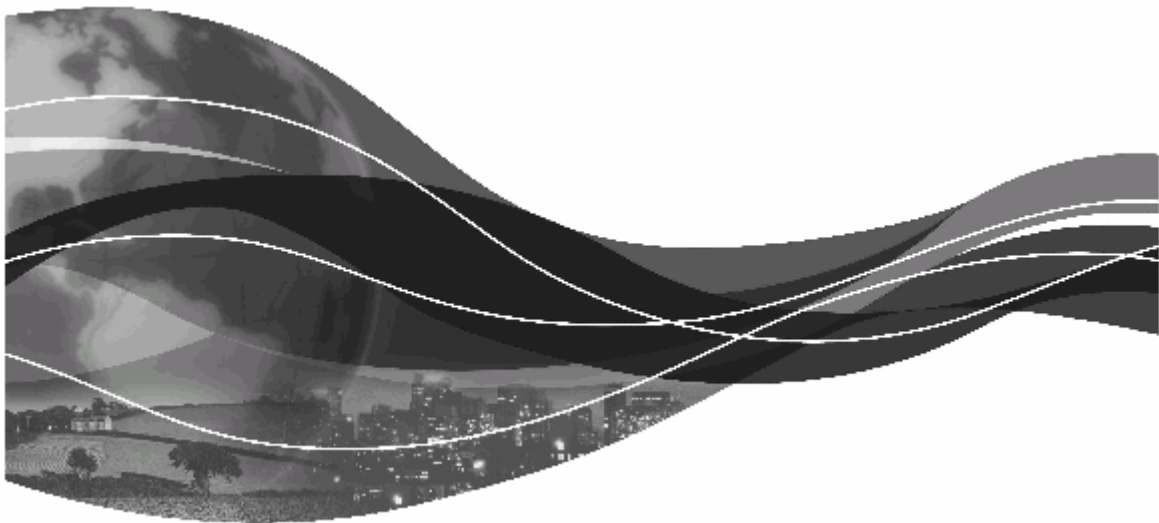




# **Remote Software Download (RSD) Verizon – Store Version**

## **User Guide**



CDMA

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## Software Copyright Notice

The Motorola products described in this manual may include copyrighted Motorola and third party software stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Motorola and third-party software providers certain exclusive rights for copyrighted software, such as the exclusive rights to distribute or reproduce the copyrighted software. Accordingly, any copyrighted software contained in the Motorola products may not be modified, reverse-engineered, distributed, or reproduced in any manner to the extent allowed by law. Furthermore, the purchase of the Motorola products shall not be deemed to grant either directly or by implication, estoppel, or otherwise, any license under the copyrights, patents, or patent applications of Motorola or any third-party software provider, except for the normal, non-exclusive, royalty-free license to use that arises by operation of law in the sale of a product.

## About This Guide

Using this guide and the many suggestions contained in it assures proper installation and operation of the Remote Software Download Tool. Refer any questions about this guide to the nearest Customer Service Manager.

## Audience

This document provides assistance to personnel in testing and programming Motorola phones. Personnel should be familiar with the operation of a personal computer running Microsoft ® programs, and with the operation and use of Motorola phones. Use of this document assures proper operation of Motorola products and equipment.

## Conventions

Special characters and typefaces, listed and described below, are used in this publication to emphasize certain types of information.

- |                 |  |
|-----------------|--|
| <b>Note:</b>    | Emphasizes additional information pertinent to the subject matter.   |
| <b>Caution:</b> | Emphasizes information about actions which may result in equipment damage.   |
| <b>Warning:</b> | Emphasizes information about actions which may result in personal injury.  |
| <b>[Enter]:</b> | Keys to be pressed are represented graphically.<br>For example, instead of "Press the Enter key", you will see "Press: [Enter]". |

The names of icons to be clicked are printed in **boldface type**.  
For example, “click **Open**”.

Menu selections to be clicked are printed in *italic type*.  
For example, “click *File*, then *Open*”.

Information from a screen is shown in text as similar as possible to what appears in the display.  
For example, ALERTS.

Information that you type is shown in text in **boldface type** and as similar as possible to what appears when you type it.

For example, you can insert a pause in the phone number by entering **p** in the number. For example: **555-1212p9999**.

## Revisions

Any changes that occur after manuals are printed are described in Product Manual Revisions (*PMRs*).

# System Requirements

This section describes the equipment needed to install and use the Remote Software Download (RSD), on your computer. Specifications are subject to change.

## Computer Requirements

You can connect the phone to the computer using USB cable as noted in the following requirements:

- **Operating System**
  - Windows 2000 Professional
  - Windows XP SP2
- **CPU Speed**
  - 133 MHz (minimum)
  - Recommended 200 MHz or higher
- **Memory/System RAM**
  - 128 MB for Windows 2000 Professional
  - Recommended 128 MB for all operating systems
- **CD-ROM Drive** - for loading the RSD software
- **Hard Disk Space**

### Note:

*The full RSD application software automatically installs on your computer's C: drive provided it has a minimum of 25 MB of available disk space. RSD requires an additional 250 MB of hard disk space to support flash files. If the hard disk does not have sufficient space, RSD prompts to select an alternate disk for the installation.*

*You must install the RSD software only on one hard disk.*

Recommended 55 MB of available hard disk space

- **Communication Ports**
  - USB cable - one available USB port
- **Display/User Interface**
  - SVGA graphics
  - Mouse or equivalent pointing device

**RSD will be functional only after installing the RSD Firmware Upgrade package**

## Other Hardware Required

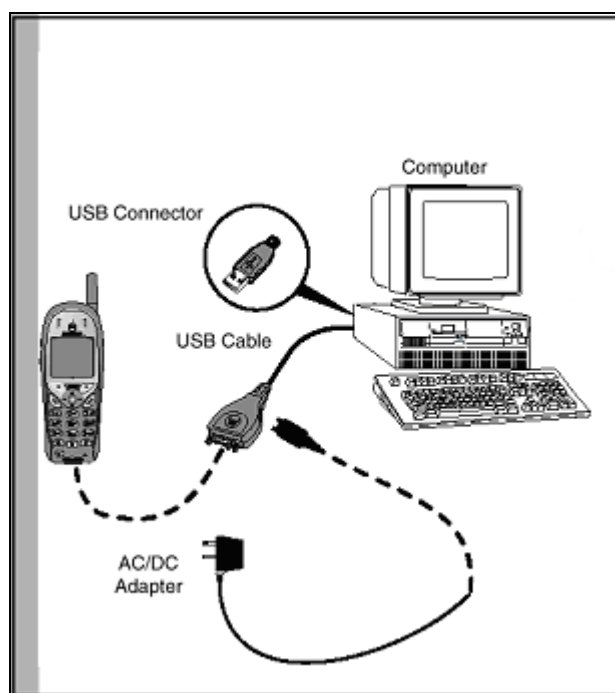
- Phone to PC Connection Cable
- Phone Charger (model number will depend on handset type)
- RSD Application Software
- USB Cable Interface Kit; (see Table Setup-1. Parts List).

**Table Setup - 1. Parts List**

Part	Part Number
USB Cable Interface Kit	SYN0610A
USB Cable	SKN6311B
Handset Charger (can be desktop or travel charger)	Dependent on Handset type

## Connecting the Hardware

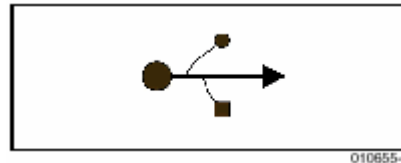
Connect the hardware as shown in Figure Setup-6. Equipment Connection Diagram and described in the following steps.



**Figure 1 Equipment Connection Diagram**

## Using the USB Interface Cable

Figure Setup-7. Standard USB Designator shows the symbol designating a USB connector or port.



**Figure 2 Standard USB Designator**

1. Plug the USB Type A connector end of the cable (look for the above symbol designating USB) into an available USB port on the back of the computer. Make sure the USB symbols match.
2. Plug the other end of the USB cable into the bottom of the phone. Connect the charger 2-pin connector to the USB cable (see Figure Setup-1. Equipment Connection Diagram).

## Installing device driver

If this is the first time you connect the phone to the computer, Windows will detect the new hardware and display the following window:



Figure 3 Installing USB device

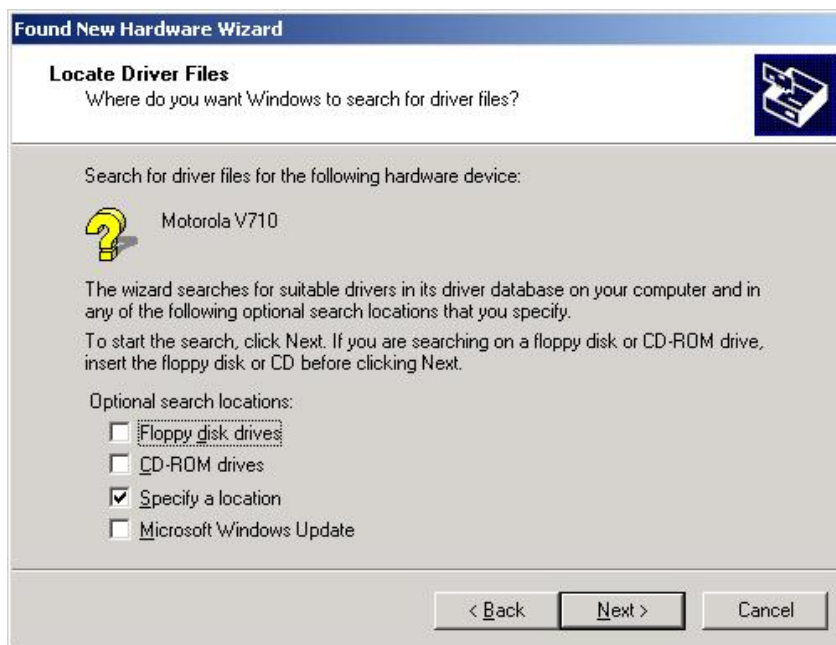
Step 1: Click on the Next button.



Figure 4 Installing USB Device

Step 2: Select the “Search for a suitable driver for my device and click on next.





**Figure 5 Installing USB Device**

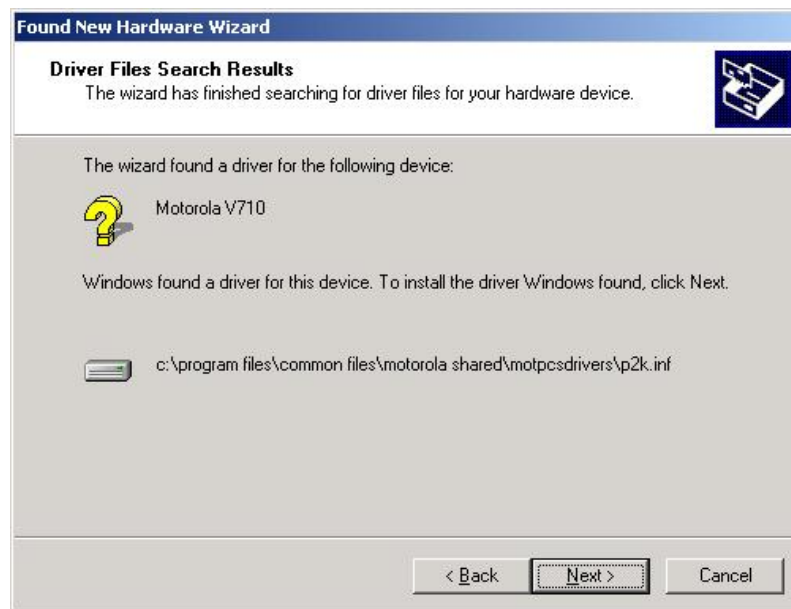
Step 3: Check the Specify a location and click on Next button



**Figure 6 Installing USB Device**

Step 4: Click on the Browser button and select the following driver folder and then click on OK:

**C:\Program Files\Common Files\Motorola Shared\MotPCSDrivers**



**Figure 7 Installing USB Device**

Step 5: Click on Next button.



