



UNIVERGE® SV9100

SV9100 Licensing Manual

Version 1.3 for R3 System Software

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Introduction

This manual is intended to give an overview on how the licensing procedure operates on the SV9100 platform. Some of the features and hardware require an appropriate software license to be installed on a SV9100 processor in order to work. Each SV9100 CCPU has a unique 'Hardware Key'. This hardware key can be assigned to a license code on the LMS.

The License Management server (LMS) is a web portal where users can logon and download a license that can be installed onto a CCPU. The procedure involves logging the hardware key on to the LMS and then assigning a software key to the hardware key. Once this has been done then a license file can be downloaded and it can be installed onto a CCPU card using PC Pro or a USB stick.

The LMS can also be used to generate licenses for the IP DECT system. This works in the similar way to the SV licensing model but the licenses are assigned to a unique 'PARI' code instead of a Hardware Key. The PARI code is issued when the IP DECT equipment is ordered. Details for licensing IP DECT Systems can be found in [IP DECT Licensing](#).

The Free license and 60 Day Trial

The free license can only be enabled whilst the 60 day trial period is valid on the SV9100. The rules surrounding the 60 day trial and the free license are summarised below:

60 Day Trial

- The 60 day trial period will begin from when the CPU is first powered up and will start counting down.
- Whilst the CPU is powered up there is no way to stop or pause the 60 day trial, it will continue to countdown until it expires.
- If the CPU is powered down then the countdown will be paused until the CPU is powered on again. Once powered on again the countdown will continue.
- To use the free license, the 60 day trial must not have expired.

Free License

- The Free License can only be enabled on the SV9100 during the 60 day trial period.
- When the Free License is enabled you have full access to all licensed features on the SV9100.
- The free license is turned off by default and can be turned on in PRG command 10-52-01 or in Easy Edit / Quick Install / 60 Day Trial.
- To view the number of days remaining in the trial, you must first turn on the free license and then look in PRG command 10-52-01 or Easy Edit / Quick Install / 60 Day Trial
- The free license will stop running if the 60 day trial expires or it is disabled in PRG command 10-52-01 or in Easy Edit / Quick Install / 60 Day Trial
- If the free license is running when the 60 day trial period expires, then the features running under the free license will cease to work.

Note 1: When you turn off the free license any registered licensed devices restart. For example IP Terminals, if you turn off the free license, any IP Terminals that are in use will restart.

Licensable Items

All of the licensing options can be broken down into different categories. Some licenses are either turned on or off, these types of licenses normally have a quantity of 1 to turn them on. Other licenses can have a quantity based on the number of devices that can be used.

References in this manual are made to both license codes and part numbers. License codes are the actual codes that are recognised by the SV9100, all license codes are 4 digits in length. Part numbers are the numbers that are actually ordered and are generally referred to as BE codes or EU codes. They will begin EU or BE and will have 6 numbers.

Where Netlink is being used, licenses should only be applied to the Primary Netlink system, a license should be purchased for each remote Netlink node and installed on the primary system. If the Netlink goes down between a primary system and a secondary system then the secondary system will use an internal license for a period of 30 days. After 30 days, if the Netlink connection is not resumed to the Primary system then the internal license will stop working and the system will become unlicensed.

Some licenses are included by default, the table below provides a summary of these licenses. The manual goes on to describe each license and its purpose in more detail.

License Code	BE Code	Quantity	Description
0300	BE114042	64	64 System Port Capacity Licenses.
1001	BE114082	2	2 InMail VRS Channels.
5201	BE114055	4	Mobile Extension Ports.
5001	BE114065	4	IP Trunk Licenses.
5111	BE114054	4	IP Terminal Licenses.

Note: The IP Trunk Licenses and IP Terminal License are only available when an IPLE card is installed.

Version License

A version license (either R2 or R3) has to be installed on the system before any other licenses can be installed. If you try and install any other licenses on the SV9100 without installing the version license first, they will fail to install. This does not have to be loaded separately, can be amongst other licenses, but must be in the first license file loaded to the SV9100. A version license is usually supplied when you purchase a CPU.

License Code (s)	BE Code	Quantity	Description
0411, 0412	BE114044	1	R2 Version License, this also includes the R1 Version License
0411, 0412,0413	BE114045	1	R3 Version License, this also includes the R2 and R1 Version License

System Port Capacity Licenses

System Port Capacity Licenses	
Description	<p>1 license is required for each port that is used on the system, this includes any:</p> <p>Extension Ports – TDM, SIP and Mobile Extension.</p> <p>Trunk Ports – TDM, SIP, CCIS.</p> <p>64 Ports are enabled on every SV9100 by default.</p> <p>Note: Licenses are NOT required for Voicemail Extension Ports, Virtual Extensions Ports or Virtual Loopback Ports.</p>
Part Number	BE114042
4 Digit License Code(s)	0300

VoIP Licenses

IPLE Channels	
Description	<p>1 License is required for each IPLE channel that will be used on the SV9100. These licenses are issued as part of other license packs and you cannot purchase these separately.</p>
4 Digit License Code(s)	5103

After installing IPLE Channel Licenses, these have to be allocated to the CPU in system programming, further information is available in the [IPLE VoIP Channel Assignment](#) section.

IP Trunk License	
Description	<p>1 License is required for each IP Trunk that will be used. An IPLE channel is supplied with each license.</p> <p>4 IP Trunks licenses are enabled on every SV9100 by default.</p>
Part Number	BE114065
4 Digit License Code(s)	5001 x 1, 5103 x 1

DT IP Extension License	
Description	<p>1 License is required for each DT700 / DT800 IP Extension that will be used. An IPLE channel is supplied with each license.</p> <p>4 IP Extension licenses are enabled on every SV9100 by default, these are displayed as code 5111 and can be used as either DT IP Extensions, IP Extension licenses or IP DECT Extensions.</p>
Part Number	BE114497
4 Digit License Code(s)	5101 x 1, 5103 x 1

IP Extension License	
Description	<p>1 License is required for each IP Extension that will be used. An IPLE channel is supplied with each license. This is only required for non DT700 / DT800 extensions.</p> <p>4 IP Extension licenses are enabled on every SV9100 by default, these are displayed as code 5111 and can be used as either DT IP Extensions, IP Extension licenses or IP DECT Extensions.</p>
Part Number	BE114054
4 Digit License Code(s)	5111 x 1, 5103 x 1

IP DECT Extension License	
Description	<p>1 License is required for each IP DECT Extension that will be used. An IPLE channel is supplied with each license.</p> <p>4 IP Extension licenses are enabled on every SV9100 by default, these are displayed as code 5111 and can be used as either DT IP Extensions, IP Extension licenses or IP DECT Extensions.</p>
Part Number	EU901001
4 Digit License Code(s)	5111 x 1, 5103 x 1

Netlink License	
Description	1 License is required for each remote Netlink system. The license also comes with 32 IPLE channels.
Part Number	BE114067
4 Digit License Code(s)	0002 x 1, 5103 x 32

Networking License	
Description	1 License is required for each port that will use networking features over KCCIS and Aspirenet. The license also comes with 1 IPLE channel.
Part Number	BE114066
4 Digit License Code(s)	5012 x 1, 5091 x 1, 5103 x 1

Video MCU	
Description	1 License is required to allow this feature system wide.
Part Number	BE114070
4 Digit License Code(s)	0042 x 1

Encryption	
Description	1 License is required to allow this feature system wide.
Part Number	BE114068
4 Digit License Code(s)	0030 x 1

Application Integration Licenses

1 st Party CTI	
Description	1 License is required for each concurrent user that will use the 1 st Party CTI driver.
Part Number	BE114078
4 Digit License Code(s)	0111 x 1

3rd Party CTI	
Description	1 License is required to allow this feature system wide.
Part Number	BE114079
4 Digit License Code(s)	0112 x 999

OAI	
Description	1 License is required to allow this feature system wide.
Part Number	BE114077
4 Digit License Code(s)	0123 x 1

ACD Licenses

ACD Agents	
Description	1 License is required for each ACD Agent that will concurrently be logged on to an ACD group.
Part Number	BE114074
4 Digit License Code(s)	2002 x 1

ACD Skill Based Routing / Caller ID Marking	
Description	1 License is required to allow this feature system wide.
Part Number	BE114076
4 Digit License Code(s)	2105 x 1

ACD P Events	
Description	1 License is required to allow this feature system wide.
Part Number	BE114075
4 Digit License Code(s)	2101 x 1

ACD Whispering	
Description	1 License is required to allow this feature system wide.
Part Number	BE114152
4 Digit License Code(s)	2106 x 1

Miscellaneous Licences

Hotel	
Description	1 License is required to allow this feature system wide.
Part Number	BE114071
4 Digit License Code(s)	0007 x 1

PMS	
Description	1 License is required to allow this feature system wide.
Part Number	BE114072
4 Digit License Code(s)	0046 x 1

XMLPRO	
Description	1 License is required to allow this feature system wide.
Part Number	BE114081
4 Digit License Code(s)	0041 x 1

Mobile Extension	
Description	1 license is required for each configured mobile extension in the SV9100. 4 Mobile Extension licenses are enabled on every SV9100 by default.
Part Number	BE114055
4 Digit License Code(s)	5201 x 1

Remote Conference	
Description	1 license is required for each Remote Conference Group that will be used concurrently.
Part Number	BE114073
4 Digit License Code(s)	0047 x 1

Hardware Migration	
Description	Required to use SV8100 blades with an SV9100 CPU. After installing this license, the PBX will need to be restarted before it will be effective.
Part Number	BE114053
4 Digit License Code(s)	0048 x 1

Multi Device	
Description	1 License is required for each Multi Device Group that is configured on the SV9100.
Part Number	BE114151
4 Digit License Code(s)	0049 x 1

InMail Licenses

InMail Mailbox			
Description	1 license is required for each Mailbox.		
Part Number	BE114083	4 Digit License Code(s)	1012 x 1
Part Number	BE114498	4 Digit License Code(s)	1012 x 50
Part Number	BE114499	4 Digit License Code(s)	1012 x 100
Part Number	BE114500	4 Digit License Code(s)	1012 x 200
Part Number	BE114501	4 Digit License Code(s)	1012 x 400
Part Number	BE114501	4 Digit License Code(s)	1012 x 896

InMail Email Client	
Description	1 License is required to allow this feature per user.
Part Number	BE114084
4 Digit License Code(s)	1014 x 1

InMail VRS Channel	
Description	1 license is required for each additional VRS Channel that is required. 2 VRS Channels are enabled on every SV9100 by default.
Part Number	BE114082
4 Digit License Code(s)	1001 x 1

On Board Application Licenses

Toll Fraud Guard	
Description	1 license is required to use this On board application
Part Number	EU000285
4 Digit License Code(s)	3512 x 1 0041 x 1

Using the LMS

User accounts are created on the LMS that allow a dealer to logon. A Dealer Admin is a role that would be assigned to people within an organisation that are responsible for ordering and administrating licenses. When a license is generated, an email notification is sent to the email address associated with the dealer admin. The dealer admin can carry out the following functions:

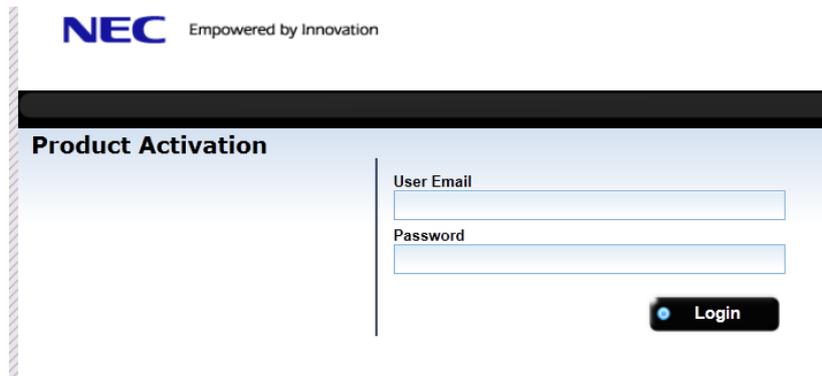
- Add Customers / Hardware Keys to assign licenses to.
- View Available / Activated Licenses
- Lookup and change existing customers details

Logging into the LMS

To login to the LMS enter the following URL into a browser.

