CardExchange® 9 SBS Installation Manual

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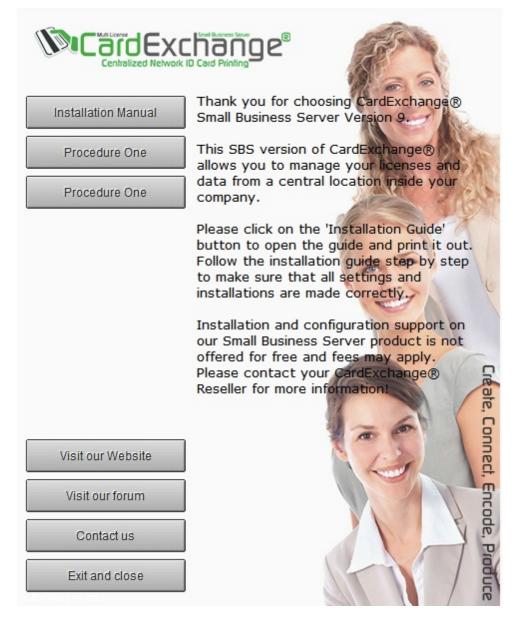
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1 Introduction

Welcome and thank you purchasing our CardExchange® Small Business Server product.

You have received a CD that contains all the applications and installers that are needed to make this a successful installation. Therefore we created a Auto Play menu that will lead you to all the different installation and configuration processes, step by step. After inserting the CD, the main menu will start as shown below:



If this menu does not start automatically, please browse to the CD content and execute the autorun.exe application.

In this menu you can open this manual, start with the procedures, visit our website, our forum, and contact us.

2 Getting Started

As with any installation, everything starts with a good preparation so please everything carefully to ensure you are successful installing CardExchange® Small Business Server.

This manual is created to explain in detail the installation and configuration and it is very important that, before starting, you are a true administrator that has all the rights to do the installation and configurations. Be aware, if you are a local Administrator and you are installing this product on a computer or server that is inside you network domain does not guarantee that you have all the privileges and rights to make installations on domain servers.

Although this manual is very detailed, installing a CardExchange® Small Business Server requires more advanced skills then a standard CardExchange® desktop installation.

Installing and configuring CardExchange® Small Business Server products requires the installation of the license manager, activating and installing of the license(s), configuring the data folder location, installing the CardExchange® client application on the desktop, and the client license retrieval location. Therefore we have split the whole process into two (2) procedures; installation and configuration of the license manager and the installation and configuration of the CardExchange® client application.

Make sure that you are aware of all the technical specifications that are required for making a successful installation of our CardExchange® Small Business Server product. If you have any doubt or are unsure of you are meeting the technical requirements, technical knowledge level, etc. please contact your CardExchange® Reseller as they can offer you services for installation and configuration. You can also contact our support department at support@cardexchangesolutions.com. Be aware that installation and configuration support is not offered as a free service and fees may apply!

Please check the Requirements section to make sure everything is set to start...

2.1 Requirements

For installing CardExchange® Small Business Server on your server, the following operating systems are supported:

- Windows XP, Vista, Windows 7, Windows 8
- Windows Server 2003, 2005, 2008 R2, 2012
- Citrix and Terminal Systems
- Virtual Machines

All operating systems are supported as 32 and 64 bit systems and need to run the latest available service packs of Microsoft.

For running CardExchange® Small Business Server on servers or workstations we advice the following minimum specifications:

- 100 MB free disk space for Workstations, 300 MB running on servers
- Intel Core i3 or comparable
- 2048 MB internal memory
- Internet Explorer 6 or higher
- Microsoft .NET Framework 3.5

Specific Firewall information:

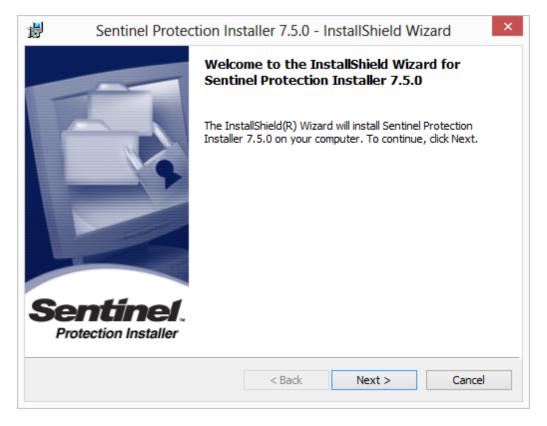
Firewall issues are usually solved by adding the Sentinel RMS License Manager to your the firewall exceptions. The provider of the licensing system SafeNet states that:

"The Sentinel RMS License Manager only uses the UDP port 5093 at Server end by default. And at client end the ports are used dynamically and controlled by Operating System i.e. for communication only UDP port 5093 is used at server end and at client end it is used dynamically on the basis of available port."

