



For this short technical tip, I've used a Smart Card with a Smart Card Reader connected through COM1, which my customer gave me, to be able for evaluation. The purpose of this document is to have a "Token Based" Certificate for VPN usage.

I assume, you have Entrust 5.0, X.500, Permit/Client and Permit/Config installed and know how to handle the configurations on Registration Authority and Certificate Authority. If you are new to this, I'd like to refer to my Technical Documentation on www.bemsel.com

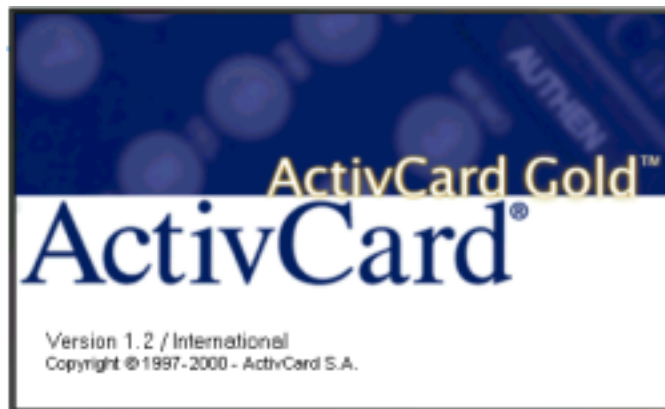
The smartcards have an embedded operating system providing several features of secrecy. One of these has been enforced to provide un-ability to retrieve information from the smartcard without permissions and even do not allow usage of a smartcard without explicit authorization.

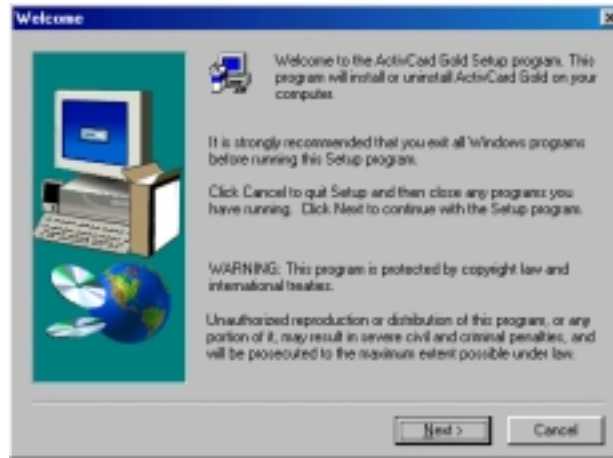
ActivCard Gold uses the Microsoft DCOM technology. If you encounter the following error message while logging off or shutting down the machine

"WIN95 RPC - Window not responding"

Then you should upgrade the COM layer by installing DCOM95 v1.3 or DCOM98 v1.3 or later. You can also upgrade if logon or logoff to Windows 95/98 is very slow.

