SL1100 Quick Start Guide

A50-034011-001
Document Number 750373-0 (Issue 1.01)

Thank you for your purchase of the SL1100. If this is your first installation, please follow the steps in this document to complete the initial setup. All SL1100 Technical documentation including Manuals, Help Guides, Training videos and Knowledge Base Articles may be found at www.necntac.com.

Step 1

If you do not already have a NEC Support ID you may register for one online by going towww.necntac.com and then click on **"Create an Account"**. There is no charge or obligation requirements for receiving a support ID. A **support ID is required** to download the SL1100 Programming Tool (PCPro) as well as the latest version of software to ensure the SL1100 has the latest features available.

Step 2

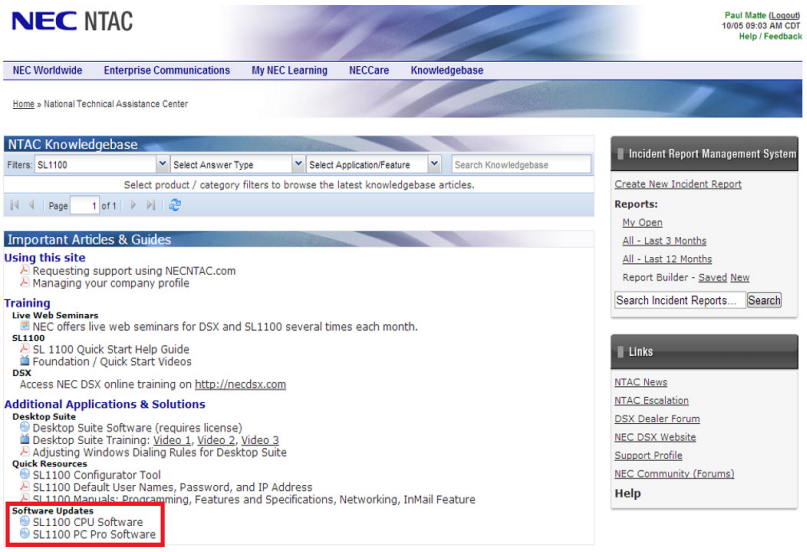
Download PCPro and CPU Software

Log in to the www.necntac.com website using your support ID.

Once logged in, download the following two items (which are located on the bottom of the page):

- SL1100 CPU Software
- SL1100 PCPro Software

Please install the SL1100 PCPro software on the computer that runs the initial setup of the SL1100 system.



Step 3

Verify Power -&- Hardware Overview

To avoid shock or equipment damage, **do not plug in or turn on the system power** before completing the hardware installation. The Main KSU has the built in CPU, eight digital station ports, four analog extension ports, and four analog trunk ports. Each KSU can have up to two expansion cards installed and the expansion cards are:

- IP4WW-080E-B1 — 8 port digital station card
- IP4WW-008E-B1 — 8 port analog station card
- IP4WW-PRIU-C1-PRI/T1 Trunk Card

Note: The PRIU card can be installed in the 3rd expansion slot of KSU 1 and KSU 2. No other cards can be installed in these slots.

- IP4WW-4COIDB-B1 — 4 port analog trunk card

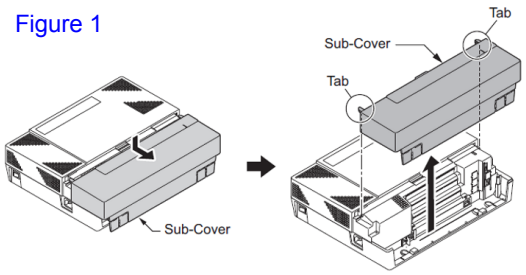
Note: The 4 port analog trunk card is a daughter board that can be mounted on the IPWW-080E-B1, IPWW-008E-B1 and the KSU motherboard.

- IP4WW-VOIPDB-C1 — Required for **V**oice **O**ver
- IP4WW-CFVMS-C1 — Compact Flash used for Voice Mail and VRS functions. Provides approximately 15 hours of recordings.
- IP4WW-CFVML-C1 — Compact flash used for Voice Mail and VRS functions. Provides approximately 40 hours of recordings.

Step 4

With no power applied to the system, open and remove the sub cover as shown in Figure 1 below.

Figure 1



Loosen the two screws and remove the Main Cover as shown in Figure 2 below.

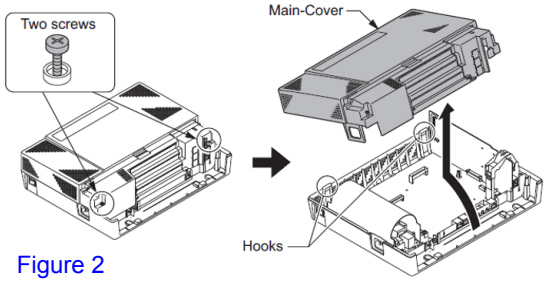


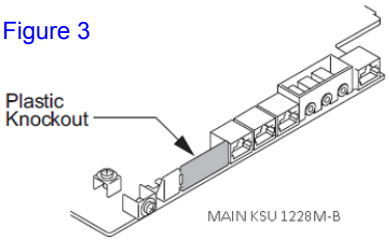
Figure 2

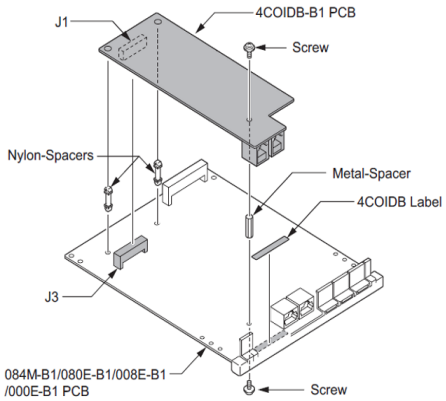
Step 5

Figure 4

Remove the Plastic Knockout on the 1228M-B motherboard (Main KSU) as shown in Figure 3. Insert the IPWW-4COIDB-B1-4 onto the 084M-B1 motherboard as shown in Figure 4.

Figure 3





Note:

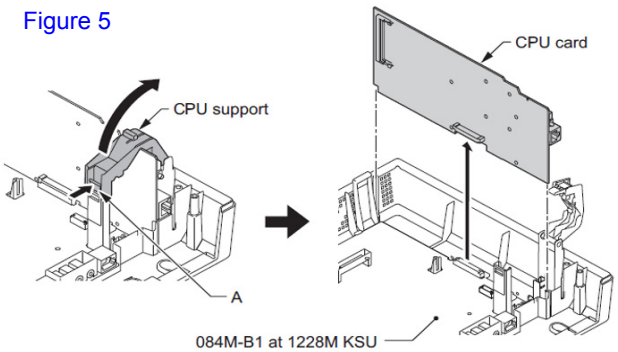
The steps displayed in Fig 4 are the same for inserting IPWW-4COIDB-B1-4 onto any of the following circuit cards:

- **Main KSU 1228M-B**
- **IPWW-080E-B1-8**
- **IPWW-008E-B1-8**

Step 6

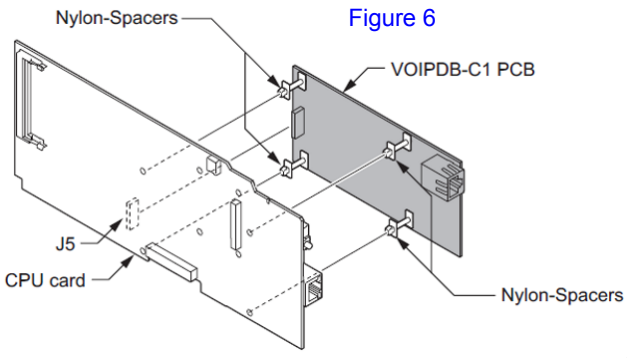
If a VoIPDB is required, press Tab A and lift the CPU support bracket and then remove the CPU card as shown in Figure 5 below.

Figure 5



Install the VoIPDB daughter board to the J5 connector on the CPU card as shown in Figure 6 below. Reinstall the CPU card into the main KSU or go to Step 7 to mount the Voice Mail compact flash.

Figure 6



Step 7

If an IP4WW-CFVMS-C1 (Voice Mail Compact Flash) is required, insert the compact flash card into the CF slot as shown in Figure 7.

Reinstall the CPU card into the main KSU and proceed to Step 8.

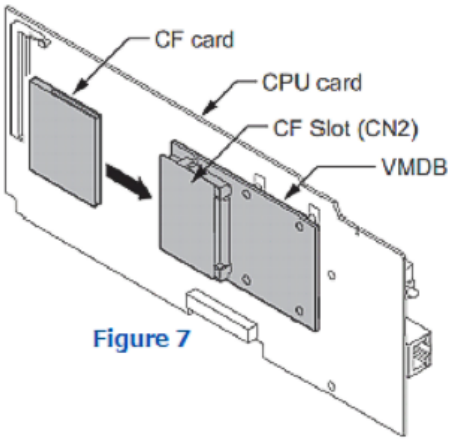
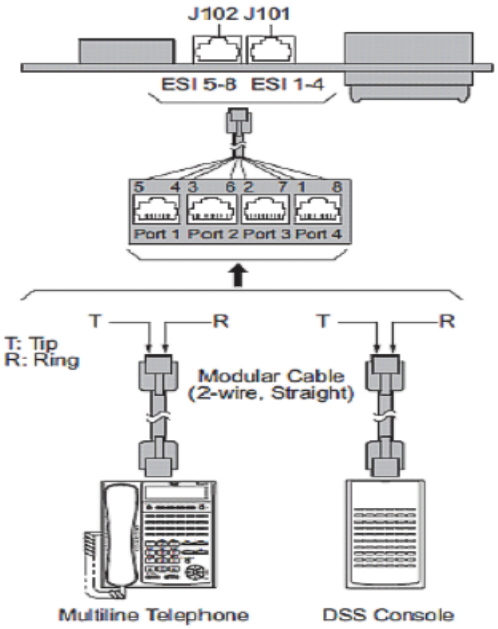
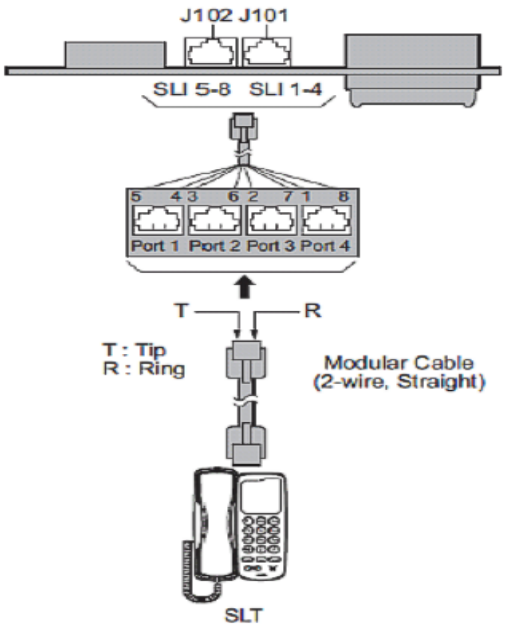


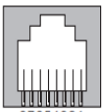
Figure 7

Connections and Pin Outs

- IP4WW-080E-B1 - 8 port digital station card
- IP4WW-008E-B1 - 8 port analog station card

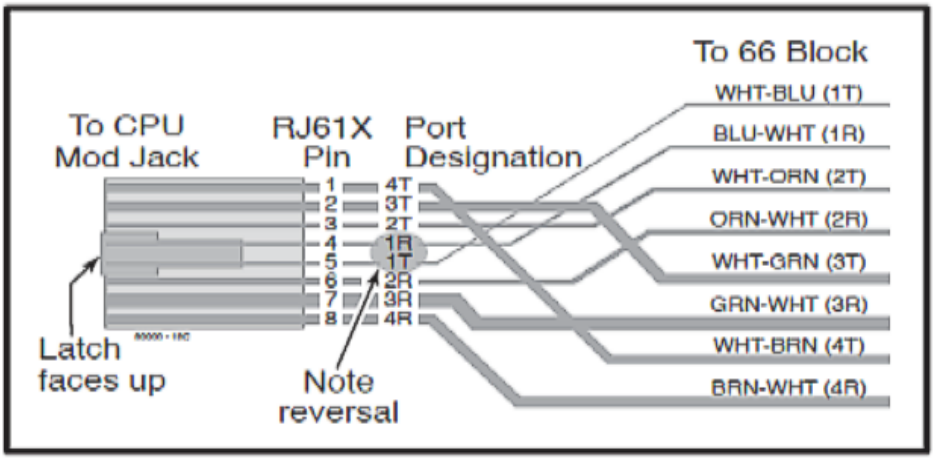






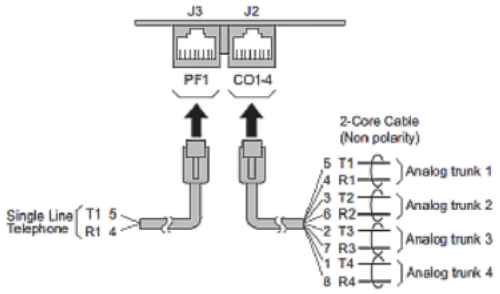
Pin Number	J101, J102 Connections (RJ61)
1	T4 (Tip for Port 4)
2	T3 (Tip for Port 3)
3	T2 (Tip for Port 2)
4	R1 (Ring for Port 1)
5	T1 (Tip for Port 1)
6	R2 (Ring for Port 2)
7	R3 (Ring for Port 3)
8	R4 (Ring for Port 4)

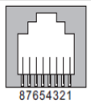
RJ-61X Wiring Diagram



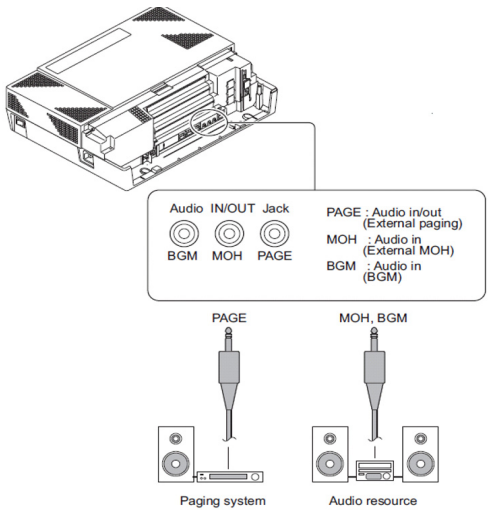
Connections and Pin Outs (continued)

• IPWW-4COIDB-B1 - 4 port analog trunk card



	Pin No.	CO1-4 (J2): CO Port Connector (RJ-61)	PF1 (J3): PF Tel Port Connector (RJ-61)
 87654321	1	T4 (Tip for port 4)	-
	2	T3 (Tip for port 3)	-
	3	T2 (Tip for port 2)	-
	4	R1 (Ring for port 1)	R1 (Ring for port 1)
	5	T1 (Tip for port 1)	T1 (Tip for port 1)
	6	R2 (Ring for port 2)	-
	7	R3 (Ring for port 3)	-
	8	R4 (Ring for port 4)	-

External Paging/Music on Hold/Background Music



External Paging Output Specification	
Item	**Specification**
Output Impedence	600 ohms @ 1kHz
Output Level	Nominal 250 mV (-10dBm)
Maximum Output	400mV RMS

BGM/External MOH Input Specification	
Item	**Specification**
Input Impedence	600 ohms @ 1kHz
Input Level	Nominal 250 mV (-10dBm)
Maximum Input	1 V RMS

Apply Power

Step 8

Once all the hardware has been installed plug the power cable into the AC outlet. During the initial install you must always perform a **Cold Start** (System Initialization). Perform the **Cold Start** following the steps outlined below:

1. Verify the system is powered **OFF**.
2. Push in and **hold the Red Load Button** on the CPU.
3. While **continuing to hold the Load Button**; turn the power switch to the **ON** position on the Main KSU.
4. Continue holding the Load Button for approximately 3 seconds or until the **Status LED D5** starts to flash red.
5. **Release** the Load button.
6. When the system has completed reloading software (approximately 2 minutes) the Run LED is flashing blue on the CPU and connected Multi-Line phones show Time, Date, and Extension number.

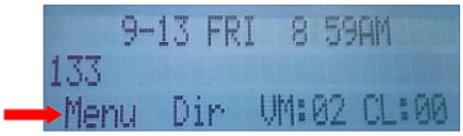
Verify Software

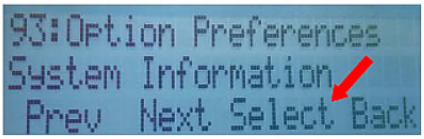
Step 9

To verify the software version from any multiline terminal:

1. Press the **Menu** softkey.
2. Dial **93** on the dial pad.
3. Press the **Select** softkey and the version is displayed in the top row of the phone.

If the software version of the SL1100 is lower than the software version that was downloaded from www.necntac.com an upgrade must be performed. If an upgrade is required follow the **SL1100 Upgrade** steps at the end of this document.





Important: Please Read Below

At this point the **SL1100 system is fully operational** with the following default settings:

- All lines are set to Loop Start with Caller ID enabled.
- All lines are a member of Ring Group 1 and when an inbound call is made on one of these lines the following extensions will ring:
  - 101
  - 102
  - 103
  - 104
  - 105
  - 106
  - 107
  - 108
- All lines are in trunk group 01. When any extension goes off hook and dials the digit 9 the first available trunk in trunk group 1 will be selected.
- Extension 101 is the operator any user can reach extension 101 by dialing 0 or by dialing 101.
- Extension 101 has administrator features enabled and is assigned to class of service 15. All other extensions are assigned to class of service 1 which does not have administrator features enabled.
- On all stations line keys 1 ~ 12 are assigned as lines 1 ~ 12. Any user can press any one of these lines and make an outbound call. There is no code restriction enabled on any of the stations by default.
- If a Voice Mail Compact Flash was installed the pilot number of Voice Mail will be 3999.
- If a Voice Mail Compact Flash was installed all extensions have a personal mailbox assigned.

The following sections will show you how to connect to the SL1100 (using PCPro) and make configuration changes.

IP Addressing

Connection Step 1

Before connecting to the SL1100 you must verify the IP Address. By default the SL1100 is enabled to receive its IP address, Subnet Mask, & Default Gateway from the Network's DHCP Server.

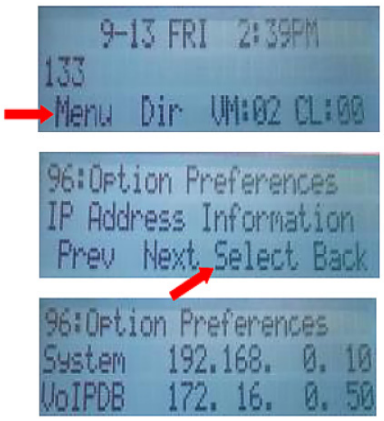
If a DHCP server does not exist the following chart displays the IP Address of the SL1100 along with the IP Address to assign on the PC which will be used to configure the system.

	SL1100 IP Address	SL1100 Subnet Mask	Your PC IP Address	Your PC Subnet Mask
VoIPDB Installed	172.16.0.10	255.255.0.0	172.16.0.11	255.255.0.0
No VoIPDB	192.168.0.10	255.255.255.0	192.168.0.11	255.255.255.0

Connection Step 2

If the SL1100 receives an IP address from a DHCP server, complete the following steps from any multiline telephone to verify the IP Address:

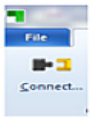
1. Press the Menu softkey.
2. Dial 96 on the dial pad.
3. Press the Select softkey and two IP Addresses will be displayed:
   - If the VOIPDB is installed use the VoIPDB IP Address.
   - If the VOIPDB is not installed use the System IP Address.



Verify the IP Address

Connection Step 3

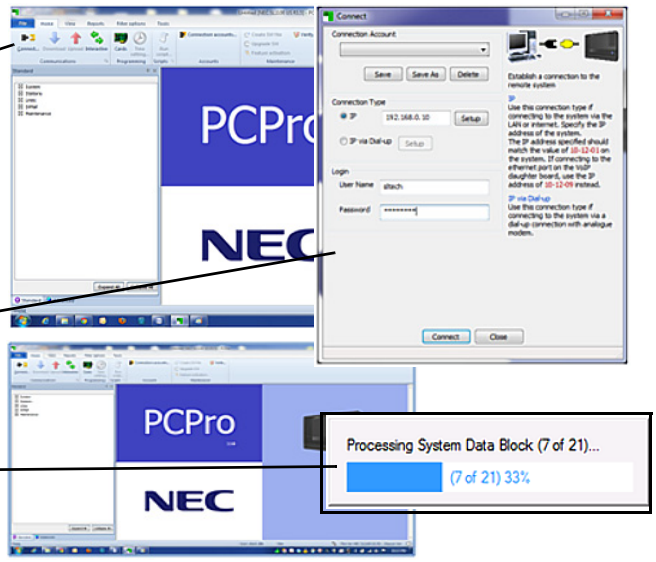
Launch PCPro and click on the connect icon.



After clicking the connect icon, the "Connect" screen is presented. Enter the IP Address of the SL1100, the User Name, and the Password.

- User Name = **sltech**
- Password = **12345678**

Once the PCPro connection has been established, a download of the system data will automatically begin

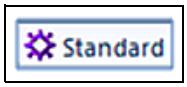


The SL1100 may require a static IP address within the customer's current network scheme. To change the IP Address of the SL1100 follow the steps outlined below:

Change IP Address Step 1

To change the IP Address of the SL1100, you must first **disable** the **DHCP Client**.

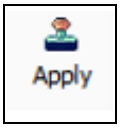
On the bottom left-hand corner of PCPro click on the **Standard** tab.

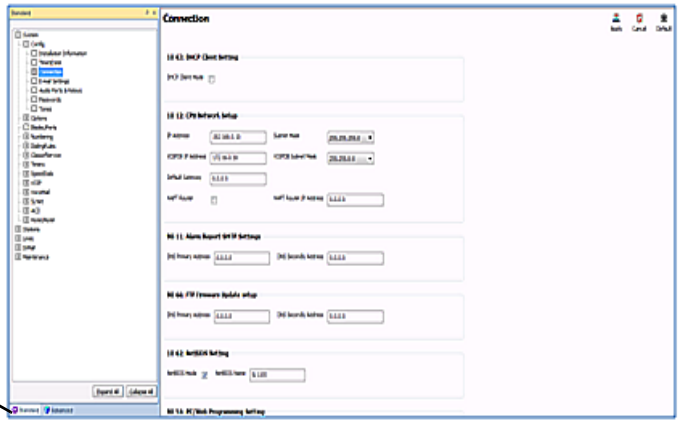


Now expand the tree menu to the following location: **System/Config/Connection**

Make sure DHCP Client Mode is **disabled** (not checked).

After making any changes on this page click the Apply icon in the top right-hand corner of PCPro.





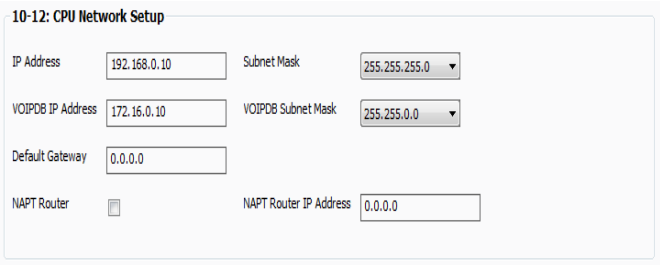
Change IP Address Step 2

<u>If a VoIPDB is installed:</u>

- VOIPDB IP Address: Assign the new IP Address for the SL1100.
- VOIPDB Subnet Mask: Assign the new subnet mask for the SL1100.
- IP Address: Assign an IP Address of 0.0.0.0 (to prevent IP conflicts).

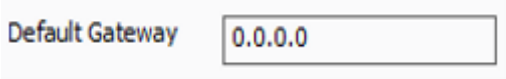
<u>If a VoIPDB is not installed:</u>

- IP Address: Assign the new IP Address for the SL1100.
- Subnet Mask: Assign the new subnet mask for the SL1100.
- VOIPDB IP Address: Assign an IP Address of 0.0.0.0 (to prevent IP conflicts).

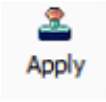


Change IP Address Step 3

Assign the SL1100's default gateway in the Default Gateway text box.

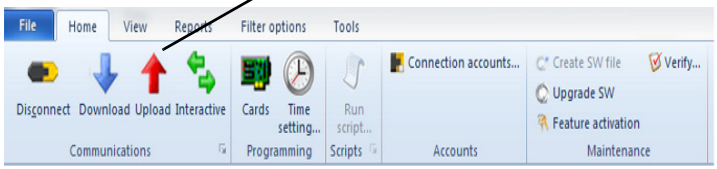


After all changes are made, click the **Apply** Icon in the top right-hand corner of PCPro.



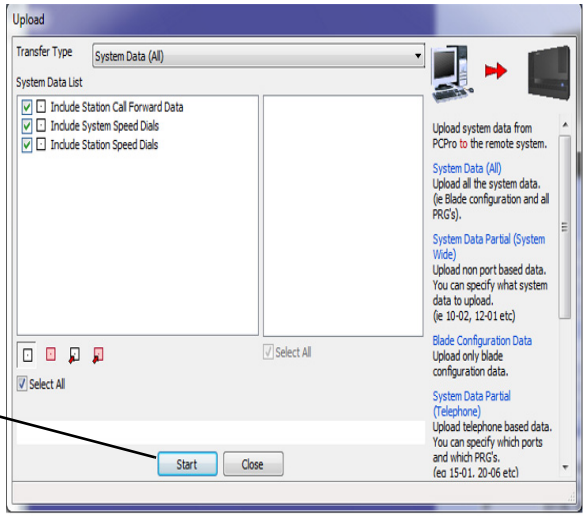
Change IP Address Step 4

Once all changes are final, the data needs to be sent to the SL1100 by clicking the **Upload** Icon in the top left-hand corner of PCPro.



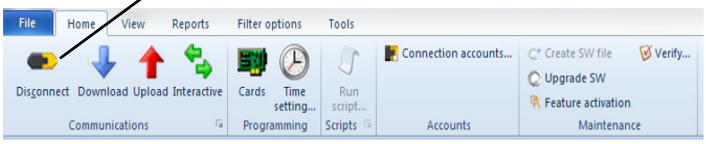
Once the Upload Icon has been pressed, a new Upload Window is presented. Click **Start**, to begin the upload.

Once the data has finished uploading, click the **Close** button to complete the process.



Change IP Address Step 5

After completing the upload you must disconnect PCPro by clicking the **Disconnect** Icon.



The SL1100 must be reset for the IP Address to take effect.

Change IP Address Step 6

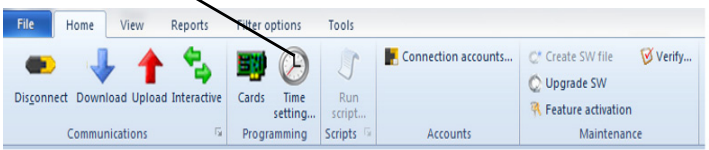
1. After disconnecting PCPro wait **30 seconds** for the data to write to memory.
2. Turn OFF the SL1100, by setting the power switch on the MAIN KSU to the OFF position.
3. Turn ON the SL1100, by setting the power switch on the MAIN KSU to the ON position.

When the SL1100 comes back on line the new IP Addresses are applied.

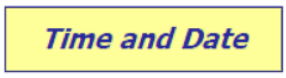
The SL1100 has an internal clock, which can be used to control the time and date, or the SL1100 can connect to a NTP server and receive time and date information. The below section shows the steps involved when using the internal clock to control the time settings.

Change Date/Time Step 1

Connect to the SL1100 with PCPro. Once PCPro is connected the **Time Setting** icon is available.

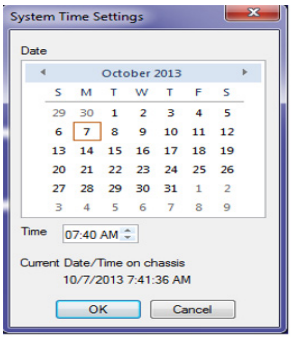


Click on the Time Setting icon to launch the System Time Settings window.



Change Date/Time Step 2

1. Select the **Month** and **Date** from the calendar.
2. In the Time Picker, specify the **current time**.
3. Click OK to change the current system date and time.

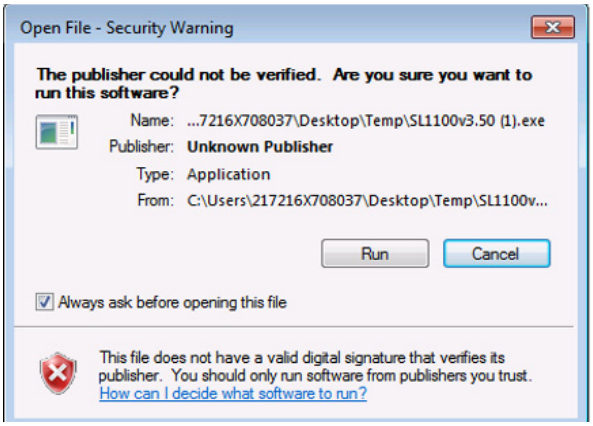


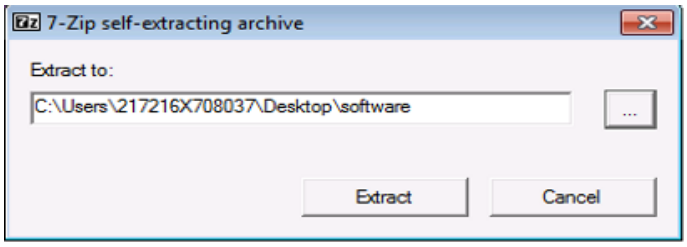
Note: You must change the state of the phone to see the new time display (e.g. go off hook, then back on hook).

Upgrade Instructions for the SL1100

SL1100 Upgrade Step 1

Double Click the self executable software file that was downloaded from the www.necntac.com website. Click on Run to begin the extraction.

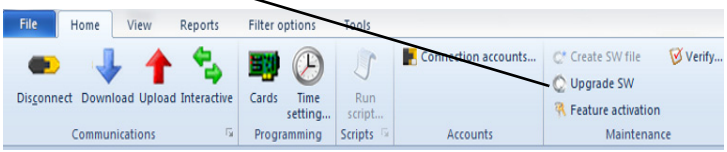




1. Take note of where the software is being extracted to.
2. Click the **Extract** button and the software upgrade files are saved in the “Extract To” location.

SL1100 Upgrade Step 2

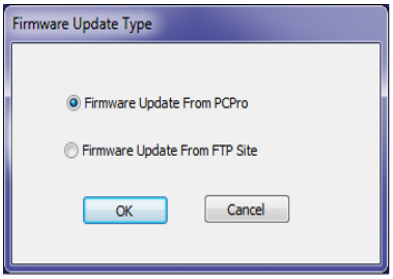
Connect to the SL1100 with PCPro. Once PCPro is connected the **Upgrade SW** icon is available.



Click on the Upgrade SW icon to launch the Firmware Update window.

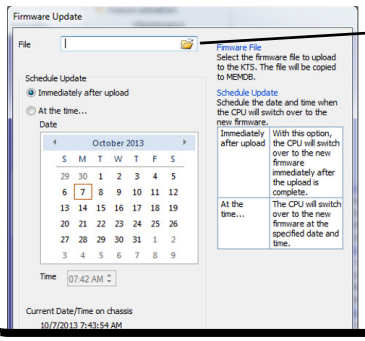
SL1100 Upgrade Step 3

Select the “Firmware Update from PCPro” radio button and then click **OK**.

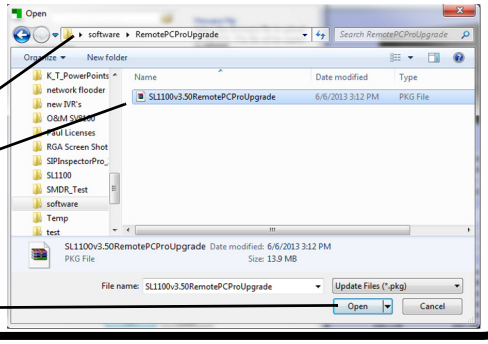


SL1100 Upgrade Step 4

Connect to the SL1100 with PCPro. Once PCPro is connected the **Upgrade SW** icon is available.



1. **Browse** to the location to where the self extracted file was stored in step1.
2. Select the file that is stored in the **RemotePCUpgrade** folder.
3. Click on **Open**.

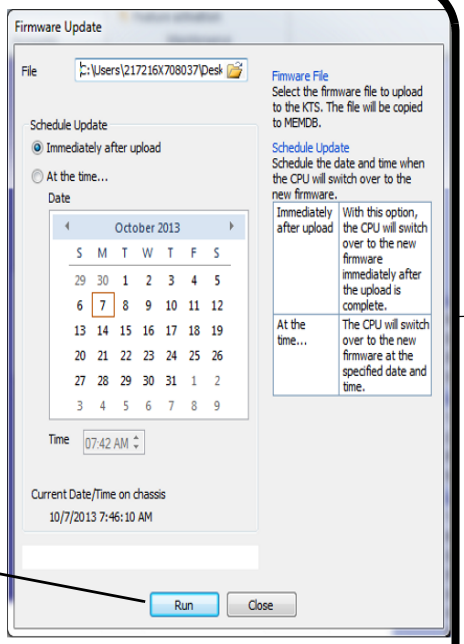


SL1100 Upgrade Step 5

In the schedule update box there are two possible upgrade methods that may be selected. They are:

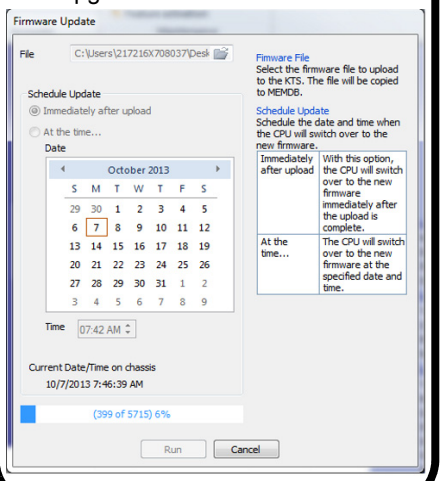
- Immediately after upload - As soon as the file has finished uploading, the SL1100 will automatically reset itself and perform the upgrade.
- At the time... - At the time and date specified the SL1100 will automatically reset itself and perform the upgrade.

Click **Run** to begin the upload of the software to the SL1100.



SL1100 Upgrade Step 6

Once the file has been loaded, the system resets at the defined time (or immediately after) and then performs the upgrade.



SL1100 Upgrade Step 7

Once the system comes back on-line, verify the software version following the steps below.

To verify the software version from any multiline telephone:

1. Press the **Menu** softkey.
2. Dial **93** on the dial pad.
3. Press the **Select** softkey and the version will be shown in the top row of the display.

If you have not done so already please visit the www.necntac.com website and view the **SL1100 training videos**.

Training Videos

Log in to the www.necntac.com website using your support ID.

Once logged in, click the following link:

- **Foundation / Quick Start Videos**

All SL1100 documentation including Manuals, Help Guides, Training Videos, and Knowledge Base articles may be found on this web site.

This website is also used to create Incident Reports for support from the National Technical Assistance Center.