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## **Subject: RTE - Load local property**

**Classifications:** RTE > Version 3.60

### **Background:**

In RTE 3.0 the RSA key pair corresponding certificate was installed only on the eToken therefore every time the certificate was needed for cryptographic operation it was read directly from the eToken.

The problem in this behavior:

1. It took a lot of time to read the public information (Certificate) from the eToken.
2. Some applications do not dynamically enumerate the certificate store resulting in an error since not eToken certificate is available.

### **Solution:**

Starting from RTE 3.51, the RTE loads locally the eToken certificate to the Registry. The purposes of this behavior are as follows:

1. Increase the performance of using certificates since Load Local Option, of eToken Certificate Store, automatically loads the eToken Certificates to the registry the first time an application enumerates the certificates. The Load Local option has enormous effect on Certificate performance.

The certificate is read from the local store of the machine from the first insertion of eToken to the machine and from there on it will use the cached certificate instead of the original one which is stored on the eToken.

This solved completely the first problem mentioned above.

2. Applications will be able to use eToken although the eToken was not inserted prior to the cryptographic operation. Since the cached certificate will have a handle to the corresponding key pair on the eToken, the user will be prompted for the eToken PIN. This solves the problem for applications such as Outlook on Windows XP and Internet Explorer SSL.

(If a user tried to access an SSL page and the eToken was not inserted prior the to the SSL negotiation, the SSL would fail since it did not find a valid certificate that could be used for the negotiation. It will only succeed if the user will insert his eToken to the USB slot prior to the SSL negotiation begins as the certificate enumeration is not dynamic and happens only once when the application starts).



The option is enabled by default in eToken RTE Since version 3.51. This behavior can be adjusted by the appropriate a registry key as well.

Registry Key:

KEY\_LOCAL\_MACHINE\SOFTWARE\Aladdin\eToken\eTCertStore

Value:

DWORD LoadLocal:

If set to 1 the load local is being Activate.

This option can be set during command line installation of the RTE

**More Information:** See eToken RTE Admin Guide

**Key Words:** Load local