Start the setup program

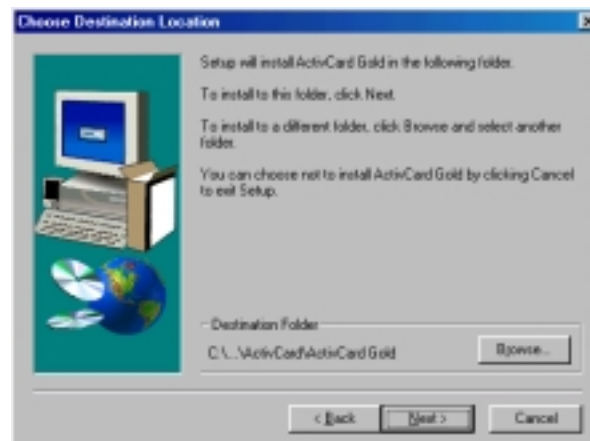




A welcome screen appears, click on NEXT

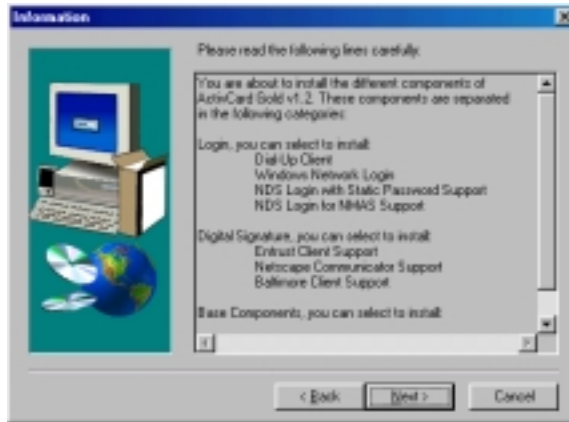


Accept the License Agreement by clicking YES

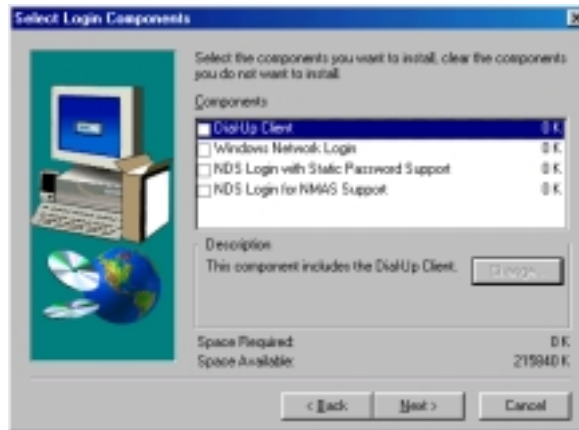




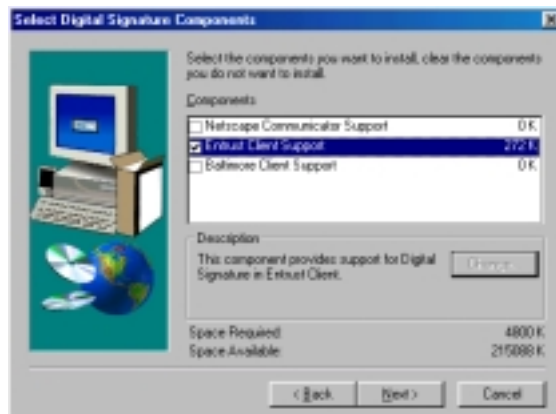
Accept the default Destination Folder and click **NEXT**



You will get an Information window, where you've been told, what components you can choose from.



No selection to be done on Login Components.





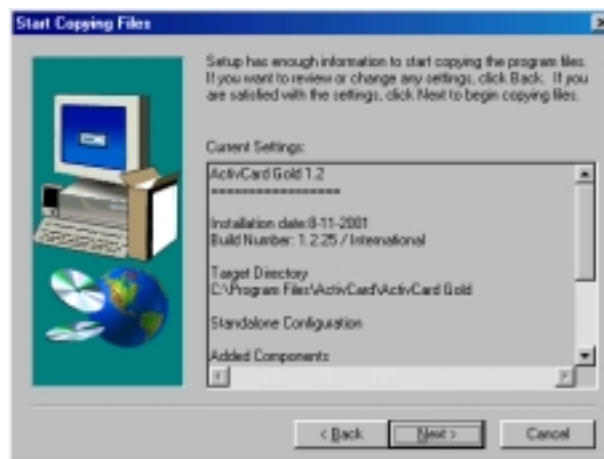
At the Digital Signature Components Selection, check-mark **ENTRUST CLIENT SUPPORT**



Make sure you have ActiveGold Base Service and SmartReader PC/SC Driver checked



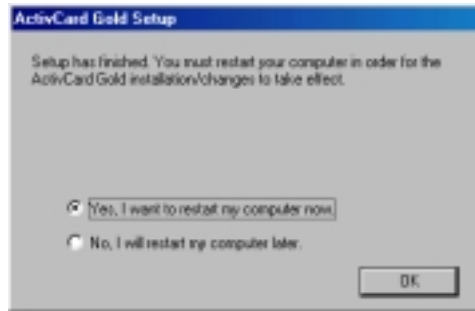
Usually, you connect the Smart Reader on COM1 and the Keyboard connector.





(A progress bar appears)

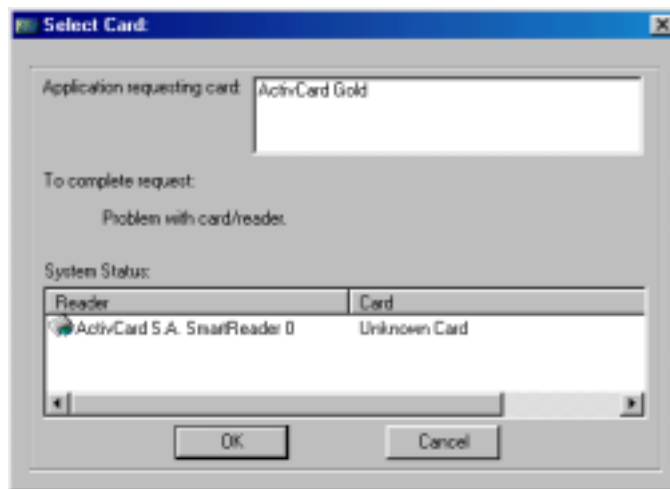
A reboot is required.



