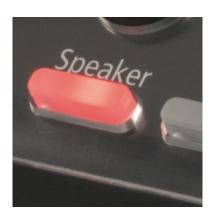


The SL2100 Quick Install Guide: **ISDN PRI** Trunks















This guide explains the installation, configuration and operation of the SL2100 Telephone System including the exchange line and telephone connections.

Further information is available on BusinessNet.

Please keep all information supplied for future reference.

Regulatory Notice.

Refer to the Declaration of Conformity shown in the SL2100 Hardware Manual Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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What is the SL2100?

The SL2100 system consists of a chassis unit with a dedicated slot for the CPU card and four universal slots for interface cards. Each universal slot supports an extension interface card, optionally each extension interface card can have a trunk interface daughter card mounted.

The chassis unit is ventilation cooled (no fan) and can be wall mounted or rack mounted with the optional rack mount shelf.

Up to three chassis units can be connected together to provide a total of twelve universal slots.

Interface cards are available for Analogue and ISDN trunks, proprietary SL2100 terminals and analogue telephones.

SIP Trunks and IP terminals are supported without the need for additional system hardware as eight VoIP resources are built in to the CPU card. VoIP resources can be expanded to 16 by adding the optional VOIPDB card and further to 128 with licenses.



InMail voicemail is also available either using the built in storage of the CPU-C1-A or by adding the optional SD card.

The built in InMail with the CPU-C1-A card provides 4channels and 2hours of storage, this can be expanded to 15hour or 120hour by adding the SD card to the CPU.

The CPU-C1 requires the SD card installed to provide InMail voicemail.

Both CPU's have built in VRS with 4channnels and 100 messages with 2hours message storage.

All equipment will operate in the default/factory setting when the SL2100 is installed. With the default settings:

- Each telephone will function and is assigned an extension number.
- Calls received on the PRI trunk lines will ring at telephone number 200.
- Each telephone can make outside calls by dialing 9.
- Each trunk line is presented at a Function Key with busy lamp indication.

The system can be easily modified using SL2100 PCPro which has Quick Installation wizards for the majority of system settings.

Outside lines (ISDN PRI Trunks) included in this guide

You can install one PRI trunk interface daughter card within the SL2100 main unit. Trunk cards are mounted onto any extension interface card which is then installed into any of the four universal slots. Up to three PRI trunk interface cards can be installed over three chassis units (one main and two expansion).

- The trunk interface card has one PRI connections providing up to 30 trunks
- The number of trunks available is controlled by the public network provider
- The trunks connected can be E1 or T1 (US/Canada/Japan)
- Default connection type is E1
- Each PRI circuit is connected via an RJ45 8/8 way socket using a standard patch lead

Parts available for the SL2100

Not all parts are included within this guide, please refer to the other SL2100 Quick Install Guides or the SL2100 Hardware Manual for a full description and installation instructions of all parts available.

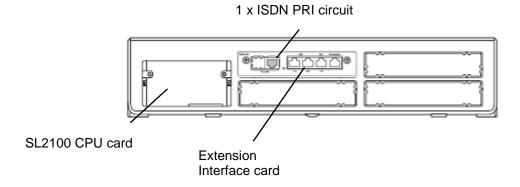
		·	
IP7WW-4KSU-C1	SL2100 Chassis unit		
IP7WW-1PRIDB-C1	ISDN PRI card	Included within this guide	
IP7EU-CPU-C1	SL2100 CPU card		
IP7EU-CPU-C1-A	SL2100 CPU card with pre- installed IP licenses and 2hour InMail	moladda wallin allo galad	
IP7WW-EXIFB-C1	Expansion interface card	Interface card required to connect to the expansion chassis	
IP7WW-EXIFE-C1	Expansion interface card	Interface card installed into the expansion chassis	
IP7WW-SDVMS-C1 IP7WW-SDVML-C1	InMail voicemail	Provides 15/120 hour voicemail	
IP7WW-3COIDB-C1	Analogue trunk daughter card	3 analogue trunks, max. 4 per unit	
IP7WW-2BRIDB-C1	2BRI card	2 x BRI circuits, 4 trunks	
IP7WW-000U-C1	Trunk carrier card	Require when 082E or 008E card is not available to install the 2BRIDB,1PRIDB or 3COIDB card	
IP7WW-VOIPDB-C1	VOIP card	16 IP resources, expand to 128 with licenses	
IP7WW-082U-B1	8 Digital Extension (2wire) and 2 SLT extension card	8 digital and 2 SLT extension interfaces, max 3 per unit	
IP7WW-308U-A1	8 Hybrid Extension (4wire) extension card	8 hybrid extension interfaces, max 4 per unit	
IP7WW-008U-C1	8 Analogue extension card	8 analogue extension interfaces, max 4 per unit	
IP4WW-Battery Box	Battery box	External battery box for power fail backup (batteries not included)	
161893001-A	Rack mount shelf	Rack mount for SL2100 chassis unit	

Refer to Prophix for all parts and licenses available in your region.

SL2100 Terminals are included in separate Quick Install Guides

System Overview

SL2100 chassis showing the CPU card and an extension interface card with 1PRIDB daughter card installed.



The slots are labelled S0~S4 on the front of the chassis. Slot S0 has the CPU card installed, slots S1~S4 are universal slots for any interface card.



Note – Slot 4 does not support digital extensions, an IP7WW-082U-B1, IP7WW-308U-A1 or IP7WW-008U-C1 card can be installed but will only support analogue extensions, any trunk daughter card is supported in slot 4.

SL2100 Trunk capacity for a single chassis

Installation Procedure

- Unpack all items and check for damaged or missing parts.
 See page 8 for details.
- Install the trunk card See page 9 for details.
- 3 Install the CPU card See page 9 for details.
- 4 Mount the SL2100 system on the wall or in the rack

See page 14 for details.

Connect the telephones.

! Within suitable cabling distance from the exchange lines. ! Within suitable distance from a power socket and Earth point. ! Check the other installation considerations in section 3.

See separate Quick Install Guide for the terminal type being installed

6 Connect the External MOH

Device.

5

Optional

See separate Quick Install Guide for the terminal type being installed

- 7 Connect the exchange lines. See page 1817 for details.
- 8 Connect the power and switch on the SL2100.
 See page 19 for details.
- 9 Configure the SL2100 to the customer's requirements.
 See page 2020 for details.

Use SL2100 PCPro software

Security

Ensure the system is protected against Toll Fraud and has secure maintenance passwords

! Consider the operation during power failure

Will require additional parts if required for a PRI system

Power Fail Operation

It is not possible to have power fail operation with ISDN PRI trunks.

If power fail operation is required by the customer then it is recommended that additional analogue trunks are installed.

