



ramco



# Ramco Aviation Solution

## Version 5.8

### **Installation Manual**

VirtualWorks™ RunTime Dot Net Installation

Document - Smartcard Interface Installation

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## 1. INTRODUCTION

This installation guide will take you through the necessary steps to install the Smart Card Interface at the client machine.

## 2. ASSUMPTIONS

1. Clients are with Microsoft operating system and Internet Explorer 5.0 or above.
2. Smart card reader is Gem plus's gempc410 or SCM Micro's SCR331 USB Smart Card Reader.

## 3. PREREQUISITES

1. Gem plus Smart card reader (gempc410) or SCM Micro's SCR331 USB Smart card Reader
2. Gem plus MPCOS EMV Smart card
3. Gempc410 driver zip file (GemplusDriver.zip) or SCR331 driver zip file (SCR331 USB Driver Ver. 4.22.00.zip)
4. Smart Card Interface file (SmartCardInterface.zip)
5. Smart Card Interface file (SmartCardInterfaceAdmin.zip) for administrator who will be doing card issue and re-issue.

## 4. INSTALLATION STEPS

### **Step 1: Driver Installation**

*Note: Please proceed to the next step if driver installation is already completed.*

If the smart card reader is Gemplus's gempc410, continue with **Gempc410 Driver Installation** section. If the smart card reader is SCM MICRO'S SCR331 USB, continue with **SCR331 USB Driver Installation** section.

### **Gempc410 driver Installation**

#### **For NT Client**

1. Run setup from the reader driver CD (GemplusDriver.zip)
2. Accept license agreement

3. Choose driver gempc410 and click **Next**
4. Click **Next** and finish to complete the installation
5. Shutdown the system, connect the readers and then restart
6. Go to services and start smart card resource manager. Ignore error displayed during service startup.

#### **For win2k Client**

1. Connect the card reader
2. Go to control panel and click on add/remove Hardware
3. In add/remove Hardware wizard click **Next**
4. In choose hardware task window, choose add/trouble shoot a device
5. OS will identify the plugged-in hardware. Complete driver installation accepting defaults

*Note: Go to Services and check whether "Smart Card" service is started. If not, start the service.*

#### **For Windows 7 (64 Bit) Client**

1. Connect the card reader
2. Go to Control Panel and click **Device Manager**. Scan for Hardware Changes.
3. OS will identify the plugged-in hardware and install suitable Microsoft device driver.
4. If the driver has to be updated with the one provided by manufacturer, go to Update Driver and complete the installation.
5. Insert the smart card
6. OS will identify the hardware and try to find suitable driver. Proceed with the following steps to complete the installation.
  - ▶ Go to Device Manager.
  - ▶ Go to "**Other Devices** -> **Smart Card**, right click and select **Properties**.
  - ▶ Go to "**Driver Tab**". Click **Update Driver** button.
  - ▶ Click "**Browse my computer for driver software**" link.
  - ▶ Click "**Let me pick from a list of device drivers on my computer**" link.
  - ▶ Select "**Smart Cards**" from the list of "**Common hardware types**" and click "**Next**".
  - ▶ Select "Identity Device (Microsoft Generic Profile)" from the listed Models and click "**Next**".
  - ▶ Ignore the warning and proceed with installation.

## SCR331 USB driver Installation

Extract files from zip (SCR331 USB Driver Ver 4.22.00.zip) into a folder

### For win2k client

1. Connect the card reader
2. Go to control panel and click on add/remove Hardware
3. In add/remove Hardware wizard click next
4. In choose hardware task window, choose add/trouble shoot a device
5. OS will identify the plugged-in hardware. Type the path where driver file SCR33X2K.SYS is located and then click OK.
6. Complete driver installation accepting defaults

## Step 2: Smart card Interface Client component Installation

*Note: If an earlier version of Smart card Interface client component has been installed in the client, please uninstall the same as given in the “Uninstalling Smart Card Interface Client Component Installation” section before starting the installation.*

### For E-Signature User Client

1. Extract the SmartCardInterface.zip file into folder from where smart card authentication will be used.
2. Run the setup.exe available in change PIN folder of extracted folder. After successful installation, “Smart Card – Change User PIN” will be added to the startup programs. This is used for changing user PIN in smart cards.

### For Smart Card Interface Administrator Client

1. Extract the SmartCardInterface.zip file into folder from where smart card authentication will be used.
2. Run the setup.exe available in change PIN folder of extracted folder. After successful installation, “Smart Card – Change user PIN” will be added to the startup programs. This is used for changing user PIN in smart cards.
3. **SCardLibRamcoAdmin.dll needs to be registered in the machine from where card issue and re-issue will be done.** This DLL is available in SmartCardInterfaceAdmin.zip. Extract from the SmartCardInterfaceadmin.zip and register it.

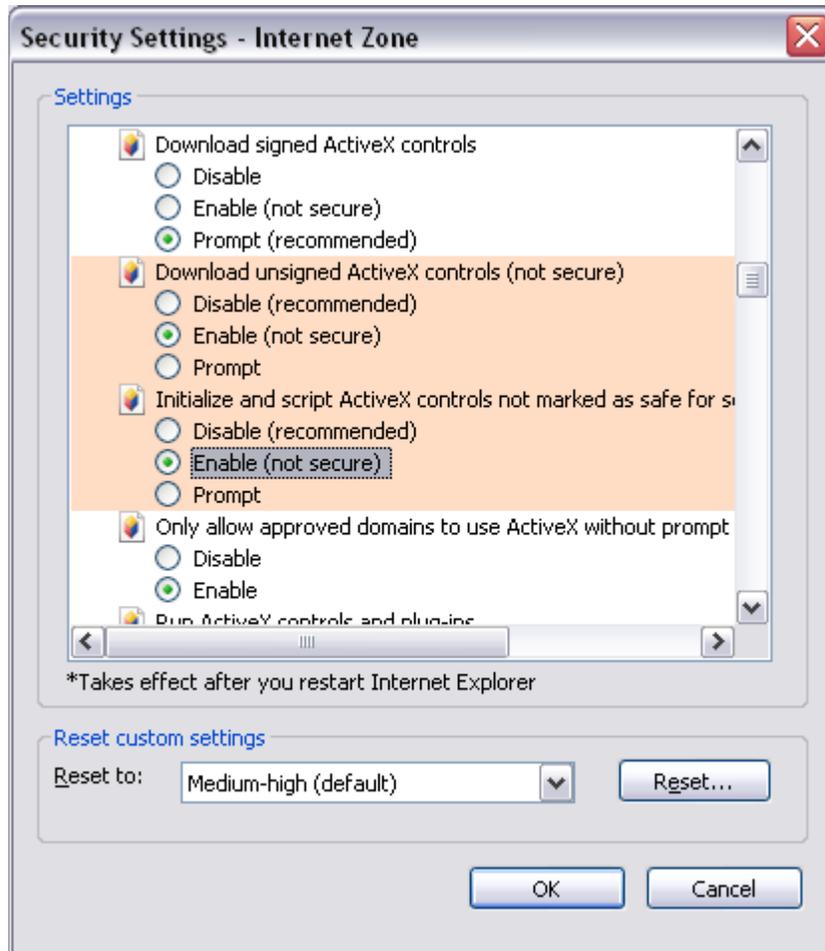
*Note: If the client OS is Windows 7 (64 Bit) and there is some problem in dll registration, kindly follow the steps given below,*

1. Copy SCardLibRamcoAdmin.dll to "C:\Program Files (x86)" and "C:\Windows\System32" folders.
2. Go to "Start -> All Programs -> Accessories -> Run".
3. Right click on "Run" and select "Run as Administrator".
4. At DOS prompt, change to the directory "C:\Program Files (x86)" folder.
5. Manually register the dll by using the following command, "**regsvr32 SCardLibRamcoAdmin.dll**".
6. System should give the message, "DLLRegisterServer in SCardLibRamcoAdmin.dll succeeded".

### **Step 3: Internet Explorer Settings**

Please check the following on the client machine:

1. Launch IE. Tools->Options-> Security
2. Choose Intranet / Internet whichever is applicable, and click on Custom Level. Ensure that "Download unsigned ActiveX controls" is either set to Enable or Prompt. Refer screen shot.



3. If enabled, a CAB file will be downloaded and following listed files will be copied into the client machine and registered automatically.
  - i. Scardi\_Admin.dll
  - ii. Scardi\_Admin.INF
  - iii. SCardLibRamcoAdmin.dll
  - iv. SCardLibRamcoUser.dll
4. If this option is disabled control will not be downloaded to the client and hence the web page will throw error like **“Cannot create ActiveX object”**.
5. Ensure that “Initialize and Script ActiveX control not marked, as safe” option is either set to enable or prompt. Refer screen shot.

## 5. UNINSTALLING SMART CARD INTERFACE CLIENT COMPONENT INSTALLATION

### **From E-signature User client**

From Control Panel, go to "Add/Remove Programs" and then remove "Smart Card – Change PIN".

### **From Smart Card Interface Administrator client**

1. Unregister SCardLibRamcoAdmin.dll. This DLL will be available on the machines from where card issue and re-issue is planned.
2. From Control Panel, go to Add/Remove Programs and then remove Smart card – Change PIN.

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