

Security Client — Symbian

Reference Guide



imagination at work

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FCC Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Introduction

The Security Client — Symbian software is installed on a Sony Ericsson P800, P900, or P910 cellular phone. When used with a CommerceGuard™ Portable Reader Unit, it can configure, manage, and inspect Container Security Devices (CSDs).



The handheld reader unit is plugged into the cell phone. It is then capable of communicating wirelessly with the CSDs.

System Overview

The Security Client for Windows software is used to manage Container Security Devices (CSDs). A CSD is placed on the right door frame inside a shipping container, the container is stuffed and the container door closed. Using the Security Client software either with a handheld reader or on a computer attached to a fixed reader, the CSD is armed and the serial number of the container and a load ID are programmed into the CSD. The container is then shipped out. When the container arrives at its destination the Security Client software shows if the container has been tampered with. The CSD can then be disarmed and the container door opened.

Installing PC Suite Software

You will need to dock your phone to a PC for a number of reasons. In order to dock your phone, first install the Sony Ericsson software that comes with the reader.



The PC Suite software can be installed on Windows ME, 2000 and XP.

Reasons for docking your handheld reader:

- You may have to download keys (in order to arm containers) over the Internet, if there is no GPRS coverage over the public wireless network.
 - You may need to update the CommerceGuard software.
 - You may want to upload CSD logs to the PC (you are able to check CSD logs and save them to phone memory).
1. When inserting the CD in the PC, a start menu is automatically shown.

2. Select language and then start the PC Suite Setup.
3. Follow the instructions in the installation wizard.
4. If the start menu is not automatically shown, use the 'Run' command in the 'Windows Start' menu to start 'Start.exe' from your CD drive.
5. By default the 'PC Suite' is accessed from:
6. Start menu >Programs > Sony Ericsson > P910 (or P800 or P900).
7. The Setup application can also be used later to add or delete components.

Upgrading Security Client — Symbian Software

Remove the reader module and dock the phone in the cradle:

1. Verify communication between the PC and the phone (the phone icon should appear in the task bar in the lower right corner on your PC screen).
2. Double-click the latest 'CG Security Client' file located on your computer to automatically start the installation. You may have received the update via e-mail or some other media.
3. When the 'Install Software' dialog opens, click Yes.
4. When the 'Installation security warning' dialog opens, click 'Install anyway'.
5. When the 'About to install application' dialog box opens, click Next.
6. When the 'Select language' dialog box opens, select English (U.K.) from the list, and click Next.
7. When the 'Install File' dialog box opens, click Finish.
8. Upgrade is complete.

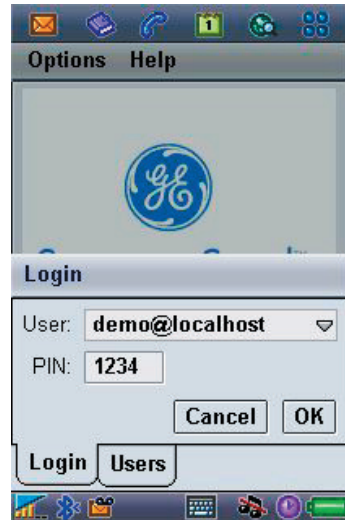
Logging into the Software

When a user logs into the Security Client software, their User name and PIN are validated at the CommerceGuard network. The first time a user logs in to the Security Client software an Internet connection is required to authorize the user and PIN. The Internet connection is obtained either by having a GPRS subscription on the phone or by having the phone connected to an Internet enabled PC via the cradle. Once a user has successfully logged in, an Internet connection is not required at subsequent logins.

To login to the Security Client — Symbian software:



1. Select 'CG Security Client' from the list of software on the phone to open the CommerceGuard Security Client.



2. From the 'CommerceGuard Security client' window tap the screen to log in.
3. Enter your User ID and your PIN code (provided to you by GE).

The first time you login with your User ID, click the Users tab to add your User ID to the drop-down list of User IDs.

The software can also run in Demo mode by entering "demo@localhost" as the User ID and "1234" as the PIN.