1- Unpack the SL2100 System

SL2100 Chassis unit

- 1 x SL2100 system
- 1 x Wall mounting template
- 1 x Power cord (selected regions)
- 4 x Fixing screws (M4.1 x 25mm)

SL2100 CPU card

1 x CPU card

1 x Lithium battery (CR2032)

SL2100 Extension Interface card

1 x Interface card

SL2100 1PRIDB card

1 x 1PRIDB card

1 x Screw & spacers

Additional Items Required:

- Cross head screwdriver.
- Utility knife or small cutters to remove the plastic knockouts
- 4 Wall fixing plugs suitable for the type of wall.
- Solid wire for extending telephone cabling:

Recommended cable type: Twisted pair (CW1308 or similar specification)

Conductor diameter: 0.4 to 0.6 mm

Maximum cable length: (with 0.5 mm diameter cable)

SL2100 system telephone – 300 metres Normal telephone (SLT) – 1125 metres

If you need to extend the exchange line cables:

ISDN30 lines must usually be extended by the Network Provider

2- Install the ISDN PRI Trunk Card

The SL2100 chassis does not have any trunk ports pre-installed, you install the trunk card of your choice. ! Ensure the SL2100 is powered off before removing/installing any card.

ISDN PRI Trunk card (1PRIDB-C1) T/S Mode setting

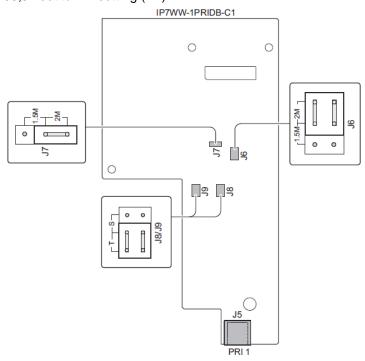
The card is supplied with the links set to T-Point (Trunk interface connection). Check the link settings before installing the card.

J8, J9 set to the T position.

ISDN PRI Trunk card (1PRIDB-C1) E1/T1 setting

The card is supplied with the links set to E1. This is suitable for most countries except US/Canada/Japan. Check the link settings before installing the card.

J6,J7 set to 2M setting (E1).



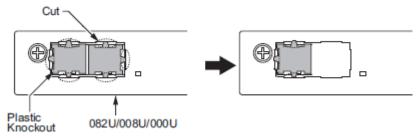
Setting the links to S position will set the PRI circuit to Station interface connection, this mode is not described in this guide.

The ISDN 1PRIDB-C1 card is a daughter card that must be installed onto any of the following interface cards:

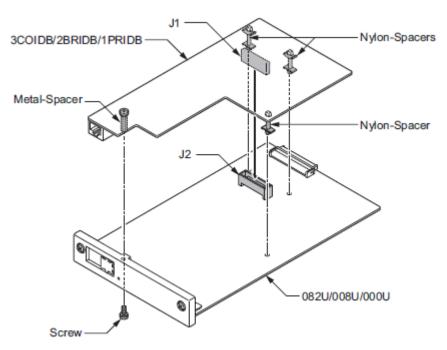
IP7WW-000U-C1	Trunk carrier card
IP7WW-082U-B1	8 Digital Extension (2wire) and 2 SLT extension card
IP7WW-008U-C1	8 Analogue extension card

Each interface card can have one daughter card installed.

Remove the plastic knockout from the front panel of the interface card. The PRI interface blade only requires one of the two knockouts to be removed. Check alignment of the knockouts with the daughter card.

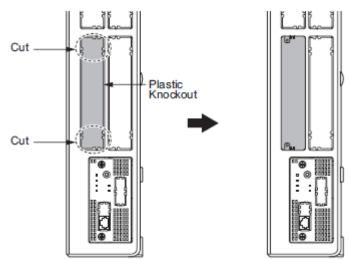


The 1PRIDB card is supplied with three Nylon pillars already installed and a securing screw and metal spacer.



Align the 1PRIDB board Nylon spacers and connector with the SL2100 interface card and push in firmly. Secure the 1PRIDB with the screw through to the metal spacer.

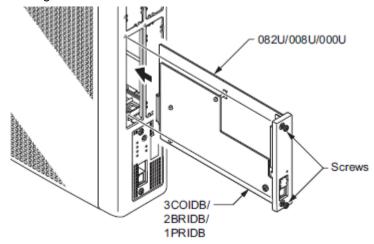
Remove the plastic knockout from the slot on the front of the SL2100 chassis.



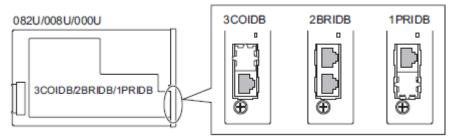
Any universal slot can be used, it is recommended that you install the cards using slot order 1->4. Slots are identified S1~S4 on the front of the chassis.

Note – the knockout can not be replaced once removed; there are no blanking covers available, be sure to remove the correct knockout.

Insert the interface card with 1PRIDB daughter card mounted into the SL2100 universal slot, ensure the card slides into the guide rails and tighten the two screws to secure the card.



The type of trunk daughter card installed can be identified by the RJ45 sockets visible on the front of the interface card.



3- Install the CPU Card

The SL2100 chassis does not have any CPU card pre-installed, you install the card of your choice.

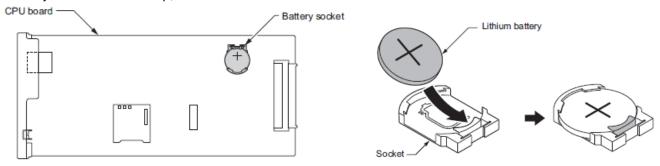
There are two CPU card available:

IP7EU-CPU-C1	SL2100 Main Processor Board • VoIPDB Daughter Board Connector : 1 • EXIFB Daughter Board Connector : 1 • SD Card Slot : 1 • Built-in 4ch of VRS (Not supported for VM without SDVML/SDVMS) • Built-in 8ch VOIP resources
IP7EU-CPU-C1-A	The hardware is same as IP7EU-CPU-C1. The feature Includes: • Built-in 4ch of VRS/InMail voicemail • 4pc of SL2100 IP TRUNK-01 LIC • 4pc of SL2100 IP EXT-01 LIC

Ensure the SL2100 system is powered off before removing or inserting the CPU card.

Fit the memory backup battery (CR2032 type)

The + symbol must be on top, as shown below.



Fit the optional items to the CPU card, if applicable:

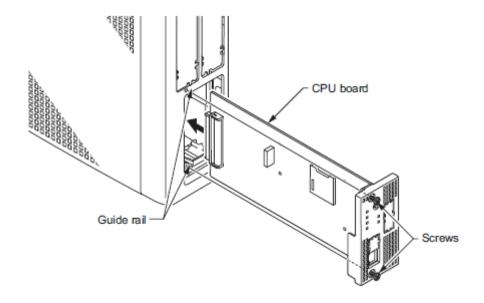
The title optional herits to the or o card, it applicable.		
IP7WW-SDVMS-C1 / P7WW-SDVML-C1	SD Card for VRS/VM (InMail) Storage 15/20 hour	
IP7WW-EXIFB-C1	System Expansion Bus Daughter Board (mount to CPU) • 2 Bus connectors for Expansion Chassis • Additional Telephony Resources • VRS/VM (InMail) Channels expansion (up to 16ch) • Analog Modem (V.34)	
P7WW-VOIPDB-C1	VoIP GW Daughter Board (mount to CPU) 16ch VOIP resources, maximum 128ch with licenses	

Refer to the Quick Install Guide for the type of terminals you will be connecting:

- SL2100 Quick Install Guide InMail Voicemail
- SL2100 Quick install Guide VoIP

Note - Both CPU cards may not be available in your region.