**Figure 8 Installing USB Device**

Step 6: Click on Finish button.

**Please follow the same instructions to install all other USB interfaces**

## Opening the RSD Program

After you install the software, click **Start**, point to *Phone Flashing Applications*, then *Motorola* and then *RSD Verizon*.

## Using the RSD Phone Programmer

### Starting RSD Phone Programmer

Connect the phone to the computer as follows:

1. Verify that a battery is installed in the phone.
2. Connect a charger to the USB cable.
3. Charge the battery until the phone displays *Charge Complete*.
4. Turn the phone on and wait for the power-on animation to display.
5. Click the RSD Phone Programmer desktop icon, or click **Start**, point to *Programs*, then *Motorola RSD*, and click *Phone Programmer*. RSD displays the following message:

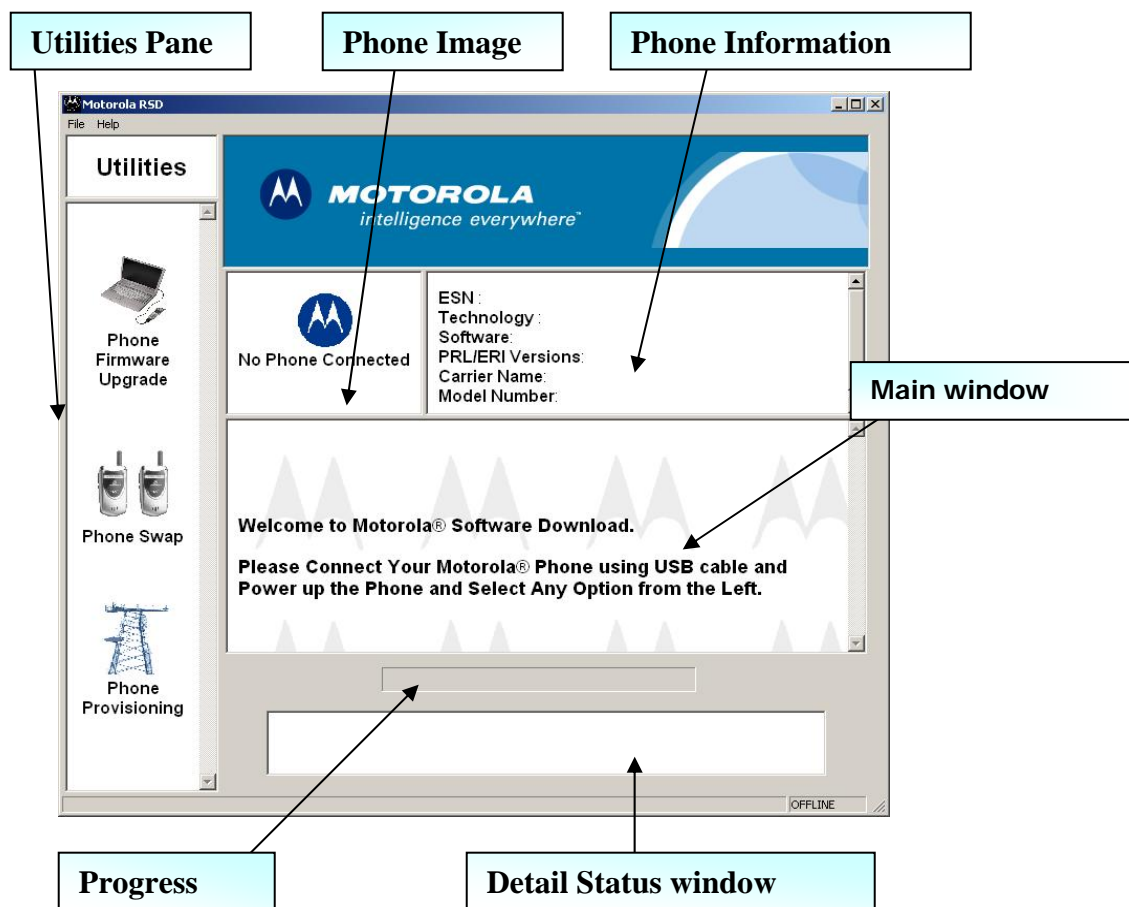
**"Establishing connection with Motorola Phone"**

When RSD locates a connected phone, it displays the phone information and phone image on the application.

## Common Interface

### Without a Connected Phone

When launching the RSD application with no phone connected to the USB cable, RSD will display the following screen:



**Figure 9 Default Presentation of RSD User Interface**

The default content of Utilities Pane shows three different operation icons: Phone Firmware Upgrade, Phone Swap and Phone Provisioning.

The Phone Information window displays following items:

ESN:  
Technology:  
Software:  
PRL Version:  
Carrier Name:  
Model Number:

The Phone Image window displays:

**“No Phone connected”**

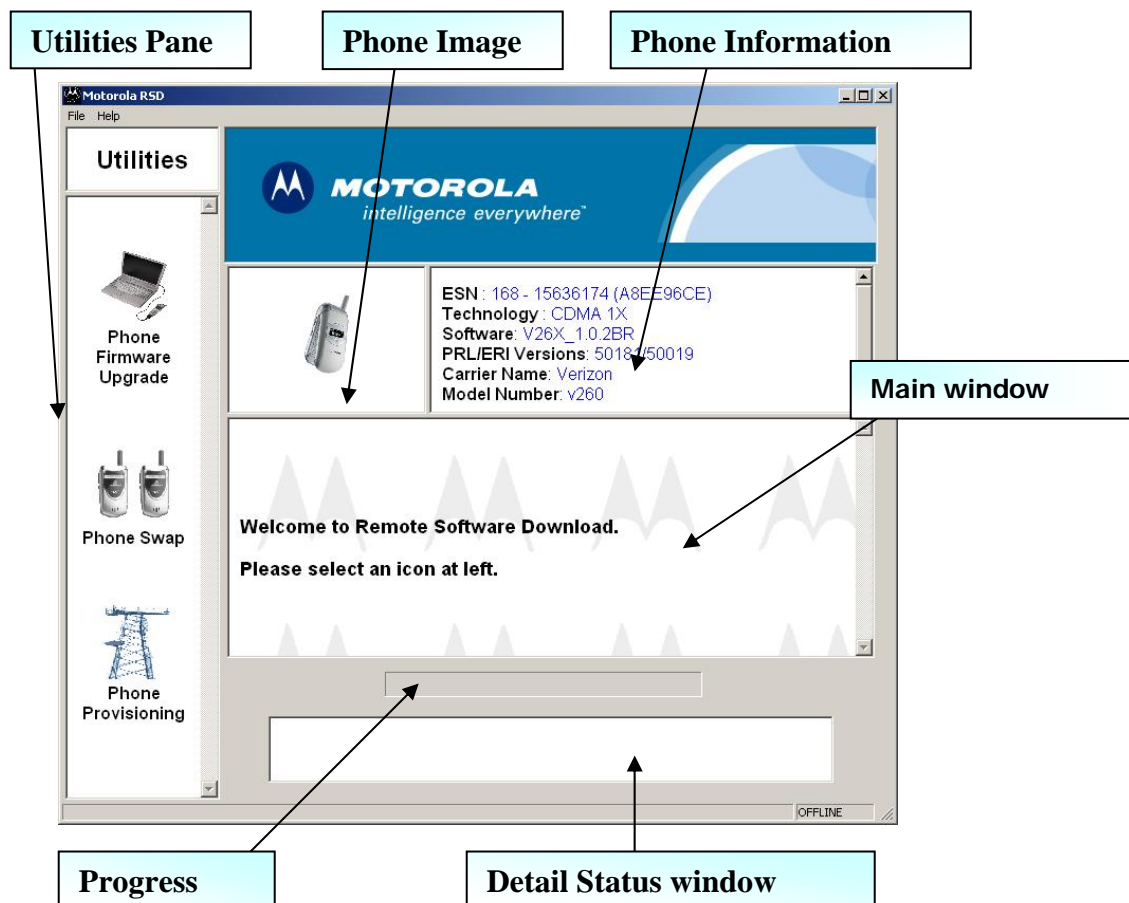
The Main window of the GUI shows the following message:

**“Welcome to Motorola® Software Download.  
Please Connect Your Motorola® Phone using USB Cable and Power up the Phone  
and Select Any Option from the Left.”**

The Detail Status window and Progress Bar should be empty.

## With a Connected Phone

When connecting a phone to the USB cable, the mouse pointer will be replaced with a cell phone like cursor during the detection of the phone. If the phone is fully powered on, upon the detection of the phone, RSD will display Phone Information data in the Phone Information window as seen in the following screen capture.



**Figure 10 Phone Information Display**

The Utilities Pane will display three different operation icons: Phone Firmware Upgrade, Phone Swap, and Phone Provisioning.

The Phone Information window displays data for following items:

ESN:  
Technology:  
Software:  
PRL Version:  
Carrier Name:  
Model Number:

The Phone Image window shows a small image of connected phone

The Main window of the GUI shows the following message:

**“Welcome to Motorola® Software Download.**

**Please Connect Your Motorola® Phone using USB Cable and Power up the Phone and Select Any Option from the Left.”**

The Detail Status window and Progress Bar should be empty.

**Note:**

If the phone is not fully powered on, the Main window will show the following message:

**“Phone is not fully powered up.**

**Please make sure phone has battery and is fully powered up before connect to cable.**

**Please disconnect your phone, power up and connect again.”**

The Detail Status window should display:

**“Not able to get phone information”**

## Phone Firmware Upgrade

### Description

Firmware Upgrade allows upgrading a phone to the latest software, while it also executes the Backup/Restore operations in order to preserve the user settings.

The phone upgrade process consists of the following steps:

- Backup user data
- Execute Firmware Upgrade
- Restore user data

If available on the connected phone, RSD will backup and restore the following features:

#### CDMA

- Phone book
- Date book
- Feature Settings
- Message
- Browser parameters
- Call timers

#### CDMA 1X

- Feature Settings
- Message
- Browser parameters
- Call timers

#### Notes:

- 1) For CDMA, the phonebook will always be backed up. This is necessary in order to be able to restore the Phone book data in a replacement phone in the case the current upgrade failed. However, if the flash process is successful, the Phone book will not be restored to the phone.
- 2) For CDMA 1X, the phonebook and date book doesn't need to be backed up since it is not erased during the firmware upgrade.
- 3) 120c phone does not support date book



## Operations

- Step 1: Launch RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information window displays Phone data, select Phone Firmware Upgrade Option from Utilities Pane.
- Step 3: In the Main window, the “Start Firmware Upgrade” icon and following message: “Phone Is Connected. Please Press Start Button” are displayed



**Figure 11 Firmware Upgrade Ready to Start**

- Step 4: Click “Start Firmware Upgrade” button, RSD should start performing the Firmware Upgrade. It should display the following sequences:
- The system estimates total time for performing Firmware Upgrade Operation

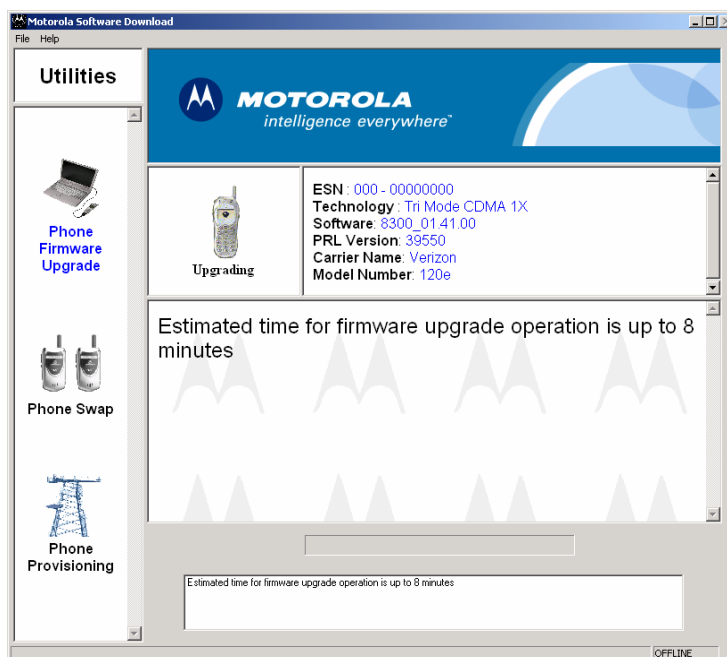


Figure 12 Estimated Time for Firmware Upgrade Operation

- The system performs the Backup operation.

