SV8100 Cheat Sheet

NEC ML 440

The NEC ML440 consists of the AP20 access point and the ML440 handset shown below. The AP20 is powered by POE (802.3af) ONLY.



- Single AP site supports up to 10 simultaneous calls. A multi AP site supports up to 8 simultaneous calls.
- Voice Announce is NOT supported (there is no alert Tone).
- ML440 uses NEC i-SIP so each handset requires one IP Phone license (license 5101).
- ML440 only supports G711.
- ML440 does not work with UCB or Desktop Suite/Attendant.
- Maximum handsets that can register to one AP20 is 30.
- AP20 can be defaulted by depressing the small button on the rear side until the Status light turns red.

Programming

- 1. From default an IP address can only be assigned to the AP20 via DHCP. This can be done with the built in DHCP server on the SV8100 (10-13-01), via the customers DHCP server, or by using a 3rd party application such at Tftpd32. Once the AP20 has an IP address the status light will be a steady green.
- 2. Take a ML440 handset and press the 😑 key followed by * 4 7 * you should then see something like the following.....

IP Search MAC: 00:08:7B:07:E1:13 IP: 172.16.1.101

Take note of the IP address and access this from a browser on the same network.

 Once connected you will be prompted for a login and password. The default is "admin" and "admin". The user name and password can be changed from the "Web Security" option within the AP20.

Connect to 172.1	16.1.101 🛛 🛛 🔀
9	GR
The server 172.16.1 password. Warning: This serve password be sent in without a secure co	.101 at requires a unername and ris requesting that your username and an insecure namer (basic authentication metion).
User name:	2 ×
Essavord	
	Benember my password
	OK Cancel

4. You will be taken to the Home/Status screen. Select "Management" from the side menu.

NEC	Front	foyer area
Home/Status	Management Settings	Base Station Name allows you to label the individual AP's for ease in location and troubleshooting.
Extensions	Base Station Name:	Front foyer area
Servers	Configuration server address:	
Network	Management Transfer Protocol:	TFTP
Management	Upload of SIP Log:	Disable 💌
Firmware Update	Trace Server: Trace Server IP-Address:	Disable
Country	Syslog Server IP-Address:	
Web Security	Syslog Server Port:	514
Central Directory	Syslog Level:	Normal Operation 🛛 👻
	The other options on this page are for trouble shooting only and can be left at default.	

5. From the side menu select the option "Servers" to add the SV8100 IP Address.

Server 1: 172.16.0.10:5080		1		
SIP Server:	172.16.0.10:5080			10-12-09 along with :5080.
Reregistration time(s):	300			The Registration time(s) should be left at default. DTMF Signaling should be set
DTMF Signalling:	SIP INFO	~	\geq	to <i>SIP INFO</i> to follow i -SIP signaling.
	G711U G711A			The Codec Priority must be left at <i>G711U</i> as this is all that
Codec Priority:	G726	_		is supported at this time.

6. Select "Extension" from the side Menu then the "Add Extension" link.

E	xtei Serv 172.16 Serv	nsion ver 1 	15 1: 080					
		Idx	Extension	Display Name	IPEI	State	FW Info	FWU Progress
	Ther	e are c	urrently no ext	ensions for server 1				
	Add e	<u>extens</u>	ion					

Adding a Station (Plug And Play)



01 - Register Mode

Plug and Play 🔻



8.

Extensions <u>Server 1</u> : ^{172,16.0.10:5080} Server 1:		One then	e saved che select "Reg	ck the box and ister Handset(s)				
		Idx	Extension	Display Name	IPEI	State	FW Info	FWU Progress
	2	<u>0</u>	<u>Ext001</u>		FF:FF:FF:FF			
<u>Ch</u> Wit	<u>Check All</u> / <u>Uncheck All</u> With selected: <u>Delete Extension(s)</u> <u>Register Handset(s)</u> <u>Deregister Handset(s)</u>							

After selecting "Register Handsets(s)" take the first handset and press the "Menu"





icon will be highlighted. Select "Enter". You will then be prompted for the Access code 9. The

Enter the default "Access code" of "0000" followed by the left Soft Key directly below "Ok".

- 10. After a few seconds the handset display will change to the station name (15-01-01) directly above the ext number (11-02-01).
- 11. Using 20-06 assign the ML440 handset extensions to their own unique Class of Service for all Night Modes utilized. E.g. COS 2 for all modes.

20-08: Class of Service Options (Outgoing Call Se	ML440 feature	does NOT support intercom Voice Call so this must be disabled.
Class of Service (1~15) 2 4	a.	First at all ML440 stations dial the access code to force intercom ringing (default 723 prog 11-11-16)
11 - Call Mode Switching Protection from Caller (Internal Call)	b.	For the new Class Of Service the ML440
		20-08-11 to stop callers from changing the
20-09: Class of Service Options (Incoming Call Ser		ringing ML440 to Voice Call.
Class of Service (1~15) 2 Q 4	C.	For the new Class Of Service the ML440 extensions have been assigned, disable
05 - Handsfree Answerback/Forced Intercom Ringing Switching		20-09-05 and this will prevent the ML440 user from dialing the Voice Call access code (default 721 , prog 11-11-15)

Adding a Station (Manual/Automatic)

10-46: DT700 Server Information Setup 01 - Register Mode Manual

12. Some systems may already be configured for Manual or Automatic Login. If this is the case the ML440 sets can be assigned with the following procedure.

Within PCPro go to Programming, Unregistered Phones, IP Phone List ... and select the ML440 extensions you intend to bring online.



13.

14.

Go to 15-05-27 and assign a unique Personal ID Index to each of the extension.



In 84-22 assign a User Id and

Password for each of the personal ID Index numbers assigned in step 13.



15.

Network Settings	gs ;	
Local SIP port:	5060	
SIP ToS/QoS:	0x68	
RTP port:	50004	
RTP port range:	40	
RTP ToS/QoS:	0xB8	
SIP registration mode:	Static 🖌 🗸	

Browse into the AP20 and perform steps **1~5** (pages 2 and 3 of this doc). Then select **Network** from the side menu to access the **Network Settings**. Go to the **SIP/RTP Settings** and change **SIP registration mode:** to **Static** Go back to the **Home/Status** page and select the **Reboot** button at the bottom left side of the screen. Allow the AP20 to reboot and come back online.

16.

After logging back into the AP20 select the **Extensions** option from the side menu and the click on **Add extension**. Enter the extension number along with the **User Name** and **Password** previously assigned in **84-22** in step 14

Add extension	
Extension:	133
Authentication User Name:	Pat
Authentication Password:	•••
Display Name:	
Server:	Server 1: 172.16.0.10:5080 💌
	Save Cancel

17. Finally follow steps 8 through 11 on page 4 of this doc to complete bringing the handset on line.

Additional Handset Programming

With the phone online programming of the handset is like any other deskset. The device can have key programming for up to 16 keys but only the first 4 can be accessed.

As the station is in another COS do not forget to enable the other stable options such as receiving Caller ID (**20-09-02**) and Sending caller ID (**20-08-13**).

Multi-Cell Installation

Most installations will require additional AP20's to provide the wireless coverage of the customer's working area. Each area the AP20 covers is called a "Cell". Each cell must overlap another cell so that the calls in progress can be seamlessly passed between AP20's as the handset moves between covered areas.

In a Multi-Cell layout 1 AP20 acts as the primary timing/synchronization source for the entire WL440 network. Other AP20's overlap the primary AP20 at different levels. A direct overlap with the primary would be level 1. An overlap into a level 1 cell would be a level 2 and so on. See the diagram below.