Insert the CPU card mounted into the SL2100 CPU slot S0, ensure the card slides into the guide rails and tighten the two screws to secure the card.



4a- Wall Mount the SL2100 system

Installation Considerations:

- To avoid electric shock or damage do not plug in or turn on the system power before completing the installation.
- · Avoid working with the system during electrical storms.
- Use the power cord supplied with the product.
- Do not bundle power cords together, the cords may overheat.
- Ensure the system has a suitable Earth Ground connection.

Environmental Considerations – Be sure the system is not:

- In direct sunlight or in hot, cold or humid places.
- In dusty areas or in areas where sulfuric gasses are produced.
- In places where shocks or vibrations are frequent or strong.
- In places where water or other fluids may come into contact with the equipment.
- In areas near electric welders or machines that emit high frequency radiation.
- Near computers, microwaves, air conditioners etc.
- Near radio antennas (including shortwave).
- If you are installing the optional expansion cabinets ensure there is sufficient wall space and ventilation. Refer to the wall mounting diagrams below.
- 1 Allow 930mm x 875mm (W x H) wall space for the SL2100 system.

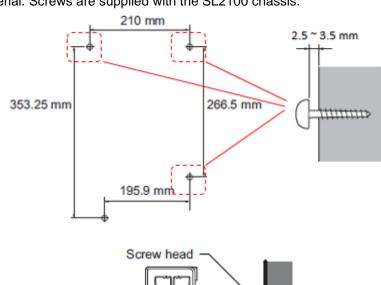
The system is 330mm x 435mm x 93mm (W x H x D)

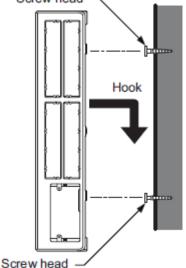
I You will need more space if you are installing optional expansion cabinets.
Refer to the SL2100 Hardware Manual for instructions.

Fit three screws to the wall in the holes shown. Leave 2.5~3.5 mm stand off.

Hook the SL2100 chassis onto the three screw heads.

Ensure the wall surface is flat and that you use the correct wall plugs for the type of wall material. Screws are supplied with the SL2100 chassis.





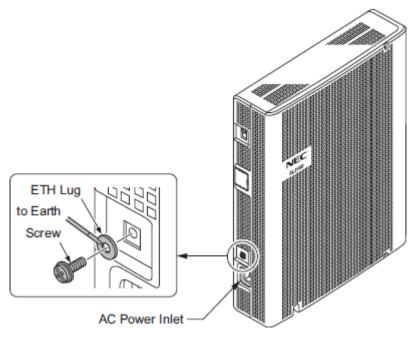
Secure the chassis to the wall with a screw.

NEC SUIS Fasten screw

2 Earth the SL2100 system.

Important. The system <u>must</u> have a permanent Earth Ground connection to a verified Earth point using a minimum of 14AWG/2.5mm² cable.

The Earth connection must have no other purpose than connecting to the SL2100 unit.



4b- Rack Mount the SL2100 system

Installation Considerations:

- If the system requires two or three chassis then each chassis will require a shelf plate within the 19 inch rack, must be space above each chassis for heat ventilation.
- Do not stack two or three chassis per one shelf plate.
- Use the rack mount shelf supplied by NEC.
 3rd party shelves may block the side ventilation and do not provide any securing method

! Ensure 44.5mm space above each chassis for ventilation. The shelf is oversize (100mm high) to ensure space is provided.

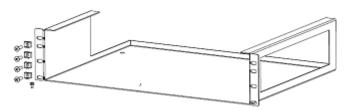
Confirm the location of the rack mount shelf and fit the four cage nuts supplied with the shelf

Fit the chassis into the rack mount shelf and secure with the screw supplied.

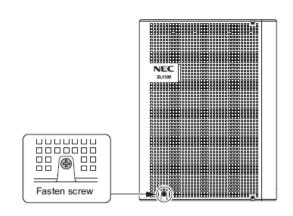
Fit the rack mount shelf + chassis into the 19 inch rack and secure the shelf with the four screws supplied 3U space will be required for each KSU.

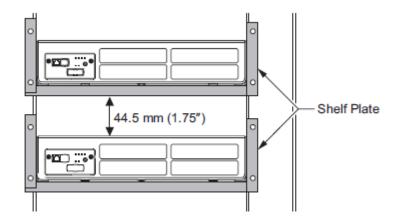
Rack mount shelf requires 448mm x 337mm x 100mm (W x D x H) within the rack. The AC power cable enters at the rear of the chassis, allow \sim 60mm for space at the rear.

Ventilation is required above the chassis.



You may need to connect the AC power cable and Earth Ground cable to the rear of the chassis prior to installing into the rack if you do not have sufficient space/access to do this afterwards.





5- Connect the Telephones

Refer to the Quick Install Guide for the type of terminals you will be connecting:

- SL2100 Quick Install Guide Terminals (Type A)
- SL2100 Quick Install Guide Terminals (Type B)

These guides also include details of connecting the following items:

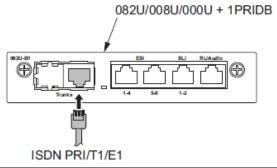
- Doorphone units
- DSS consoles

6- Connect the External Music on Hold Device

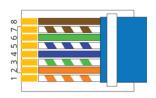
Refer to the Quick Install Guide for MOH and External Audio.

7- Connect the Exchange Lines

The SL2100 chassis does not have any trunk ports pre-installed, you install the trunk card of your choice.



ISDN PRI circuit	Trunk port allocation
Circuit 1	Trunk ports 1-30



The SL2100 1PRIDB card has an RJ45 connector.
Use a standard (straight through) RJ45 Patch cable to connect to the exchange lines.

PRI1	Pin No.	PRI T-bus connection	RJ45 Colour code
87654321	8	-	
	7	-	
	6	-	
	5	TB1	White/blue
	4	TA1	Blue/white
	3	-	
	2	RB1	White/Orange
	1	RA1	Orange/white

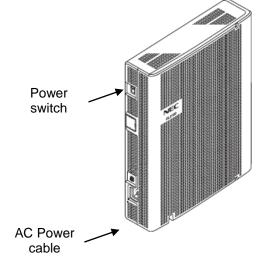
Note – The circuit of the 1PRIDB card can be set as ISDN S-Bus (Station Interface), this mode is not covered within this guide, refer to the SL2100 Hardware Manual for details.

8- Connect the Power & System Start Up

The power cable is plugged into the left side (wall mounted) or rear (when rack mounted) of the unit via an IEC-C13 connector.

Before connecting the power:

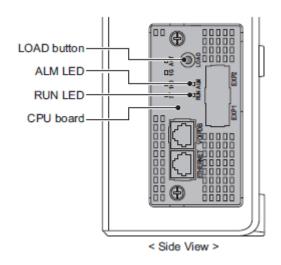
- Ensure the power switch is OFF
- Ensure the power is switched off at the source
- All cards are installed and secured correctly



System Start Up - First Time

! The first time you start up the SL2100 it is important to clear the system memory. This will ensure that the system is set to the default/factory configuration.