Note: If you experience difficulties in "writing" on the touch screen, try the keyboard emulator

4. Tap OK.
5. When your user ID and password are authenticated; the 'CommerceGuard Security client' main window opens.

Plug In Reader and Verify Communication

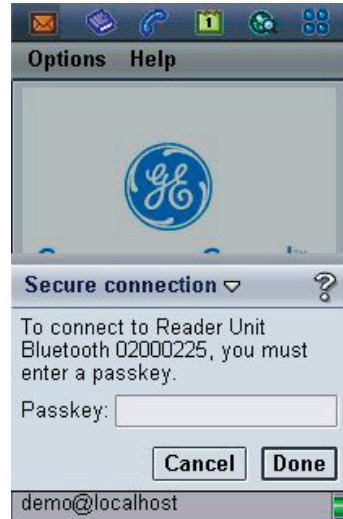
Before the phone can interact with CSDs, you must connect the Portable Reader Unit to the phone.

To connect the reader:

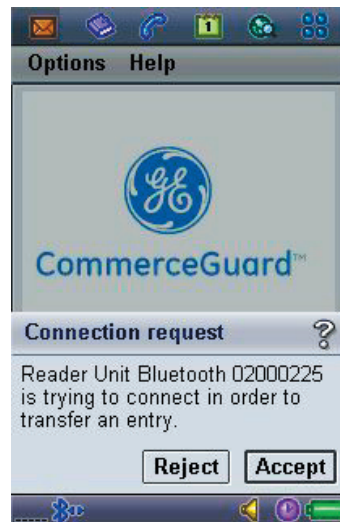
1. Login to the Security Client software.
2. Attach the Portable Reader Unit to the phone.



3. Wait until the 'Secure connection' dialog appears, enter your Passkey and tap Done.



4. Once the Bluetooth communication is activated on the cell phone (look for the Bluetooth icon in the lower left corner) a 'Connection request' dialog appears. Tap



the Accept button and the main window opens.

Note: If this request appears again, tap Accept again.

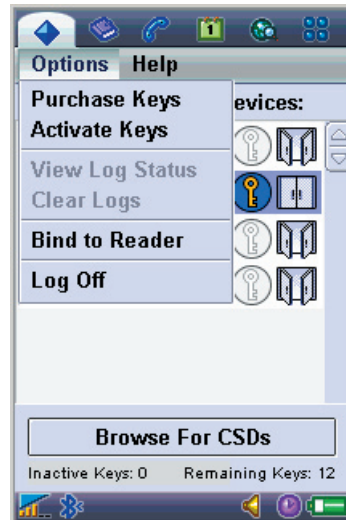
One outgoing arrow on the Bluetooth icon  indicates that the cell phone is trying to talk with the reader module. Two arrows (as shown in icon above) indicate phone/reader interaction – which is the final OK!

Binding the Reader to the Phone

A handheld reader can be bound to a phone to bypass the “Secure connection” and “Connection request” dialog boxes each time the reader is attached to the phone.

To bind the reader to a phone:

1. Attach the reader to the phone
2. Verify communication between the phone and reader.
3. Press Browse For CSDs button ten (10) times.
4. Select Bind to Reader from the Options drop-down menu.
5. Wait at least a few seconds before performing any functions.



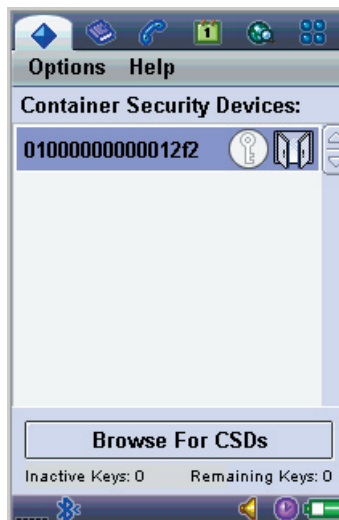
Viewing Status of CSDs

With the handheld reader attached the phone displays the status of all CSDs within range.

From the main screen tap Browse For CSDs.



The reader automatically checks for active CSDs within range and lists them in the main window. This procedure takes a few seconds, and each time you tap the Browse For CSDs button the list is refreshed.



