

# Data Protection with Strong User Authentication

Use Alcatel-Lucent's OmniAccess 3500 Nonstop Laptop Guardian card for pre-boot authentication in McAfee Endpoint Encryption Software.

Alcatel-Lucent's OmniAccess 3500 Nonstop Laptop Guardian (NLG) authentication card for laptops can now be called from within McAfee<sup>®</sup> Endpoint Encryption, McAfee's product range for full disk encryption (FDE), as well as for file and folder encryption. The integrated solution provides strong user authentication, with remote erase possibility of cryptographic keys stored on the card and used by McAfee Endpoint Encryption.

Benefits of the joint solution include greater protection, reduced operational costs, and improved compliance.

## Business Problem

With more data breach incidents making the news, companies are understandably concerned about protecting their information assets and being able to prove their full compliance with privacy regulations. Using the powerful encryption and strong access control features of McAfee Endpoint Encryption, you can prevent unauthorized access to your sensitive data and stop data loss and exposure today. In combination with Alcatel-Lucent's NLG card the protection of McAfee Endpoint Encryption authentication credentials and cryptographic keys is significantly increased.

## McAfee + Alcatel-Lucent Solution and Benefits

McAfee Endpoint Encryption supports interoperability with various types of smart cards and USB tokens. Typically these cards are used in certificate-based, second factor user authentication, required for the decryption of hard disk contents (resp. files&folders), as well as for access to Windows. The NLG card has been integrated with Endpoint Encryption as a smart card, providing 2nd factor authentication at both pre-boot and at Windows levels. The NLG card stores the certificates needed for Endpoint Encryption FDE functionality to boot up. If the NLG card is not inserted in the laptop, or if the certificates are deleted, the FDE software will not boot up and the data on the laptop will stay encrypted and secure.

The uniqueness of the combined solution lies in the fact that the smart card on the NLG card is always reachable by IT administrators, due to the "always on" capability of the NLG card (built-in 3G modem and battery). This makes the NLG card a remotely controlled "ignition key" for the laptop. In the case that a laptop is reported stolen or lost, the administrator can issue a "remote kill" command to secure the data on the laptop. The "remote kill" command remotely deletes the certificates stored on the card, disables the smart card and forces a laptop reboot. The laptop will then be unable to boot up and the data on the laptop will stay encrypted, hence secure.

More specifically the integrated solution provides the following features:

- The NLG card will appear to Windows as a smart card, ensuring 100% protection of end user data;
- The NLG card will act as an additional factor of authentication. Whenever the NLG card is not present, McAfee Endpoint Encryption will not boot and data will stay encrypted;

- Since an NLG powered laptop is always on and connected, it can be remotely “killed” by the administrator, either by disabling the NLG smart card, or by deleting the certificates on the NLG smart card;
- NLG will force a reboot, taking the laptop back to the FDE pre-boot login screen. This in order to protect the content that was available in decrypted form under Windows at the time of the reboot;
- NLG allows the smart card to be easily reprovisioned when the laptop is recovered;
- Remotely controlled smart cards capability makes roll out easier.

**Compatibility Tested Products:** McAfee Endpoint Encryption 5.4 and Alcatel-Lucent OmniAccess 3500 Nonstop Laptop Guardian (NLG). A wide range of PC platforms are supported. Please refer to McAfee’s release notes for platforms that have known issues.

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