1. Push and hold the LOAD Button located on the front of the CPU card.



Also referred to as 'COLD Start' can also be used at any time to delete the customer's configuration.

Warning – COLD Start should only be used when you want to delete the customer's configuration from the SL2100

CPU card.

- 2. Turn the power switch on
- 3. Continue holding the LOAD Button for approximately 10 seconds or until the ALM lamp on the CPU card lights.
- 4. Release the LOAD Button
- 5. When the system has completed reloading the system software (about one minute) the RUN LED is flashing green on the CPU card and the system phones will display the Time and Date.

Switching the SL2100 OFF

! Be sure that no calls are in progress otherwise they will be cut off.

Turn the power switch OFF at the SL2100 chassis.

System Start Up – Retain Customer Configuration

This is the normal operation for powering the SL2100 on.

Turn the power switch ON at the SL2100 chassis

9- Configure the SL2100

This Quick Install guide will cover the most frequently used configuration options. For advanced configuration please refer to the SL2100 Features and Specifications manual.

You must have SL2100 PCPro installed to your laptop/PC, this can be downloaded from BusinessNet, refer to the Quick Install Guide – SL2100 PCpro.

The SL2100 can also be configured via an SL2100 System phone or via a WebPro interface, these are not included within this guide.

Before you configure your system it is important that you:

- Have a diagram of your exchange lines and telephones.
- Plan your requirements before you start.

While you configure your system it is advised that you:

- Make a record of your configuration as you make each change.
- Make small changes, upload to the SL2100 and test the changes. Avoid making all your changes at once as this can make testing more difficult.

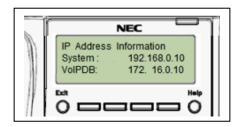
With the default/factory settings:

- Each telephone will function and is assigned an extension number (200~211).
- Calls received on the exchange lines will ring at telephone number 200.
- Each telephone can make exchange line calls by dialing 0.
- Each exchange line is presented at a Function Key with busy lamp indication.

Connecting PCPro to the SL2100

Connection default IP Address: 172.16.0.10 / 255.255.0.0

You can check the IP address at any SL2100 system phone: Press the centre Navigation Key and dial 841



Direct to Ethernet connector on the SL2100 CPU card.



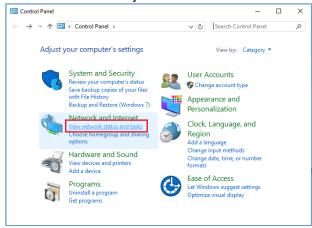
Via the customer's LAN.



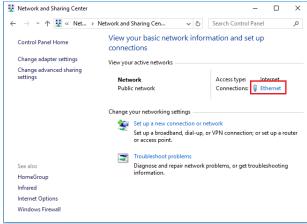
Change your PC IP Address

You will need to reconfigure your PC to have an IP address in the same subnet as the SL2100 during system commissioning. You will be able to change the IP address of the SL2100 during this process.

Your IP Address is adjusted in Windows Control Panel, select 'View network status and tasks'

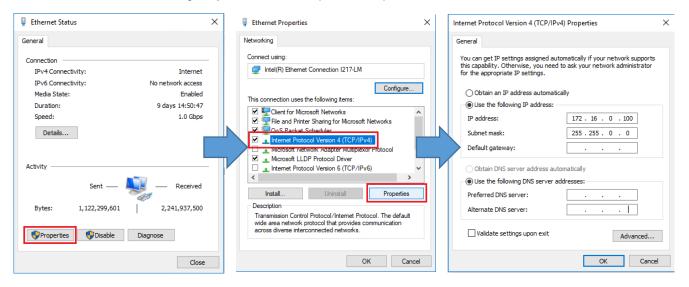


Edit the properties of your Ethernet adaptor



You will need to define an IP address in the same network as the SL2100. Recommended values are 172.16.0.100 / 255.255.0.0

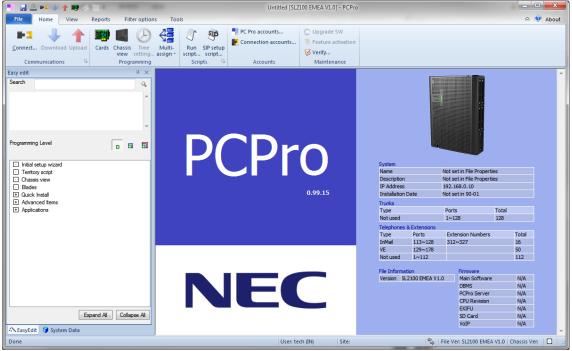
Gateway and DNS addresses are not necessary. Once commissioning of the SL2100 is completed you can return to this area and reconfigure your network adaptor to the previous values.



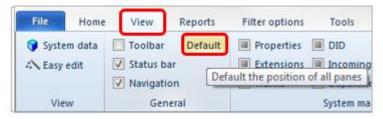
SL2100 PCPro

Installer level access: User Name: tech Password: 12345678





On first install you may need to setup the default sliding panes if you wish to use these. Select **View** tab and click **Default**



PCPro Initial Setup Wizard

Provides the basic setup for a newly installed SL2100.

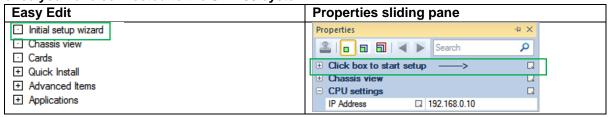
Step by step configuration of the following items:

- Country specific default setup
- Extension numbering plan
- Service code selection
- Trunk access code
- SL2100 system phone's Programmable Function Keys
- Trunk setup (only for the trunk types installed)
 - o Day and Night mode incoming call routing
 - Auto Attendant option
 - o Step on timer
 - Remove unused trunks
- System time and date

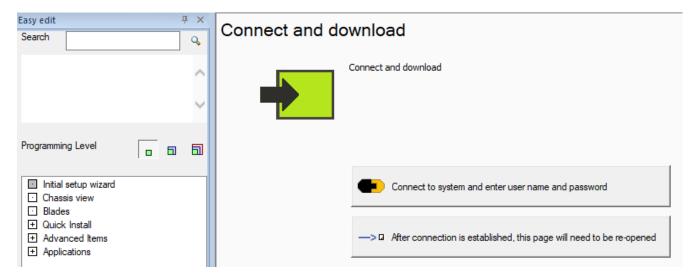
The Wizard downloads the SL2100 system configuration to detect the hardware installed, and then tailor the process to the system, so that you only have to setup the parts actually installed.

Start the Wizard

The Initial Setup Wizard can be started from either the Properties sliding pane or the Easy Edit navigation menu once you have connected to the SL2100 system.



Download the system configuration



! If a non default system configuration is downloaded the wizard will show a warning message, you can choose to continue or not.