Each CSD has a unique ID programmed into the CSD. The CSD ID number is also located on the CSD serial number label. CSD IDs are displayed on screen as the one shown above: 01000000000012f2.

The arming status and door status is displayed for each CSD.



Container is tampered



Container is armed



Container is disarmed



Container door is open



Container door is closed

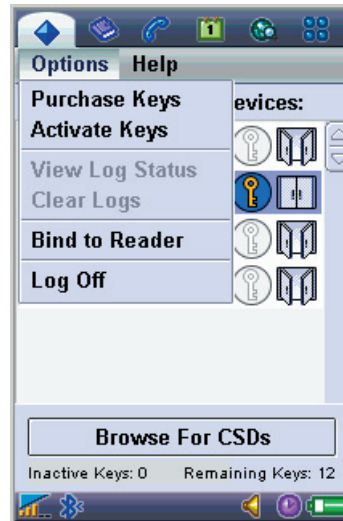
The CSD shown above is disarmed and the container door is open.

Downloading/Purchasing Encrypted Keys

An Arming key is required to arm a CSD. Arming keys are purchased using the Purchase Keys menu option.

Each time a CSD is armed an arming key is used. Once a CSD is armed the arming key is used and cannot be used again.

If there are no arming keys left, the user must purchase arming keys before arming a CSD. Arming keys can only be used by the user that purchased them on the platform where they were purchased (i.e., a user that purchases arming keys using the Security Client for Symbian can't use the keys on the Security Client for Windows).



2. Select 'Purchase Keys' from the Options drop-down menu. The Purchase Keys window opens.

Downloading/Purchasing Keys

There are two (2) ways of downloading keys:

- On-line: when the phone has a GPRS subscription.
- Semi-offline: when the phone is connected to a computer with Internet access via the cradle.

Note: For demonstration (using demo@localhost), there is no need to download keys in advance. A "dummy" key is automatically generated during the arming process.



1. From the main screen select the Options drop-down menu.
3. Select the quantity of Keys from the amount drop-down menu (1, 10, or 20). The keys will remain usable for your login even if you turn off the cell phone.
4. Tap 'Purchase'.

Installing the CSD on the Container

When a CSD is first placed on a container, the Container ID can be associated with the CSD using the Install option in the software.

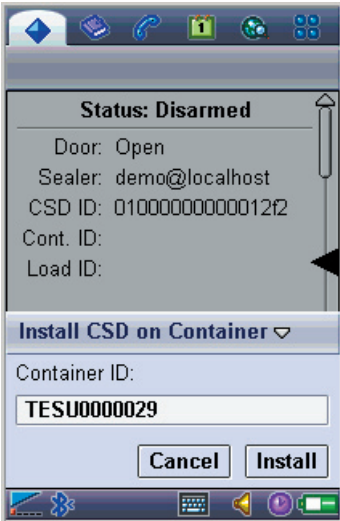
If the Container ID is not entered using the Install process, it will be required to be entered during the arming process.

To associate the Container ID with the CSD once the CSD is in place:

- 1. Select the CSD



- 2. Tap Install.



- 3. Enter the Container ID and click Install.



Once the Container ID is associated with the CSD it is displayed on the CSD list instead of the CSD serial number.

Arming the CSD

Before arming a CSD, verify the container is stuffed and the doors are closed.

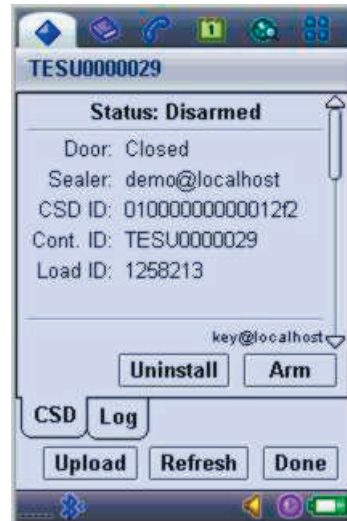
Click Browse For CSDs and check the symbols associated with the container. This container indicates the CSD is not armed and the door is closed.