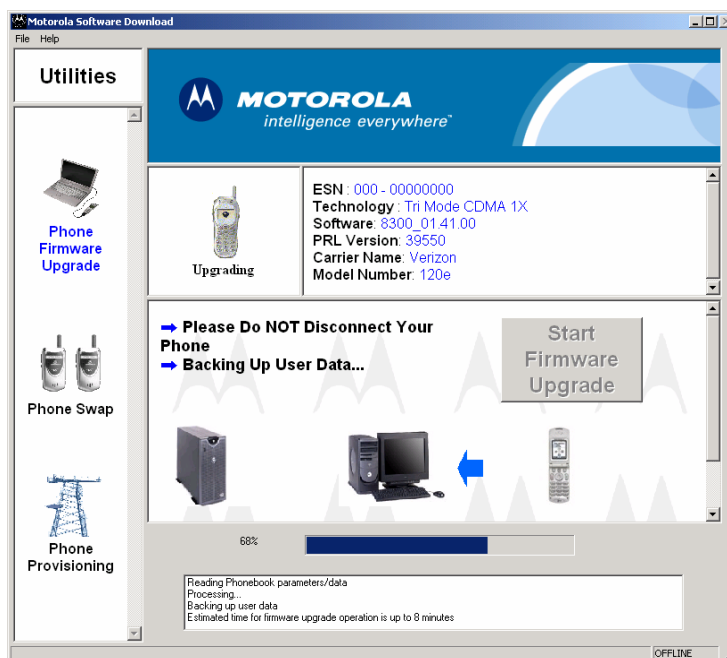


Figure 13 Backing Up User Data

**Note:** If the backup process fails, the current Firmware Upgrade operation will be aborted, reporting an error.

- The system performs the Upgrade operation.

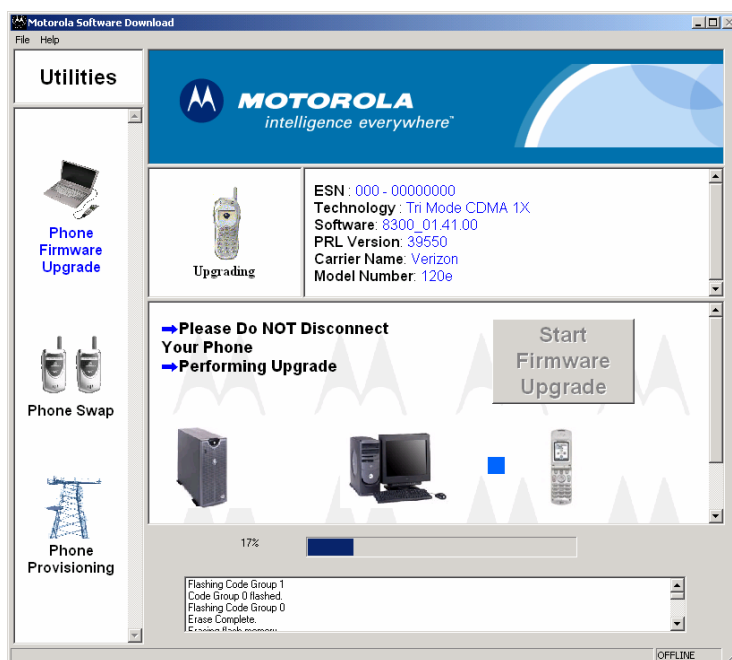


Figure 14 Upgrading Phone

- The system performs the Restore operation.

**Note:** If Restore Data process fails, there will be a second attempt to restore the phone features that failed to be restored in the first attempt.



Figure 15 Restoring User Data

- Firmware Upgrade Operation is completed.

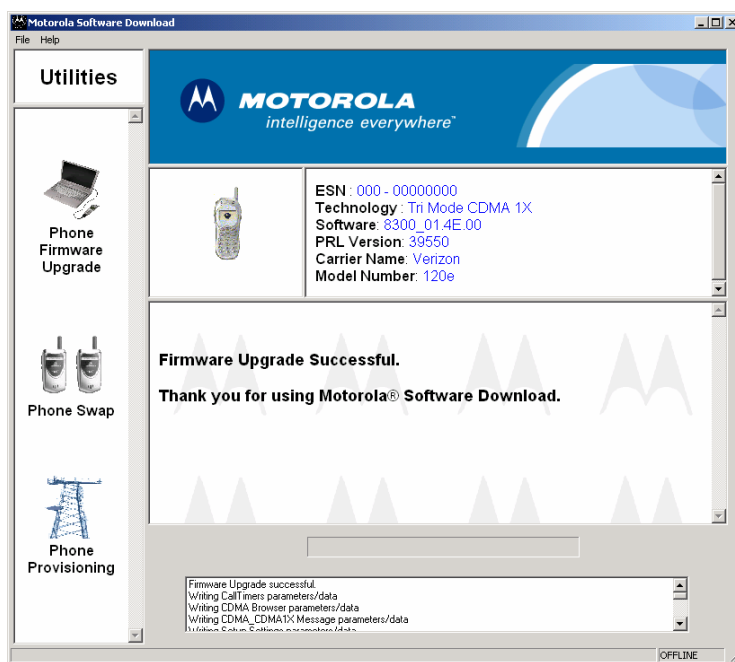


Figure 16 Firmware Upgrade Successful

**Notes:**

- The upgrade process starts only after you click on the “Start Firmware Upgrade” button
- While upgrading the phone, all utility buttons are disabled and the Phone Image pane should show “Upgrading”
- If the upgrade has failed due to any reason, this reason will be displayed in the Detail Status window and an error message will be presented in the Main Window.
- If the phone is disconnected, the Image window and Phone Information window will be cleared, the Main Window shows “Please Connect Your Phone” and the “Start Firmware Upgrade” button is greyed:



**Figure 17 “Start Firmware Upgrade” Button Disabled**

## Phone Swap

### Description

The Phone Swap component will ensure that the user's personal data (for example: Phone book) is not lost when the owner of the phone requires a phone replacement.

Phone Swap process consists of the following steps:

- User data is read from the source phone
- The user is prompted to connect to the target phone
- User data is restored into the target phone

The following phone features will be backed up from the source phone during the Phone Swap process for all the CDMA/CDMA 1X phones:

- Phone book
- Date book
- Message
- Feature Settings
- M Services files - graphics (if applicable) and ringer tones

**Please note that content that is licensed and non-distributable will not be transferred.**

- MMS (if phone supports this feature)

**Before swapping MMS content, the target phone needs to have MMS content cleared in order for the multimedia file indexing to be the same as the source phone.**

If the target phone is the same model as the source phone, all 5 phone features listed above will be restored.

If the target phone is a different model than the source phone, then only the Phone book and feature settings will be restored. In this case, the Phone book will be written to the target phone but the Phone book features that were read from the source phone are not supported by the target phone will not be transferred.

### Operations

- Step 1: Launch RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information window displays phone data, select Phone Swap Option from Utilities Pane
- Step 3: In the Main window, the "Start Swap Operation" button will be enabled and following message displayed:

"Warning: Please upgrade firmware of replacement phone before starting swap operation." and "Source phone is connected, please press Start button"



Figure 18 Phone Swap Ready to Start

Step 4: Click the “Start Swap Operation” button, then RSD should start perform the backup operation.

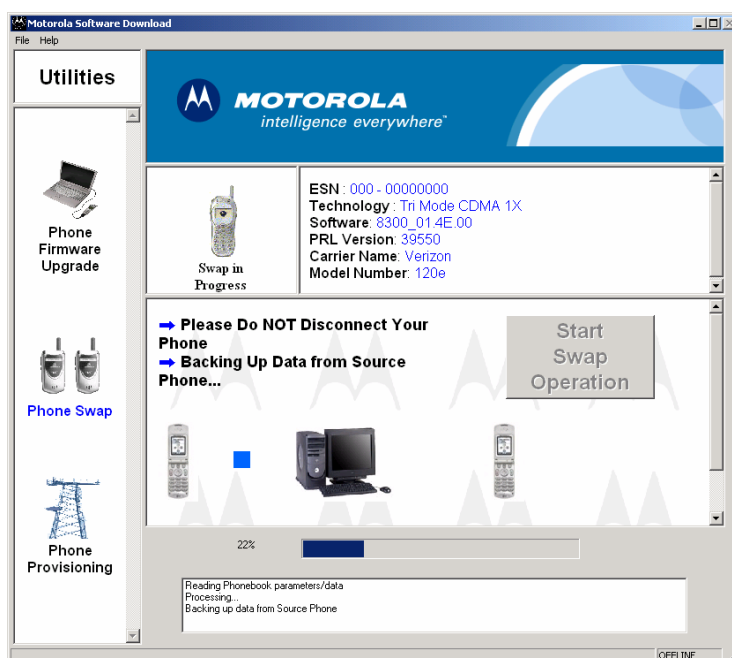


Figure 19 Backing Up User Data

Step 5: As soon as the backup operation has finished, the RSD Main window will display “Please power up target phone and connect the cable” and “Data will now be restored to the target phone.” The user is asked to replace the source phone with the target phone.



Figure 20 Ready for Target Phone

Step 6: If the user clicks “Cancel” button, the system will stop Phone Swap Operation and will return back to the initial status display.

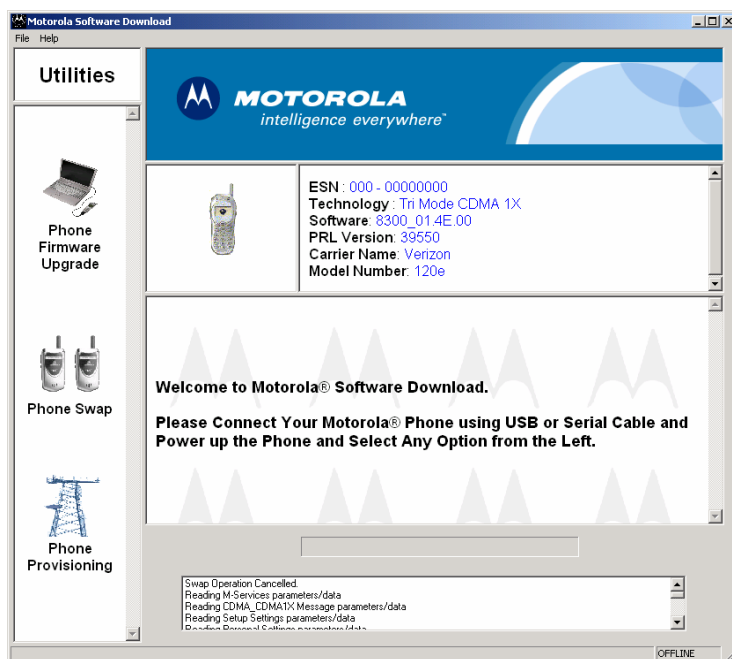


Figure 21 Back to Initial Status

Step 7: Replace the source phone with the target phone. Make sure the target phone is powered on. The system will automatically resume the restore operation for the target phone.