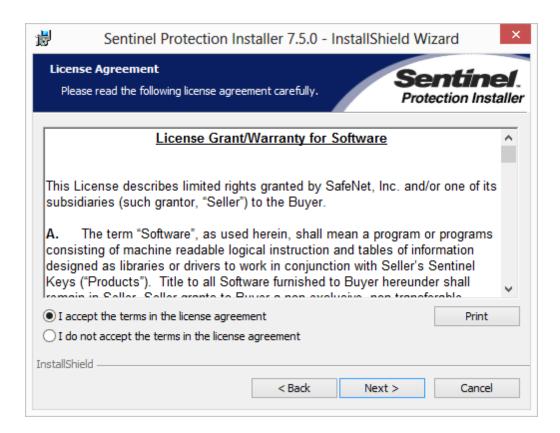
2.2 Using License Dongle

When you have received a dongle with your license, it is important that the driver of this dongle is installed first before connecting this dongle to your system and activating the license.

In the main page of the Auto Play Menu you can find the menu option Drivers. When you select this menu item you will enter the driver page. Now click on the USB Dongle button to execute the installer:



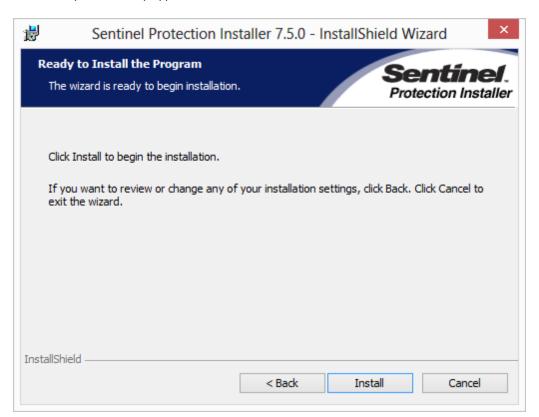
When the installer is started, click on Next to proceed:



If you agree to the terms of the license agreement, please do select the corresponding option and proceed with Next. If you decline these terms, when selecting the installation will stop and the wizard will be closed after clicking on Finish:



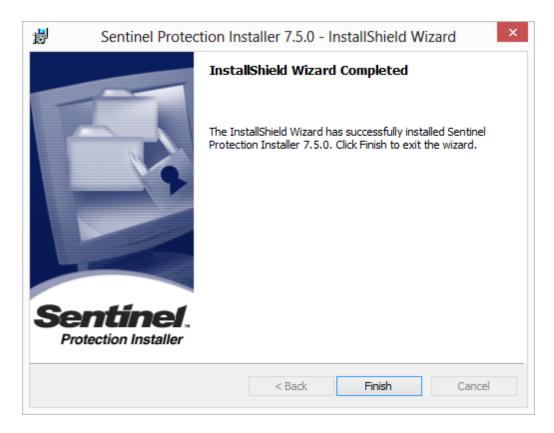
Select Complete as Setup Type and click on Next to Proceed:



Now you are ready to install the dongle driver on your system. Click Install to proceed:



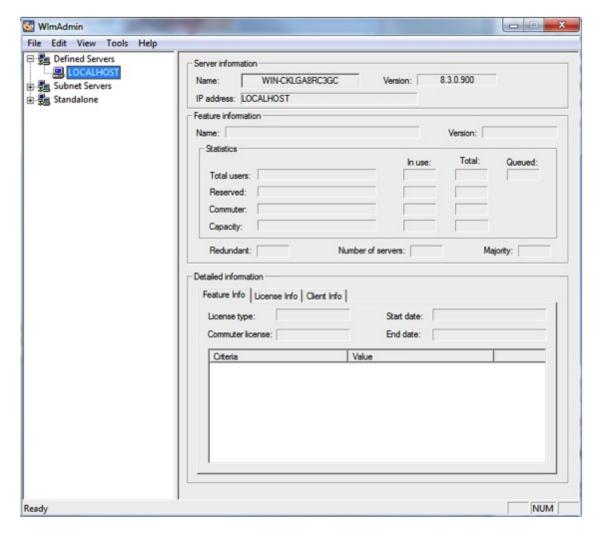
To allow access to the server, the firewall has to be modified to allow this. You can always do this manual later, select No to do so. We advice to let the installer do the modifications to the firewall as that guarantees the correct working of the dongle with the server. Click Yes to proceed:



When the installation is successful you can click on Finish to close the installation wizard.

Now you can insert the dongle into a free USB port of your system and it will automatically install the driver.

2.3 Procedure One

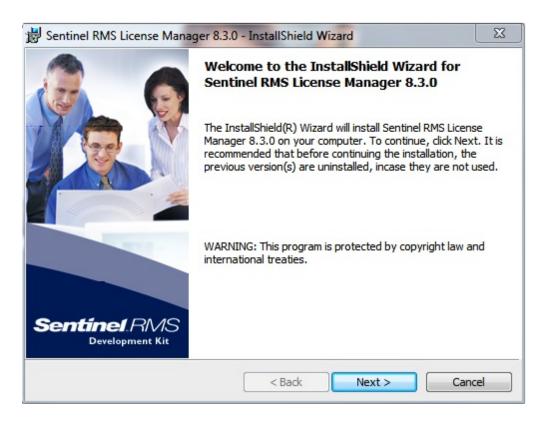


In Procedure One we are going to explain how to install the license manager, activate your license, and configure the license manager. Follow the steps one by one to guarentee a successful installation and configuration. Each step will explain in detail what to do, install or configure:

- Step 1 Install License Manager
- Step 2 License Manager Tools
- Step 3 License File Location
- Step 4 Activating SBS License
- Step 5 Configuring License Manager

2.3.1 Install License Manager

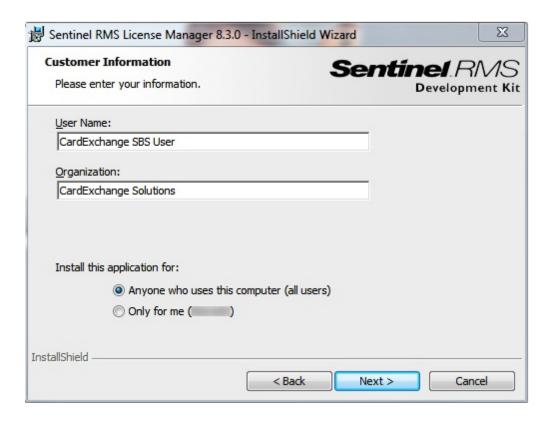
First we need to install the license manager on the system to do so, click on the Install License Manager button to start the installation:



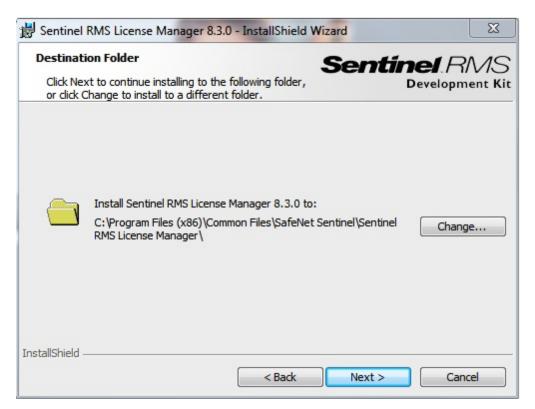
When the installation is started, click Next to proceed:



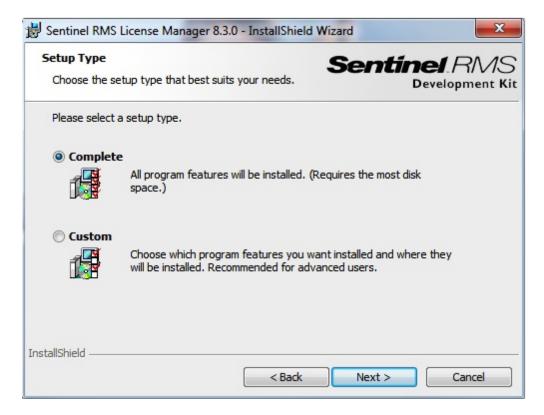
If you agree to the terms of this agreement, select accordingly and proceed by clicking Next:



Enter the user and company information. We advice to install this application so that anyone can use it:



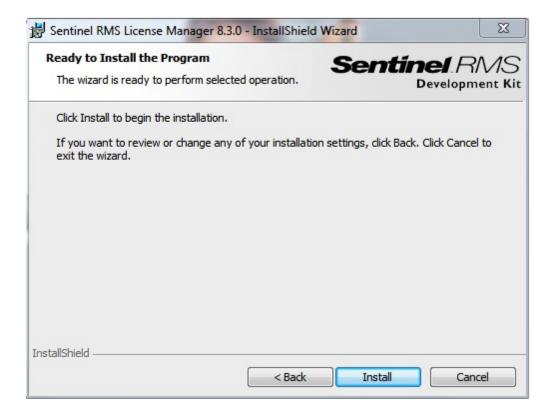
If applicable, change the destination folder of the application by clicking the Change button. However, we do advice to install it into the default installation folder:



Choose Complete installation and proceed with Next:



License assignment by the license manager goes via TCP protocol over your network. It is important that all the clients can freely communicate with the license manager therefore the license manager needs to address some ports for it's communications. These ports are described and explained in the Requirements section of this manual. When installing, per default the installer can make the firewall modifications for your, as we advice to have the installer do so. If you want to do this manually, please uncheck the check box before proceeding:

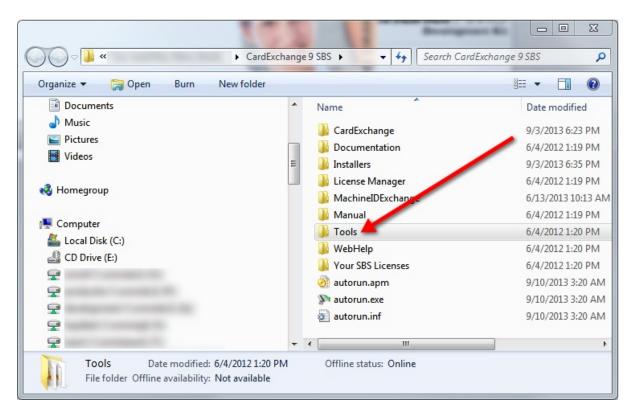


Now you are ready to install the license manager on your system and you can click Install to start the installation. Click on Finish when the installation is done to close the installer.

2.3.2 License Manager Tools

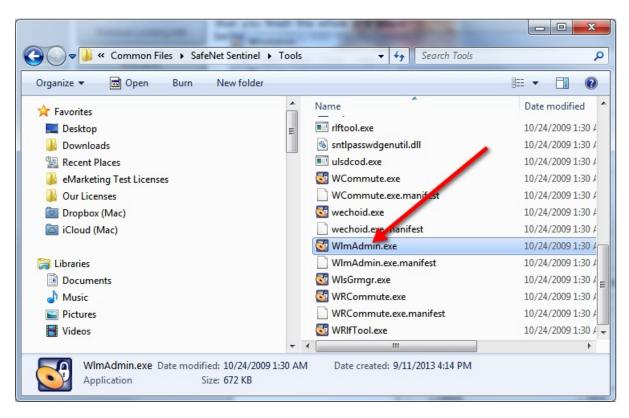
The license manager we just installed is running as a service on your system and has no interface of it's own. As we need to be able to install the licenses and manager the license manager, we need to use additional tools for configuring the license manager. These so called tools can be simply copied to a location on the server or workstation the license manager is running on.

To do so just simple click on the Browse CD button and make a copy of the tools folder on the CD:

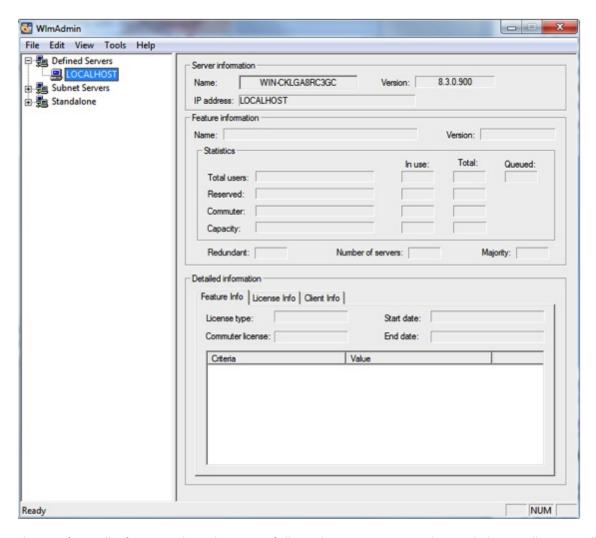


and copy this folder to a location on your server or workstation, for example to the folder C:\Program Files (x86) \Common Files\SafeNet Sentinel\Tools

Now browse the Tools folder and create a shortcut for the WlmAdmin.exe application as shown below, to any location that is convenient for you:



When you execute the WlmAdmin.exe application, an interface for the license manager will start:

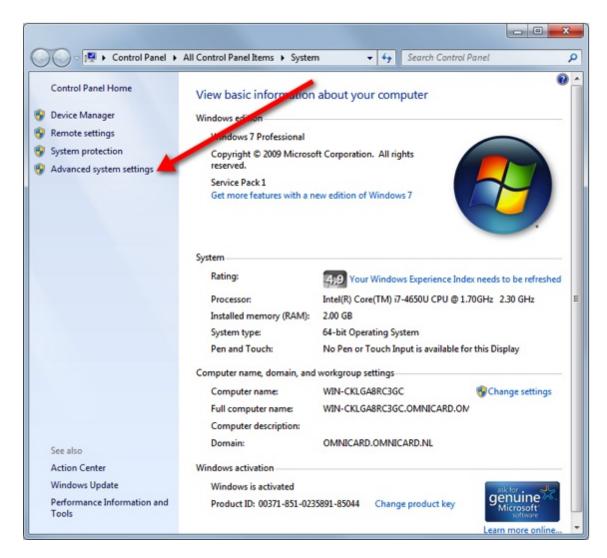


This interface will inform you about the status of all your licenses, servers, and is needed to install your Small Business Server licenses as explained in later steps of this help file.

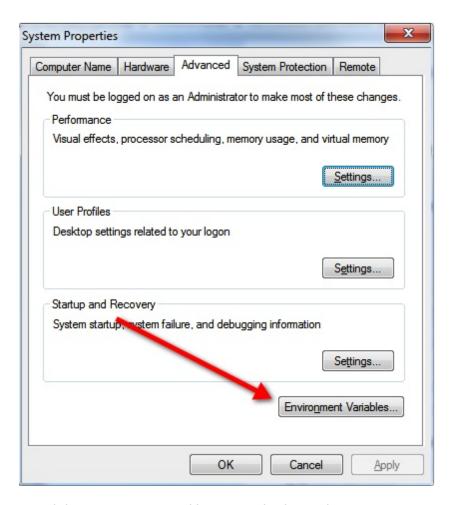
2.3.3 License File Location

The Small Business Server license manager stores it's license codes in a plain text file. This file can be located anywhere on the system but the Windows user that manages the license manager service process needs to have read and write access to this location. To make sure this is guaranteed, we need to create a specific Environment Variable to set the location.

To create this variable right mouse click on My Computer and select Properties. If you are running Windows Vista, 7, or 8, click on Properties and then select Advanced System Settings as shown below:



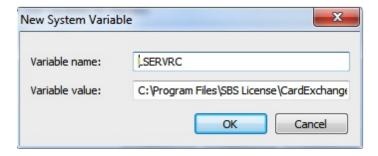
This will open System Properties window with the Advanced tab selected.



Now click on Environment Variables to open the this window:



And click on New to create a new variable:



Enter LSERVRC as the variable name and enter the complete path of where the license file will be located into the value field. Please note that the directory of the path should exist, while the file itself should not exist. The name of the file is arbitrary, for example, **CardExchange.Licenses**

Click on OK to store the new created Environment Variable.

2.3.4 Activating SBS License

Just like with the standard CardExchange® license, the license manager needs to activated to the Machine ID of the server or computer too. The only difference is that the Small Business Server License cannot be activated with a CardExchange® client, but has to be done online via our website.

For activating the license we need to have the serial number, activation code, and the machine ID. The serial number and activation code are printed on the DVD box or you have received them digital via email. The machine ID needs to retrieved with a simple application that is available on this CD. It is important that you run this application on the server or computer that is going to contain the license manager.

Now click on the Retrieve Machine ID button to start the MachineExchange® application:



If you are using a external license dongle, the machine ID will start with 80. For using an external license dongle, please install the dongle driver first. For instructions, please see the <u>Using License Dongle</u> section of this manual.

If you have retrieved the Machine ID and write it down. Now open the activation page on our website by clicking on the url below or copy and paste it into your browser:

http://www.cardexchangesolutions.com/id-card-software-support/license-activation

Now enter all the information like serial number, activation code, and the machine ID into the fields like shown below:

Activate a license

Serial number:	38384	
Activation code:	01156-A7581-74234-0FC86-A3616-F51FD-47F9	
Machine ID:	10-454CC ×	

When pressing the Activate button, the license will be activated by the License Server. This process can take up to 45 seconds. Please do not close this page during the activation of the license. When the activation succeeds, you will be prompted to download the file containing the activated license.

Activate

And click on Activate to start the activation process of the license. Activating a SBS license can take up to 60 seconds. do not close the web page during the activation!