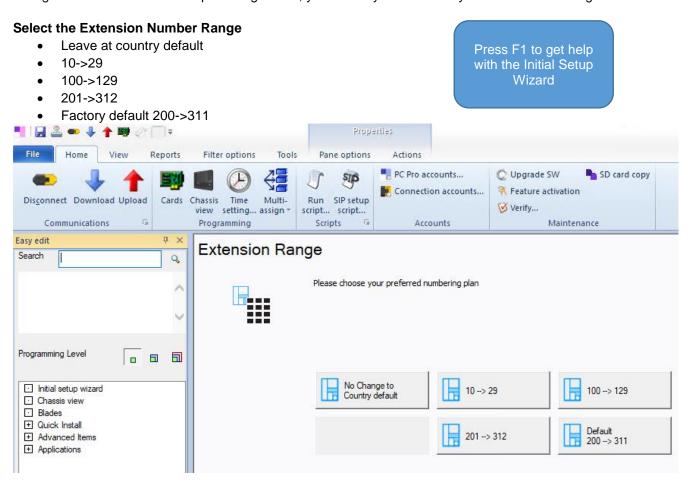
Once connected to the system, reload the Initial Setup wizard page.

Select your Country Default

This will setup the trunk access, Service codes, languages etc for the PBX

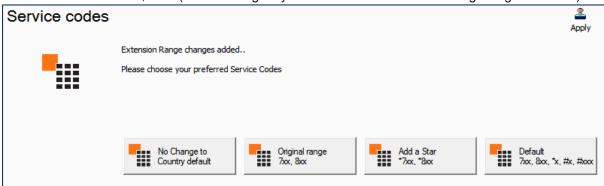


This guide is based on an example configuration, your country selection may have different settings.



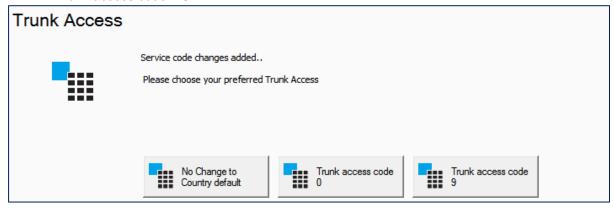
Select the Service Code Range

- Leave at country default
- Original range 7xx, 8xx
- Add a Star *7xx, *8xx (use this range if you want extension numbers beginning 7xx or 8xx)



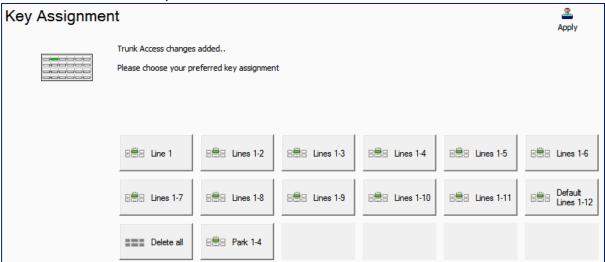
Select the Trunk Access code

- Leave at country default
- Trunk access code = 0
- Trunk access code = 9



Select the Programmable Function Key Assignment for all system phones

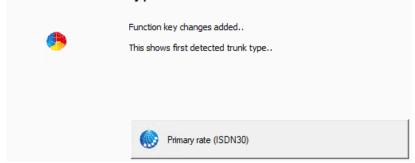
- Select from 1 to 12 lines (these are trunks connected to the SL2100)
- Delete all keys (you can setup your own key assignment later with PCPro)
- Select Park Hold keys 1~4



Detected Trunk Type

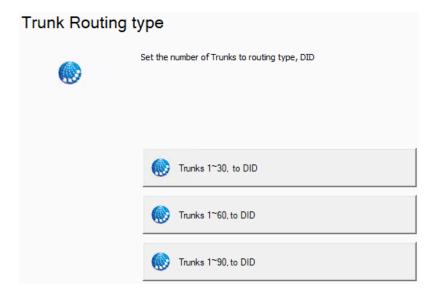
Will show the trunk cards installed within the SL2100 system, in this example only ISDN PRI trunks are installed.

Detected Trunk type

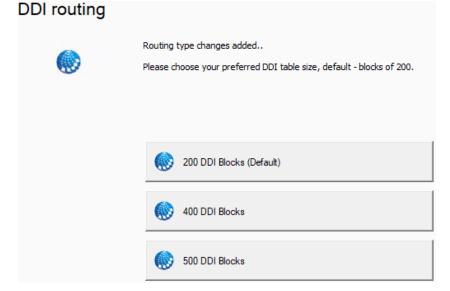


Click the 'Primary Rate (ISDN30)' button to continue.

Select the Trunk Routing Type. If you are not sure then select 1~30 to DID.



Tell the SL2100 system how many DID numbers you have. If you are not sure then select 200.



Click the Add Range standard button to create one or more incoming DDI ranges.

Note – You can use the Add Range button as many times as you wish to build your bespoke DDI routing.

Received digits – Enter the first number in the incoming DDI range that will be received from the network provider.

Name – Enter the name of the DDI range, this will be used for all DDI's, you can edit individual DDI's later

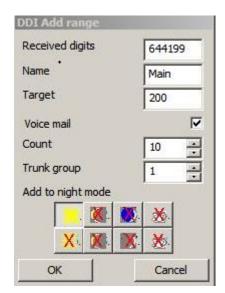
Target – Enter the first extension number that the range of DDI's will ring at. Leave blank if you don't want the DDI to ring at an extension

Voice mail – Check the box if each DDI should route to voicemail (requires the optional InMail card to be installed)

Count – Enter the total quantity of DDI numbers received from the network provider. This is the quantity of DDI's that will be setup by PCPro

Trunk Group – leave this at 1 as this is the default group.

Add to night mode – Uncheck each of the eight modes that you want the DDI to route. PCPro will only setup the DDI's for the unchecked modes.



DDI Add Range Example

The customer has a DDI range of 644150 to 644159 (block of 10 DDI's with 6 DDI digits received)

Day Mode:

644150 - Main Number to ring at a group of extensions

Target is blank as we will be routing directly to an IRG.

The IRG is setup in Incoming Ring Groups

Count = 1 as we are setting up a single DDI number

Uncheck the Day icon and click OK

644151~158 – Extension DDI's to ring at extensions 201~208 and if un-answered step on to the built-in Answer Machine

Target is the first extension number within the range of target extensions Count = 8 as we want to setup 8 DDI numbers (644151~158)

Built-in Answer Machine is setup within VRS Auto Attendant

644159 - Sales DDI to ring at a group of extensions and if un-answered ring at a another group.

Target is blank as we will be routing directly to IRG's. The IRG's are setup in **Incoming Ring Groups**.