Figure 22 Restoring Data to Target Phone

Step 8: When all phone feature data are swapped successfully, the Swap Operation is completed.



Figure 23 Swap Operation Has Completed Successfully

**Notes:**

- The Swap process starts only after you click on the “Start Swap Operation” button

- While swapping the phone, all utility buttons are disabled and the Phone Image pane shows “Swap in Progress”
- 
- If the swap has failed due to any reason, then the reason for the failure will be displayed in the Detail Status window and an error message will be presented in the Main window.
- 
- If the phone is disconnected, the Image window and Phone Information window will be cleared. The Main window will show: “Please Connect Your Phone” and the “Start Swap Operation” button will be disabled.



Figure 24 “Start Swap Operation” Button Disabled

## Phone Provisioning

### Description

Phone Provisioning provides the capability to program the following phone features into the connected phone:

Feature	Read phone	Write phone	Edit Field	Read file	Write file
NAM	X	X	Partial	X	X
PRL	X	X	N/A	X	X
ERI	X	X	N/A	X	X
Browser	X	X	Partial	X	X
Brew	X	N/A	N/A	X	X
CDMA AGPS	X	X	Partial	X	X
EVDO	X	N/A	N/A	X	X
Feature Settings	X	X	X	X	X
Mobile IP	X	N/A	N/A	X	X
Message File	X	X	N/A	X	X
PTT	X		N/A	X	X
RTT Data	X	X	Partial	X	X
Security Grouping	X	N/A	N/A	X	X
Carrier	X	X	Partial	X	X

## CDMA NAM Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Editing Data
- Saving Data to a File
- Writing Data to the Phone

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the CDMA NAM submenu from **Settings Option** window.

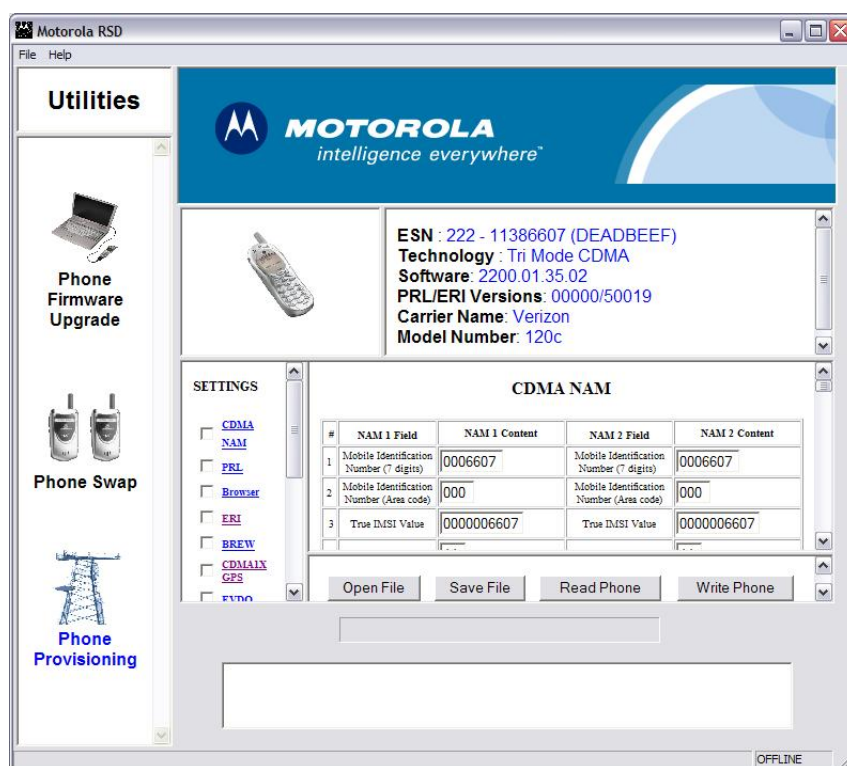


Figure 25 CDMA NAM Default Worksheet

- Step 4: RSD displays the default CDMA NAM Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To edit data on the worksheet, select the desired fields and change the data for those fields.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension **\*.nam**
  - To write data to the Phone; click the “Write Phone” button.

**Note:**

- Station Class Mark (SCM) is a read only field
- Authentication key NAM 1 and Authentication key NAM 2 are fields that are write only. In order to write to the phone. The checkbox needs to be checked.

27	Authentication key NAM 1 (write only)	00000000000000000000000000000000	<input checked="" type="checkbox"/>
28	Authentication key NAM 2 (write only)	00000000000000000000000000000000	<input checked="" type="checkbox"/>

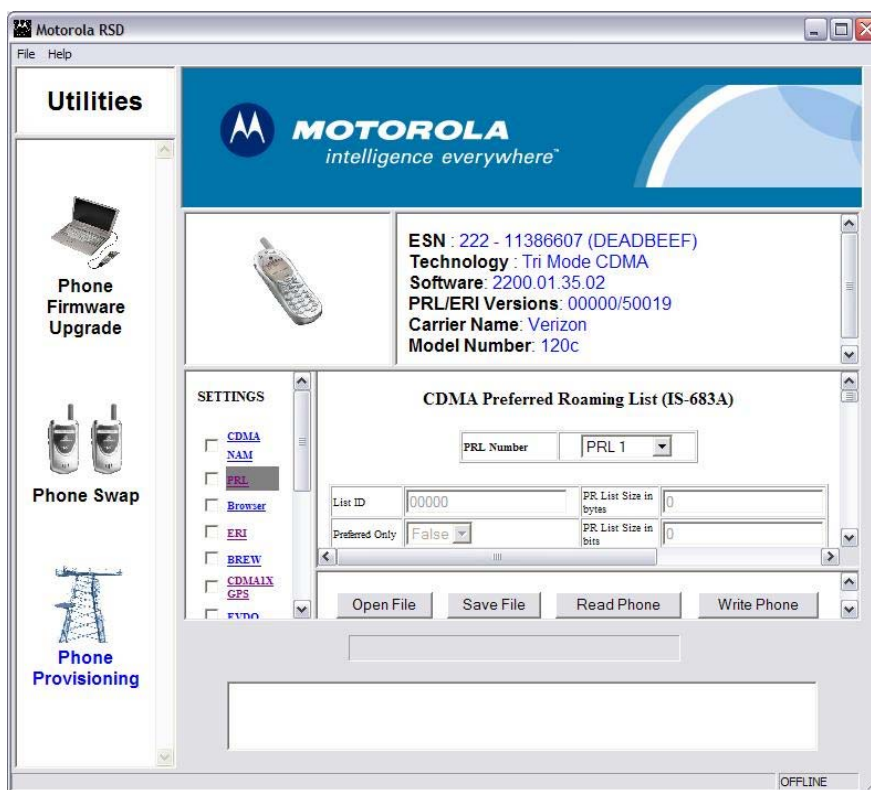
**Figure 26 Authentication Key**

## CDMA PRL Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Saving Data to a File
- Writing Data to the Phone

- Step 1: Launch RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information window displays correct Phone data, select Phone Provisioning Option from Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the PRL submenu from Setting Option



**Figure 27 PRL Default Worksheet**

- Step 4: RSD displays the default PRL worksheet. The data in PRL worksheet is not editable
- To read PRL1 data from the phone, select PRL1 in the drop down box at the top of the PRL worksheet, click the “Read Phone” button.
  - To read PRL2 data from the phone, select PRL2 in the drop down box at the top of the PRL worksheet, click the “Read Phone” button.
  - To open an existing file, click the “Open File” button to find the file to open. \*.prl and \*.rla file can be selected
  - To save data to a file, click the “Save File” button, and create a file name with extension \*.prl or \*.rla
  - To write PRL 1 data to the Phone, select PRL1 in the drop down box at the top of the PRL worksheet; click the “Write Phone” button.

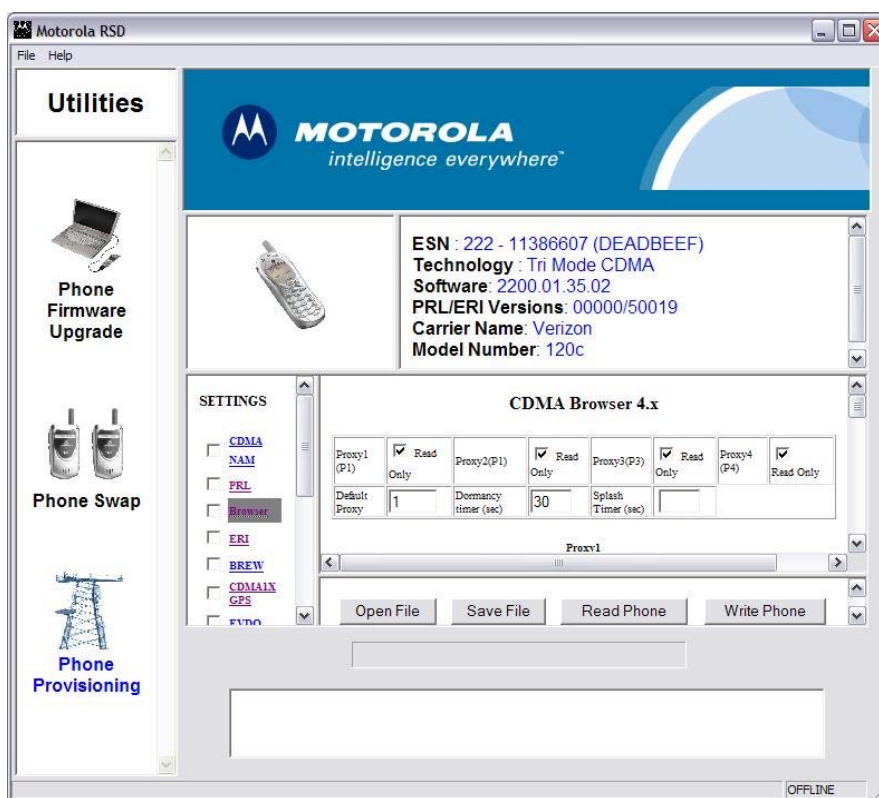
- To write PRL 2 data to the Phone, select PRL2 in the drop down box at the top of the PRL worksheet; click the “Write Phone” button.

## CDMA Browser Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Editing Data
- Saving Data to a File
- Writing Data to the Phone

- Step 1: Launch RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information window displays Phone data, select Phone Provisioning Option from Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the Browser submenu from Setting Option window
- Step 4: Depending on the connected phone model, the correct version of browser worksheet will be displayed. There are two versions of browser available:
1. WAP 1 which is use in Openwave 4.x browser.
  2. WAP 2 which is used in Openwave 6.x browser.



**Figure 28 Browser Openwave 4.x Worksheet**

- Step 5: RSD displays the default CDMA Browser 4.x Worksheet
- To read data from the Phone, click the “Read Phone” button.
  - To open an existing file, click the “Open File” button to find the file to open.
  - To edit data on the worksheet, select the desired fields and change the data for those fields.
  - To save data to a file, click the “Save File” button, and create a file name with the file extension **\*.cpm**
  - To write data to the Phone, click the “Write Phone” button.