Verify there are arming keys available by checking the Key status at the bottom of the screen. This shows there are no (0) inactive CSDs (i.e., armed but not activated), and one (1) Key remaining, i.e. not consumed. If there are no Keys remaining, use the Purchase Keys option from the drop-down menu to purchase arming keys.

To arm a CSD:

1. Tap the CSD from the list.

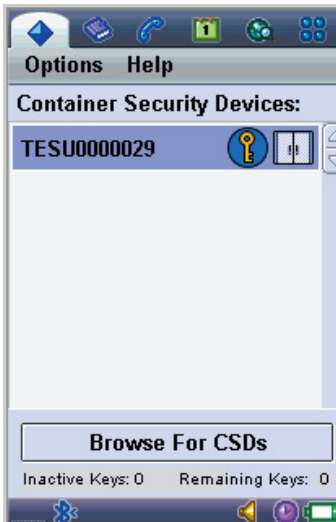


2. Tap the 'Arm' button.



3. Enter the Load ID.
4. Enter the Container ID if it was not entered using the Install option, or click the Edit Cont ID button to edit the Container ID.
5. Tap the Arm button.

6. Verify that the status indicates Armed.
7. Tap OK.
8. Tap done. If the phone has a GPRS connection, the arming information is sent to the network and the arming key is activated.
9. In the main window tap 'Browse For CSDs' to refresh the list. The arming and door status icons now indicate that the container is armed and door is closed.



Activating Consumed Keys

After a CSD is armed the arming information needs to be sent to the CommerceGuard network. If the phone has a GPRS connection, the information is sent automatically. If the phone does not have a GPRS connection or is interrupted while sending arming information, the arming information is saved on the phone so it can be sent later.

If the arming information has not been sent, the key status in the lower left corner indicates there is an inactive key. With an inactive key the CSD is armed but the server does not know the CSD is armed.



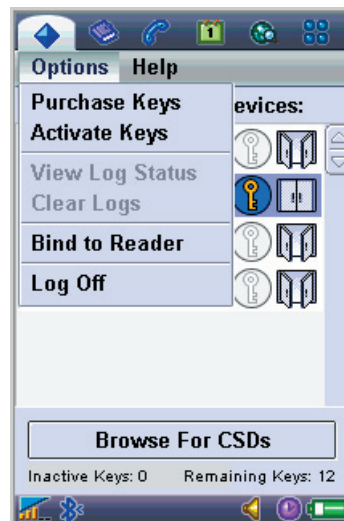
The arming information can be sent up manually using the Activate Keys menu option or, the next time a CSD is armed while online, saved arming information is sent up along with the new arming event.

There are two (2) ways of activating Keys:

- Online: when the phone has a GPRS subscription.
- Semi-offline: when the phone is connected to a computer with Internet access via the docking cradle.

To manually activate keys not automatically sent:

1. Verify you have GPRS coverage or dock the phone to the cradle.
2. Select 'Activate Keys' from the Options drop-down menu.



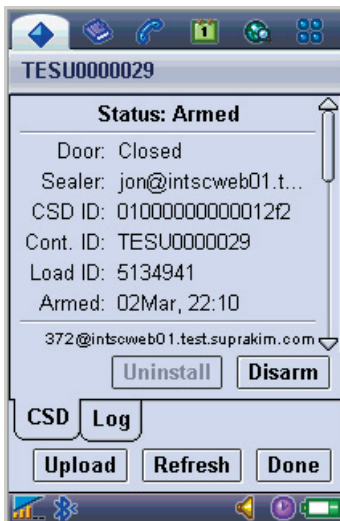
3. Now all armed CSDs are activated and the arming procedure is complete.

Uploading CSD Status

Uploading the status of a CSD requires a GPRS subscription on the phone. When uploading a CSD status the CSD arming information and Container ID is uploaded to the server with a timestamp. This provides a way for viewing the CSD status remotely.

To upload a CSD status:

1. Select Browse For CSDs
2. Select the Container ID
3. Tap the Upload button.



Checking the CSD Data Log

CSD activity is stored in a data log and can be viewed and saved on your computer. This process could come in handy for emailing a CSD data log.

1. Tap Browse For CSD to refresh the container list.
2. Tap the container ID that you want to check. You can see who armed the CSD and when it was armed.
3. Tap the Log button and then the Refresh button to view the CSD event history.