Count = 1 as we are setting up a single DDI number

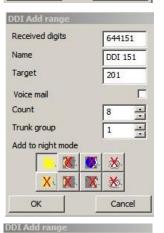
Night Mode:

All DDI's to route to the built-in Answer Machine

Built-in Answer Machine is setup within VRS Auto Attendant



DDI Add range Received digits 644150 Name Main Target 1 Trunk group Add to night mode X. OK Cancel



644159

Sales

X

Cancel

Received digits

Name

Target

Voice mail

Trunk group Add to night mode

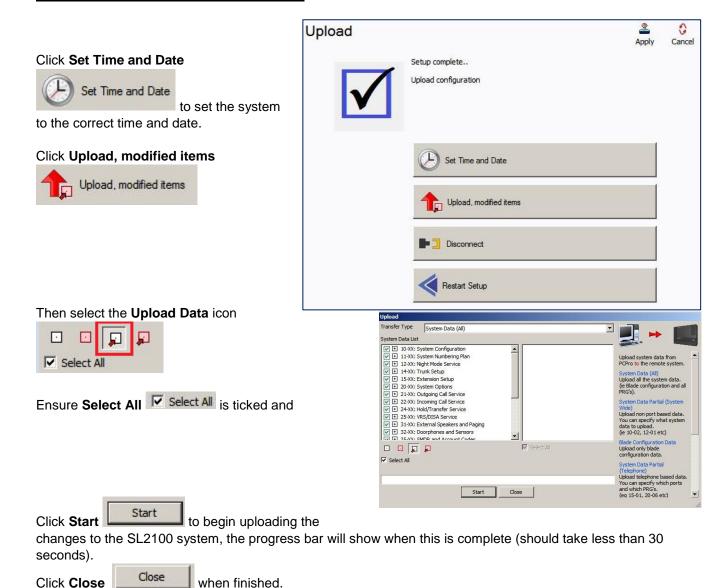
OK



You can repeat these steps as many times as required to setup all of your DDI's

Next When done, click to step on to the next wizard screen.

Set Time & Date and Upload to the SL2100



Repeat Wizard or Finish

If you've uploaded your changes then click **Disconnect** to finish PCPro will disconnect from the SL2100 system.

You can restart the wizard and choose a new configuration by clicking Restart Setup

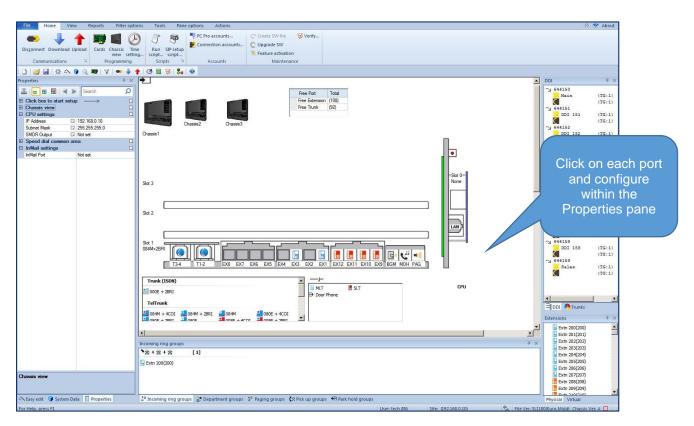


Each time you run the wizard it will effectively start with a new configuration, any other wizard settings within the SL2100 will be overwritten.

Make Additional Changes with PCPro

Note - Only required if the configuration you selected via the Initial Setup Wizard requires fine tuning.

Connect Connect and Download the SL2100 configuration, then click Chassis View within the Home TAB.



Click on any port (trunk, extension or audio) within the Chassis screen to view the properties within the Properties pane and make changes to the system configuration.

When done, click **Upload** to send the changes to the SL2100 system.

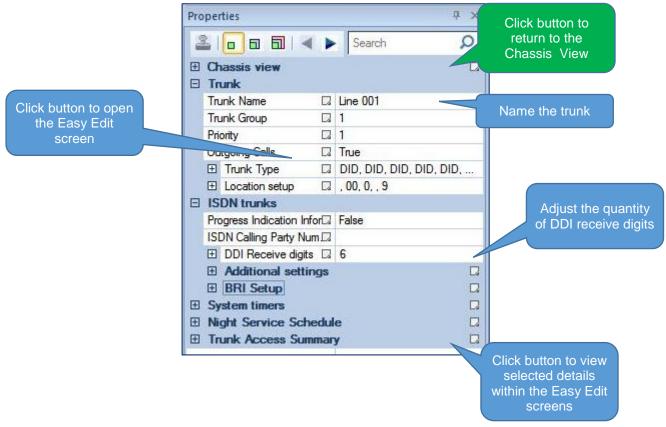


Note – Not all options are available within the Properties pane when you are offline (not connected to the SL2100), configuration within this guide is done online so you should always:

- 1. Connect to the SL2100
- 2. Download the system configuration (always download before you make any changes)
- 3. Then begin your configuration changes (remember to save the PCPro file to your PC)
- 4. Upload your changes and Disconnect

PRI Trunk Type

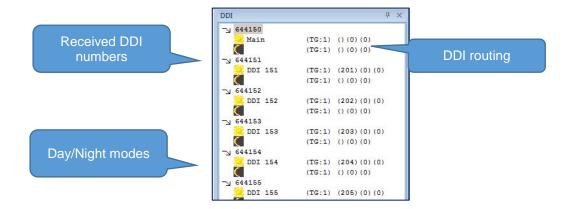
From the Chassis View click the trunk port you want to configure T34 T12 Within the Properties pane you can configure the ISDN PRI configuration.



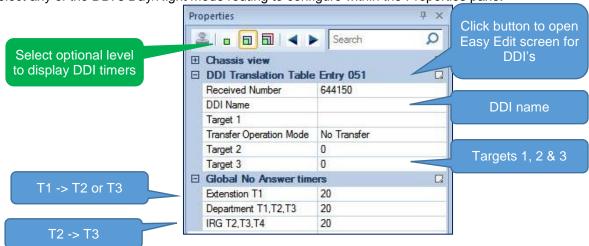
The trunk type was set to DDI by the Initial Setup wizard.

DDI Routing

Use the DDI pane to show a summary of the DDI's that were setup by the Initial Setup wizard.



Select any of the DDI's Day/Night mode routing to configure within the Properties pane.



- Target 1 = Extension number (leave blank if not required and next target will be used)
- Transfer Operation Mode = step on from Target 1 to Targets 2 or 3 (None, Busy, No-Answer or Busy & No-Answer)
- Target 2 & 3 = Incoming Ring Group number 1-25, VRS Auto Attendant 501-504 Note other options are available but not included within this guide.

The no answer step on timers are in seconds and apply to all DDI's.

Tip – Decide on the Night Modes and the quantity of Incoming Ring Groups required before you begin editing within PCPro, then build your Incoming Ring Group members and finally assign the groups to the DDI's for each mode.

Tip – Setup your Automatic Night Mode schedule (if required) before you configure the Incoming Call Routing.

Tip – Create your Incoming Ring Groups first (within the Incoming Ring Group pane) before assigning the Group number as the target for a DDI.

Incoming Ring Groups

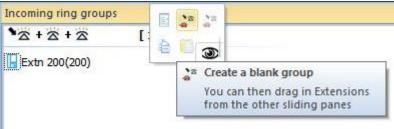
Incoming Ring Groups (IRG) are used for routing incoming trunk calls to a group of extensions.

- There are 50 groups available
- Each group can have up to 32 members
- A member can be any extension number
- An extension can be a member or more than one group
- All available members ring when a call arrives at the group
- Each group will queue incoming calls when all members are busy
- Longest ringing queued call is answered first

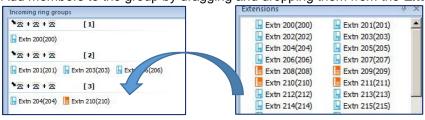
Setup the IRG member within the Incoming ring group pane.