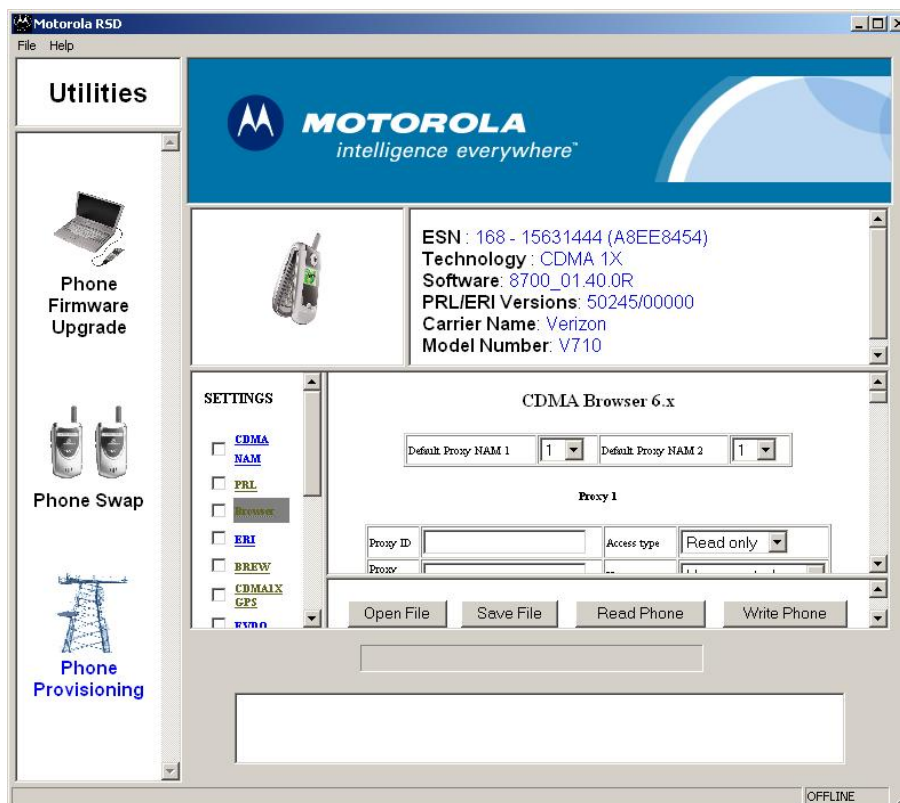


Figure 29 Openwave 6.x Worksheet

Step 6: RSD displays CDMA Browser 6.x Worksheet will be loaded when connecting a phone that supports WAP 2.

- To read data from the Phone, click the "Read Phone" button.
- To open an existing file, click the "Open File" button to find the file to open.
- To edit data on the worksheet, select the desired fields and change the data for those fields.
- To save data to a file, click the "Save File" button, and create a file name with the file extension \*.rtb
- To write data to the Phone, click the "Write Phone" button.

## CDMA ERI Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Saving Data to a File
- Writing Data to the Phone

- Step 1: Launch RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information window displays Phone data, select Phone Provisioning Option from Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the ERI submenu from Settings Option window

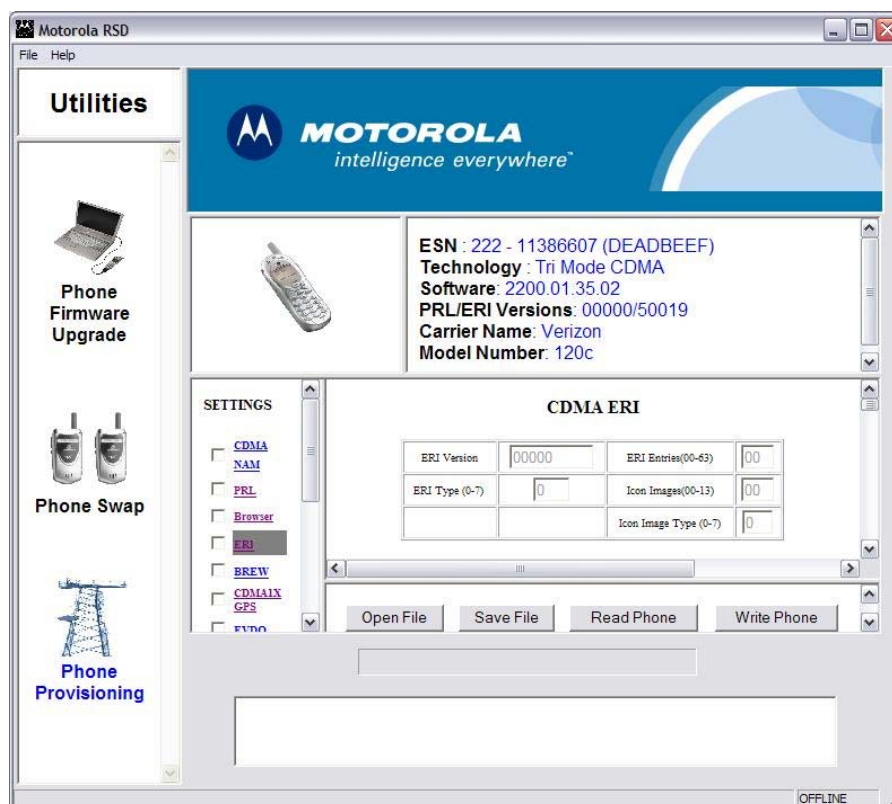


Figure 30 ERI Default Worksheet

- Step 4: RSD displays the default ERI Worksheet. **The data in ERI worksheet is not editable.**
- To read ERI data from the phone, click the “Read Phone” button.
  - To open an existing file, click the “Open File” button to find the file to open. RSD can open file with extension \*.eri, \*.eri2 and \*.bin
  - To save data to a file, click the “Save File” button, and create a file name with extension \*.eri2 or \*.bin only.
  - To write ERI data to the Phone, click the “Write Phone” button.

## BREW Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Saving Data to a File

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the BREW submenu from Settings Option window.

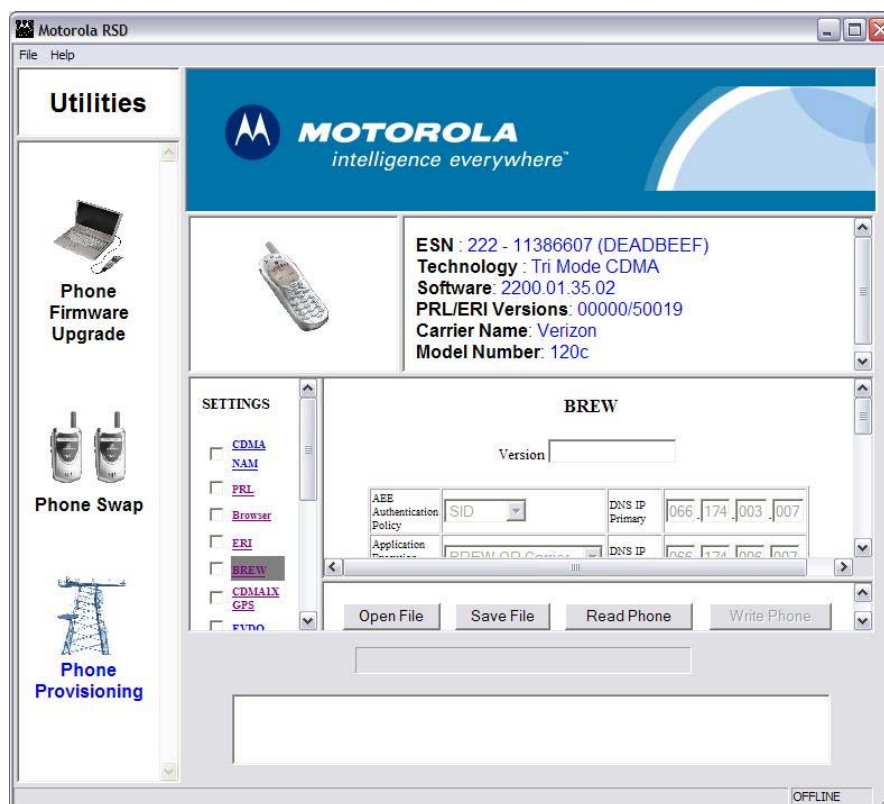


Figure 31 Brew Default Worksheet

- Step 4: RSD displays the default BREW Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension \*.brw

## CDMA1X AGPS Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Editing Data
- Saving Data to a File
- Writing Data to the Phone

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the CDMA1X GPS submenu from Settings Option window.

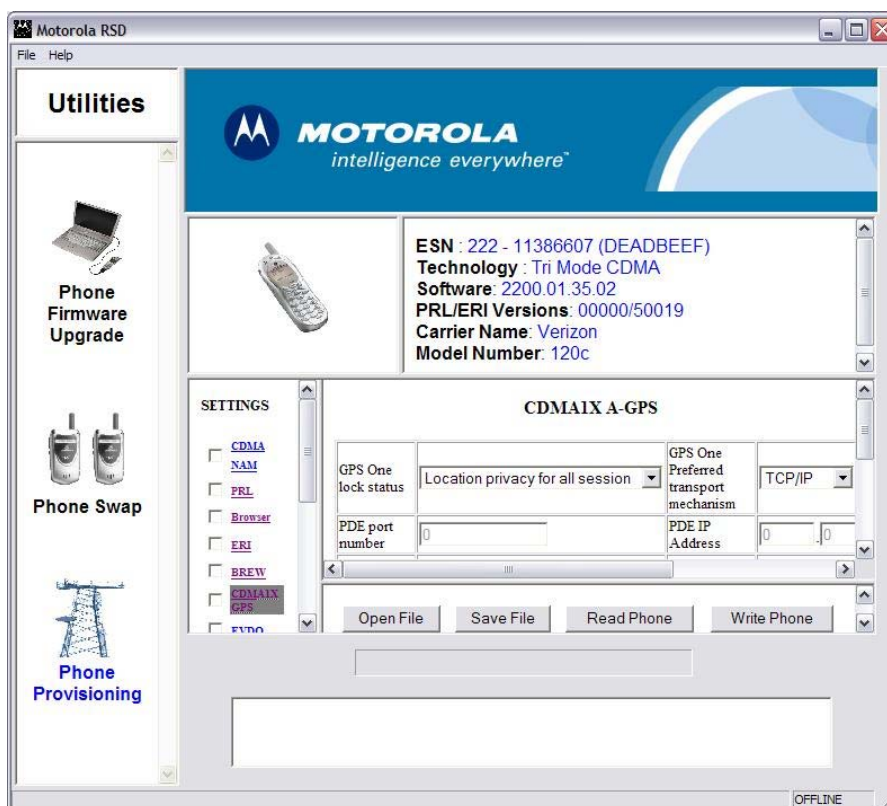


Figure 32 AGPS Default Worksheet

- Step 4: RSD displays the default CDMA1X GPS Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To edit data on the worksheet, select the desired fields and change the data for those fields.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension \*.gps
  - To write data to the Phone; click the “Write Phone” button.

## EVDO Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Saving Data to a File

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the EVDO submenu from Settings Option window.