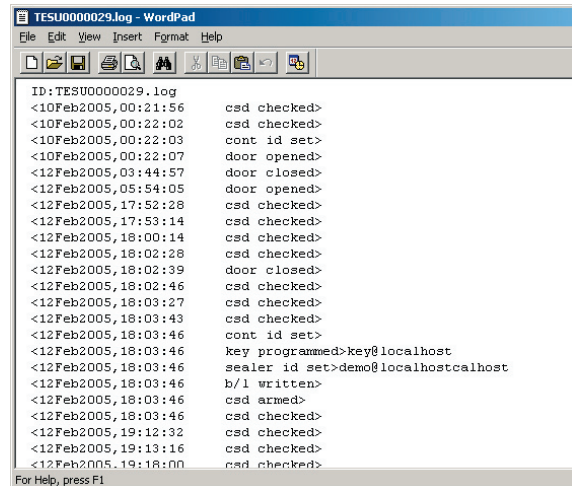
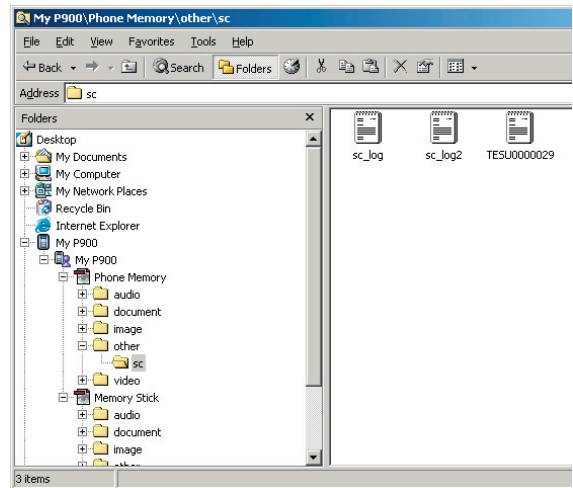
4. If you would like to save the log file, tap the Save button. The entire log file will be saved to phone memory.
5. Dock the phone in the cradle to transfer the log file to your computer.
6. To access the log file in Windows Explorer

(PC); dock the phone in the cradle.

Note: The log file is named after the CSD ID or the container ID if one is assigned.

7. From Windows Explorer; "Drag and drop" the file onto the Desktop.
8. Open the file in WordPad.

Note: Do not use Notepad.



Disarming the CSD

When a container with an armed CSD arrives, it should be disarmed before it is opened. The disarming information is automatically uploaded to the server if the phone has a GPRS subscription.

1. Tap Browse For CSDs to refresh the container list.



2. Verify the door and arming status (armed and closed).
3. Select the container ID from list.
4. The arming information is displayed including who armed the container, when it



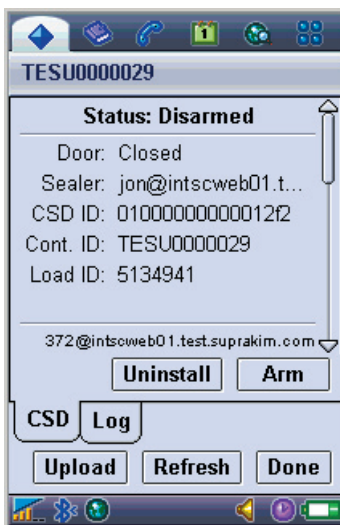
was armed, the CSD number, container ID, and Load ID.

5. Tap the Disarm button.
6. Tap Yes to confirm disarming the CSD.
7. The disarming procedure is now complete.

Removing the CSD

The CommerceGuard system is designed so that once a CSD is placed on a container it remains on the container. However if you need to remove a CSD from a container, use the Uninstall option to disassociate the Container ID from the CSD.

1. In the main window; tap Browse For CSDs to refresh list.
2. Select the container ID .



3. Tap the Uninstall button.
4. Tap the OK button to confirm uninstalling the CSD.
5. Verify that the container ID is replaced by the CSD ID (i.e., 0100000000000nnn).
6. Remove the CSD from the container.