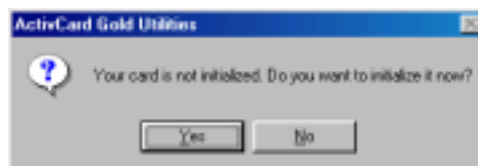
When the reboot is done, open the Utilities either by **right click** on the Smart Reader Icon on the Status Bar

or

Start ⇒ Programs ⇒ Active Card ⇒ ActiveCard Gold Utilities



You will have to initialize the smart card to use for the first time. Usually, when inserting a new card, a window pops up to tell you, the card needs be initialized.



Click on **YES**

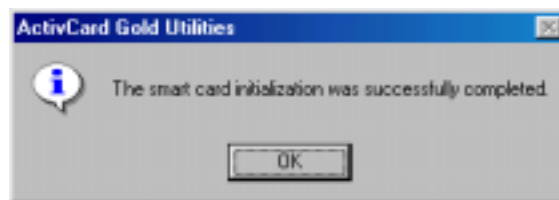


A PIN Settings Window appears



Define your own PIN and make sure you remember, and click on **INITIALIZE SMART CARD**. How about your PIN code of your GSM or Credit Card.

I've used '1234' as my PIN, however, this is a wonderful PIN to guess, so make it a bit harder.



After you have initialized a smart card with ActivCard Gold in the standalone mode, you need to obtain the card's unlock code. If you enter 6 consecutive wrong PIN codes when trying to use the smart card, it automatically locks. You then need to use the unlock code to unlock the smart card before you can access any of its functions. The unlock code is available through the ActivCard Gold Utilities, and it is the user's responsibility to keep it in a secure and available place.

IMPORTANT: *When the smart card is locked, you cannot use the Utilities to access the screen that displays the unlock code. Thus, you need to follow the steps listed below after initializing your card, so that you have the unlock code available should you ever need it.*

After the smart card is initialized, exit the ActivCard Gold Utilities and then re-launch the Utilities. After you enter your PIN code to access the Utilities, the Unlock Code screen displays.

Write down the unlock code displayed in the screen and put it in a secure place



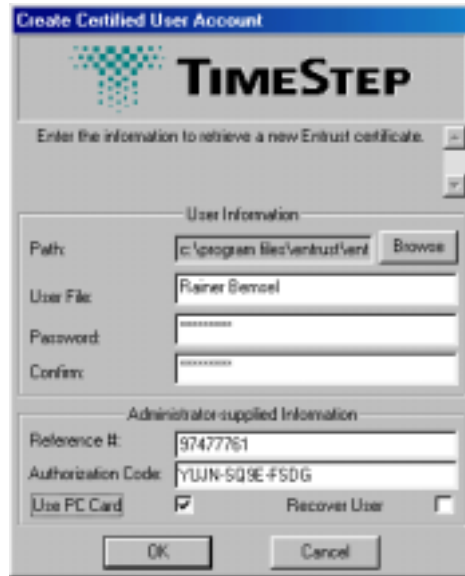
If you do not want the Utilities to ever display the unlock code again (recommended for greater security), select the Never again display... check box. If this check box is unselected, then each time



after you enter your PIN code to access the Utilities, it will display the unlock code (however, you will NOT see this screen if the card is locked (because the PIN is locked), so write the unlock code down).

IMPORTANT TO KNOW: *If you forget the unlock code and try to unlock the smartcard with random values you will after some unsuccessful tests put it in a dead like mode from which the smartcard couldn't be awoken. This is a normal behaviour because there is no backdoor in this product.*

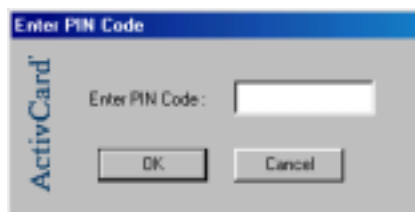
Now, it's time to launch your VPN client and create a new user. TimeStep will use SCEP for online certification enrollment.



More information on TimeStep VPN Client with use of Certificates refer to my earlier Technical Tip

http://www.bemsel.com/omnitip_collection/Client_Gate_Certificate.pdf

It will take some time and you will be prompted for a PIN number, you have generated during initialization



The first time to get the certificate downloaded onto the SmartCard will take a time (a couple of minutes), so don't get nervous and please do not remove the smart card until this process is finished

This is it – Next time you want to establish a VPN tunnel, you will be prompted for the password, you defined during “Create a new User”, not the PIN.