**Figure 33 EVDO Default Worksheet**

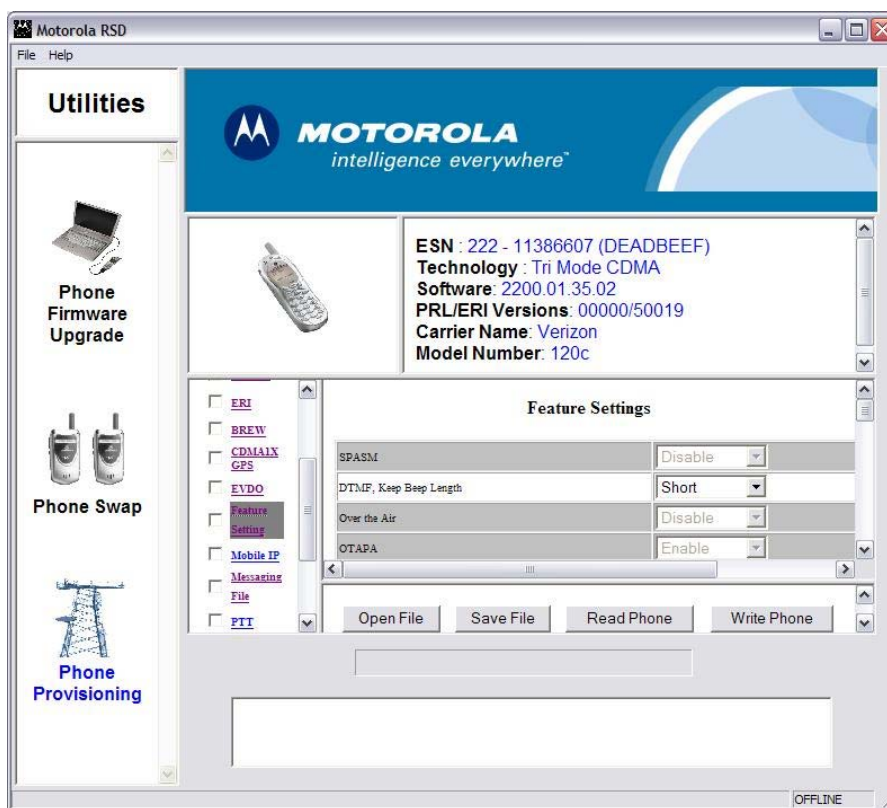
- Step 4: RSD displays the default EVDO Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension \*.edo

## Feature Setting Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Editing Data
- Saving Data to a File
- Writing Data to the Phone

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the Feature Setting submenu from Settings Option window.



**Figure 34 Feature setting default Worksheet**

- Step 4: RSD displays the default Feature Setting Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To edit data on the worksheet, select the desired fields and change the data for those fields.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension \*.ftr
  - To write data to the Phone; click the “Write Phone” button.

**Note:**

- **Life Time Calls** is a read-only field.
- **In order to write Lock code and Location Lock Code, their checkbox need to be checked.**

Lock Code	<input type="text"/>	<input checked="" type="checkbox"/>
Location Lock Code	<input type="text"/>	<input checked="" type="checkbox"/>

**Figure 35 Lock code and Location Lock Code**



## Mobile IP Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Saving Data to a File

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the Mobile IP submenu from Settings Option window.

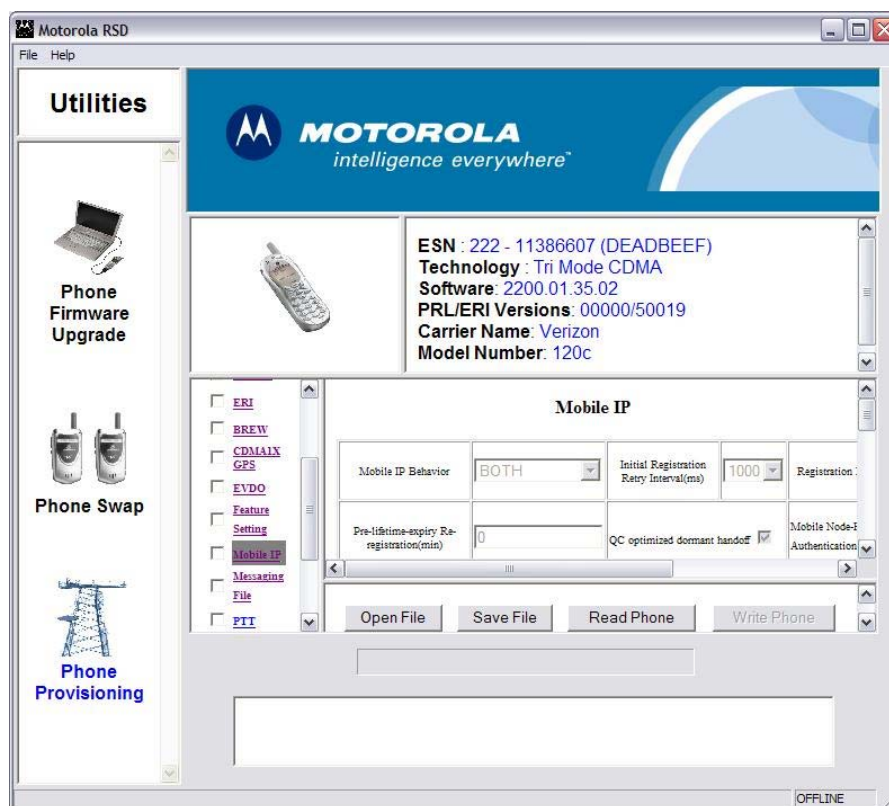


Figure 36 Mobile IP Default Worksheet

- Step 4: RSD displays the default Mobile IP Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To edit data on the worksheet, select the desired fields and change the data for those fields.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension \*.mip

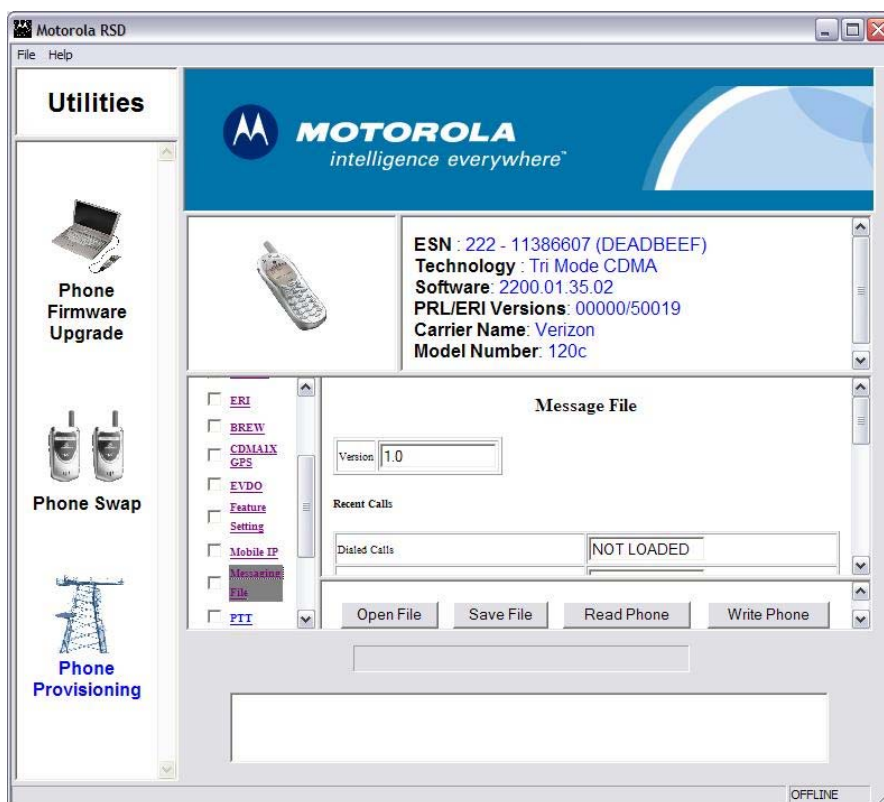


## Messaging File Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Saving Data to a File
- Writing Data to the Phone

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the Messaging File submenu from Settings Option window.



**Figure 37 Message File Default Worksheet**

- Step 4: RSD displays the default Messaging File Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension \*.sms
  - To write data to the Phone; click the “Write Phone” button.

## PTT Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Saving Data to a File

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the PTT submenu from Settings Option window.

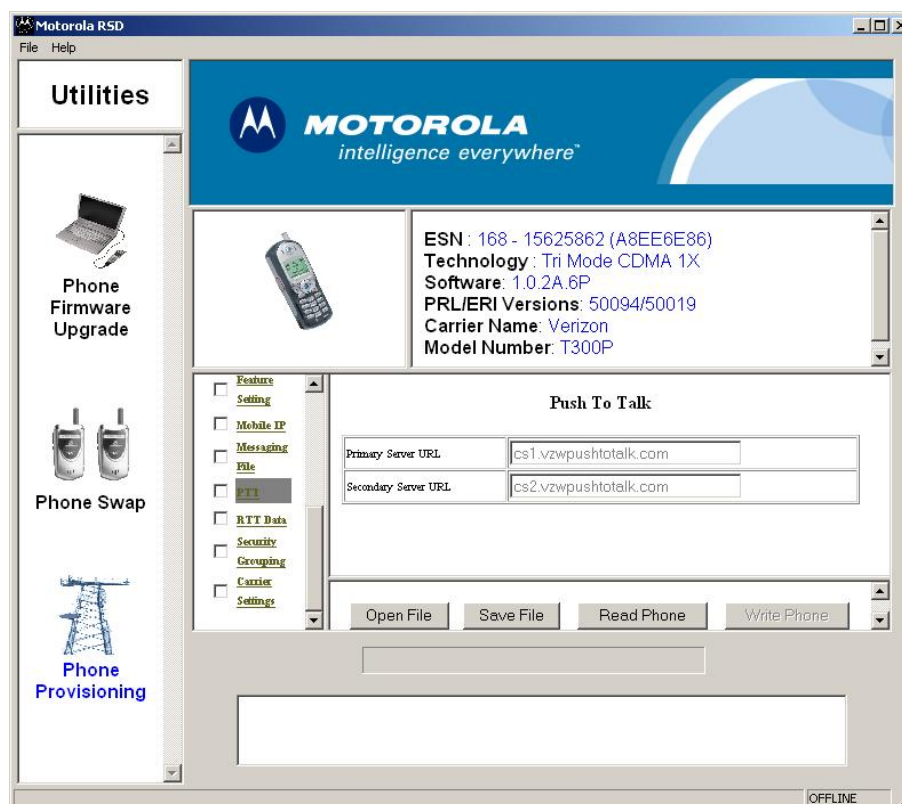


Figure 38 PTT Default Worksheet

- Step 4: RSD displays the default PTT Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension \*.ptt

## RTT Data Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Editing Data
- Saving Data to a File
- Writing Data to the Phone

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the RTT Data submenu from Setting Option window.



Figure 39 RTT Data Default Worksheet

- Step 4: RSD displays the default RTT Data Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To edit data on the worksheet, select the desired fields and change the data for those fields.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension \*.rtd
  - To write data to the Phone; click the “Write Phone” button.

## Security Grouping Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Saving Data to a File

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the Security Grouping submenu from Settings Option window.