<https://emea.neclicense.com/license>

At the home page, enter your login ID or email address and password that have been specified to you and click Login.



NEC Empowered by Innovation

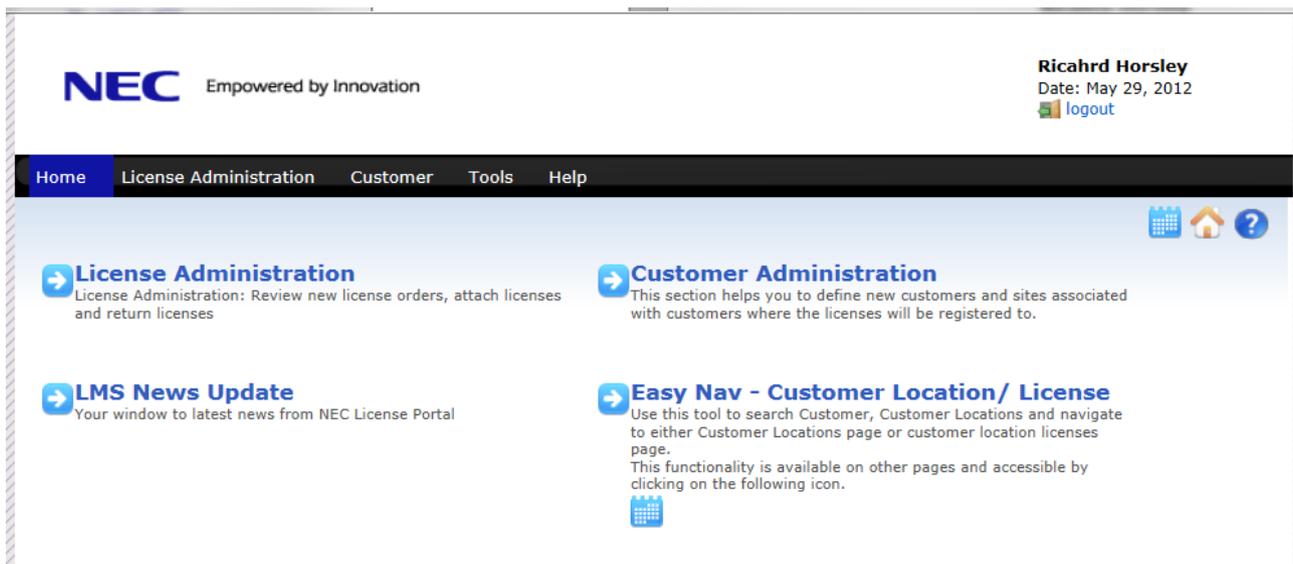
Product Activation

User Email

Password

Login

When you login, you are taken to the home screen.



NEC Empowered by Innovation

Ricahrd Horsley
Date: May 29, 2012
logout

Home License Administration Customer Tools Help

License Administration
License Administration: Review new license orders, attach licenses and return licenses

Customer Administration
This section helps you to define new customers and sites associated with customers where the licenses will be registered to.

LMS News Update
Your window to latest news from NEC License Portal

Easy Nav - Customer Location/ License
Use this tool to search Customer, Customer Locations and navigate to either Customer Locations page or customer location licenses page.
This functionality is available on other pages and accessible by clicking on the following icon.

Notification When a license is Generated

When a license order is processed, an email notification is sent out to the dealer admin user. The email will contain the purchase order number that was used to order the licenses. The main body of the email will also show the part numbers, names and quantity of each license that was ordered.

As the mail address suggests you should not reply to this email address with any queries, instead contact whomever you ordered the license from. Once this email has been received then it's available for you to use.

From: Licensing, Manager [no-reply-licensing@necinfrontia.com] Sent: Mon 22/09/2008 14
To: Rich
Cc:
Subject: NEC Sales: Your Purchase Order 123 has been processed.

Dear dealeradmin,

Your recent purchase order 123 has been processed for the part numbers listed below. Please login to the [LMS](#) to access the licenses.

Part Number	Name	Qty
BE107573	LK-SYS-256 PORT LIC	1
BE107585	LK-SYS-IP-TERMINAL-1-LIC	5
BE107581	ACD Client	10

*Please note: You will need a login Account on the **NECP/NECi License Management Server (LMS)** to know the status of these licenses. If you do not have one, please consult with your **NECP/NECi Sales Manager**.*

Thank you for your business

**NEC Philips Unified Solutions
The Netherlands**

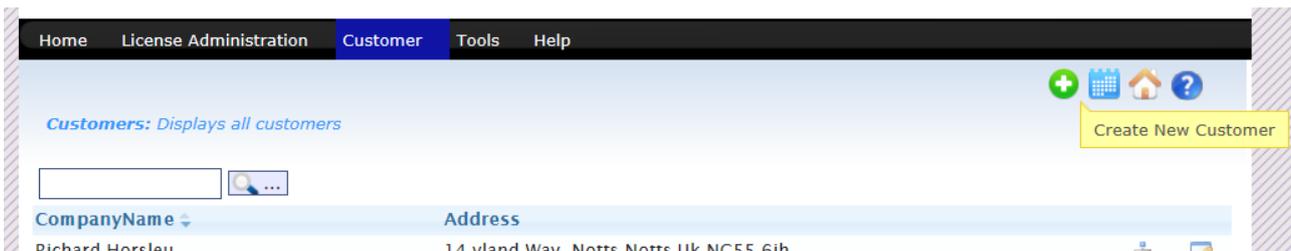
Do not reply to this message. The mail box of the sender of this message is not monitored.

Adding a Customer and Hardware Key

Before a license can be downloaded and installed onto the SV9100, you are required to enter some details of the customer and the hardware key of the CCPU into the LMS. Firstly a customer is created this contains the details of the company, once the company is created then a location can be added that has the hardware key stored against it. If a customer / company has several SV9100's installed in their organisation then these can be added as different locations for that customer. To add a customer, from the homepage, click Customer Administration or click the Customer tab.



A list of existing customers will be displayed, if you are adding a location for an existing customer then click the location button . The Search box can be used to find existing customers. To add a new customer, click the 'Create New Customer' button.



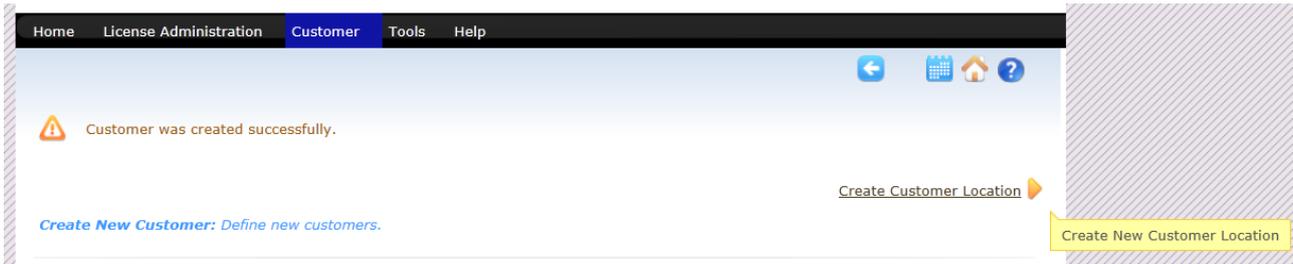
Enter the customer details of the customer and click 'Create.'

The screenshot shows the 'Create New Customer' form. The navigation bar is the same. The main content area has a title 'Create New Customer: Define new customers.' and a form with the following fields:

Business Name NEC Nottingham	Contact Name David Shovet
Country UK	Fax (optional)
Address Innovation House	E-mail davids@neci.co.uk
City Nottingham	Phone 0115 9695700
State/ Province Notts	
ZIP/ Postal Code NG11 6JS	

A 'Create' button is located at the bottom right of the form.

When the customer has been created, you can click 'Create Customer Location' to add a location and hardware key.



Enter the Location name and the hardware key and click create. The hardware key can be found in several different places:

- Printed on the box that the CCPU is shipped in.
- Printed on the Circuit board on the CCPU.
- By pressing feature then 3 on a keyset.
- In PC Pro by connecting to the CCPU and going into the Communication / Feature Activation menu.
- Connect to Web Pro and from the home page click feature activation.

When entering the hardware key, it should be entered as a complete 12 digit number without and spaces or hyphens. When the location is created successfully, licenses can be assigned to the CPU.

Note! If the hardware key contains and letters, they should be entered in UPPERCASE.

A screenshot of a web form titled 'NEC Nottingham Innovation House, Nottingham, UK'. The form has two columns of input fields. The left column contains: 'Location Name' (Main Office), 'Address' (Innovation House), 'City' (Nottingham), 'State/ Province' (Notts), 'Country' (UK), and 'ZIP/ Postal Code' (NG11 6JS). The right column contains: 'System' (SV9100), 'Primary Hardware Key Code' (191007191321), 'Hardware Version(Optional)', and 'Software Version(Optional)'. A 'Create' button is located at the bottom right of the form.

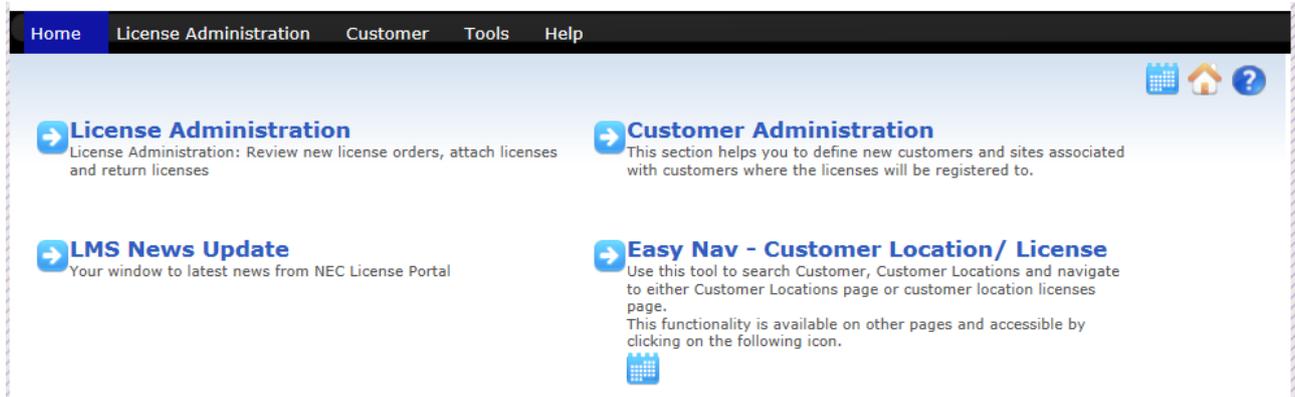
Details for the customer can be checked by clicking back on the Customer tab and searching the customer / company.

All locations can be viewed by clicking . Details can be edited / changed by clicking the edit button .



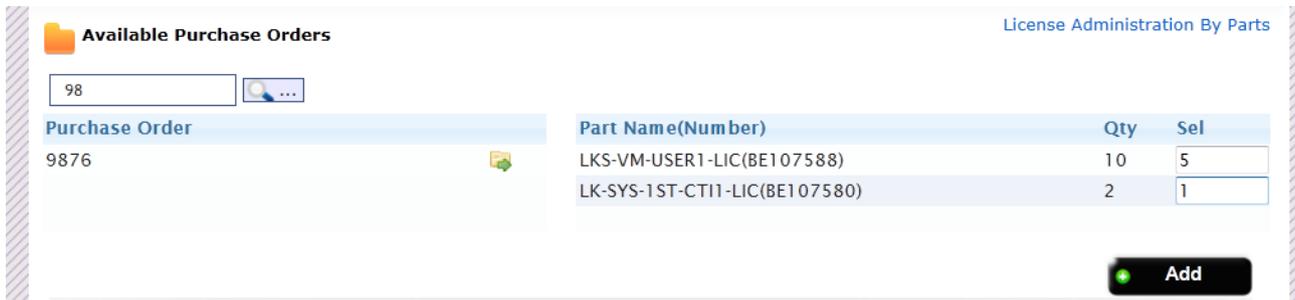
License Administration

Licenses have to be assigned to a customer and then downloaded and installed on the SV9100. It is possible to 'attach' licenses to a customer before they are activated. This allows you to review and double check all licenses that will be assigned to the CPU before activating them. Once licenses are activated then they are permanently assign to the hardware key. From the home page of the LMS logon screen click License Administration.



Assigning Licenses to a Customer

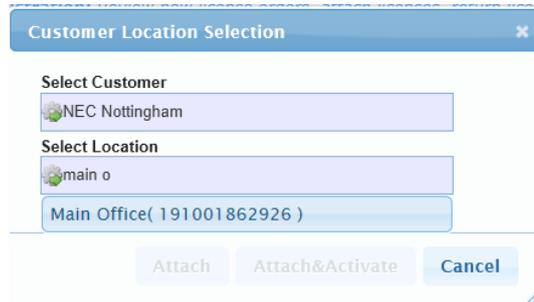
Under Available Purchase Orders, you can type in a PO number to search. When you have found the correct PO click the  icon to see the licenses that are available. Enter the quantity of each part number in the 'Sel' box that should be assigned to the hardware key and click Add.



The licenses that have been added will be displayed along with the selected quantity, licenses can be removed from here by clicking the red  icon. To begin the process of attaching and assigning the licenses to a hardware key, click attach.



After clicking Attach, in the Select Customer box type in the customer name that the license will be assigned to. After typing the first 5 characters, a list of matching customers will be displayed. Select the customer and come down to the Select Location box and type in the location name, again a lookup is performed after typing in the first 5 characters. Select the correct location, verifying the correct hardware is selected.



Once both details have been entered, you can choose to either 'Attach' the licenses to the customer or Attach & Activate. Attach will assign the licenses to the customer but not activate them, this gives you the option add more license from a different PO to the hardware key then review and activate all licenses at once. Attach & Activate will take you straight to the screen where you can view the licenses assigned to the CPU ready to download.

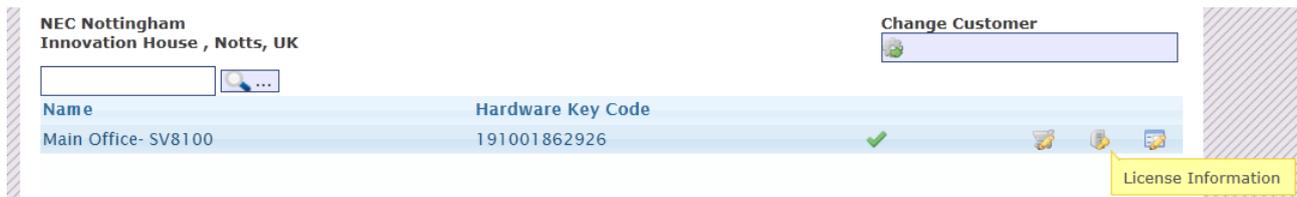


If you clicked 'Attach' and wish to add more licenses, you can repeat the procedure '[Assigning Licenses to a Customer.](#)' If you have attached licenses to a customer and wish to activate them, from the LMS Home Page, click 'Customer.' You can use the Search box to lookup the customer, to see all locations for this customer click the  button.



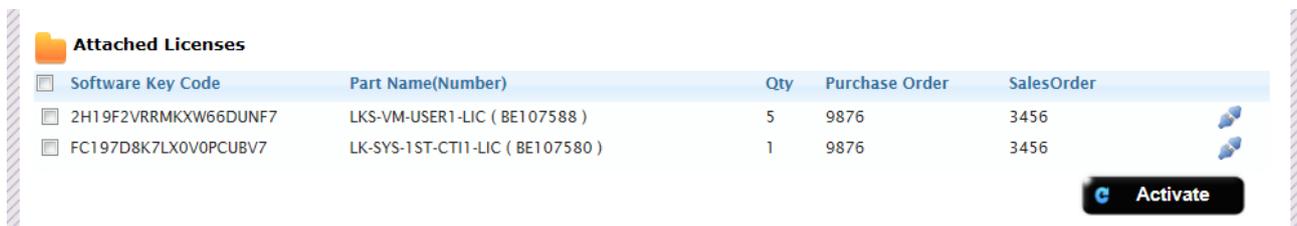
CompanyName	Address
NEC Nottingham	Innovation House Nottingham Notts UK NG11 6JS

From the list of locations, you can click license information and you will see the attached licenses. These licenses can then be activated.

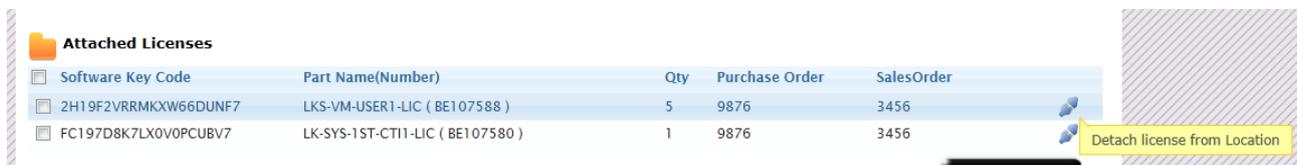


Activating Licenses

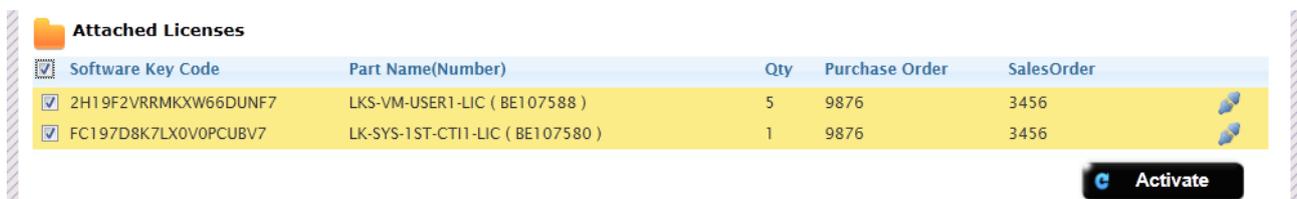
Once a license is activated, it is permanently assigned to the CPU and the action cannot be undone, take care when assigning licenses to make sure they are assigned to the correct customer / hardware key. Always review the quantity of the license to make sure it is correct.



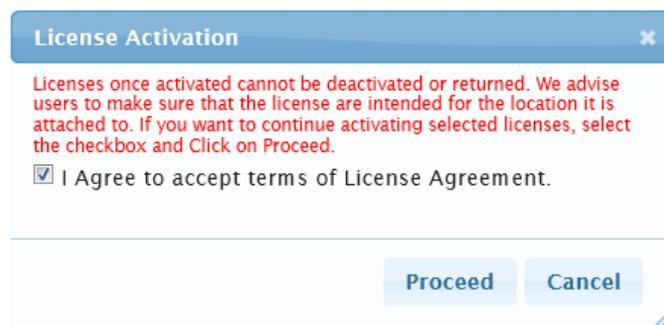
Licenses can be Detached by clicking the  icon. Detaching a license will put the licenses back into the pool of available licenses.



To proceed with activating the licenses check either the higher level box to select all licenses or each license can be selected individually, click Activate to continue.

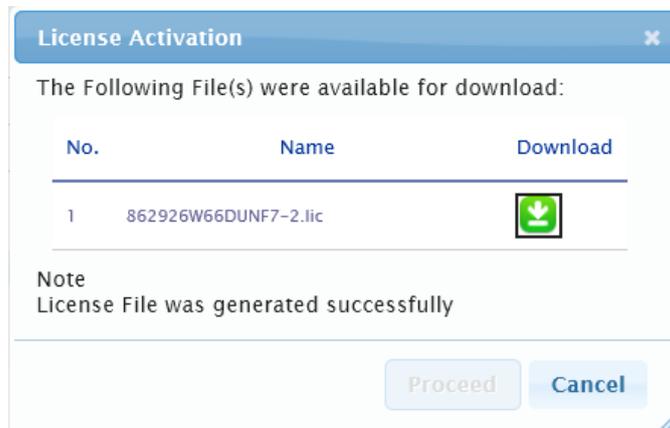


Read the displayed text and to continue, select, I Agree and click Proceed.





The license file will be made available to download, click the  button to download the file. When downloading the file, do not change the first 6 digits of the file name as these have to match the last 6 digits of the hardware key, other characters can be changed.

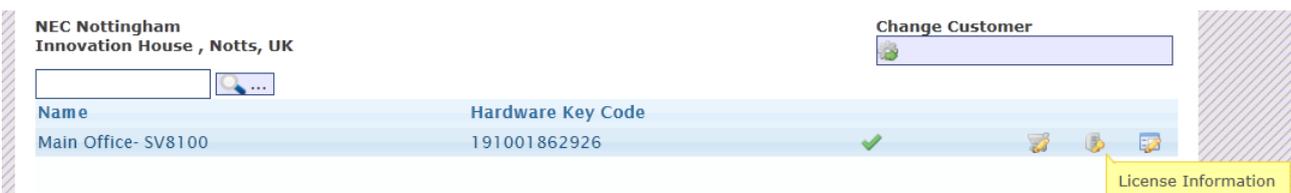


Re-Downloading Generated Licenses

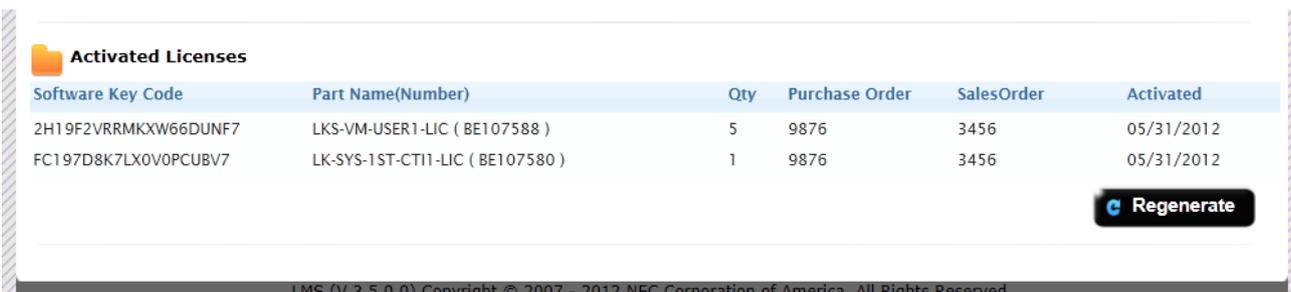
Licenses can be re-downloaded at any point from the Customer link, lookup and search for the customer and click the locations button.



From the list of locations, click the License Information button.



To re-download the license file, click Regenerate and follows the steps to re-download the license file.



Search Functions

The LMS gives the ability to search for details stored in the LMS, from the Tools menu, you can click Locations. The locations button  will show any licenses assigned to the CPU. The edit button  can be used to change the customer details.

Customer Locations: View and Search Customer Locations based on Name and Hardware Key Code. To search for a specific location, enter the Name or HardwareKeyCode in the Search box.



Location Name	Hardware Key Code		
Remote Office- SV8100	191007191321		
Location name- SV8100	190400001813		
Main Office- SV8100	191001862926		

From the tools menu, you can also select Hardware Key. When you enter the Hardware Key you can pull up the details associated with it. It will display both customer and license details.

Hardware Key Code
 

Customer Details

Customer Name: NEC Nottingham

Location Name: Main Office

Address: Innovation House , Nottingham Notts UK
NG11 6JS

Location Id: N/A

Dealer Details

Dealer Name: Main Office

Address: 14 Byland Way, Loughborough LEICS UK
LE11 4FS

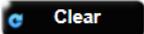
Admin User: Richard Horsley
(rhorsley@neci.co.uk)

Associated Feature

Code	Name	Qty
1013	InMail Email	5
1012	VM Box users	5
CA0025	VM8000 InMail ports	5
0111	1st Party CTI(Ethernet)	1

Associated Licenses

Software Key Code	Part Number-Name	Qty	PO	SO	Status	Date
2H19F2VRRMKXW66DUNF7	LKS-VM-USER1-LIC (BE107588)	5	9876	3456	Activated	05/31/12
FC197D8K7LX0V0PCUBV7	LK-SYS-1ST-CTI1-LIC (BE107580)	1	9876	3456	Activated	05/31/12



Purchase orders and sales orders can also be looked up. Details of the licenses from the PO / SO can be viewed to see how many have been available and how many are still available.

Purchase Order

9876

Search By Sales Order

Purchase Order:	9876	Sales Order:	3456
Shipped From:	Ruddington	Shipped To:	Main Office
Ship Date:	05/29/2012 03:18	Is Drop Shipment:	False

Part Number- Name	Available	Attached	Activated	Returned	Resold	Others	Total
BE107588--LKS-VM-USER1-LIC	5	0	5	0	0		10
BE107580--LK-SYS-1ST-CTI1-LIC	1	0	1	0	0		2

Associated Licenses

Software Key Code	Part Number-Name	Qty	Status	Date	Customer
2H19F2VRRMKXW66DUNF7	LKS-VM-USER1-LIC (BE107588)	5	Activated	05/31/12	NEC Nottingham--Main Office
FC197D8K7LX0V0PCUBV7	LK-SYS-1ST-CTI1-LIC (BE107580)	1	Activated	05/31/12	NEC Nottingham--Main Office

 Refresh

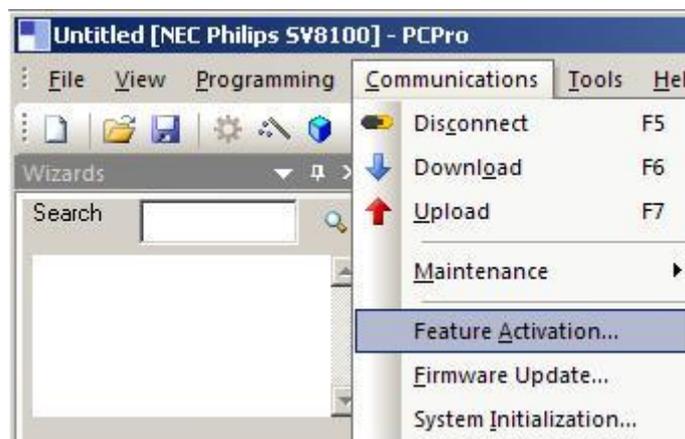
Installing a license

When a license has been downloaded from the LMS it has to be installed on to the SV9100. It can be installed in 4 different ways, using PC Pro, Web Pro, Using a USB Memory stick or using Tele Pro. Once a license has been installed, if the 60 day trial license is running then it should be turned off. If a real license was installed and the trial was left on then the trial will remain active and continue to countdown. To turn off the free license, set command 90-55-01 to 0 using Tele Pro.

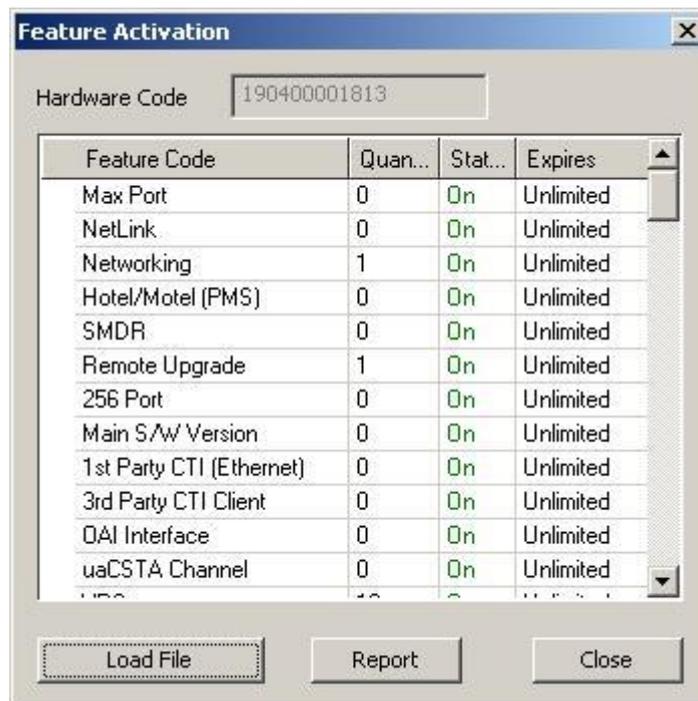
Note: Turning off the free license causes IP Terminals to restart.

Using PC Pro

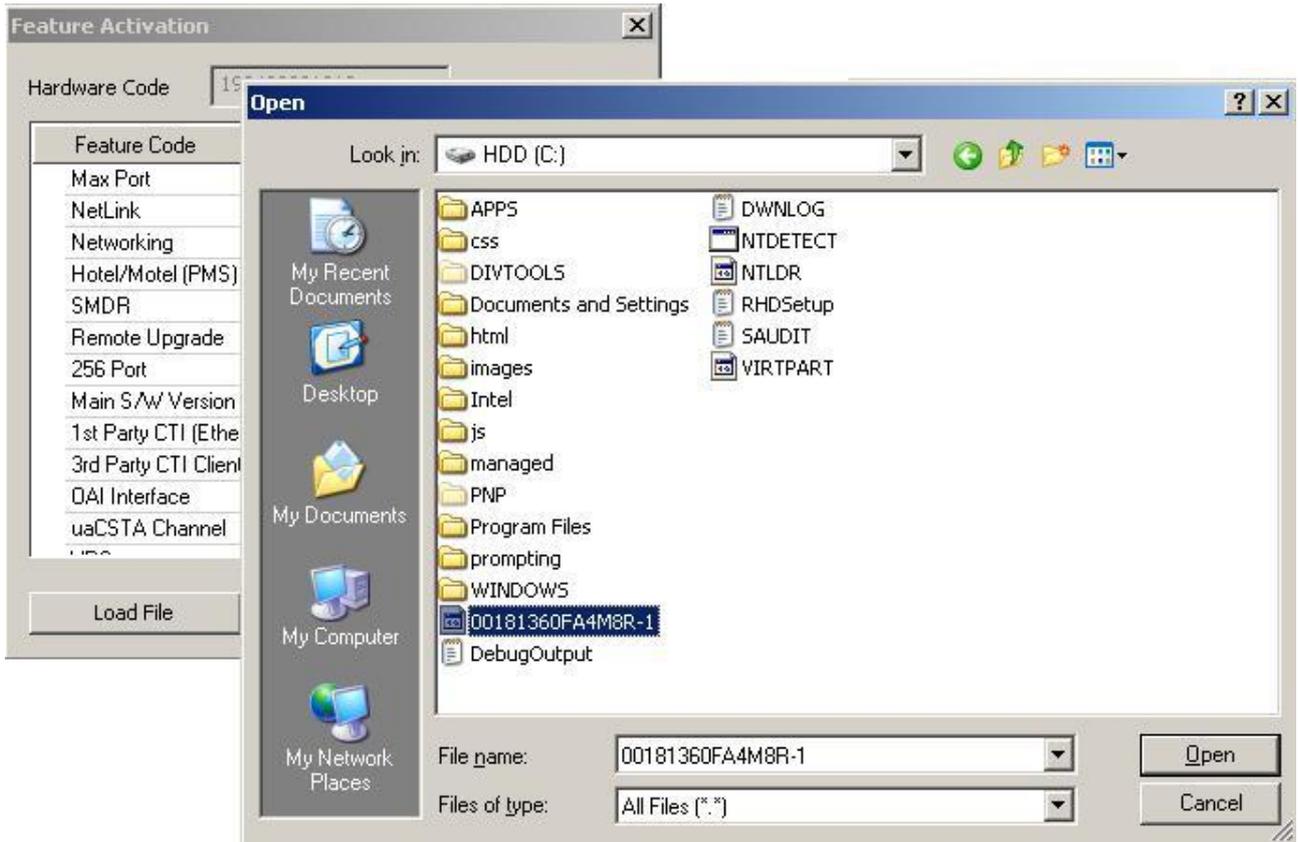
To install a license using PC Pro, you should first connect to the SV9100 using PC Pro, then from the Communications menu click Feature Activation.



When the free license is running or no license has been installed then the feature activation screen will show all features as being on. The expiry will show unlimited, this does not mean that the license will not expire, the expiry date should be checked in command 10-52-01 in Tele Pro / Web Pro.



In the feature activation screen click load file, browse to the license file and click open

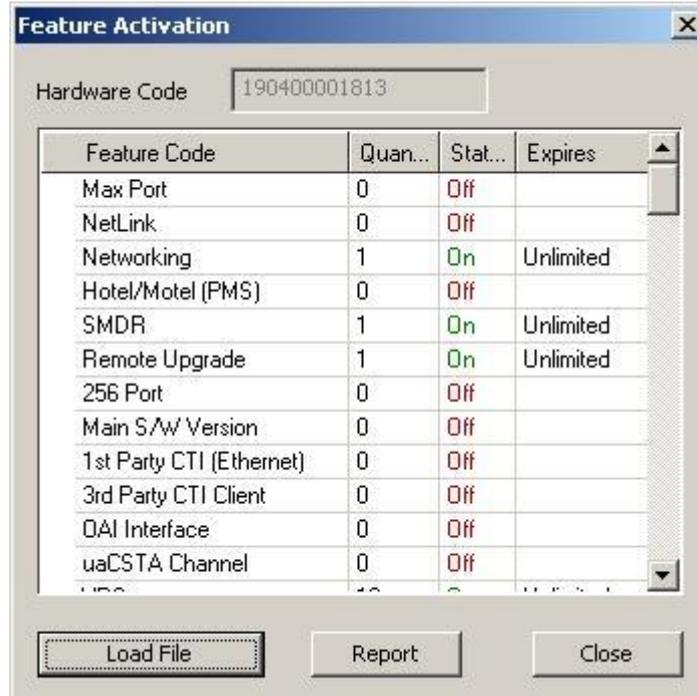


After clicking open, the license will be installed



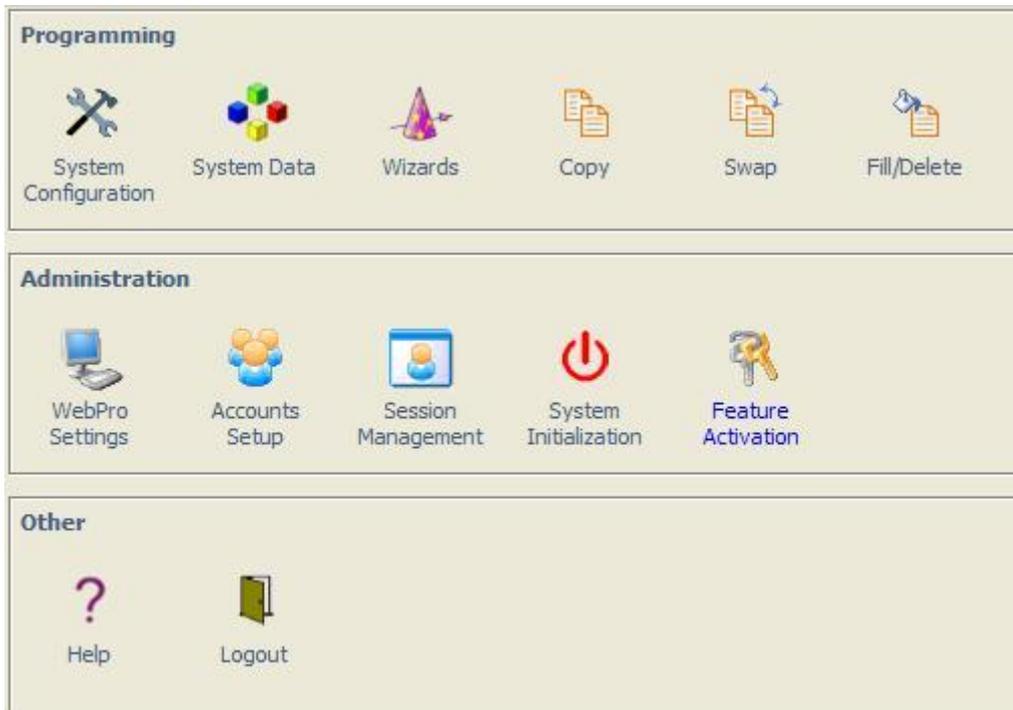
If the free license is running, then disconnect from PC Pro and then go into Tele Pro. Change command 90-55-01 from 1 to 0 and exit from programming.

Connect to PC Pro you will see that some items that are not licensed have a status of being off.

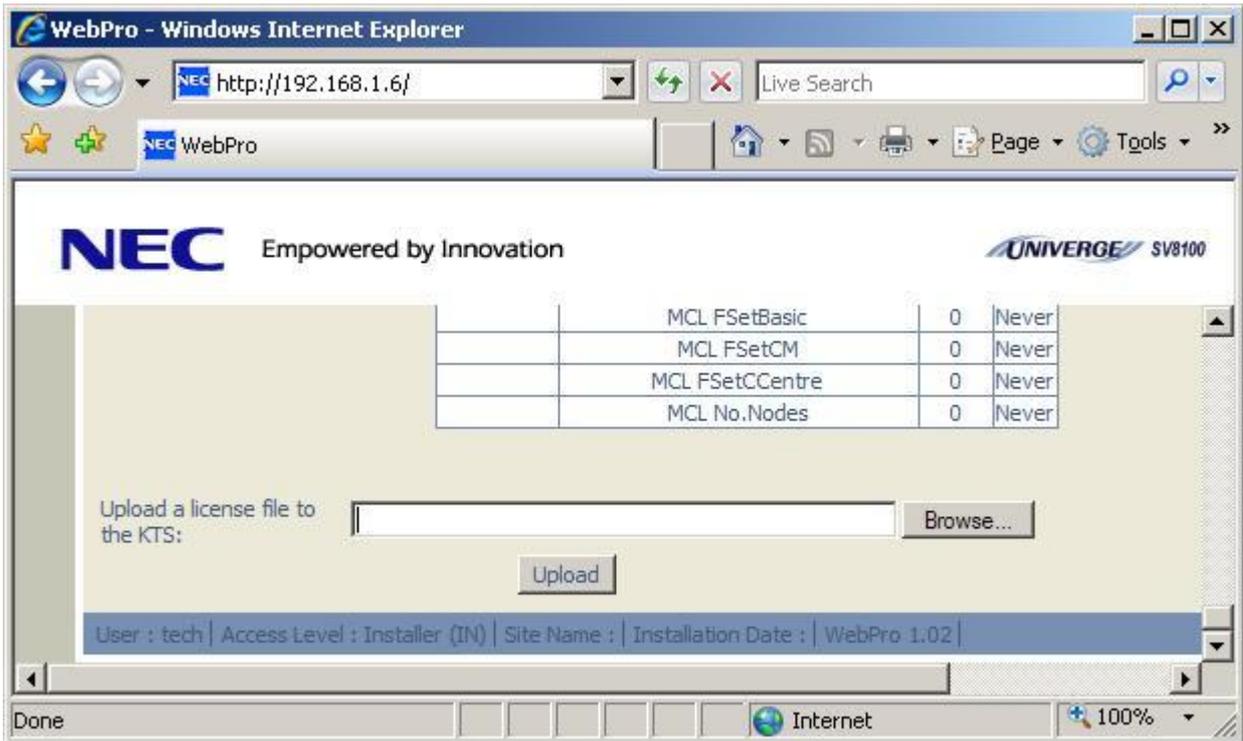


Using Web Pro

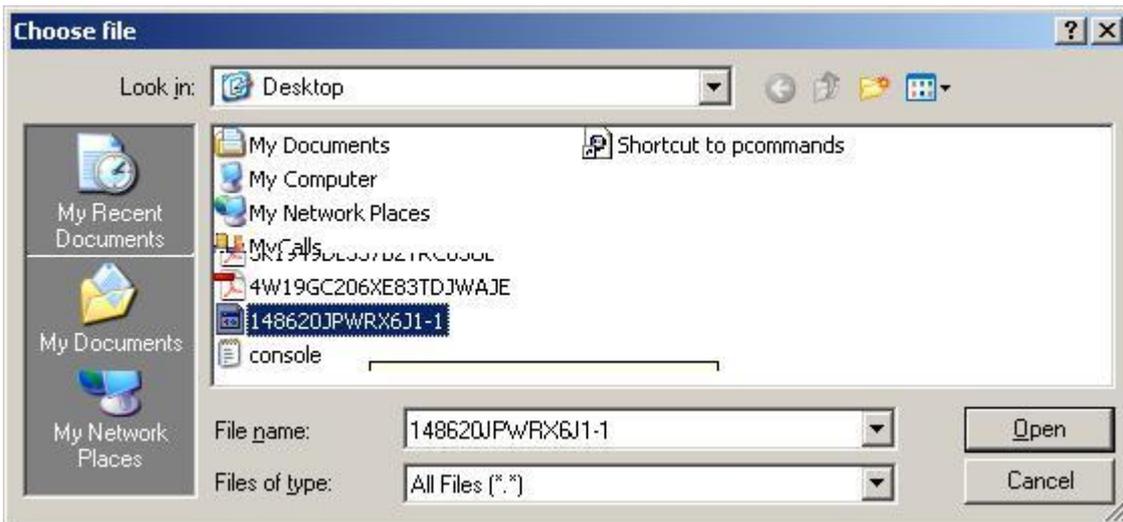
To install a license using Web Pro, login to Web Pro and from the home page click on feature activation.



Scroll to the bottom of the page and click the browse button.



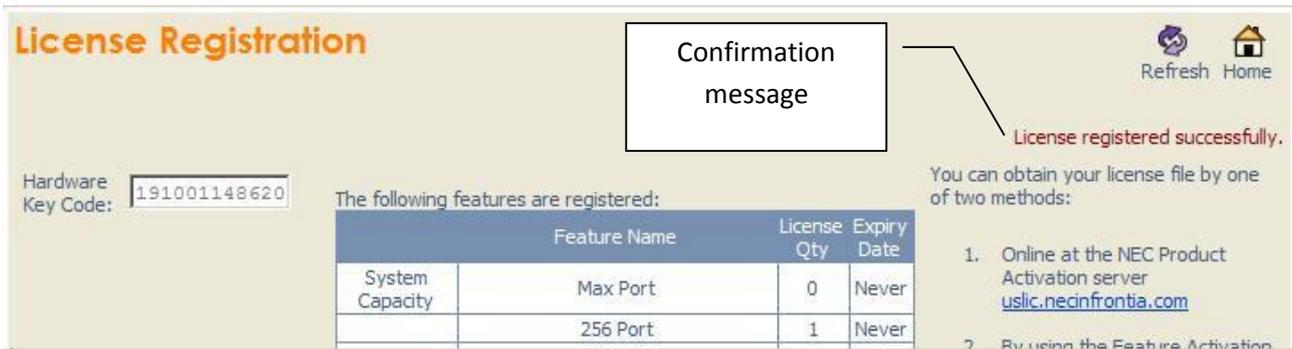
Locate the license file and click open.



The path to the files will be displayed, click the Upload button followed by OK, to install the license.

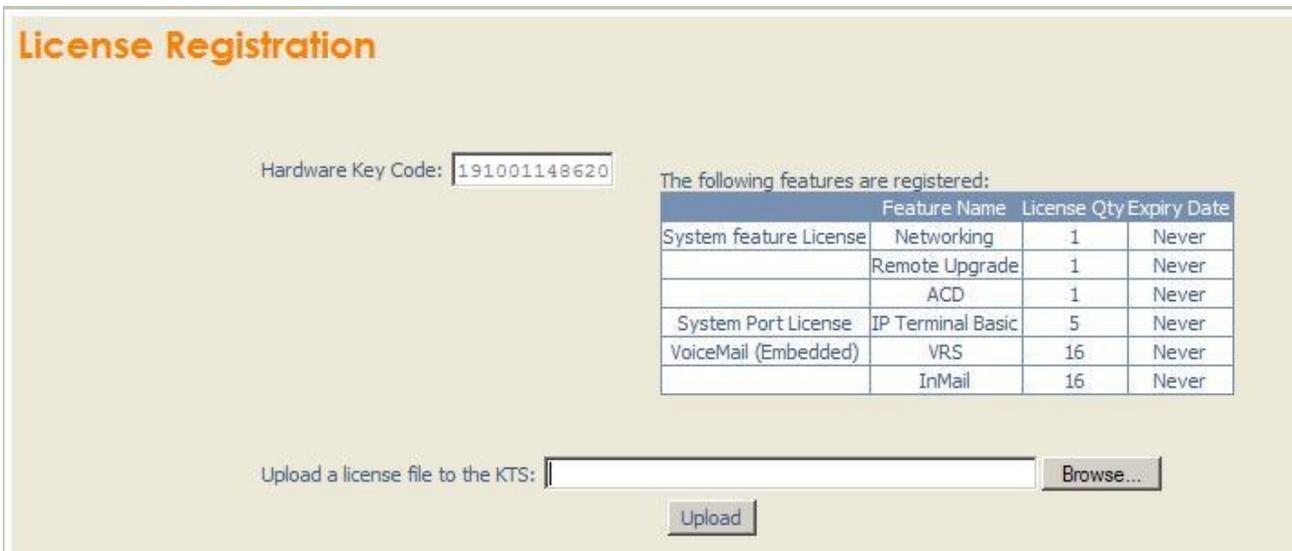


Web Pro will now install the license, at the top of the window, you see confirmation that the license has been installed.



If the free license was running, turn it off (90-55-01=0) and click the refresh button in the license registration web page. The details of the license installed will be displayed.

WebPro will refresh and you will see that some items that are not licensed have a status of being off.



Using a USB Memory Stick

To install a license using a USB memory stick, copy the license files to the root of the memory stick. Plug the USB stick into the USB connector on the front of the CCPU and using Tele Pro go into command 10-49-01. Enter 1 to start reading in any licenses from the USB stick. The SV9100 will read in any licenses for its own CCPU. If more than one file for the same system exist in the root of the USB stick then it will read them all it. If the license is read in successfully then 'Entry OK' is displayed on the handset.

If the free license was running, turn it off (90-55-01=0.)

If the free license was not running and then a license is installed, you should set 90-55-01 to 1 and then change it to back to 0.

To view the installed licenses, connect to PC Pro / Web Pro.

By Entering the Code Manually

It is also possible to enter a license code manually in Telepro. Start by opening the .lic file that you wish to install. In there you will see the Software Key Code, activation code and feature codes. Login to Telepro and go to PRG 10-48-01 and enter the Software Key Code. In 10-48-02, enter the activation code. In PRG command 10-48-03, enter the feature codes. Once all of these have been entered, press the Submit softkey.

If the free license was running, turn it off (90-55-01=0.)

If the free license was not running and then a license is installed, you should set 90-55-01 to 1 and then change it to back to 0.

To view the installed licenses, connect to PC Pro / Web Pro.

IPLE VoIP Channel Assignment

When IP devices are licensed on the SV9100, VoIP channels are automatically licensed but are not activated in hardware on the GPZ-IPLE card until they have been allocated to the SV9100 GCD-CP10 CPU card in programming.

The below table illustrates the number of VoIP channels that are licensed with specific IP devices. When installed these are visible on the Feature Activation screen as **VoIP Channels (5103)**.

Product Code	License Description	Notes	Applied To	Number of VoIP Channels Licensed
BE114497	SV9100 IP PHONE DT-01 LIC	SIP terminal license for DT700/DT800 terminal	Per terminal	1
BE114054	SV9100 IP PHONE-01 LIC	SIP terminal license for standard SIP extension including IP DECT terminal	Per terminal	1
BE114058	SV9100 SOFTPHONE-01 LIC	SP310 softphone license	Per softphone	1
BE114065	SV9100 IP TRUNK-01 LIC	IP trunk license used for SIP and H.323 trunks	Per trunk	1
BE114066	SV9100 NETWORKING-01 LIC	Network call channel license used for Aspirenet and K-CCIS	Per channel	1
BE114067	SV9100 NETLINK NODE-01 LIC	Netlink secondary node license. Assigns additional 32 IPLE channel licenses.	Per secondary node	32
EU901001	SV9100 3 rd Part NEC IP PHONE-01 LIC	SIP terminal license for IP DECT terminal	Per terminal	1

Table 1: IP Device system licenses and allocated VoIP channels

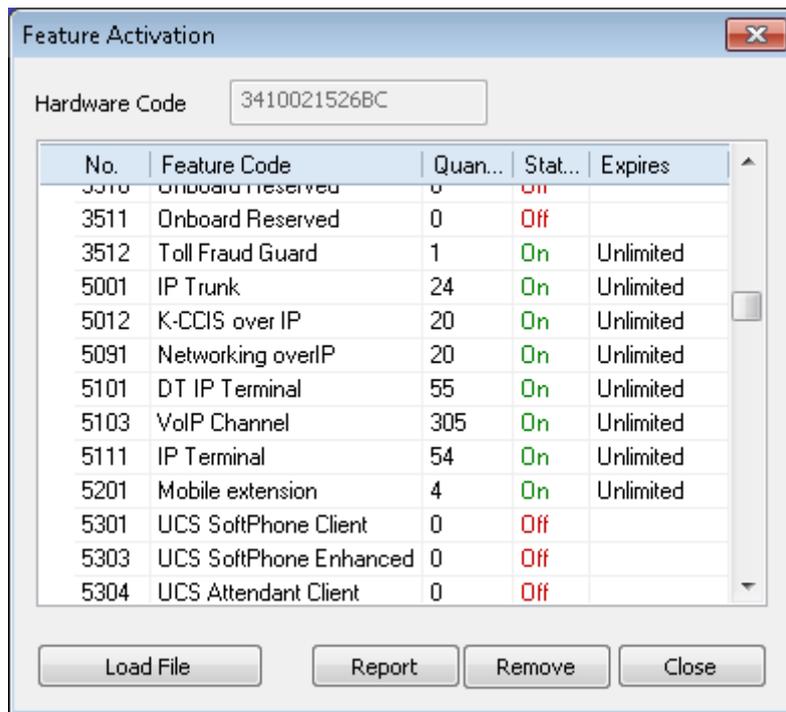


Figure 1: A SV9100 Feature Activation screen with IP licenses installed.

On the Feature Activation screen the VoIP Channels (5103) can display a maximum value of 12,800 (256 x 50 Netlink nodes)

AVAILABLE VOIP CHANNELS

- An SV9100 with the 60 day free license **enabled** is able to use the full 256 VoIP channels of the GPZ-IPLE card.
- A factory default SV9100 with the 60 day free license **disabled** is able to use 8 free VoIP channels of the GPZ-IPLE card.
- An SV9100 with the 60 day free license disabled and IP device licenses installed, is able to use the 8 free VoIP channels of the GPZ-IPLE card and additionally to this any VoIP Channels (5103) licenses allocated in PRG10-54.

SV9100 System Type	Number of VoIP Channels Available			
	Unlicensed System		Licensed System	
	Free License On	Free License Off	Free License On	Free License Off
Standalone System				
Netlink Primary System	256	8	256	PRG10-54 + 8
Netlink Secondary System	256	8	256	PRG10-54 + 8

Table 2: Number of available VoIP Channels per system type

CHECKING VOIP CHANNEL AVAILABILITY

You can check at any time how many VoIP channels are available on an SV9100 from either a DT400/DT300/DT800/DT700 terminal by pressing **Feature + 4**.

The DSP resources are displayed on the terminal as **DSP: ACTIVE/RESERVED/TOTAL AVAILABLE**

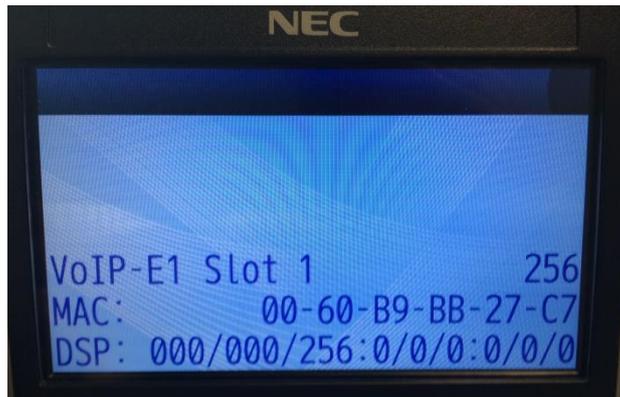


Figure 2: Feature + 4 showing an SV9100 running on the free license

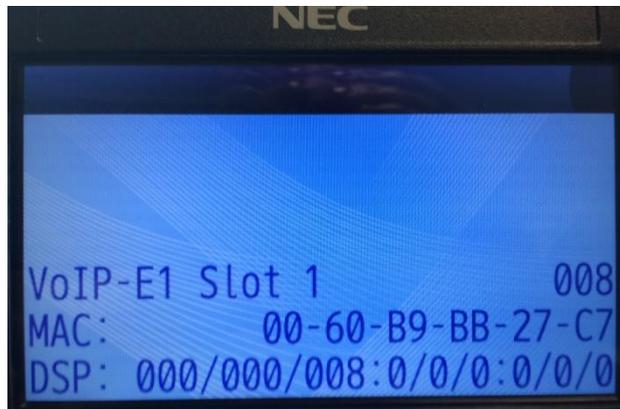


Figure 3: Feature + 4 showing a factory default SV9100 with the free license disabled

ASSIGNING VOIP CHANNEL LICENSES

Warning: This programming should be performed at a suitable time that will not cause disruption to the end user. When PRG10-54 is modified and applied to the system through either WebPro, TelPro, or PC Pro on a standalone system or Netlink Primary node, then after disconnection from programming the system will perform a soft reset to re-initialise the cards. This does not affect Netlink secondary nodes.

When IP device licenses are installed the VoIP channels must be assigned to the GPZ-IPE card. This should be done for a standalone system but also if Netlink is configured for the Primary and Secondary nodes GPZ-IPE cards. This is flexible but recommended to at least match the number of IP devices used at each system.

This is important to do because if not performed and the free license is disabled then the GPZ-IPE will be restricted to only use the 8 free VoIP channels and most likely cause speech issues and many instances of the DSP Busy Alarm being reported.

Licensed VoIP channels can be allocated using *Easy Edit* – [Advanced Items/VoIP/General Settings/VoIP Configuration/Blade License Setup \(PRG 10-54\)](#)

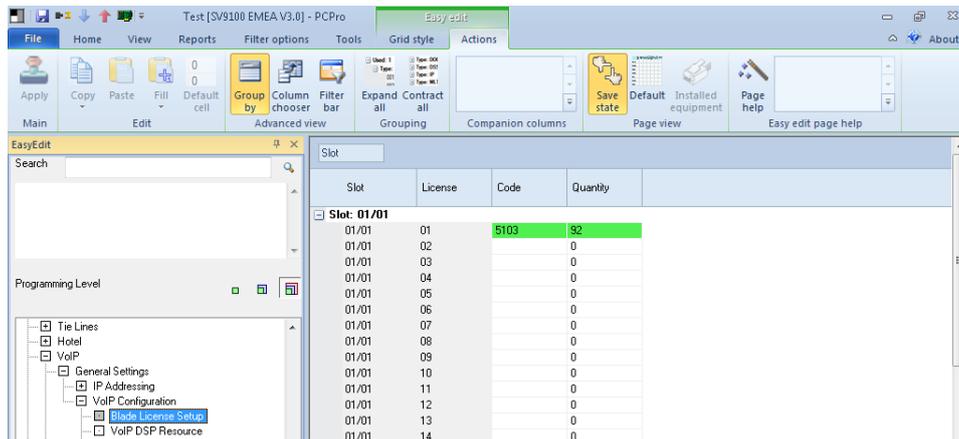


Figure 4: Blade Licensing Setup screen for a standalone or Netlink Primary SV9100 system

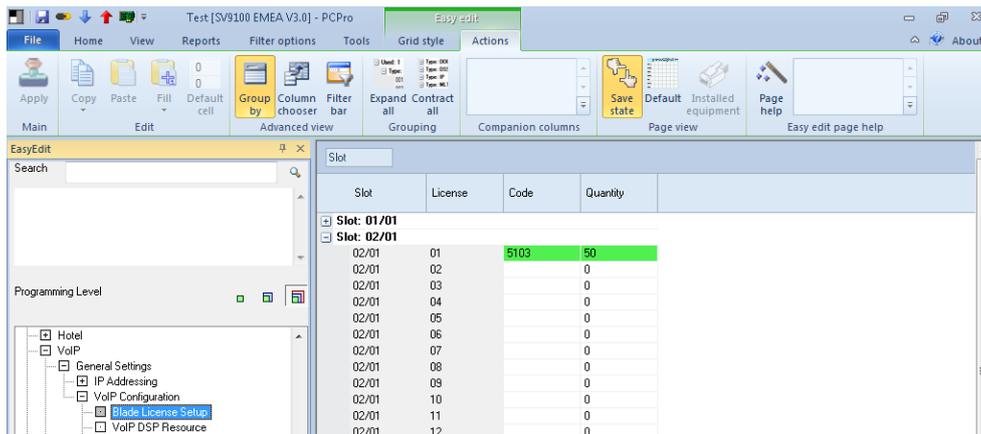


Figure 5: Blade Licensing Setup screen for a Netlink Secondary SV9100 system

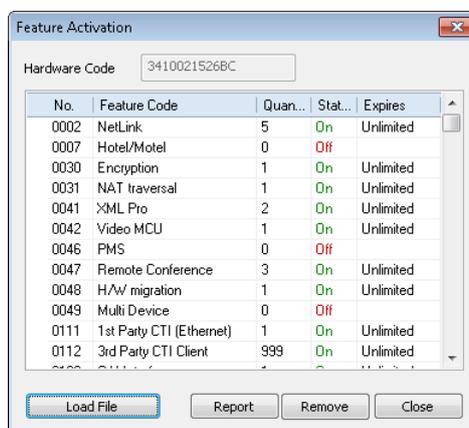
Code - This is the VoIP channel license code and is always entered as **5103**. ([PRG 10-54-01](#))

Quantity - The quantity of VoIP channels to allocate to this systems IPLE card. The maximum number you should enter per system is 248 because this with the 8 free VoIP channels will give you the maximum card capacity of 256. ([PRG 10-54-01](#))

EXAMPLE

This example demonstrates how to increase the available VoIP channels allocated from 8 to 108 when IP licenses have been installed.

SV9100 system has the following IP licenses installed.



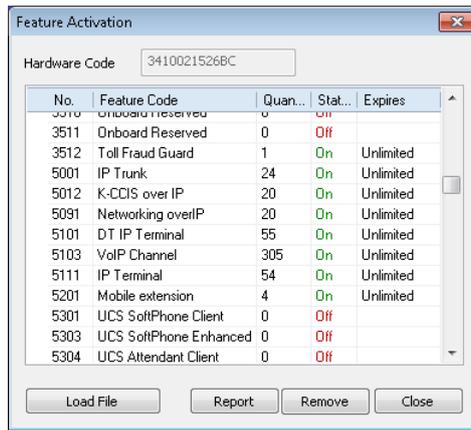


Figure 6: Installed IP device licenses

Based on the IP license table in Table 1 this means the SV9100 system will have the following VoIP channels allocated.

Feature Code	Feature	Quantity	VoIP Channels
0002	Netlink	5	160
5001	IP Trunk	24	24
5012	K-CCIS over IP	20	20 ¹
5091	Networking over IP (AspireNet)	20	20 ¹
5101	DT IP Terminal	55	51 ²
5111	IP Terminal	54	50 ²

¹K-CCIS over IP (5012) and Networking over IP (5091) use the same allocation of VoIP channels, so in this case it would not be 20 + 20 for each, there are just 20 available for both.

²There are 4 less VoIP channels allocated for DT IP Terminals (5101) and IP Terminals (5111) because the quantity displayed in the Feature Activation screen for each of these also includes the 4 free terminal licenses, however the 8 free VoIP channels (5103) are not displayed on this screen.

$$160 + 24 + 20 + 51 + 50 = \underline{305}$$

Now we determine that we want to allocate 108 VoIP channels to the GCD-CP10 at this time so on the *Easy Edit – Advanced Items/VoIP/General Settings/VoIP Configuration/Blade License Setup (PRG 10-54)* screen we allocate a quantity of 100 to code 5103. Apply the settings change, upload and disconnect.

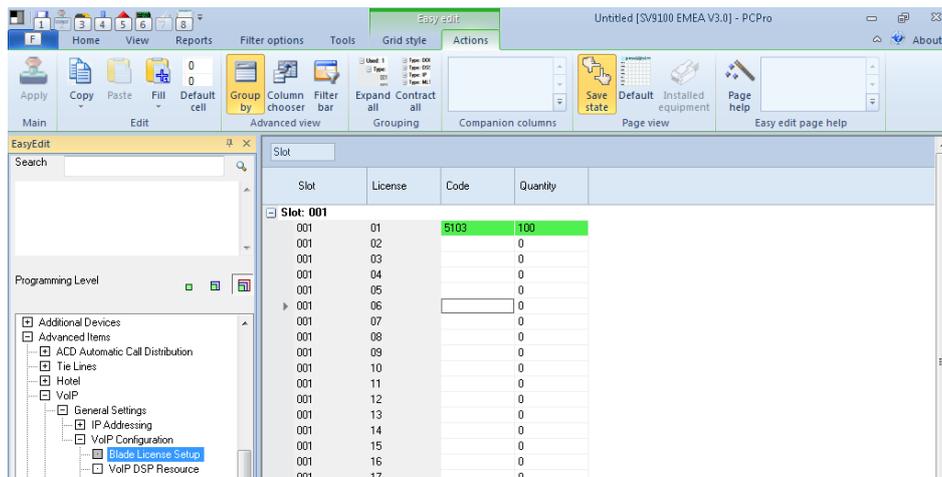


Figure 7: Assigning VoIP channel licenses to a standalone or Netlink Primary system.

The system will automatically re- initialise after disconnecting if it is a standalone or Netlink Primary system.

The new VoIP channels should then be allocated on the GPZ- IPLE and can be confirmed by pressing **Feature + 4** on a keyset.



Figure 8: Licensed VoIP channels allocated to SV9100

108 VoIP channels are now available.

IP DECT Licensing

IP DECT licenses have to assigned to a unique PARI code on the LMS and then installed on the DAP controller, this manual explains how to generate the license file. Instructions on how to install the license on the DAP controller can be found in the IP DECT documentation.

Licenses

The license codes available for IP DECT are listed in the table below.

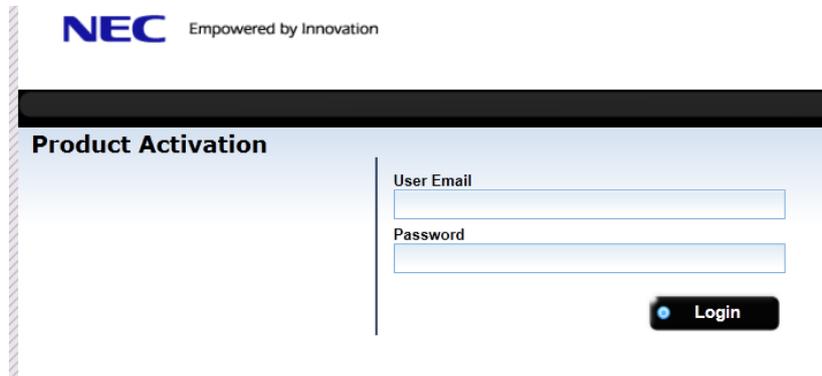
License Code	Description	License Code / Qty
9600 260 49000	DECT PARI LMS	
EU917011	DECT 10 AP Capacity License	DAPS x 10 DSWS x 10
EU917005	IP DECT Redundancy License	DREDND x 1
EU917006	IP DECT Branch Survivability License	DLSURV x 1
EU917027	IPDECT Messaging 1 AP License	DMESS x 1
EU917013	IP DECT Messaging 10 AP License	DMESS x 10
EU917014	IP DECT Messaging 50 AP License	DMESS x 50
EU917015	IP DECT Messaging 100 AP License	DMESS x 100
EU917016	IP DECT Messaging 250 AP License	DMESS x 250
EU917018	IP DECT Location 10 AP License	DLOCI x 10
EU917028	IPDECT Location 1 AP License	DLOCI x 1
EU917019	IP DECT Location 50 AP License	DLOCI x 50
EU917020	IP DECT Location 100 AP License	DLOCI x 100
EU917021	IP DECT Location 250 AP License	DLOCI x 250
EU917023	IP DECT Large Configuration License	DBIGPRJ x 1
EU917022	IP DECT Reflection Cancelling License	DREFL x 1
EU917012	IP DECT I755x License	DXLIC x 1
EU917029	IPDECT Upgrade Allowance 1 AP License	DWSU x 1
EU917000	IPDECT Upgrade Allowance 10 AP License	DWSU x 10
EU917001	IPDECT Upgrade Allowance 50 AP License	DWSU x 50
EU917002	IPDECT Upgrade Allowance 100 AP License	DWSU x 100
EU917003	IPDECT Upgrade Allowance 250 AP License	DWSU x 250

When you have purchased any of these licenses, they will be available in your LMS account.

Generating the License File

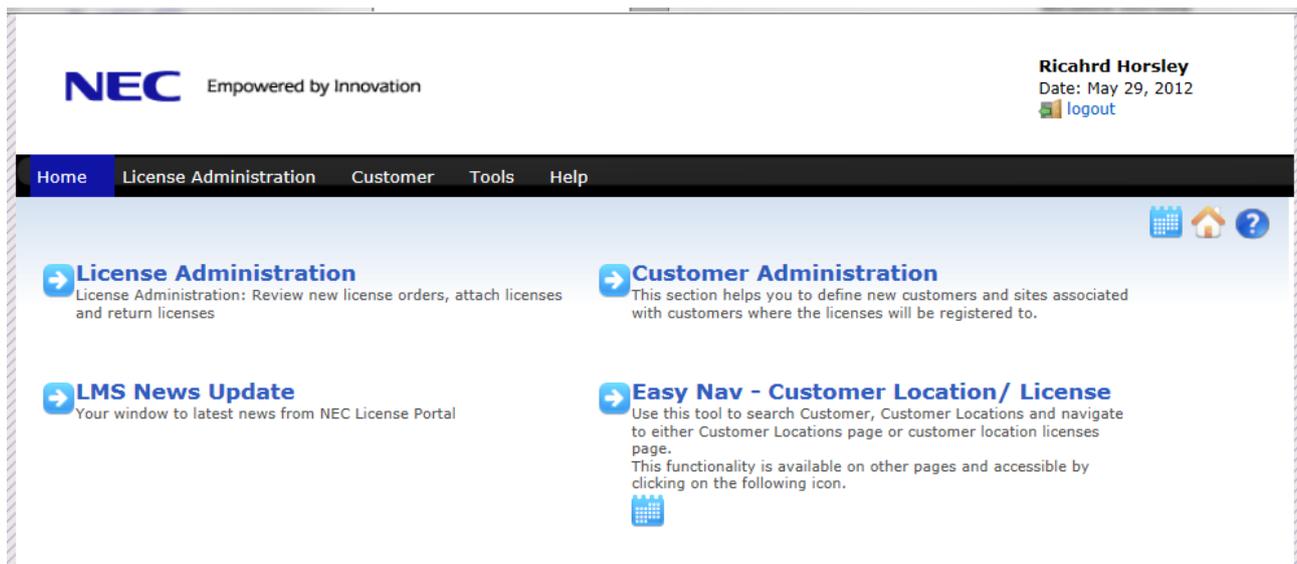
To generate a license file, logon to the LMS <https://emea.neclicense.com/license>

At the home page, enter your login ID or email address and password that have been given to you and click Login.



The screenshot shows the 'Product Activation' login page. At the top left is the 'NEC Empowered by Innovation' logo. Below it is a black header bar with the text 'Product Activation' in white. The main content area has a light blue background and contains two input fields: 'User Email' and 'Password'. Below these fields is a black 'Login' button with a white arrow icon.

When you login, you are taken to the home screen.



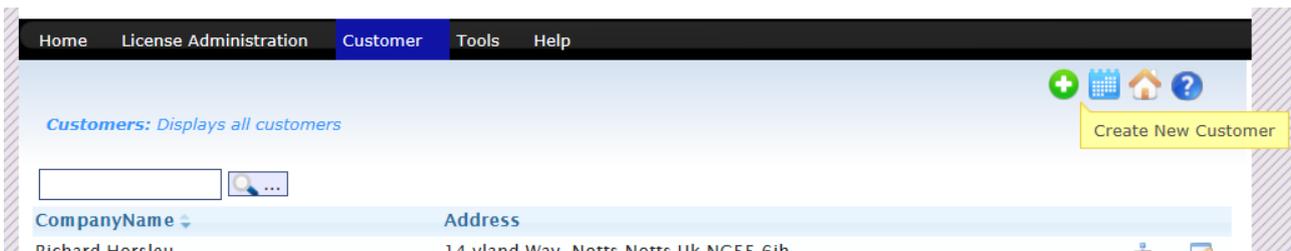
The screenshot shows the home screen of the NEC License Portal. At the top left is the 'NEC Empowered by Innovation' logo. At the top right, the user's name 'Ricahrd Horsley' and the date 'Date: May 29, 2012' are displayed, along with a 'logout' button. Below this is a navigation bar with the following menu items: 'Home', 'License Administration', 'Customer', 'Tools', and 'Help'. The main content area features four tiles with blue arrow icons: 'License Administration' (Review new license orders, attach licenses and return licenses), 'Customer Administration' (This section helps you to define new customers and sites associated with customers where the licenses will be registered to.), 'LMS News Update' (Your window to latest news from NEC License Portal), and 'Easy Nav - Customer Location/ License' (Use this tool to search Customer, Customer Locations and navigate to either Customer Locations page or customer location licenses page. This functionality is available on other pages and accessible by clicking on the following icon.).

Adding a Customer and PARI

Before a license can be generated, a customer has to be created, this contains the address of the company. Once the customer is created then a location can be added that has the PARI code stored against it. If a customer / company have several systems installed in their organisation then these can be added as different locations for that customer. To add a customer, from the homepage, click Customer Administration or click the Customer tab. If you have a customer already created, the PARI code can added as a new location for the existing customer.



A list of existing customers will be displayed, if you are adding a location for an existing customer then click the location button . The Search box can be used to find existing customers. To add a new customer, click the 'Create New Customer' button.



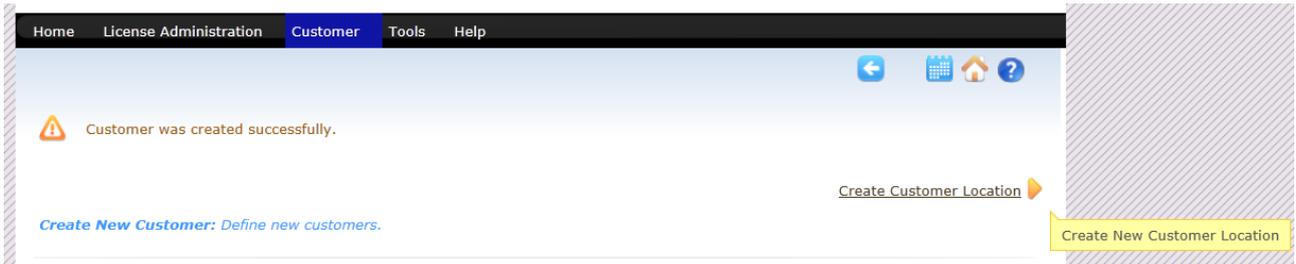
Enter the customer details of the customer and click 'Create.'

The screenshot shows the 'Create New Customer: Define new customers.' page. The form contains the following fields:

Business Name NEC Nottingham	Contact Name David Shovet
Country UK	Fax (optional)
Address Innovation House	E-mail davids@neci.co.uk
City Nottingham	Phone 0115 9695700
State/ Province Notts	
ZIP/ Postal Code NG11 6JS	

At the bottom right of the form is a 'Create' button with a green plus icon.

When the customer has been created, you can click 'Create Customer Location' to add a location and PARI code.



Enter the Location information, including the PARI code then from the System drop down menu, select DECT. Once all the required information has been entered, click Create.

NEC Staff Lab Kits

Location Name NEC IP DECT	System DECT
Address Innovation House	Primary Hardware Key Code AAAAAAAA
City Nottingham	Hardware Version(Optional)
State/ Province Notts	Software Version(Optional)
Country UK	
ZIP/ Postal Code NG116JS	

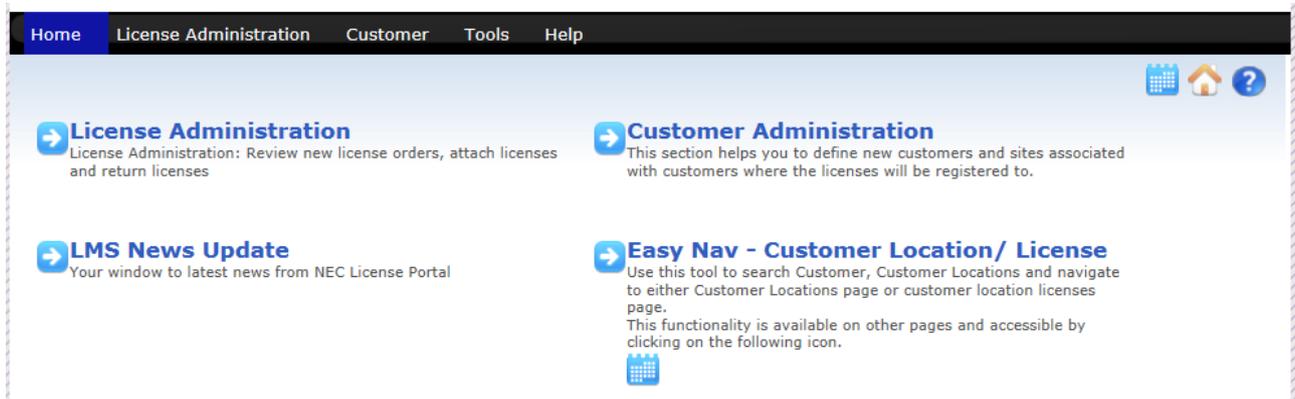
Create

Details for the customer can be checked by clicking back on the Customer tab and searching the customer / company. All locations can be viewed by clicking . Details can be edited / changed by clicking the edit button .



License Administration

Licenses have to be assigned to a customer and then the license file can be downloaded ready to be installed on the DAP controller. It is possible to 'attach' licenses to a customer location before they are activated. This allows you to review and double check all licenses that will be assigned to the system before activating them. Once licenses are activated then they are permanently assign to the PARI. From the home page of the LMS logon screen click License Administration.



Assigning Licenses to a Customer

Under Available Purchase Orders, you can type in a PO number to search. When you have found the correct PO click the  icon to see the licenses that are available. Enter the quantity of each part number in the 'Sel' box that should be assigned to the PARI and click Add.



The licenses that have been added will be displayed along with the selected quantity, licenses can be removed from here by clicking the red  icon. To begin the process of attaching and assigning the licenses to a PARI, click attach.



After clicking Attach, in the Select Customer box, type in the customer name that the license will be assigned to. After typing the first 5 characters, a list of matching customers will be displayed. Select the customer and come down to the Select Location box and type in the location name, again a lookup is performed after typing in the first 5 characters. Select the correct location, verifying the correct PARI is selected.

Once both details have been entered, you can choose to either 'Attach' the licenses to the customer or Cancel. Attach will assign the licenses to the customer but not activate them, this gives you the option add more license from a different PO to the PARI code then review and activate all licenses at once.

If you clicked 'Attach' and wish to add more licenses, you can repeat the procedure '[Assigning Licenses to a Customer.](#)' If you have attached licenses to a customer and wish to activate them, from the LMS Home Page, click 'Customer.'

You can use the Search box to lookup the customer, to see all locations for this customer click the button.

Home License Administration Customer Tools Help	
Customers: Displays all customers	
<input type="text" value="NEC"/> <input type="button" value="Search"/>	
CompanyName	Address
NEC Nottingham	Innovation House Nottingham Notts UK NG11 6JS

From the list of locations, you can click license information and you will see the attached licenses. These licenses can then be activated.

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Change Customer

stew

Name	Hardware Key Code			
Stewart IP Dect #2- DECT	101E104B	✓		
Stewarts IP Dect- DECT	101E102B	✓		

Activating Licenses

Once a license is activated, it is permanently assigned to the PARI and the action cannot be undone, take care when assigning licenses to make sure they are assigned to the correct customer / PARI. Always review the quantity of the license to make sure it is correct.

Attached Licenses

Software Key Code	Part Name(Number)	Qty	Purchase Order	SalesOrder	
<input type="checkbox"/> NMDEVELA2F5J6AXTAG8T	IPDECT Messaging 1 AP Lic (EU917027)	1	IP Dect Release Testing	IP Dect Release Testing	

Activate

Licenses can be Detached by clicking the icon. Detaching a license will put the licenses back into the pool of available licenses.

Attached Licenses

Software Key Code	Part Name(Number)	Qty	Purchase Order	SalesOrder	
<input type="checkbox"/> NMDEVELA2F5J6AXTAG8T	IPDECT Messaging 1 AP Lic (EU917027)	1	IP Dect Release Testing	IP Dect Release Testing	

Activate

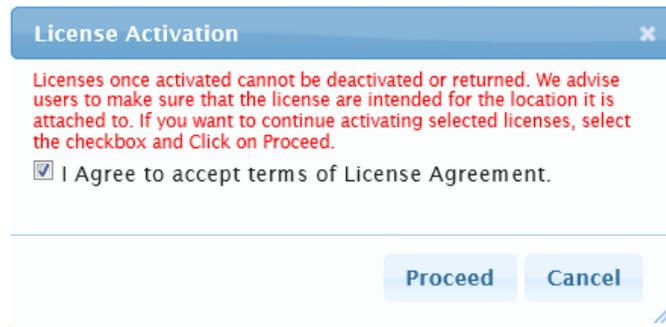
To proceed with activating the licenses check either the higher level box to select all licenses or each license can be selected individually, click Activate to continue.

Attached Licenses

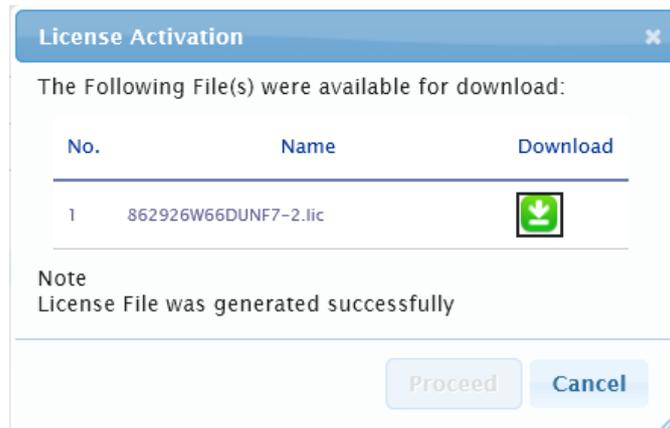
Software Key Code	Part Name(Number)	Qty	Purchase Order	SalesOrder	
<input checked="" type="checkbox"/> NMDEVELA2F5J6AXTAG8T	IPDECT Messaging 1 AP Lic (EU917027)	1	IP Dect Release Testing	IP Dect Release Testing	

Activate

Read the displayed text and to continue, select, I Agree and click Proceed.



The license file will be made available to download, click the  button to download the file.



The file that has been downloaded can now be installed on the DAP controller.

Revision History

Release	Author	Reason
1.0	Richard Horsley	1 st Release on SV9100
1.1	Richard Horsley	Added description about entering the hardware key in uppercase on the SV9100. Re-iterated the need to install the R2 license on all systems.
1.2	Richard Horsley	Corrected Typo on page 4 where it incorrectly referred to BE114042 code with license code 0030 rather than 0300. Added R3 Feature License Added Description on IPLE VoIP Channel Assignment.
1.3	Nigel Witts	Add On Board Application – Toll Fraud Guard

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