servers to implement your authentication solution, your up-front costs are significantly reduced. CRYPTOCARD offers the CRYPTO-MAS service for a low monthly fee, providing predictability in your expenditures and scalability as you grow.

The only upfront cost to the end-user is the purchase of the selected tokens and an annual managed service fee.

Features and Benefits

- **Two factor Authentication with virtually no IT requirement**
- **No capital expense for infrastructure, as all server based infrastructure is outsourced**
- **Be up and running within hours**
- **Low monthly user fee allows companies to easily/flexibly adjust to changes in their workforce**

High level of Service

CRYPTOCard's Service Level Agreement provides you with the protection of a high level of service, without the requirement of staffing a help desk with technically sophisticated employees.

Key CRYPTO-MAS Benefits

- Strong authentication without hassle
- Quick to implement: no new hardware or software to install
- Low cost & reduced technical burden
- Auditability and standards compliance
- Scalable: 5 – 50,000+ users
- Flexible: Mix & match authentication

CRYPTO-MAP

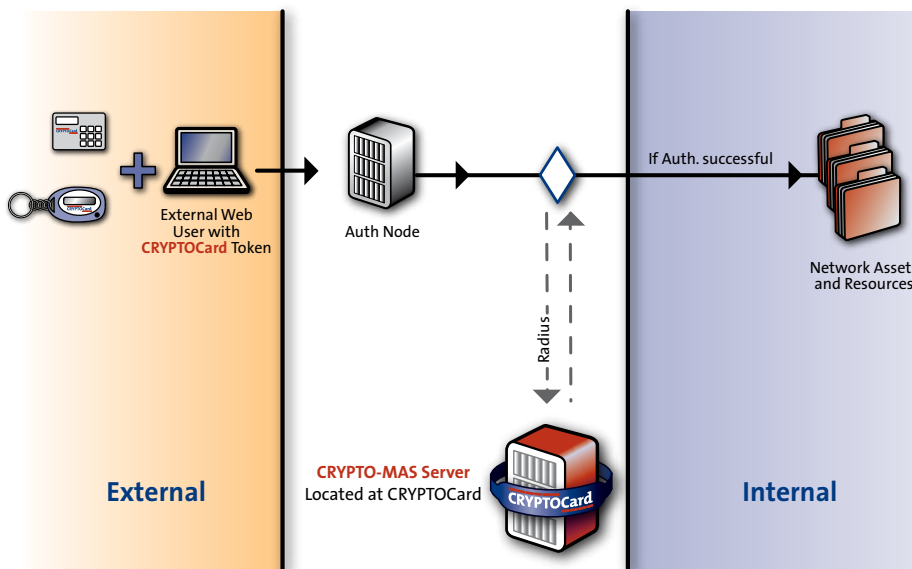
CRYPTOCard's Managed Authentication Portal (CRYPTO-MAP) provides a secure, easy-to-use interface for provisioning users, assigning tokens and other administrative tasks. You can manage users and tokens yourself without having to contact CRYPTOCard.



Screen shot of CRYPTO-MAP Portal

Multiple AuthNodes

CRYPTOCard's authentication service is activated by pointing your authentication node (AuthNode) at the CRYPTO-MAS Server for servicing authentication requests. CRYPTO-Server supports a wide range of AuthNodes, including VPN concentrators, SSL VPNs, Firewalls and IIS and Apache websites.



An **Auth Node** is a system or application within the network that challenges the user to authenticate and communicates with the CRYPTO-MAS Server. Examples include: IPSEC or SSL VPN, Firewall, Web Application, Citrix Gateway, Web email (eg. OWA), Web Portal, ISA, etc.

= Authentication Request

CRYPTOCard North America

340 March Road
Suite 600
Ottawa, Ontario
K2K 2E4 Canada

Toll Free: 800-307-7042
Tel: +1-613-599-2441
Fax: +1-613-599-2442
E-mail: masinfo@cryptocard.com
www.cryptocard.com

CRYPTOCard Europe

Eden Park, Ham Green
Bristol BS20 0EB,
United Kingdom

Tel: +44 870 7077 700
Fax: +44 870 7077 711
E-mail: masinfo@cryptocard.com
www.cryptocard.com

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