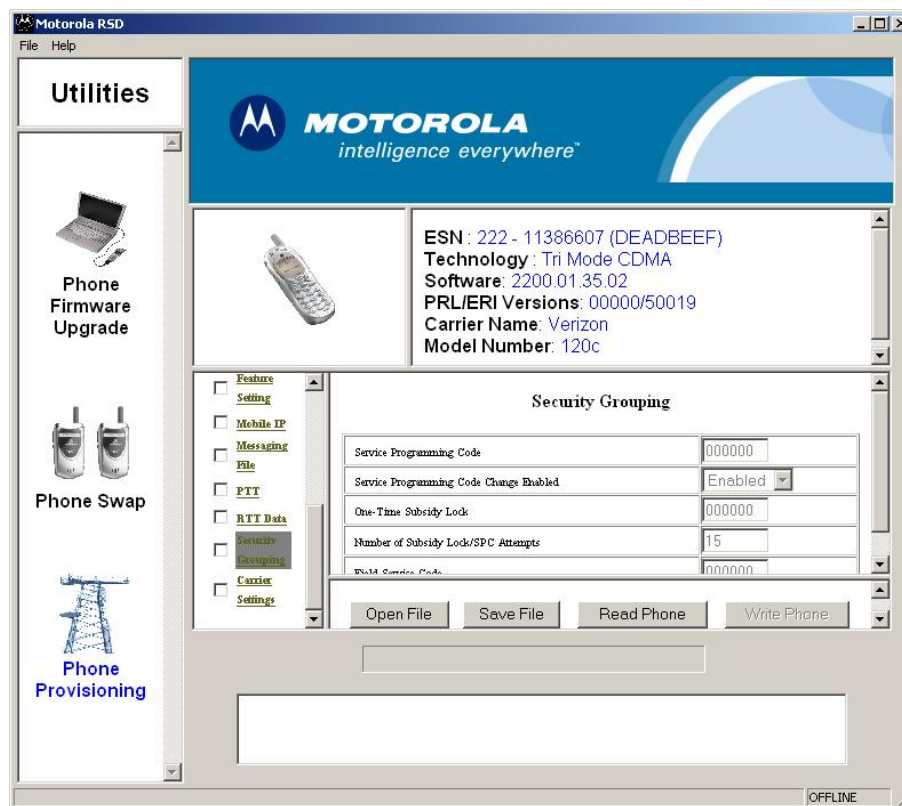


Figure 40 Security Grouping Default Worksheet

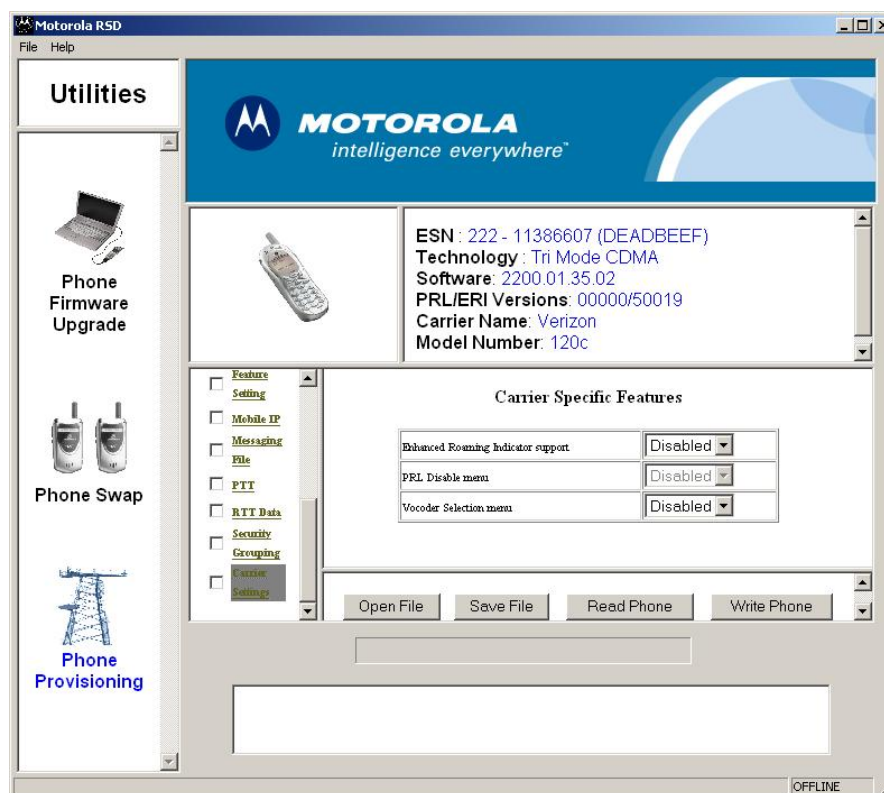
- Step 4: RSD displays the default Security Grouping Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension \*.sec

## Carrier Settings Operation

You can perform the following standard operations:

- Reading Data from the Phone
- Opening an Existing File
- Editing Data
- Saving Data to a File
- Writing Data to the Phone

- Step 1: Launch the RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information Window displays phone data, select Phone Provisioning Option from the Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select the Carrier Settings submenu from Settings Option window.



**Figure 41 Carrier Settings Operation Default Worksheet**

- Step 4: RSD displays the default Carrier Settings Worksheet
- To read data from the Phone; click the “Read Phone” button.
  - To open an existing file; click the “Open File” button to find the file to open.
  - To edit data on the worksheet, select the desired fields and change the data for those fields.
  - To save data to a file; click the “Save File” button, and create a file name with the file extension \*.csf
  - To write data to the Phone; click the “Write Phone” button.

## Working With Multiple Feature Selections

You can perform the following standard operations for multiple feature selections:

- Reading Data from the Phone
- Writing Data to the Phone

The following standard operations only work for the current displayed worksheet:

- Opening an Existing File
- Saving Data to a File

- Step 1: Launch RSD application and connect a phone to the USB cable.
- Step 2: After the Phone Information window displays Phone data, select Phone Provisioning Option from Utilities Pane.
- Step 3: When RSD displays the Provisioning menu window, select as needed check boxes located near the features submenu from Settings Option window

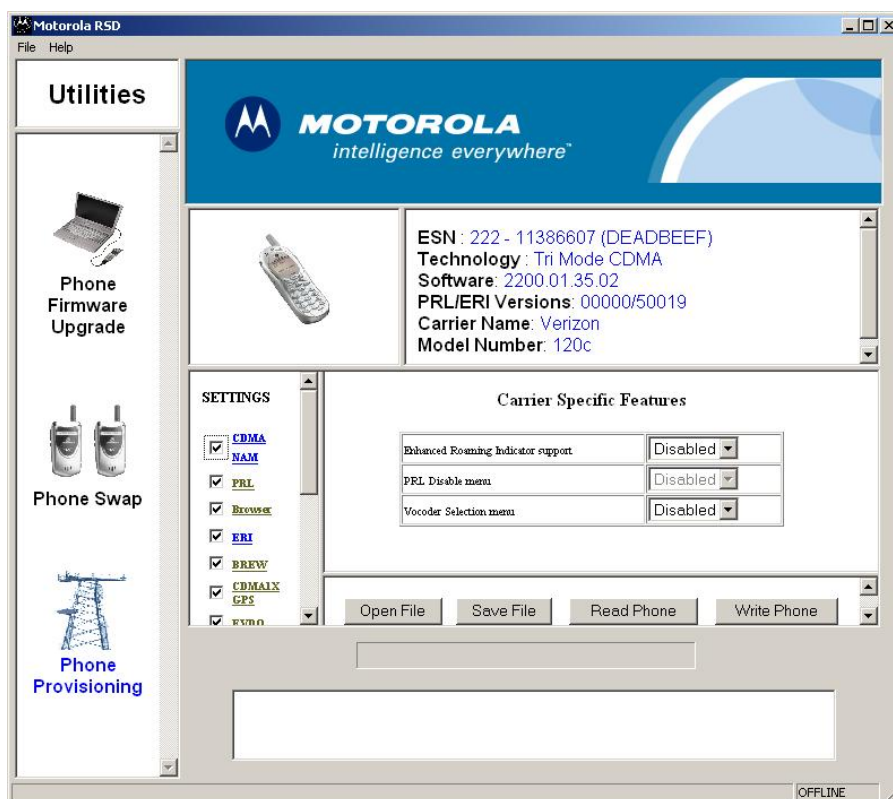


Figure 42 Multiple Feature Selections

- Step 4: Multiple feature selections operation
- To read all selected feature's data, click the "Read Phone" button.
  - To write all selected feature's data, click the "Write Phone" button.

**Notes:**

- In multiple feature selections, when RSD finishes reading the phone, all the selected features worksheets and the current worksheet are updated with the data from the phone.
- In multiple feature selections, after writing to the phone, all the selected features worksheets and the current worksheet are written to the phone.

**Please make sure before writing that only desired feature worksheets are selected in order to avoid programming other features into the phone.**

- If the currently displayed worksheet is not checked, and some other feature settings are checked, both currently displayed worksheet and checked features parameters will be read from phone when the “Read Phone” button is pressed. For example, if the currently displayed worksheet is CDMA NAM and only the check box besides PRL is checked, both NAM and PRL parameters will be read from the phone when “Read Phone” button is pressed.
- If the currently displayed worksheet is not checked, and some other feature settings are checked, both currently displayed worksheet and checked features parameters will be written to phone when the “Write Phone” button is pressed. For example, if the currently displayed worksheet is CDMA NAM and only the check box besides Browser is checked, both NAM and Browser parameters will be written to the phone when “Write Phone” button is pressed.

## Contact Information

For any additional information or issues regarding RSD please contact Motorola CTS for Verizon: Kris Menon - (908) 822-7889.

## **Appendix**

### **Provisioning settings**



## CDMA NAM

#	NAM 1 Field	NAM 1 Content	NAM 2 Field	NAM 2 Content
1	Mobile Identification Number (7 digits)	0000000	Mobile Identification Number (7 digits)	0000000
2	Mobile Identification Number (Area code)	000	Mobile Identification Number (Area code)	000
3	True IMSI Value	1111110111	True IMSI Value	1111110111
4	True IMSI 11 12	11	True IMSI 11 12	11
5	Mobile Directory Number (Phone Number)	1111110111	Mobile Directory Number (Phone Number)	1111110111
6	Mobile Country Code (MCC)	000	Mobile Country Code (MCC)	000
7	AMPS Home System ID (SID)	02004	AMPS Home System ID (SID)	02004
8	CDMA Home System ID (SID 1)	02004	CDMA Home System ID (SID 1)	02004
9	CDMA Network ID (NID 1)	65535	CDMA Network ID (NID 1)	65535
10	CDMA Primary Ch. System A	0283	CDMA Primary Ch. System A	0283
11	CDMA Primary Ch. System B	0384	CDMA Primary Ch. System B	0000
12	CDMA Secondary Ch. System A	0691	CDMA Secondary Ch. System A	0691
13	CDMA Secondary Ch. System B	0777	CDMA Secondary Ch. System B	0777

#	Permanent NAM Field	Permanent NAM Content
14	Service Level	0
15	Option Byte 2	00000000
16	Option Byte 3	01000000
17	Option Byte 4	00100000
18	AMPS Number of Channels to Scan	0021
19	AMPS First Dedicated Control Ch. System A	0333
20	AMPS First Dedicated Control Ch. System B	0334

21	Nam Name	
22	Voice Privacy	Enable
23	Preferred voice service option for Home Page	EVRC
24	Preferred voice service option for Home Origination	EVRC
25	Preferred voice service option for Roam Origination	EVRC
26	Preferred Mode	CDMA Preferred
27	Authentication key NAM 1 (write only)	00000000000000000000000000000000 <input type="checkbox"/>
28	Authentication key NAM 2 (write only)	00000000000000000000000000000000 <input type="checkbox"/>

#	IMSI 1 Field	IMSI 1 Content	IMSI 2 Field	IMSI 2 Content
29	True IMSI Addr Num	000	True IMSI Addr Num	000
30	True IMSI Status	0	True IMSI Status	0
31	True IMSI Programmed/Deprogrammed	0	True IMSI Programmed/Deprogrammed	0
32	True IMSI MCC	111	True IMSI MCC	111

#	NAM 1 Field	NAM 1 Content	NAM 2 Field	NAM 2 Content
33	Option Byte 1	10000100	Option Byte 1	10000100
34	Option Byte 5	00101111	Option Byte 5	00101111
35	Station Class Mark (SCM)	000	Station Class Mark (SCM)	000
36	Access Overload Code	00	Access Overload Code	00
37	AMPS Initial Paging Channel	0334	AMPS Initial Paging Channel	0334
38	CDMA Slot Cycle Index	1	CDMA Slot Cycle Index	1
39	IMSI 12 and IMSI 11	11	IMSI 12 and IMSI 11	11
40	System Mode Current	0	System Mode Current	0
41	System Mode Previous	0	System Mode Previous	0
42	Vocoder Type	EVRC	Vocoder Type	EVRC
43	CDMA Home System ID (SID 2)	02004	CDMA Home System ID (SID 2)	02004
44	CDMA Network ID (NID 2)	65535	CDMA Network ID (NID 2)	65535
45	CDMA Home System ID (SID 3)	00000	CDMA Network ID (SID 3)	00000
46	CDMA Network ID (NID 3)	00000	CDMA Network ID (NID 3)	00000
47	CDMA Home System ID (SID 4)	00000	CDMA Home System ID (SID 4)	00000
48	CDMA Network ID (NID 4)	00000	CDMA Network ID (NID 4)	00000
49	CDMA Home System ID (SID 5)	00000	CDMA Home System ID (SID 5)	00000
50	CDMA Network ID (NID 5)	00000	CDMA Network ID (NID 5)	00000
51	CDMA Home System ID (SID 6)	00000	CDMA Home System ID (SID 6)	00000
52	CDMA Network ID (NID 6)	00000	CDMA Network ID (NID 6)	00000
53	CDMA Home System ID (SID 7)	00000	CDMA Home System ID (SID 7)	00000
54	CDMA Network ID (NID 7)	00000	CDMA Network ID (NID 7)	00000
55	CDMA Home System ID (SID 8)	00000	CDMA Home System ID (SID 8)	00000
56	CDMA Network ID (NID 8)	00000	CDMA Network ID (NID 8)	00000
57	CDMA Home System ID (SID 9)	00000	CDMA Home System ID (SID 9)	00000
58	CDMA Network ID (NID 9)	00000	CDMA Network ID (NID 9)	00000

## CDMA Preferred Roaming List (IS-683A)

<b>PRL Number</b>	PRL 1
-------------------	-------

List ID		PR List Size in bytes	
Preferred Only	False	PR List Size in bits	
Default Roaming Indication	0x00 On	Number of Acquisition Records	
PR List CRC		Number of System Records	

## Acquisition Table

#	Type	Data 1	Data 2
	Reserved		
	Reserved		
	Reserved		
	Reserved		

## System Table

#	SID	NID	Negative/Preferred System	Geographical Region Indicator	Priority	Acquisition Record	Roaming Indication
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On
			Negative	New(0)	Same(0)		0x00 On

## CDMA Browser 4.x

Proxy1(P1)	<input checked="" type="checkbox"/> Read Only	Proxy2(P1)	<input checked="" type="checkbox"/> Read Only	Proxy3(P3)	<input checked="" type="checkbox"/> Read Only	Proxy4 (P4)	<input checked="" type="checkbox"/> Read Only
Default Proxy	1	Dormancy timer (sec)	0	Splash Timer (sec)	0		

## Proxy1

Proxy Name		Home Page URL		Line Type	<input checked="" type="checkbox"/> Modem
CSD Timer (min:sec)	0	CSD Timer (min)	2	Proxy1	<input type="checkbox"/> Cache Startup
WDP Port1	9203	WDP Port2	0000	Confirmation	OFF
WDP Address1	199.074.153.210	WDP Address2	000.000.000.000		

## Proxy2

Proxy Name		Home Page URL		Line Type	<input checked="" type="checkbox"/> Modem
CSD Timer (sec)	0	CSD Timer (min)	2	Proxy2	<input type="checkbox"/> Cache Startup
WDP Port1	9203	WDP Port2	0000	Confirmation	OFF
WDP Address1	199.074.153.210	WDP Address2	000.000.000.000		

## Proxy3

Proxy Name		Home Page URL		Line Type	<input checked="" type="checkbox"/> Modem
CSD Timer (sec)	0	CSD Timer (min)	2	Proxy3	<input type="checkbox"/> Cache Startup
WDP Port1	9203	WDP Port2	0000	Confirmation	OFF
WDP Address1	199.074.153.210	WDP Address2	000.000.000.000		

## Proxy4

Proxy Name		Home Page URL		Line Type	<input checked="" type="checkbox"/> Modem
CSD Timer (sec)	0	CSD Timer (min)	2	Proxy4	<input type="checkbox"/> Cache Startup
WDP Port1	9203	WDP Port2	0000	Confirmation	OFF
WDP Address1	199.074.153.210	WDP Address2	000.000.000.000		

## CDMA Browser 6.x

Default Proxy NAM 1	1 ▾	Default Proxy NAM 2	1 ▾
---------------------	-----	---------------------	-----

## Proxy 1

Proxy ID	<input type="text"/>	Access type	Read only ▾
Proxy name	<input type="text"/>	User type	User created ▾
User ID	<input type="text"/>	Cache startup	ON ▾
Password	<input type="text"/>	Proxy authentication	HTTP basic ▾
Homepage	<input type="text"/>		

	Primary	Secondary
Gateway IP	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>
Gateway URL	<input type="text"/>	<input type="text"/>
Service Type	WAP ▾	WAP ▾
Port	<input type="text"/>	<input type="text"/>
E2E port	<input type="text"/>	<input type="text"/>
LXL port	<input type="text"/>	<input type="text"/>
Domain	<input type="text"/>	<input type="text"/>
Physical proxy	<input type="text"/>	<input type="text"/>
NAP ID 1	<input type="text"/>	<input type="text"/>
NAP ID 2	<input type="text"/>	<input type="text"/>

## Proxy 2

Proxy ID	<input type="text"/>	Access type	Read only ▾
Proxy name	<input type="text"/>	User type	User created ▾
User ID	<input type="text"/>	Cache startup	ON ▾
Password	<input type="text"/>	Proxy authentication	HTTP basic ▾
Homepage	<input type="text"/>		

	Primary	Secondary
Gateway IP	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>
Gateway URL	<input type="text"/>	<input type="text"/>
Service Type	WAP ▾	WAP ▾
Port	<input type="text"/>	<input type="text"/>
E2E port	<input type="text"/>	<input type="text"/>
LXL port	<input type="text"/>	<input type="text"/>



## CDMA ERI

ERI Version	<input type="text"/>	ERI Entries(00-63)	<input type="text"/>
ERI Type (0-7)	<input type="text"/>	Icon Images(00-13)	<input type="text"/>
		Icon Image Type (0-7)	<input type="text"/>

### Call Prompt Table

Call Prompt #	Encoding Type	Text Displayed	Text Size in Char
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Roaming Indicator Table

[illegible]

[illegible]

### Audible Data Table

[illegible]

## BREW

Version

AEE Authentication Policy	SID <input type="text"/>	DNS IP Primary	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>
Application Execution Policy	BREW OR Carrier <input type="text"/>	DNS IP Secondary	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>
Test Enable Policy <input checked="" type="checkbox"/>	MIN for SID <input checked="" type="checkbox"/>	SMS Teleservice ID	<input type="text"/>

ADS Type	Test <input type="text"/>	OEM Programmed B- Key	<input type="text"/>
Carrier ID	200	ADS Commercial Server URL	apps.myvzw.com
Platform ID	8001	ADS Test Server URL	Testapps.myvzw.com
<input checked="" type="checkbox"/> Check Prepay	<input checked="" type="checkbox"/> Prepay Phone	AKEY/BKEY specifier	B-Key <input type="text"/>

Feature in BREW version 2	<input type="checkbox"/> No Auto Acknowledge	<input checked="" type="checkbox"/> Disallow Dormancy
---------------------------	--	---

Feature in BREW version 3	Subscriber ID <input type="text"/>	Subscriber ID Len <input type="text" value="32"/>
---------------------------	------------------------------------	---



<input type="checkbox"/> SID Encoding	<input type="checkbox"/> SID validate all	<input type="checkbox"/> RUIM Delete Override
---------------------------------------	---	---



## CDMA1X A-GPS

GPS One lock status	Location privacy for all session ▾	GPS One Preferred transport mechanism	TCP/IP ▾
PDE port number	<input type="text"/>	PDE IP Address	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>
GPS One Capabilities	Not used. <input type="text"/>	GPS One Position Determination Services Lock-out	Not used. <input type="text"/>
GPS One Mobile vs. PDE based Position Calculations	Not used. <input type="text"/>	GPS Network Access Type	Network access allowed with demodulation ▾
GPS Privacy Level	Minimum Level ▾		

**EVDO setting**

Hybrid Preference	Hybrid on 
Preferred Mode	Automatic 

## Feature Settings

SPASM	Enable	▼
DTMF, Keep Beep Length	Short	▼
Over the Air	Enable	▼
OTAPA	Enable	▼
Auto Retry(auto re-dial)	Disable	▼
Auto System/Auto NAM	Disable	▼
Auto Hyphen	Enable	▼
Contrast Level (0 ~ 6)	3	
Auto Answer - Device	Disable	▼
Number of Rings to Answer	000	
Auto Handsfree	Disable	▼
Auto Answer - Car Kit/Headset	Disable	▼
Any Key Answer (All Available)	Enable	▼
Keyguard / Keypad Lock	Disable	▼
Voice Privacy	Enable	▼
Language	English	▼
Auto Lock	Disable	▼
Backlight	5 seconds	▼
Lifetime Calls (HH:MM:SS)	0	

## Phone Directory Grouping

Voice Mail Number	*86
Service Number	611
Emergency Number	911
Emergency Number	*911
Emergency Number	#911

## User Security

Lock Code	1234	<input type="checkbox"/>
Location Lock Code	000000	<input type="checkbox"/>

## Personalize

Greetings	
Banner	Ready

## Mobile IP

Mobile IP Behavior	BOTH	Initial Registration Retry Interval(ms)	1000	Registration Retries	
Pre-lifetime-expiry Re- registration(min)		QC optimized dormant handoff	<input checked="" type="checkbox"/>	Mobile Node-HA Authentication	RFC2002bis
MN_Authenticator(hex)		DMU Public Key	<input checked="" type="checkbox"/>		

Network Access ID(NAI)	MDN@vzw3g.com		Reverse Tunneling	<input checked="" type="checkbox"/>
Home Address Shared Secret	<input type="checkbox"/> Hex <input type="checkbox"/> Text <input checked="" type="checkbox"/> Retain last value N/A		MN HA SPI Set <input checked="" type="checkbox"/>	MN HA SPI Value 0
AAA Shared Secret	<input type="checkbox"/> Hex <input type="checkbox"/> Text <input checked="" type="checkbox"/> Retain last value N/A		MN AAA SPI Set <input checked="" type="checkbox"/>	MN AAA SPI Value 0
IP Address	. . . .		DNS Primary	. . . .
DNS Secondary	. . . .			

Profile	NAI	HA Value	AAA Value	Tunneling	IP	Primary	Secondary

**Message File**

Version	1.0
---------	-----

**Recent Calls**

Dialed Calls	NOT LOADED
Received Calls	NOT LOADED

**User Phone Customization**

Shortcuts	NOT LOADED
FM Radio Presets	NOT LOADED

**Message Center**

Voicemail	NOT LOADED
Text Messages	NOT LOADED
Browser Alerts	NOT LOADED
Quicknotes	NOT LOADED
Outbox	NOT LOADED
Drafts	NOT LOADED

**Push To Talk**

Primary Server URL	cs1.vzwpushtoalk.com
Secondary Server URL	cs2.vzwpushtoalk.com

## RTT Data

QNC Enabled:	Enable
MDR Mode:	SO 33, If Available
SCRM'ing Status:	Yes
R_SCH Throttling Status:	Yes
Packet Data Auto Detection:	No
Preferred Radio Config:	RC3
Data Service Option Set:	IS-707 SO
Primary DNS	000 . 000 . 000 . 000
Secondary DNS	000 . 000 . 000 . 000
Dial String:	#777
PDC User Name:	
PDC Password:	
PAP/PPP User Name:	MDN@vzw3g.com
PAP/PPP Password:	0

### Security Grouping

Service Programming Code	<input type="text" value="000000"/>
Service Programming Code Change Enabled	<input type="text" value="Enabled"/> ▼
One-Time Subsidy Lock	<input type="text" value="000000"/>
Number of Subsidy Lock/SPC Attempts	<input type="text" value="15"/>
Field Service Code	<input type="text" value="000000"/>

### Carrier Specific Features

Enhanced Roaming Indicator support	Enabled ▾
PRL Disable menu	Disabled ▾
Vocoder Selection menu	Disabled ▾





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