

Data Protection with Strong User Authentication

Use Gemalto Protiva™ smart cards for pre-boot authentication with McAfee® Endpoint Encryption

Gemalto Protiva cards and secure USB tokens are now interoperable with McAfee Endpoint Encryption, the McAfee solution for encryption and strong access control that prevents unauthorized access to sensitive data and stops information loss and exposure. The integrated solution delivers greater security, reduces operational costs, and improves compliance by adding smart cards based strong user authentication to McAfee Endpoint Encryption.

McAfee Compatible solutions include McAfee Endpoint Encryption and Gemalto Protiva offer for .NET smart cards, Smart Enterprise Guardian (SEG) USB device, Classic TPC smart cards, and Gem e-Seal tokens.

Business Problem

With data breaches on the rise, it is important for companies to protect their information assets and comply with privacy regulations. Data encryption is a common technique used by enterprises today, but to be most effective, it must be accompanied by strong user authentication to desktop, mobile, and laptop computer applications. Working together, encryption and authentication reduce risk and stop unauthorized access to sensitive data.

McAfee and Gemalto Solutions and Benefits

McAfee Endpoint Encryption supports interoperability with various types of smart cards and smart card-based USB tokens. Gemalto's family of Protiva smart cards and tokens has been integrated with McAfee Endpoint Encryption, providing two-factor authentication at both pre-boot and at Microsoft Windows levels. The Protiva smart cards provide secure storage for the certificates needed for endpoint encryption for PC (EEPC) functionality to boot up. If the smart card is not inserted in the laptop, or if the certificates are deleted, revoked or expired, the EEPC software will not boot up and the data on the laptop will stay encrypted and secure.

More specifically the integrated solution provides the following features:

- On the pre-boot level, the Gemalto Protiva smart card will act as an additional layer of authentication. Whenever the Protiva smart card is not present, McAfee Endpoint Encryption will not boot and data will stay encrypted.
- On Windows, the Gemalto Protiva card or secure token will appear as a smart card, ensuring 100 percent protection of end-user data using the solution's file and folder encryption capabilities.

About Gemalto

Gemalto is a world leader in digital security and delivers on the growing demands of billions of people worldwide for mobile connectivity, identity and data protection, credit card safety, health and transportation services, e-government, and national security. Gemalto's Protiva security products, such as .NET cards Smart Enterprise Guardian (SEG) and Gemalto's Classic TPC smart cards, are already interoperable with McAfee Endpoint Encryption, enabling the highest levels of security to protect company assets, data, and brands.



Figure 1. Gemalto smart cards and USB tokens.

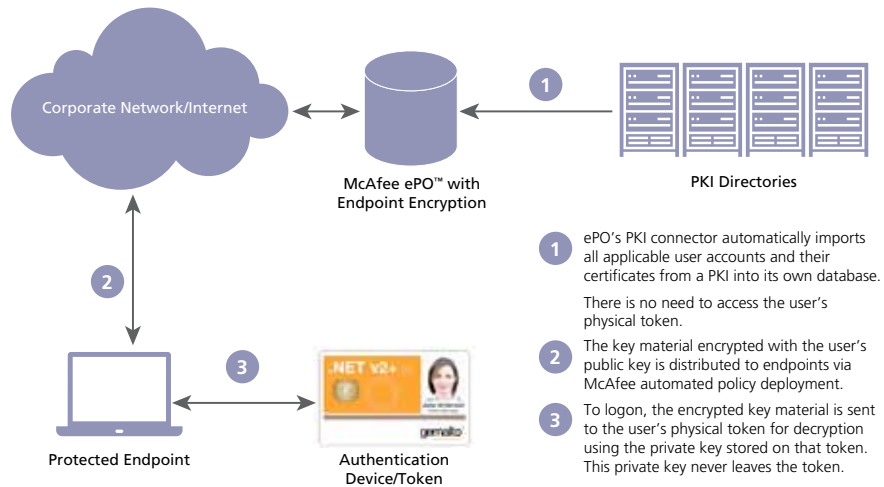


Figure 2. Summary of PKI usage in McAfee Endpoint Encryption.

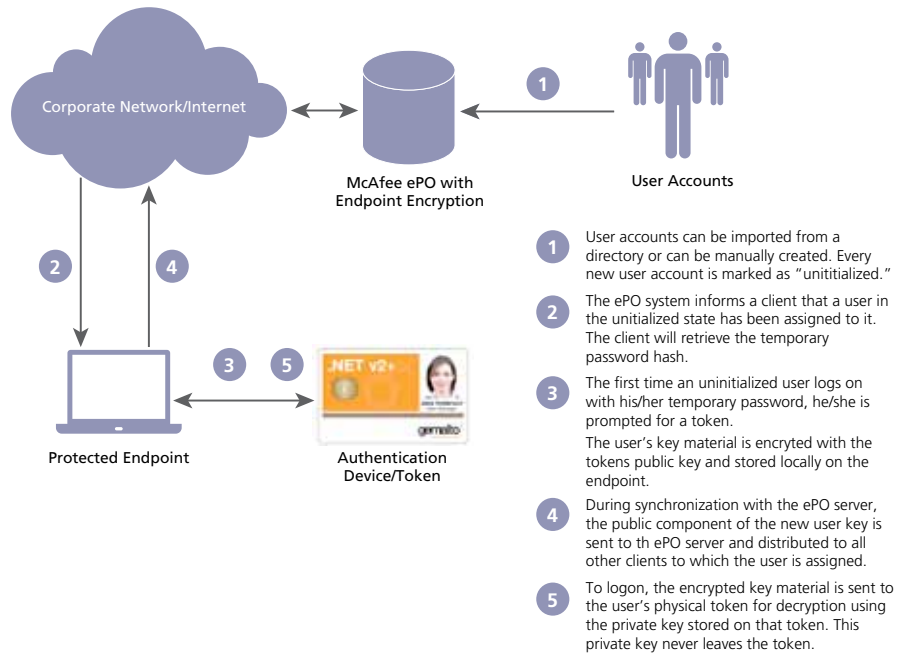


Figure 3. Summary of smart card usage with client-side enrollment in McAfee Endpoint Encryption.

About McAfee Endpoint Encryption

McAfee Endpoint Encryption provides unprecedented protection for important data, helping businesses prevent information loss and maintain business continuity. It is the only solution on the market that addresses all forms of endpoint encryption in an integrated suite. Continuous security can be applied to data assets no matter where they are—on individual PCs, roaming laptops and mobile devices, or shared network files and folders. The suite also makes it simpler for organizations to enforce security policies and achieve regulatory compliance.