Add New Group by right click within the pane and selecting Create a blank group



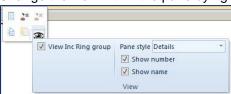
Add members to the group by dragging and dropping them from the **Extensions pane**.



Click any IRG to view the details within the Properties pane



Change the view within the pane by right clicking and selecting View





VRS Auto Attendant

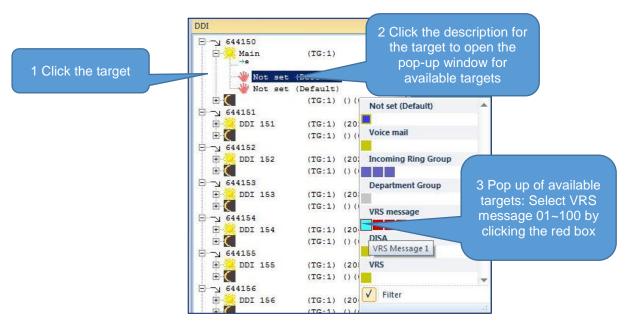
The SL2100 has a 4-channel auto attendant built-in that can be used to answer incoming trunk calls and either play a customer recorded greeting (eg to announce that the office is closed in Night Mode), give the caller a list of dialling options to route the call within the SL2100 system or take a message within the built-in Answer Machine.

There are 100 VRS greeting messages available, each 4 minutes maximum. There are 120 minutes of total recording time available for the 100 greetings and up to 10 Answer Machine messages. Note- the 120 minutes recording time is shared with InMail when using the CPU-C1-A card.

Tip - Refer to the SL2100 Multi-Line Terminal User Guide for instructions on recording the VRS greeting messages and listening to the Answer Machine messages. New message count will be shown at the system phone connected to extension port 01.

Within the DDI pane select the DDI and then the Night mode you want to route to Auto Attendant. Click the T2 or T3 target.

Click the description text for the target and the pop-up of available targets will show Select VRS message 01~100



Click the new target 4 VRS Message 1 to open the Properties pane

In the Properties pane select the single digit routing options for the Auto Attendant message, these are the digits that will be dialled by the incoming caller when answered by the Auto Attendant greeting.

Received digits are 1~0, *, # Next Attendant Message:

0 = Go to Destination Number

1~4 = Play VRS Message 1~100

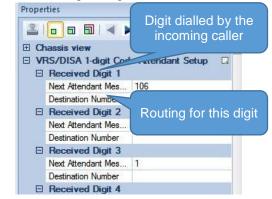
106 = Go to Answer Machine

Destination Number:

caller.

Any valid extension number = Ring the extension

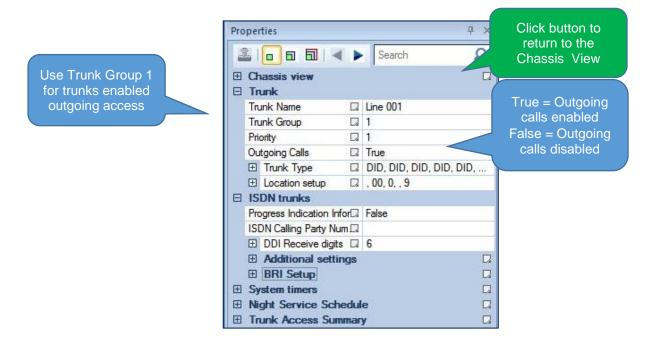
Tip – For all unused digits set the Next Attendant Message to play the same message number, this will repeat the greeting message again for the



Note – You can also setup Auto Attendant features using InMail voicemail, refer to the Quick Install Guide – InMail Voicemail.

Trunk - Outgoing Trunk Access

From the Chassis View click the Trunk port you want to configure Within the Properties pane you can enable/disable outgoing trunk access.

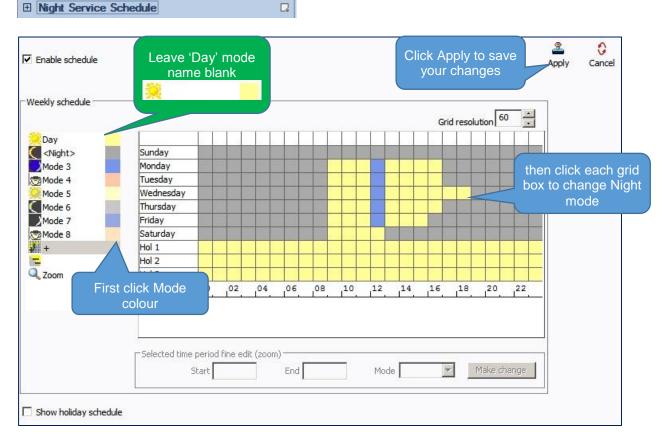


The Priority can be used to select the order the trunks are seized when a user dials the Trunk Access code.

Automatic Night Mode Schedule

Night modes are used to adjust the incoming ring assignment of the SL2100. Mode 1 (Day) and Mode 2 (Night) are used within the Initial Setup Wizard, additional modes can be added via this screen. The example below has Mode 3 used for lunch period.

From the Chassis View click the Trunk port you want to configure Within the Properties pane click the Night Service Schedule button



Enable the schedule Finable schedule to begin editing and use Automatic Night Modes schedule on the SL2100.

Double click the name of each mode to edit the name.

Tip – Leave the name of Day empty (blank) otherwise all phones will display the text **Day** on the display during normal working hours. (Day is shown on this screen shot only for your help).

Click the colour box of the mode and then click within the weekly grid to change the mode. Click Apply to save your changes.

Change the resolution of the grid to view 1/15/20/30/60 minute grid.

Check the 'Show holiday schedule' box if you want to setup fixed holiday days within each year.

Note – Automatic or Manual Night Mode operation can be used simultaneously or independently. Tip – Setup Programmable Function Keys if the customer is using Manual Night mode selection. Function Keys can be setup for each mode or you can have a single key that toggles Day-Night-Day.

Speed Dials

You can copy a list of speed dial names and numbers into the PCPro screen and then upload to the SL2100. Prepare a spreadsheet in the following format:

Number	Name
01234567890	A customer
01234567891	B customer
01234567892	C customer
01234567893	D customer

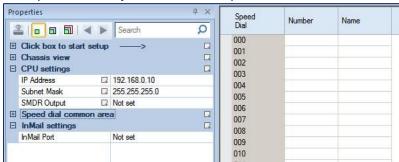
The name must be 12 characters or less.

Go to the Properties pane and click the Speed dial common area button

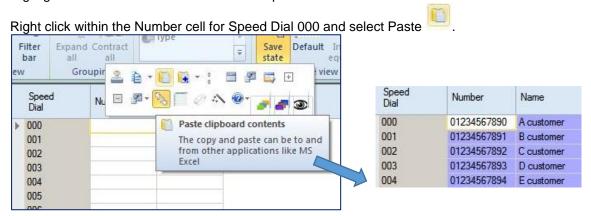


You may need to change the Property View Type roperty type to show the Speed dial common area button.