When the license has been activated you will be prompted to download the activated license file with the extension *.LIC. This file needs to be saved to a location that can be accessed by the computer that is running

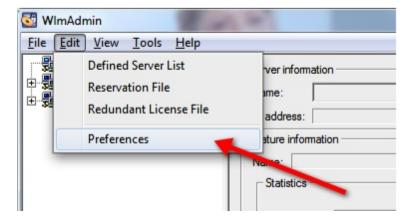
the license manager

Version: 9 Serial number: 38384 Activation code: 01156-A7581-74234-0FC86-A3616-F51FD-47F9

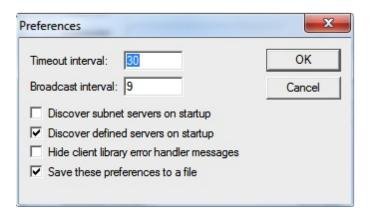
2.3.5 Configuring License Manager

When the license has been activated, you can now configure the License Manager. To do so you have to start the WlmAdmin.exe application as explained in the <u>License Manager Tools</u> section of this manual.

When the application is started we first need to set the Preferences of the license manager. To do so, select Preferences from the Edit menu as shown below:

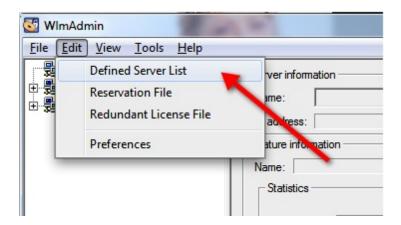


This will open the Preferences window:

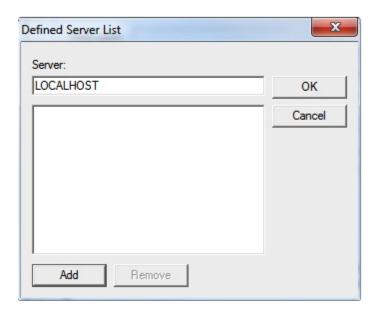


Make sure that you set all the options as shown in the screenshot; Check "Discover defined servers on startup" and "Save these preferences to a file". Click on OK to set the preferences and close the Preferences window.

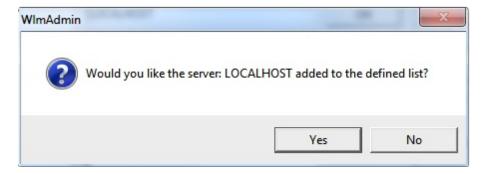
Now we need to define the server that is going to hold the licenses. To do so, select Defined Server List from the Edit menu as shown below:



This will open the Defined Server List window:

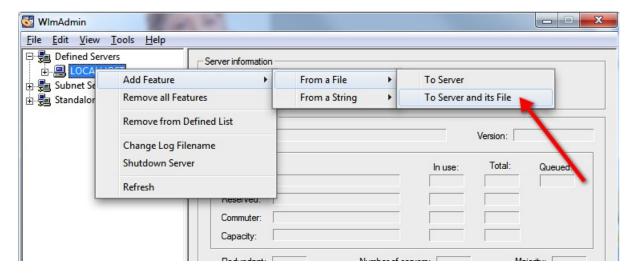


Now enter "LOCALHOST" and click on Add to add the server name and OK to close the Defined Server List window. You will be asked to add the server to the defined list:

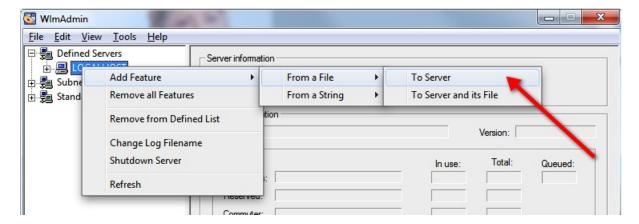


Click Yes to confirm.

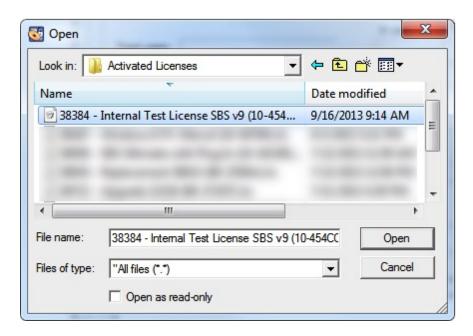
Now we need to add the license file to the license manager. To do so, right click on the LOCALHOST node in the Defined Servers tree and select **Add Feature -> From File -> To Server and its File** as shown below:



If you are using a license dongle you will need to select **To Server** as shown below:



Browse to the location of the license file with the extension LIC, as shown below:

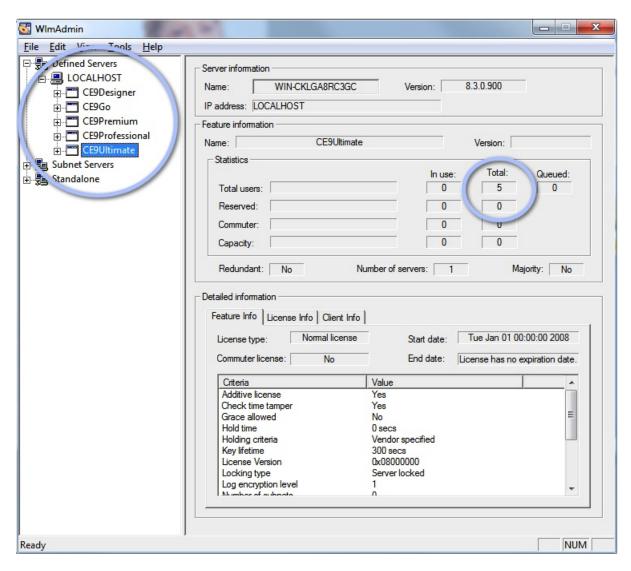


And click on Open. The licenses will now be installed and if the installation succeeds, the window below will be shown:



This message box indicates the amount of licenses that it was able to read from the license file and the amount of licenses that was successfully installed. Of course this number is depending on the amount client licenses purchased. Click on OK to confirm the installation.

The LOCALHOST node should now have one sub node for each license code as shown below:



By selecting the license, you can see in the license manager GUI how many licenses are available and how many licenses are in use.

Don't forget, the License Manager is a Windows service and this GUI does not to be started to have the system working. After you are done with the configuration, you can close this window.

This concludes the installation and configuration of the License Manager and Procedure One. Now we start installing the CardExchange® clients on the Desktop computers or on the server. This process is explained in Procedure Two!

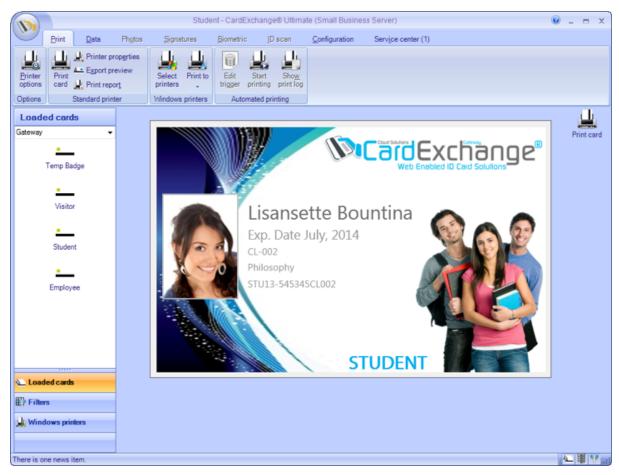
2.4 Procedure Two



In this Procedure Two we are going to install the CardExchange® client(s), configure the license, and configuring the shared Data folder:

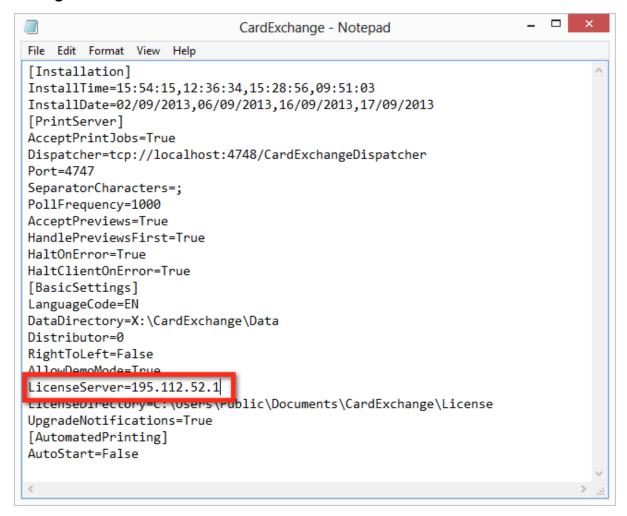
- Step 1 Install CardExchange® Client
- Step 2 Configure Client License
- Step 3 Configure Shared Data Folder

2.4.1 Install CardExchange® Client



We first need to install the CardExchange® Client on the computers which are going to be used for producing ID cards. This process is explained in the Quick Install Manual and is available online by CLICKING HERE!

2.4.2 Configure Client License



After you have installed the client on your system(s), each client needs to be configured to get access to the license server. The location of the license manager is set in the CardExchange® Configuration file. This CardExchange.ini file is located in the Program Files folder on your system. You can open and edit this file using Notepad.

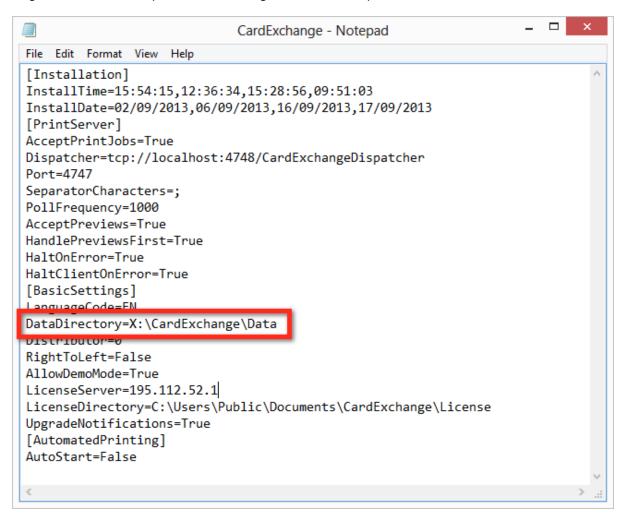
The location of the license server is set in the section [**BasicSettings**] as named entry **LicenseServer**. by default this entry is set to "no-net" and CardExchange® will use the LicenseDirectory during the start up. Now replace the "no-net" by the name or the IP address of the server or computer that is running the license server, see the example in the above screenshot.

Now save the configuration file and start CardExchange®. When CardExchange® is starting, it will request a license from the license manager. If they are available, it will start directly if all licenses are in use it will inform the user that all licenses are in use. As soon as another client is closed, the license will become available again.

2.4.3 Configure Shared Data Folder

Unlike the regular CardExchange® editions, the Small Business Server allows multiple CardExchange® installations to share the same data folder, which in that case will be located on a network drive. Therefore all clients needs to point to the same Data folder location. This location of the Data folder needs to be adapted in the configuration file of CardExchange®. Just like we did when configuring the Client License, browse to the

Program Files folder and open the CardExchange.ini file with Notepad:



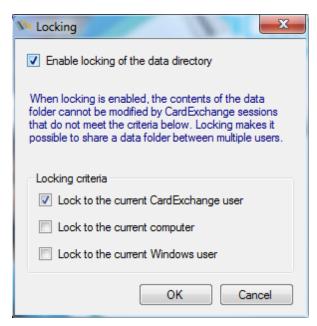
The location of the Data folder is also available under the [**BasicSettings**]. Change the location to the location of the central Data folder, as shown in the above screenshot, and save and close the configuration file.

When the data folder is shared between multiple sessions, CardExchange® makes sure that only one session gets write access to the data folder. All other sessions will run in read-only mode, which means that any changes to the configuration are not stored and that the Configuration tab in the main window will be hidden altogether.

By default, CardExchange® grants write access to the first session that starts up and denies it to any subsequent session. This behavior can changed by clicking Share data folders in the Configuration tab.



Click on the Data folder Sharing button to open the Locking window:



When the Locking window is shown, you can select Enable locking of the data directory. When selected, you are offered a choice of three criteria's;

- Lock to the current CardExchange® user If you have setup user authorizations, you can use the actual
 logged in user to lock the data folder to. This is a good choice as it gives you the option to access and
 configure the data folder from any client location by simply logging in as that user. How to configure
 and setup user authorizations is explained in the online CardExchange® Help File and can be accessed
 by CLICKING HERE!
- Lock to the current computer This choice will allow only the selected computer to make changes independent to which user is logged in.
- Lock to the current Windows user This option is basically the same as the first option. It can be more hassle as you will have to log off in Windows and log in with your account again.

You can also make a combination of the available locking criteria for example, the data folder can only be edit by the logged user and only on one specific computer.

3 Support



CardExchange® Solution partners and distributors are your first point of contact if it comes to support for the Small Business Server edition. Please be aware that Small Business Server editions installations and configurations can be complex and therefore additional fees may apply. Please contact your CardExchange® Small Business Server reseller for more information or contact CardExchange® Solutions at Support@CardExchangeSolutions.com. For more support tools can be found on our website bly CLICKING HEREI.

Thank you for using our CardExchange® Small Business Server! We appreciate your business and trust.