The Speed Dial Easy Edit screen will open



Highlight the numbers and names from the spreadsheet



Click Apply to save your changes.

There are 900 system speed dial entries available. System telephones can search via the Navigation Key (Menu-Contacts-Search) Single Line telephones use the Service Code + Speed dial number

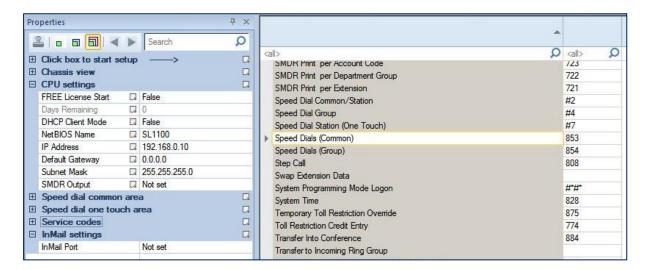
Service Codes

Go to the Chassis View and click the Service codes button

You may need to change the Chassis View Type to show the Service codes button.



Expand the details within the Properties pane



The number range for Service Codes was selected within the Initial Setup wizard.

You can Right click within the Service Codes screen and export the data to the clipboard.

Service codes can't be duplicated and must be within the defined number range you selected within the Initial Setup wizard

Extension – Programmable Function Keys

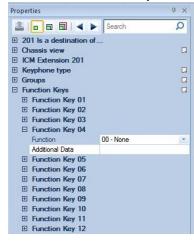
Programmable Function keys are available to all system telephones and can be used for many system features – DSS, Line keys, Night Mode selection, Call Forwards etc.



Go to the Chassis View and click on the extension port you want to configure EX EX EX

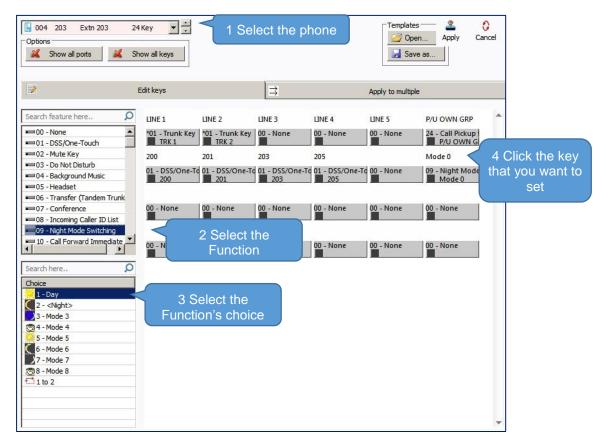
There are two options available to configure the Function key:

1. Within the Properties pane – allows selection of keys 1~12 and requires knowledge of the key types



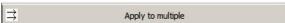
2. Within the Easy Edit screen – allows selection of all keys and is simpler to use Click the Function Keys button to open the Easy Edit screen





Select the phone you want to configure
Select the function from the list
Most functions will have a choice available, pick the one you want
Click the Programmable Function key to assign your selection
Repeat for other keys and phones
Click Apply to save your changes

You can copy the key assignment of the current phone to others by clicking the Apply to multiple button.

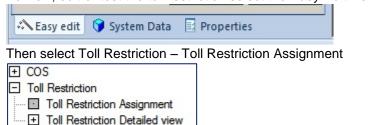


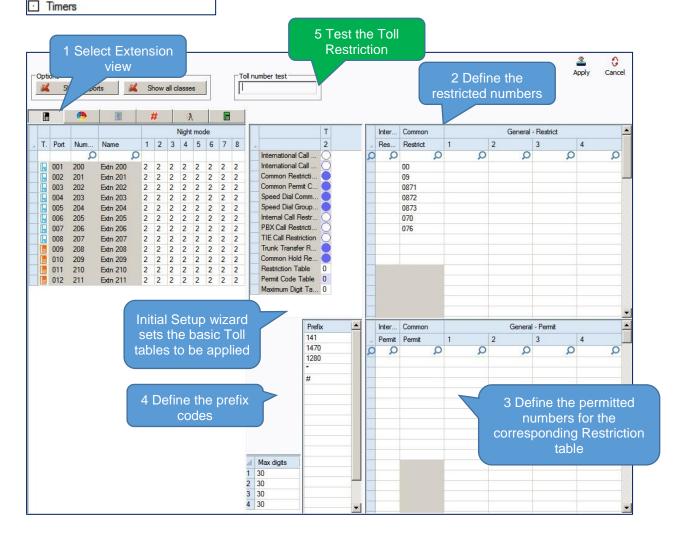
Programmable Function keys are setup within the Initial Setup wizard for Line keys or no function, you can add further functions here.

Extension - Toll Restriction

The Initial Setup wizard will setup basic Toll Restriction.

To view, edit or test the toll restriction select the Easy Edit view





In the example above:

All extensions are set to Toll Restriction class 2 for all night modes

The Common Restriction table is used to restrict dialled numbers

Prefix codes are defined that will be applied before any restricted number

Testing Toll Restriction

Enter a dialled number in the Toll Number Test box – as each digit is entered it will be checked against the Toll Restriction tables.

- · Red highlight means the number is restricted
- Green highlight means it's permitted (applied as an exemption to the restriction tables)

Note – You must ensure that all phones can dial Emergency numbers for all available lines in all modes

What to do if you make errors within the SL2100 Configuration

Errors that break configuration rules will be highlighted when you click the Apply button.

The errors will usually show red or you will see a pop-up message depending which area you are configuring. Enter the correct value and re-apply.

Then Upload your changes to the SL2100 and re-test.

Tip - Press F1 to get help within PCro.

If you can't locate your errors within PCPro then you may need to default the SL2100 back to factory defaults and run the Initial Setup wizard again (this will only take a few minutes).

 Before doing this, download the current SL2100 configuration with PCPro and save the file to your PC, you may then be able to copy and paste the majority of your changes back in, eg the non-configuration effecting items like extension names, speed dials, programmable function keys etc.

10- Security

You should ensure that the customer's system is secure from Toll Fraud.

The Health Check feature within the InGuard Application can be used to check the system for weaknesses.

The InGuard on-board application can also be used to give the customer ongoing protection from Toll Fraud.

Refer to the InGuard Toll Fraud Guard Installation and User manuals for details.

Additional licenses are required to run On-board applications.

Use the Toll Restriction section of this guide to setup outgoing call restriction of numbers the customer does not want to dial.

There is also a separate Quick Install Guide for Toll Restriction.

Auto Attendant Dial Actions

Make sure the outside callers that are answered by the VRS can only dial known digits.

Call Management

Consider the use of a call management system or call logger to give the customer visibility of calls, InReports can be used for this.

Trunk to Trunk Transfer / Call Forward External

Do not allow these unless the customer requests the feature, ensure you setup adequate toll restriction to prevent toll fraud.

System/PCPro Passwords

Ensure you change the default passwords for:

- PCPro/WebPro
- User Pro (if used)
- DIM Access (if enabled for maintenance)

To edit the passwords using PCPro:

Search for password within the System Data and Easy Edit areas:

