# **NMC** Meeting Center

**Integration Guide** 

N E C NEC Corporation

July 2017 NDA-31834, Issue 1

## **Liability Disclaimer**

NEC Corporation reserves the right to change the specifications, functions, or features, at any time, without notice.

NEC Corporation has prepared this document for the exclusive use of its employees and customers. The information contained herein is the property of NEC Corporation and shall not be reproduced without prior written approval from NEC Corporation.

NEAX and Dterm are registered trademarks of NEC Corporation.

#### © 2017 NEC Corporation

Microsoft and Windows are trademarks of Microsoft Corporation.

All other brand or product names are or may be trademarks or registered trademarks of, and are used to identify products or services of, their respective owners.

# Contents

Overview 1-1
How This Guide is Organized 1-1
Introduction
Value Added Service (VAS).1-1Audio Conferencing Application1-1Web Conferencing Application1-2Mass Notification Application1-3
Required Licensing 1-3
Calculating Required Ports for Mass-Notification
Training1-5NMC Technician Training1-5NMC End-User Admin Training1-6
Integration
Customer Site Requirements 1-7

NMC Software Installation and Network Configuration				
Software Installation	2-1			
NMC Network Configuration	2-7			
Changing Network Settings	2-8			

Virtual Server Installation		
Installation in Virtual Environment	3-1	

MC Administrative Setup	4-1
Uploading Application License	4-1
Applying the NMC Application License	4-2
Configure NMC System Parameters Set up a SIP Extension between SV9100/SV9300/SV8100 and th	4-4 ne NMC 4-5
Set up Administrator Profile	4-5
SV9300 Standard SIP Station Programming Data Assignment for Standard SIP Terminal with Register Data Assignment for Standard SIP Terminal without Register	
SV9100 Integration Programming	4-22
SV8100 Integration Programming	4-28

Upgrading NMC Meeting Center	5-1
Description	5-1
Online Update	5-1
Manual Update	5-2

# **Figures**

#### Title Figure Page 1-1 NMC Technician Training Registration ..... 1-5 1-2 2-1 2-2 NMC Installation Screen – Boot into DVD Disc 1 ..... 2-3 2-3 Network Parameters Configuration ..... 2-4 2-4 2-5 NMC Installation Process ...... 2-5 2-6 System prompts for DVD Disc 2 ..... 2-6 2-7 NMC Administrator Login Page ..... 2-7 2 - 82-9 NMC Login Page ...... 2-9 2-10 Reboot to Configure Settings. ..... 2-10 4-1 NMC Administrator Login Page ..... 4-2 4-2 4-3 4-4 System Settings Page ...... 4-4 4-5 Edit Circuit Group Screen ..... 4-5 Account Profile Page ..... 4-6 4-6 SV9300 Basic System Settings (1) ..... 4-7 4-7 4-8 SV9300 Basic System Settings (2) ..... 4-8 SV9300 Basic System Settings (3) ..... 4-9 4-9 4-10 4-11 SIP Converter Data Assignment (1) ..... 4-11 4-12 SIP Converter Data Assignment (2) ..... 4-12 SIP Converter Data Assignment (3) ..... 4-13 4-13 4-14 PS/Standard SIP Station Configuration Settings..... 4-14 4-15 CM42 System Counter Data Settings ..... 4-15 4-16 CM2B Authorization Code Per Station Settings ..... 4-16 4-17 CMFA Station Apparatus Information Settings ..... 4-17 4-18 SIP Converter Data Assignment (4) ..... 4-18 4-19 Data Assignment for Standard SIP Terminal without Register (1). . . . 4-19 4-20 Data Assignment for Standard SIP Terminal without Register (2).... 4-20 4-21 Standard SIP Station Connection Status. ..... 4-21 5-1

iv Figures

# Tables

Table	Title	Page
1-1	Mass Notification Port Calculations	1-4
1-2	Customer Site Networking Parameters	1-7
3-1	Support Virtual Machine Configuration	3-1

vi Tables

# **Overview**

## How This Guide is Organized

Chapter 1 Overview	This chapter provides an overview of the features, licensing requirements, available training, and customer site parameters of the NMC.
Chapter 2 NMC Software Installation and Network Configuration	This chapter details the procedures required to install the NMC software and configure the network.
Chapter 3 Virtual Server Installation	This chapter explains the installation of the OVA image of NMC Audio Conference Server software release 8.0 on the VMware ESXi host.
Chapter 4 NMC Administrative Setup	This chapter details the procedures required to perform NMC Administrative Setup.
Chapter 5 Upgrading NMC Meeting Center	This chapter details the procedures required to upgrade NMC Meeting Center.

## Introduction

The NEC Meeting Center (NMC) provides a collection of Value Added Service (VAS) applications. These applications can be hosted on physical or virtual servers (e.g., VMware). The NMC integrates with the UNIVERGE SV9100/SV9300 via SIP stations.

## Value Added Service (VAS)

## Audio Conferencing Application

The Audio Conferencing Application provides a rich conferencing experience for demanding users by providing the following features.

- Supports both reservation-less and reservation based audio conferences.
- Customizes each audio conference room per your requirements, e.g., select entry tones, select memorable vanity PINs, turn recording on/off, select enter audio conference muted on/off, select Moderator presence required or not etc.
- Schedules recurring audio conferences via the Web Portal. Uses Microsoft Outlook iCalendar application to send invitations to desired participants.
- Offers a HTML-5 based Web Portal for seeing real time view of a running audio conference. Ability to see/edit Participant's name on the Web Portal and is PC and iPAD compatible.
- Displays loudest speaker. Allows the identification and muting of a participant who may be inadvertently injecting noise into the audio conference.
- Exercises multiple in-conference controls via phone key presses or the Web portal.
- Automatically mute noisy lines or lines with excessive echo.
- Merges two or more audio conferences into one without dropping any calls. Transfers participants between conferences.
- Sends a detailed end of conference summary report to the moderator after a given audio conference is over.
- Records the entire conference or excerpts from a conference and playback via PC's media player. (Requires the enhancement license.)
- Triggers a dial-out conference based on a) incoming phone call, or
   b) a click on a web portal.
- Supports unlimited number of call out groups.
- Sends a greeting message prompting recipients to join the conference (Selects communications medium to be used for message delivery (Voice only, Email only, or both).
- Schedules one time or recurring dial out calls.
- Provides summary and detailed reports on call completions (Busy, No Answer, Answering machine etc.).
- Provides usage reporting.

#### Web Conferencing Application

Web Conferencing Application is designed to significantly boost the productivity of your meetings and offers the following features:

- Web based application, Client download required only for the presenter.
- Web Browser: Internet Explorer 8 and above, Chrome, Firefox, Mac Safari
- Desktop sharing
- · Application sharing
- Participant control sharing
- Instant messaging

- Bandwidth optimization control
- Detachable windows, dual monitor support
- Webinar support stream Microphone audio and Webcam video while sharing Desktop or an Application.
- Provides usage reporting.

#### Mass Notification Application

The Mass Notification Application is designed to send a large number of messages to people during emergency and non-emergency situations. Mass Notification offers the following capabilities:

- Select one or more communication mediums to be used for message delivery (Voice only, Email only, SMS using SMTP, etc.).
- Uses built-in '**Find-you**' capability to increase the probability of delivering a message.
- Multiple automatic retries of un-contacted members.
- Controls the speed of dialing out.
- Displays real time call activity and a progress bar on a Web Portal.
- · Abandon a Group Alert in progress via web portal or through DTMF.
- Provides summary and detailed reports on call completions (Busy, No Answer, etc.).
- Provides usage reporting.

## **Required Licensing**

On the UNIVERGE SV9100/SV9300 system, the following licensing is required:

- The SV9100 will require the appropriate number of System Resource Port license (0300) and IP station license (5111).
- The SV9300 will require the appropriate number of Port capacity license and Standard SIP station license.
- The SV8100 will require the appropriate number of IP station license (5111).

On NMC Meeting Center, the following licensing is required:

- Maximum quantity of simultaneous audio conference ports.
- Maximum quantity of simultaneous web conference ports.
- Maximum quantity of simultaneous mass notification ports.

## **Calculating Required Ports for Mass-Notification**

Regarding Mass Notification, determining how many ports a customer needs is based on the following combinations:

- How long is their greeting message.
- How long is their message body.
- How many times do they estimate a phone will ring before someone answers (estimate 6 seconds per ring cycle).
- How many different telephone numbers will be dialed before one individual is reached (NMC allows up to 4 telephone numbers to be dialed. If the person does not answer on first number, NMC can second, then third and finally the forth number to try and get an answer).
- How many times will they allow individuals who have answered a notification to replay the message.
- If the NMC dials all the telephone numbers for a party and they have not answered the call yet, how many times should NMC attempt to call "unreached parties".
- · How many people do they need to notify via a voice call.
- How fast do they want all these people to be notified or put another way, within what time period must these people be notified.
- If the NMC dials all the telephone numbers for a party and they have not answered the call yet, how many times should NMC attempt to call "unreached parties".
- · How many people do they need to notify via a voice call.
- How fast do they want all these people to be notified or put another way, within what time period must these people be notified.

Within the NEC Anytime Studio, the below methodology presented from an Excel sheet is available next to the Mass Notification Port entry question. Table 1-1 provides an example of this Excel Sheet input:

Items to Consider	Input Quantity	Unit of Measurement	Notes
Greeting Time	6	Seconds	If Greeting/Notification is to be played to all callers.
Message Time	15	Seconds	Message time to be played.
Ring Time	18	Seconds	Ring time until recipient answers call.
Quantity of phone numbers called per "party to be called"	2		On average, quantity of phone numbers that will be called per "party to call" before the party answers and receives the notification.
Quantity of times to replay message	1		Average quantity of times to replay message body if the called party selects to have the message replayed.
Quantity of times to retry called parties if they do not answer any of their numbers this first time through	1		Quantity of times to retry unanswered calls
Quantity of parties to call	1000		Number of people to be contacted via voice call
Time period within which to complete all calls	60	Minutes	Time within which to call all voice participants.

#### Table 1-1 Mass Notification Port Calculations

Items to Consider	Input Quantity	Unit of Measurement	Notes
Quantity of ports needed	18		



The quantity of System ports must be equal to or greater than the greatest quantity selected for Audio, Emergency or Mass Notification ports.

## Training

## NMC Technician Training

To receive technical support on the NEC Meeting Center Application, your technicians must be certified. Certification Training is online within **MyNEClearning.com** and is free of charge. Within MyNEClearning, type NEC Meeting Center into the search dialog box to register and take the online certification training as shown in Figure 1-1.

Figure 1-1 NMC Technician Training Registration

Home Course Catalog			
Course Catalog			
Filter Catalog	Search Results		
By Product	NTCD000001 - Unified Communications for Enterprise (UCE) Customer Product Demonstrations Delivery: Online Audience: End User, Public		
	NTCD000002 - NEC UNIVERGE Business ConneCT Customer Product Demonstrations Delivery: Online Audience: End User, Public		
	NTCD000003 - NEC Global Navigator Customer Product Demonstrations Delivery: Online Audience: End User, Public		
	NTCD000005 - NEC Meeting Center XMP Customer Product Demonstrations Delivery: Online Audience: End User, Public		
	NTCD000006 - NEC UNIVERGE SV8500 Customer Product Demonstrations Delivery: Online Audience: End User, Public		
	NTCD000007 - NEC Communications Analyst Customer Product Demonstrations Delivery: Online Audience: Erd User, Rubic		

## NMC End-User Admin Training

NEC Meeting Center end-user online administration training can be found at http://www.myneclearning.com/video/externaltraining/ index.html. See Figure 1-2.

Figure 1-2 End-User Admin Training Registration

ome 🕐 Course Catalog			
Course Catalog			
-			
ritter catalog	Starth Results		
By Product NY	NTCD000001 - Unified Communications for Enterprise (UCE) Customer Product Demonstrations		
	Delivery: Online Audience: End User, Public		
	NTCD000002 - NEC UNIVERGE Business ConneCT Customer Product Demonstrations		
	Delivery: Online Audience: End User, Public		
	NTCD000003 - NEC Global Navigator Customer Product Demonstrations		
	Delivery: Online Audience: End User, Public		
	NTCD000005 - NEC Meeting Center XMP Customer Product Demonstrations		
	Delivery: Online Audience: End User, Public		
	NTCD000006 - NEC UNIVERGE SV8500 Customer Product Demonstrations		
	Delivery: Online Audience: End User, Public		
	NTCD000007 - NEC Communications Analyst Customer Product Demonstrations		
	Delivery: Online Audience: End User, Public		

## Integration

Follow the steps below to integrate the NMC server.

- Step 1 Setup the NMC server and install the NMC Software Disks. Refer to NMC "Software Installation" on page 2-1.
- Step 2 Configure network integration on the NMC Server, i.e. IP Address, Default Gateway, Host Names, etc. Refer to "NMC Network Configuration" on page 2-7.
- Step 3 Begin administrative setup within the NMC application, i.e. load license file, input URL Host Names, define SIP station interface to SV9100/SV9300/SV8100, input or import users, groups, etc. Refer to "NMC Administrative Setup" on page 4-1.
- *Step 4* Configure integration within the UNIVERGE SV9100/SV9300/SV8100 system, i.e. Extension/DID numbers, etc.

## **Customer Site Requirements**

Table 1-2 lists items that need to be provisioned on a typical NMC system. This table should be completed before beginning the installation process.

Row #	Parameter Name	Parameter Value Example	Parameter Value for this Installation
1	IP Address of NMC	10.1.1.252	
2	Subnet Mask	255.255.255.0	
3	Gateway IP Address	10.1.1.1	
4	Primary DNS Address	10.1.1.211	
5	Secondary DNS Address	8.8.8.8	
6	Admin GUI Hostname	nmc.acme.com*	
8	NTP Time Server address	pool.ntp.org	
9	Dial in Phone Number for the NMC	(972) 555 1212	
10	IP Address of SV 9100 (Circuit Group Address)	10.1.1.250	

Table 1-2 Customer Site Networking Parameters

\*The site network administrator will need to create a DNS entry that points the Admin GUI Hostname (e.g., nmc.acme.com) to the NMC's IP address (e.g., 10.1.1.252) or whatever the assigned address is for the specific installation). This is needed to allow users outside the office to access the NMC Web Portal by typing the hostname in the URL window of their browser.

1-8 Overview

# 2

# NMC Software Installation and Network Configuration

This chapter provides step-by-step procedures to install and configure the NMC software. Descriptions and procedures are found in the following sections of this chapter.

Chapter Topics

Software Installation
NMC Network Configuration

NEC Meeting Conference release 8.0 may be installed on a physical or virtual machine.



The system administrator should configure BIOS for server to boot into DVD-ROM as first boot priority.

## **Software Installation**

*Step 1* Power on the server and press **F2** or **DEL** key during POST process to enter the BIOS setup. Figure 2-1 displays.



- **Step 2** Follow the on-screen instructions to configure the BIOS for CD-ROM as the first boot priority.
- *Step 3* Save BIOS configuration by pressing **F10** and select **YES** to confirm changes.
- Step 4 The server should boot from DVD Disc 1. Press Enter to install the Operating System and NMC application on the server. Refer to Figure 2-2.



Figure 2-2 NMC Installation Screen – Boot into DVD Disc 1

Step 5 When the installation process prompts for configuring TCP, use the arrow and space keys to enable IPv4 Support and select Manual Configuration for LAN interface. See Figure 2-3.



Figure 2-3 Network Parameters Configuration

- Step 6 Navigate to the OK button and press space to confirm.
- Step 7 Enter IP Address, Subnet Mask, Gateway and DNS information. The numbers entered in Figure 2-4 are for demonstrative purpose only, contact your network administrator for details.



This information should be defined based on the information supplied in Table 1-2, "Customer Site Networking Parameters" on page 1-7.



**Step 8** The system begins installing and a progress bar displays showing the status as shown in Figure 2-5.

Figure 2-5 NMC Installation Process



Step 9 When prompted, remove DVD Disc 1, then insert DVD Disc 2 into server DVD-ROM to continue NMC application installation, as shown in Figure 2-6.

Ø NMC	×
Ele View VM	
wount: you must specify the filesystem type	
mount: you must specify the filesystem type	
wount: you must specify the filesystem type	
witing for Disc 2 wount: you must specify the filesystem type	
witing for Disc 2	
witing for Disc 2	
wint: you must specify the filesystem type witing for Disc 2	
ount: you must specify the filesystem type witing for Disc 2	
ount: you must specify the filesystem type	
ount: you must specify the filesystem type	
aiting for Disc 2 ount: you must specify the filesystem type	
witing for Disc 2 wount: you must specify the filesystem type	
witing for Disc 2	
witting for Disc Z	
wount: you must specify the filesystem type Writing for Disc 2	
mount: you must specify the filesystem type witing for Disc 2	
mount: you must specify the filesystem type	
mount: you must specify the filesystem type	
Aiting for Disc 2 wount: you must specify the filesystem type	
whiting for Disc 2	
Aniting for Disc 2	

Step 10 Open the Web Browser found at the top of the Centos Shell and point it to http://192.168.0.207 (default IP Address for NMC Administration Page on the Local Machine). This will take you to the login to the NMC Administrator. See Figure 2-7. Default username and password is admin, admin, respectively.

## Figure 2-6 System prompts for DVD Disc 2

Figure 2-7 NMC Administrator Login Page	
NEC	Orchestrating a brighter world
	NEC Meeting Center
	Manage Your Account
	t Name
Pa	ssword Sign In

## **NMC Network Configuration**

This section provides the steps required for changing the default network settings to those applicable to the site as per Table 1-2.



The NMC default IP address is 192.168.0.207.

### **Changing Network Settings**

This chapter provides the steps required for changing the default network settings to those applicable to the site, as per Table 1-2. Note that the NMC has a default IP address of **192.168.0.207**.

The user can use their laptop PC for making the changes to the network settings of the NMC. In order to do that, the user needs to temporarily change the IP address of the laptop so that they can access the server over a directly connected Ethernet cable.

Change the TCP/IP settings of your laptop. Refer to Figure 2-8.

Use your PC's Start menu to go to: Settings > Network and Internet > Ethernet > Change Adapter Options > Local Area Network > Properties.

Figure 2-8 TCP/IP Settings

Internet Protocol Version 4 (TCP/IPv4) Properties		
General		
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator	
Obtain an IP address automatical	y	
Use the following IP address:		
IP address:	192.168.0.99	
Subnet mask:	255.255.255.0	
Default gateway:	192.168.0.1	
Obtain DNS server address autom	natically	
• Use the following DNS server add	resses:	
Preferred DNS server:		
Alternate DNS server:		
Validate settings upon exit	Advanced	

Use a browser and go to http://192.168.0.207 and login as System Administrator. See Figure 2-9.

Figure 2-9 NMC Login Page	
Orchestrating a brighter world	NEC
Conference Center Manage Your Account	
Account Name Password S	ign In

Use the following credentials to log in:

- Account Name: admin
- Password: admin

Follow the steps below to change the Network Settings.

- *Step 1* Go to Administration/Network Settings tab and enter the data from Table 1-2, "Customer Site Networking Parameters" on page 1-7.
- Step 2 Enter the Hostname, IP address, Gateway IP address, Subnet Mask IP address, and the Primary and Secondary DNS IP addresses. Press Apply.
- Step 3 Enter the System Clock and Time zone information. Press Apply.
- Step 4 Enter the Email Relay related information. Press Apply.
- Step 5 Enter the NTP Server URL. Press Apply.
- *Step 6* Press Reboot for the new network settings to get configured on the NMC. Refer to Figure 2-10.

	N	etwork Setup	
Host Name and IP Addresses		Email Relay	
Hostname	NMC	Relay Server Addr	ess mail.necam.com
Ip Address	10.1.1.205	User Na	me nmc@necam.com
Gateway	10.1.1.1	Passw	ord +++++
SubNetmask	255.255.255.0	Authentica	ion PLAIN ·
Primary DNS	10.1.1.1		Apply
Secondary DNS		CTest Email Address	
	Apply	To	From
	adding.		
			Test Email
			Show Mail Log
- Contract Clark and Timeroon			
System Clock and Timezone		NIP Server	while conchronized
System Cock 2017 •			ick is synchronized
System diffezore yourroom	20) 631	IP Address	0.us.pool.ntp.org
	Apply		-
			white a

Now as the local networking parameters are configured on the NMC, disconnect the Ethernet cable between your laptop and the NMC and reconnect it to the local LAN. At this point, you should be able to use any networked computer to access the NMC's web portal.

# **Virtual Server Installation**

## Installation in Virtual Environment

For the procedure of creating a virtual instance, each virtual environment such as VMware, Hyper-V, etc. has its own procedure to spin a new slice of virtual machine. You need to reserve CPU, memory and storage based on NMC system ports and our minimum requirement for NMC virtual machine shown in Table 3-1.

# of Ports	100	250	500	1000
# of Cores	4	8	12	24
Clock Speed (GHz)	2.5+	2.7+	2.7+	2.7+
Hyper Threading	Yes	Yes	Yes	Yes
Resource Reservation	Required	Required	Required	Required
RAM	4 GB	8 GB	12 GB	16 GB
Hard Disk (Minimum size)	32 GB	64 GB	128 GB	256 GB

Table 3-1 Support Virtual Machine Configuration

Follow the steps below to deploy a virtual NMC:

- Step 1 Follow the virtual machine vendor (e.g. VMware, Hyper-V) to spin a slice of virtual machine that will have CPU, memory and storage allocated according to our recommendation in Table 3-1. (For storage, choose the option to simulate fixed storage, NOT dynamic.)
- *Step 2* For each virtual environment, you need to follow their procedure to reserve the resources to guarantee NMC server performance.
- Step 3 Boot the virtual machine to CD-ROM to install software for NMC server like you do for a physical server (refer to "NMC Software Installation and Network Configuration" on page 2-1 and follow DVD Deployment steps).

## 3-2 Virtual Server Installation



# **NMC Administrative Setup**

This chapter provides step-by-step procedures to perform NMC Administrative Setup. Descriptions and procedures are found in the following sections of this chapter.

Chapter Topics

- Uploading Application License
  - Applying the NMC Application License
  - Configure NMC System Parameters
  - Set up Administrator Profile
  - SV9300 Standard SIP Station Programming
  - SV9100 Integration Programming
  - SV8100 Integration Programming

## **Uploading Application License**

Follow the steps below to upload the Application License.

*Step* Use a browser and navigate to NMC's IP address (e.g., http://10.1.1.205 in above case) and login as System Administrator. See Figure 4-1.

Figure 4-1 NMC Administrator Login Page	
NEC	Orchestrating a brighter world
	NEC Meeting Center
	Manage Your Account
	Password Sign In
Use Account Name: <b>admin</b> a	and Password: <b>admin</b> .

## Applying the NMC Application License

*Step 1* Click on the **Administration** menu and the select **Licensing**. See Figure 4-2.

	Figure 4-2 NMC	Licensing Portal Access	
We Grace Systems	N Welcome	×	
← → C 2 10.	1.1.246/main/welcome		
🛄 Apps 🌓 Share on L	lirkedin 🔰 Login to Casti 📋 Ta	euxDeux 🗋 Documents 🛐 Facebook 🛄 Hall [	) Meesup 🛄 Code Stuff 🙆 Alumini Profiles 🙆 Research/Data 🙆 People 🧮 Healtry
admin		NEC Meeting C	onter
Ny Profile Reso	ources + Services + A	eal View Reports • Administration	Additions * Help
		System Setting	lices are licensed
		Service Setting	
		Roles and Privil	rges
		Circuit Groups	
		Circuit Groups	

*Step* Use **Choose File** to point to the license file on your PC and then click on **Upload**. See Figure 4-3.

Figure 4-3 Up	oload License	-
€ - C C 10.1.1.246/system/conf	gure, Scottan	쇼) <b>프</b>
🕅 Apps 📋 Sterninistende 🍺 Lagente Co	n 🗋 TeleDelar 📑 Seconterts 🚺 Falatoisk 🋄 Halt 📑 Mietua 🔁 Calls Bult 📑 Alarni Politici 🚍 Persenint	Tela 📑 People 📑 Hadding Panalong 📑 A People's History 📖 🔺
admin	NEC Heating Caster	2015-11-21 18:03 Sign Out
Hy Profile Revenues + Scrubbs	<ul> <li>Boat View Reports + Administration + Additions + Hole.</li> </ul>	
	Hardware Address 000268127294 / 00:02:68:12:72:94	
- Upload New License	Uphaed New Lineses Onese Tim, 12721-4.1242945-2.16.	
Installed License Values		
The second second by a second second	Voice Conferencing 🥑	
	Hass Notification 🤣	
	Web Conferencing 🧭	
	Audio Ports 32	
	Web Forts 32	



The NMC's MAC address is also displayed on the web portal. The license file name contains 6 numerals that match the least significant 3 octets of the MAC address of the system. This helps an associate in determining that a correct license file pertaining to the NMC at hand is being loaded.

The upload process takes approximately 3 minutes. After the license is uploaded successfully, the portal self-refreshes and purchased number application ports are displayed.

## **Configure NMC System Parameters**

*Step* Navigate to the **General Settings** tab (Figure 4-4) and input the required information.

Figure 4-4 System Settings Page

admin	NEC Meeting Center	2017-01-27 15:50 Sign Out
My Profile Resources + Services + Real	View Reports + Administration + Additions + Help	
Cancel	System Settings	Submit
System Identification		Resource Constraints
System description N	IEC Meeting Center	Keep history data for (days) 90
Server name 1	0.1.1.205	Web session expiration time 1 key V or 1440 minutes
Dial-in number 8	00-555-1212	VoIP Settings
Time zone (	GMT-06:00) Central Time (US & Canada)	Stack Addrose 127.0.0.1
Upload new logo	Chaose File No file chosen Clear logo	
Upload new welcome prompt	Choose File No file chosen	
Web root page	AccountLogin + [Restart required when changed]	
Voice Settings		
Internal extension length 3	1	
Dial-out prefix for external calls 9		
Default originating number		
Maximum allowed dial-out digits 1	1	
Minimum required digits in phone numbers 0		
Answer timeout (sec) 6	0	
Use rightmost 10 • digits fo	or incoming number ANY  length	

#### System Identification

- System description: Any name that you would like to provide to your system.
- Server Name: This should match the Host Name that you setup within the Webmin application under "NMC Network Configuration" on page 2-7 of this document. This is the URL that users will use to access the NMC for administrative purposes or as a moderator.
- **Dial-in Number**: This is the telephone number that is dialed to access the NMC audio conferencing application. This field appears in the iCal file as the number to dial to reach the NMC.
- **Time Zone**: Specify the default time zone used by the NMC.
- Upload New Logo: If you would like to replace the NEC logo with your own logo or the customer's, you may do so here. The logo image to be imported should not be more than 120 pixels tall.
- Upload New Welcome Prompt: This is the opening welcome prompt that callers hear when calling into the NMC. You can record your own .WAV File and upload here to customize for your company.
- Web root page: This determines the default login page (account login, web conference login etc.).
- Voice Settings: Enter appropriate voice settings for your configuration. Default originating number is used to populate the From field in outgoing invites.
- Resource Constraints: Specify any resource constraints you desire.

- Vol P Settings
  - Stack Address: Enter the IP Address of the NMC Server.

## Set up a SIP Extension between SV9100/SV9300/SV8100 and the NMC

Step 1 Navigate to Administration and select Circuit Groups. Press the ADD button to add a new circuit group. The Edit Circuit Group screen displays (Figure 4-5). Assign a name for this circuit group. Select SIP Extension in the Circuit Group Type field and input the IP Address of the UNIVERGE SV9100/SV9300/SV8100 and the port number (e.g., 5070) that you wish to connect with.

Figure 4-5 Edit Circuit Group Screen

necii	NEC Meeting Center	2017-05-24 11:28 Sign Out
My Profile Resources - Services - Real View Reports -	Administration - Additions - Help	
Cancel	Edit Circuit Group	Submit
Circuit Group Settings		
Circuit Group Name SIP Ports		
Circuit Group Type SIP Extensions •	Authentication Settings           Reolm           Password	
Circuit Group Address 192.25.181.203:5070 Circuit Group Alt. Address	Phone Numbers	

- Circuit Group Type: On UNIVERGE SV9100/SV9300/ SV8100, the Circuit Group Type should be SIP Extension. On an SV system, Circuit Group Type would be SIP Extension.
- Transport: Should be set to UDP.
- Circuit Group Address: This is the IP Address to your communications system, SV9100/SV9300/SV8100.
- Realm: This can be left blank in most cases.
- User Name and Password: If your system requires User Name and Password for registration to your SIP Extensions, input that information here.

## Set up Administrator Profile

Step 1 Navigate to Account Profile and update and change the Administration Login, password, phone number, email and other options available. See Figure 4-6.

Not My Profile	Subo
Personal Info	Sorvice Privileges
Login Jadmin	8 Audio Conferencing (view)
new Pastword	iii Audio Conferencing (add/delete)
Dealing Res Passand	R Conference Recording
First Manual Archite	id conference bialout
Ministration of the second sec	R Web Centerensing
rices same	R Mass Netification
Last Name	R Audio Riles
Nickname	R RealVerv
Primary Phone 2147121540	- Nondra thafastha
Alternate Phone 1	R Conferences with the maderature
Literate Phone 2	Conferences discovery loss satisficants
Literato Pione 3	Conferences size when readerator disconnects
Primary Enail incompeting enter (incom)	Conferences day their fundaments message
Secondare Final	Conferences play About-To-Join message
SMS #ddrama	Conferences drop dial-out calls when all dial-in callers disconnect
Owner Address	
Maximum Services -1 [-1 means unlimited]	Install Webcest Client
Page Size 15 [8 means unlimited]	
Language ent/S P	
Time come (0847.45.00) Esslern Time (US & Canada)	
At least one of Pirst name and Lost name is required, and at least one phase number or enal/sms/pager address is also required.	
anal Settings	
iote: Summary reports are disabled by the system administrator.	
Optional Enail Provider (leave blank to use system default provider)	
Server Fact 25 Test	
User Name	
Fateword	
Anthentication Cathle Ricola Cross-serve	

At a minimum, update the **Phone Number**, **Login**, **Password**, and **Email** address. It is recommended that you update all fields which are applicable. Page size determines how many rows are presented on a web page such as under conferences or mass notification listings page.

## SV9300 Standard SIP Station Programming

This section describes programming the various parameters required for the SV9300 Standard SIP Station.

	9 System Data CN05	
Star:           If within command parameters	System Data CMOB : LAN PORT DATA ASSIGNMENT (VoIP Port ST + 0EYYY + DE + 1ST DATA + DE - 200 DATA + EDE 1: UNETRO. 01 -	Read Appry
CHOK CHOK CHOI STISTEN DATA MEMORY ALL CLEA CHOI STISTEN DATA MEMORY PALTIA CHOI STISTEN DATA MEMORY PALTIA CHOI STISTEN DATA MEMORY PALTIA CHOI STIADE DATA CHOI STIADE DATA CHOI MANE MENVORS CHOI LAND PORT DATA ASSIZIAMENT CHOR MANE MENVORS	00 : IP Address for the system [RESET] 01 : Subnet Mask for the system [RESET] 02 : Default Gateway for the system [RESET] 09 : Spead mode for the L4H Interface [RESET] 30 : Locatori No. for statore and VisPDB accommodered in the Unit	3P Address         [92, 168, 60, 30         (C.0.0.1 - 215, 2, 5           Subnet Neek         255, 255, 0.0         (255, 0.0, # - 25           Defruit Cateway         [192, 168, 0.1         (0.0.0, 1 - 215, 2, 5)           ISQUEL): Auto Hepotation (IDC)         •           Location No.         appliet(): 00
YYY -001 State     YYY -001 State     YYY -0 401 50 Mantenance Part     YYY -0 401 -04 Mantenance Part 51	(Available when acation number is not assigned by CH12 TT = 29, 58.) 11 : TenantNe. for IP stations accommodated in the Unit 20 : Whether to allow the convection with PCPra (RESET)	Terant number (HORE(Def() ; 01. +
- YYY+1+01-50 Vo3F Part - YYY+1+01-04 Vo3F Part 518Y - YYY+1+02-04 Vo3F Part	30 : UCP Port for DP Multime Terminal value control (MESET)	Port No (Def. = 58000 / Range = 50000 - 5307.()
- YYY+1+05-80 Vo3P Port - YYY+1+01 5M P - YYY+3+01-50 Vo3P08	31 : UCP Port for Registration Admission Status (RAS) port (RESET) 32 : UCP Port for COT700.001800 Server voice control packet (RESET)	Port No. (Def. = 3456)
YYY-2+01-04 VolP06 578Y	33 : UCP Port for standard SIP vace control padiet [RESET]	PortNo. (Def. = 5870)
Expand Al College Al	34 : TCP Server Port for CCIS RESETTION TRUNK BEART)	

Figure 4-7 SV9300 Basic System Settings (1)

PCPro Account Ladern Connection Account: SVI300 VOIP 01 8005 ( C.1.) System Version ( SC-4351 V3.3.2 UNITE ( Dual CPU) CPUID

- *Step 1* You must assign an IP address, Subnet Mask and Default Gateway to the VOIP, Click **Read** to get the current settings. See Figure 4-7.
- Step 2FD=00 Enter SV9300 VoiPDB IP address Address.FD=01 Enter SV9300 VoiPDB Subnet Mask.FD=02 Enter SV9300 VoiPDB Default Gateway Address.
- Step 3 FD=10 Set VoiPDB location number.
- Step 4 Click Apply.

Command line example: Unit 01

CM 0B101>00>192.168.60.10 (Unit 01 VoiPDB Address)

CM 0B101>01>255.255.0.0 (Unit 01 VoiPDB Subnet)

CM 0B101>02>192.168.0.1 (Unit 01 VoiPDB Default GW)

CM 0B101>10>NONE (Default: Location 00)

The SV9300 must be reset in order for the change to take effect.



	System Data Crite
IV Within command parameters	System Data
	CMOB : LAN PORT DATA ASSIGNMENT (VoIP Port)
	ST + 08YYY + DE + 1ST DATA + DE + 2ND DATA + EXE
	11 Loutnis. 01 •
AW	
CHOO SYSTEM DATA MEMORY ALL CLEA	09 : Speed mode for the LAN Interface (RESET) [IS(Def.) : Auto Necostation (IDE) .
- ON01 SYSTEM DATA MEMORY PARTIAL - ON02 SETTING OF SYSTEM CLOCK/REAL	10 : Location No. for stations and VoIPDB accommodated in the Unit Location To. Location To.
CHOHOLSPLAY LANGUAGE FOR MULTELI	(Available when location number is not assigned by CM12 YY +39, 51.)
CM05 SLADE DATA	11: Terant No. for P stations accommodated in the Unit Terant number NDIE[Def.]: 01 •
CHOB LAN PORT DATA ASSIGNMENT	20 : Whether to allow the connection with POYro [RESET] 💿 0 : Restricted 🔹 1(Def.) : Allow
- YYY=001 SMMP - YYY=001/101 Web Server	30 : LCP Port for IP Multime Terminal voice control [RESET] Port No. (Def. = 50000 / Range = 50000 - 53071)
- YYY =0+01-50 Maintenance Port	31 : LDP Port for Registration Admission Status (RAS) port [RESET] Port No. (Def. = 3456)
- YYY=1+01-50 YoJP Part	32 : UDP Port for DT700,DT800 Series voice control packet (RESET) Port No. (Def. = 5080)
- YYY=1+02-04 VolP Part - YYY=1+05-50 VolP Part	33 : LDP Port for standard SIP valce control padiet [RESET] Port No. (Def. = 5070)
- YYY=1+01 SNTP	34 : TCP Server Port for CCIS (PUSET) [DP TRUNK RUSET] Port No. (Def. = \$7000)
YYY+2+01-04 VoIPCE STEY	35 : TCP Clent Port for CCIS [RESET][IP TRUNK RESET] Port No. (Def. = 58000 / Range = 58000 - 59023)
[emite] [etmite]	36 : UCP Port for SIP control pediet [RESET] Port for (Def. = \$660)
Expand At Collapse Al	37 : TCP server Part for P29 voice control (RESET)

- The customer may require the default Standard SIP Control port to be Step 1 changed. Click **Read** to get the current settings. See Figure 4-8.
- Enter the desired port number. Step 2
- Step 3 Click Apply.

Command line Example: Unit 01

CM 0B101>33>NONE (Default: 5070)

- The SV9300 must be reset in order for the change to take effect.
- Only change this port if directed by the customer.

ie yew gysten Edit Ipols Wyndow	bib	
	System Data CM08	
Within conniard parameters	System Data	Read Apply
	CM08 : LAN PORT DATA ASSIGNMENT (VOIPDB) ST + 08YYY + DE + 1ST DATA + DE + 2ND DATA + EXE 2: UNIT No. 01 •	
OHON	00 : IP Address (KTP) for VoIPCB [RESET]	IP Address [192.168.60.11] (0.0.0.1 - 255.255.2
-CH01 SYSTEM DATA NEWORY PARTIAL CM02 SETTING OF SYSTEM CLOCKREA	10 : Number of the channels used for Vo3PQ8	128 : 128 •
IN CHORDERLAY LANGUAGE FOR MULTILI	40 : RTP Base Port for Voice Packet transmitting/receiving [RESET]	RTP Port No. (Def. = 10000 / Range = 10000 - 1025
II ONDERASIC SERVICES	54 ( PAX ever IP	🕐 0 : Not available 🖷 1(Def.) : Available
- YYY-000 Unit number setting	70 : MAC Address of the VoSPOB (STBV)	MAC address 00.60.b9/b2.sa:80
- YYY-001/101 Web Server	50 : MAC Address of the VoSPOB	MAC address D0-60:09/0.2.aa.6c
- YYY=0+01-50 Mantenance Port - YYY=0+01-04 Mantenance Port STI	90 : Provide the call log collection with VoDPC8	0 1 To provide # 10ef.) : Not provided
- YYY=1+01-50 VoDP Port - YYY=1+01-04 VoDP Port STDY	911 Provide the fault los celection with VoPO6 (RESET)	() 0 : hat remained (# 10mf ) : To remain
- YYY+1+02-04 VolP Port - YYY+1+05-50 VolP Port	121 - FTME school mode for UNIONE	
- YYY+1+01 (2/1P - YYY+2+01-50 VoPCE		C o : andere more (race pass prouphy at spart) : cut care in
- 111x2+61-04 Ve9/C6 STBr .	L371 Part number dreak for Alti-geolet	10 0 i Disable 👾 1(Def.) i Enable
Extract at Colours at	150 : Payload type of Out-band DTMF (RPC2833)	Payload type [Def.(%GRE) = 301 / Range = 1 - 127]
Expand He Complet He	201 : Smooth PAD	NONE(Def.) : Mode 1(-4.91(Em + +2.12(Em)) *

- *Step 1* IP Pad address will need to be assigned to the VOIP. Click **Read** to get the current settings. See Figure 4-9.
- Step 2 FD=00 Enter the VoIP IPPAD IP address. FD=10 Select the number of VoIP IPPad channels.
- Step 3 Click Apply.

Command line Example: Unit 01

CM 0B201>00>192.168.60.11 (VoIP IPPAD Address)

CM 0B201>10>128 (VoIP IPPAD channels)

The SV9300 must be reset in order for the changes to take effect.





Figure 4-10 SV9300 License Confirmation



- *Step 1* Please confirm that the SV9300 has the appropriate license. See Figure 4-10.
- **Step 2** Each Standard SIP Station will need one IP port license and one Standard SIP station license.
- *Step 3* This is confirmed in CM F88>001 (Port capacity) and F88>024 (Standard SIP station).

CM F88>001>0125/0378, this example shows there are 378 Port licenses in the system and 125 have been used.

CM F88>024>0008/0030, this example shows there are 30 Standard SIP Stations in the system and 8 have been used.

e yew System Edit Iools Window (	jep.		
	System Data CM10		
Within command plarameters	System Data CM10 : IP TERMINAL REG ST + 10YY + DE + VIRTUAL POR	ISTRATION [RESET] IT NO. + DE + STATION NO./TRUNK NO	/BLADE NO. + EXE
	Virtual Port No.(for IP terminal)	Data (For details of setting data, refer to Help)	
- 000 E	0018	F1318	
- CMIX	0019	F1319	
OM10 STATION NUMBER, TRUNK NUMBE YY=00 TDM Termina/Trunk Registra     YY=00 TDM Termina/Trunk Registra	0020	F1320	
	9021	P 1080	
- YY=02 IPT(P2P CCIS) Registration	tration 0022 F1081		
- YY-03 S2P Trunk Registration	0021	F 1082	
- CH11 VIRTUAL LIVE NUMBER	0024	EEC600	
B- CM12 STATION CLASS-1	0025	EEC001	
- OM13 STATION CLASS-2	0026	EEC002	
OH16 CALL PLOKUP GROUP/GROUP DDV	0027	F1900	
- CM17 ACD/UCD GROUP	0028	F1901	
CH19 SECRETARY/GROUP DIVERSION 1	0029	F1902	
ON 18 ISON TELEPHONE MULTIPOINT ST	0030	F1903	
- CM1D PS/STANDARD SIP STATION CON	0031	F1904	
CM3X	0032	F 1905	
	0033	F1906	
Espand Al Colacter Al	0034	F1907	
Landsona Canadiana	9035	F1908	
Standard Wittend 19 System Data	0036	F1910	

Figure 4-11 SIP Converter Data Assignment (1)

- *Step 1* The SIP Data Converter will need to be assigned to the virtual port. Click **Read** to get the current settings. See Figure 4-11.
- Step 2 The SIP converter is assigned as EECXXX (XXX=000-127, SIP Converter No.)
- Step 3 Click Apply.

CM 1001>0024>EEC000 (Assigns the SIP Converter)

- The SV9300 must be reset in order for the changes to take effect.
- One SIP converter can control 3 simultaneous calls. Example: 12 Standard SIP Stations will require at least 4 SIP Converter's.

A reset of the Standard SIP Station is required after the system reset.



arch Start	Surten Data (M10			
arch Start	C Olarparo eu ta			
Within command parameters	System Data CM10:STANDARD ST + 10YY + DE + VIRT	SIP STATION REGISTRAT	TON NO./TRUNK NO./BLADE NO.	Read App
	Virtual Port No.	Data (For details of setting data, refer to Help)		
2000	> 000	3085		
OMIX	001	1086		
OH10 STATION NUMBER, TRUNK NUMBI OY1=00 TDM Terminal/Trunk Registra OY1=01 IDM Terminal Registration OY1=02 IDF (P2) COLS) Registration OY1=03 SIP Trunk Registration	002	1087		
	003	1088		
	004	1089		
	005	1090		
- YY+04 Standard SIP Station Registr	005	1091		
E- CM12 STATION CLASS-1	007	1092		
- CM13 STATION OLASS-2	008	1093		
ON 15 SERVICE RESTRUCTION CLASS ON 16 CALL PICKLP GROUP/GROUP DIV	009	1094		
- CM17 ACD/UCD GROUP	010	1095		
CM18 STATION HUNTING GROUP	011	1096		
- CMLB ISON TELEPHONE MULTIPODIT ST	012	1097		
ON10 PS/STANDARD SIP STATION CON	013	1098		
CM2X	014	1099		
-	015	1100		
	016	1101		
(	949			
Expand AI Collapse AI	010	1102		

Figure 4-12 SIP Converter Data Assignment (2)

Step 1 Once you click on CM 1001, it will read automatically. See Figure 4-12.

- Step 2 Enter the Standard SIP station number to the first available port.
- **Step 3** Continue Standard SIP Station assignment until all stations are assigned.
- Step 4 Click Apply.

Command Line Example:

- CM 1001>000>1085, Assigns station 1085 to port 000
- CM 1001>001>1086, Assigns station 1086 to port 001
  - Standard SIP Stations are programmed like Single Lines.

	9 System Data CM1D	
Within command parameters	System Data CM1D : PS/STANDARD SIP STATION CONFIGN ST + 1DYY + DE + PS/STANDARD SIP STATION No. + DE PS/Standard SIP Station No. [1085]	Read Apply URATION SETTINGS + SETTING DATA + EXE
E 0101 +	01 : Subline PS No. to each Primary PS station	Subline PS Station Na.
CM10 STATION NUMBER, TRUNK NUMBE	14 : Terminal type	🗃 0 : Standard 53P/PS (Less than 12 digits) 💮 1(Def.) : Roaming PS
E- CM12 STATION CLASS-1	15 : Terrenal type [For PCS]	05 : Standard SIP station
CM15 SERVICE RESTRICTION CLASS	Market States	C. 1. 6 ( 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
- CM15 CALL FICKOP GROUP GROUP CHI	20 : PS Operation Data Dewnload (Only Daplay) [For PCS]	0
OM18 STATION HUNTING GROUP     OM19 SECRETARY/SROUP DIVERSION1	20 : PS Operator Data Download [For PCS]	1 : Execute
- CM 18 ISON TELEPHONE MULTIPODIT ST - CM 10 PS/STANDARD SIP STATION CON	21: PS-ID [For PCS]	PS-ID (Maximum 9 digits, Decinal)
B-CM2X B-CM3X	22 : PS Location Search with no ringing	🔘 0 : To provide when PS is ide 🔋 1(Def.) : Not provided when PS is
(§ CM4K	32 : Standard SIP station Authentication	03 : Restricted 🔹
R CMSK		
⊕ CM8x -		
4		
Expand Al Collapse Al		
Standard Witard System Data	1.00	

Figure 4-13 SIP Converter Data Assignment (3)

- *Step 1* Enter the Standard SIP station number. Click **Read** to get current settings. See Figure 4-13.
- Step 2 Set command 1D14 for Standard SIP station to a 0.
- Step 3 Set command 1D15 for the Standard SIP station to 05.
- Step 4 Click Apply.

- CM 1D14>1085>0, Sets Terminal type to Standard SIP station
- CM 1D15>1085>05, Sets terminal type to Standard SIP station

Data	Assignment	for Standa	ard SIP T	<b>Ferminal</b>	with F	Register

Ele Yew System Edit Tools Window	Help	
	Command 🝞 System Data CM 1D	
Search Start	System Data	Read Apply
	CM1D : PS/STANDARD SIP STATION CONFIGUR	ATION SETTINGS
	ST + 1DYY + DE + PS/STANDARD SIP STATION No. + DE +	SETTING DATA + EXE
	PS/Standard SIP Station No. 1085	
CMIX CMIX CMIX CMID STATION NUMBER, TRUNK NUMB CMID STATION CLASS-1 CMID STATION CLASS-2 CMID STATION CLASS-2 CMID SERVICE RESTRUCTION CLASS	01 : Subline PS No. to each Primary PS station 14 : Terminal type 15 : Terminal type [For PCS]	Subline PS Station No.  © 0 : Standard SIP/PS (Less than 12 digits) © 1(Def.)  OS : Standard SIP station
- CM16 CALL PICKUP GROUP/GROUP DEVI #	16 : Primary/Subine	O 1 Subline PS I(Def.) : Primary PS
- CM17 ACD/UCD GROUP	20 : PS Operation Data Download (Only Display) [For PCS]	0
CM18 STATION HUNTING GROUP     CM19 SECRETARY/GROUP DIVERSION 5	20 : PS Operation Data Download [For PCS]	1 : Execute
ON 18 ISON TELEPHONE MULTIPOINT ST ON 10 PS/STANDARD SIP STATION CON	21 : PS-ID [For PCS]	PS-ID (Maximum 9 digits, Decima
⊕- CM2X ⊕- CM3X	22 : PS Location Search with no ringing	① 1 To provide when PS is idle
⊕-OM4X ⊕-OM5X	32 : Standard SIP station Authentication	15(Def.) : Allowed
B-CM6X		

Figure 4-14 PS/Standard SIP Station Configuration Settings

- *Step 1* Enter the Standard SIP Station Number. Click **Read** to get the current settings. See Figure 4-14.
- *Step 2* Set command 1D32 to 15 for registration.
- Step 3 Click Apply.

Command line example:

CM 1D32>1085>15, set this for each Standard SIP station.



This setting is required for registration.

File View System Edit Tools Window H	dp.	
Sauch Start I	Command 🜍 System Data CN42	
Start	System Data	
Within command parameters	System bata	ф <u>2</u>
		Read Apply
	CM42 : SYSTEM COUNTER DATA	
	ST + 42 + DE + KIND OF SYSTEM COUNTER + DE + SETTING D	DATA + EXE
L	66 : Transmission characteristic of analog LC [New Zealand/China/Brazil/Europe] / Transmission characteristic of analog	NONE(Def.) : Other countries except for the below / Depends on Nation
	LC, COT (For EMEA) [RESET]	
- CM15 CALL PICKUP GROUP/GROUP DTVL A	68 : Volume Control (Side tone level) of Multiline Terminal/DESKCON	NONE(Def.):-30 V dB
E- CM18 STATION HUNTING GROUP	(Do not change this data normally, incorrect data settings may cause howler of low-level speech.)	
E- CM19 SECRETARY/GROUP DIVERSION 5	69 : Call charge per unit for AOC (dollar/euro/integral charge per unit)	unumined to be data and datasets in internal charge per unit
- CM18 ISON TELEPHONE MULTIPOINT ST	[Australia/France/Germany/Netherlands/Italy/Greece/Luxembourg/Po at and Spain Sounder ATLLT A USEN	NUNC(Der.) : No cata • Uniterajed of they all charge per unit
ONED PS/STANDARD SIP STATION CON	20 : Call charge per unit for AOC (cent/le re cent/hap derimate charge	
⊕-CM3X	per unit)	NONE(Def.) : No data   cents/euro cents/biro dedinals charge pe
G-CM4X	[Australia/France/Germany/Netherlands/Italy/Greece/Luxenbourg/Po rh.rad/Spain/Sweden/TD LT // JAEN	
CM40 FUNCTION OF CPU PORT	72 : Number of times of Millinie Call Forwarding-All Calls Busy Line No.	= ()
CM41 SYSTEM TIMER DATA     CM42 SYSTEM COUNTER DATA (RAD DATA	Answer-CCIS	NONE(Def.):5 • time(s)
1st=00-45	73 : Number of digits for Station Authorization Code/IP Station	04:04 - diat(s)
1st=66-77.214	Password	VI. VI

Figure 4-15 CM42 System Counter Data Settings

- Step 1 Click Read to get the current settings. See Figure 4-15.
- Step 2 CM 42>73>sets number of digits for Password.

CM 42>73>04, this sets password length to 4 digits.

Ele Yew System Edit Iools Window	Reb	
	Command 👎 System Data CM28	
Search Start		
V Within command parameters	System Data	Read Apply
	CM2B : AUTHORIZATION CODE PER STATION	
	ST + 28YY + DE + 1ST DATA + DE + 2ND DATA + EXE	
	1025	
	Station No. 1965	
1		
CM16 CALL PLOD IN CROLIN (SROLIN ONL)		
	00 : Authorization Code per station / IP Station registration password	Authorization Code/Password 1234 (Maximum 8 digits)
CM18 STATION HUNTING GROUP	for Protected Login Mode / Station Digest Authentication password / Standard SIP Station registration password	
CM19 SECRETARY/GROUP DIVERSION 5	01 : Trunk Restriction Class	10x4 ) - Universities ( (CA)
CM1B ISDN TELEPHONE MULTIPOINT ST		stoer) : onversione (kok)
	02 : Service Restriction Class A	15(Def.): 15 •
E- CM2X	03 : Service Restriction Class 8	schol): sc
CM22 DOUTE ADVANCE		adjusticy . and
	04 : Service Restriction Class C	15(Def.): 15 •

Figure 4-16 CM2B Authorization Code Per Station Settings

- *Step 1* Enter the Standard SIP Station Number. Click **Read** to get the current settings. See Figure 4-16.
- Step 2 CM 2B00 assigns password to the extension.
- *Step 3* 2B00>1085>1234, sets password to 1234 for extension 1085.

CM 2B00>1085>1234, sets password to 1234

SV9300 VOIP 01 - NEC SV9300 PCPro - (System	Data CMFAJ	
(le Vew System Edit Inds Window er 👀 🕺 🔂 🖩 🗊 🗯 🚺 🧐	Bip	
learch Start	System Data     System Data     CMFA : STATION APPARATUS INFORMATION     ST + FAYY + DE + STATION No. + DE + 2ND DATA     Station No. 1085	Read Sector
OVEX     OVEX	00 : Read the IP Station firmmer: version (Orly display) 01 : Read the IP Station type / Digital Multime Terminal Type (Drily display) 02 : Read the IP Station status (Orly display) 04 : Read VolP Encryption status (Orly display) 05 : Read the connecting Unit His. for IP Station (Orly display)	80 : Stenderd SIP Station
Expand Al Colapse Al		

- *Step 1* Enter the Standard SIP station number. Click **Read** to get the current settings. See Figure 4-17.
- Step 2 Confirm the Standard SIP Terminal is active by command FA01, FA02.

This is a read only command.

Command line Example:

FA01>1085>80, this shows that station 1085 is a Standard SIP Terminal.

FA02>1085>192168000207:A, this shows the terminal is Active on IP address 192.168.0.207

NO

Data	Assignment	for	Standard	SIP	Terminal	without	Register
------	------------	-----	----------	-----	----------	---------	----------

Figure 4-18 SIP Converter Data Assignment (4)

	System Data CM1D	
Within command parameters	System Data CM1D : PS/STANDARD SIP STATION CONFIG ST + 1DYY + DE + PS/STANDARD SIP STATION No. + DE #S/Standard SIP Station No. 1005	Read Apply
OND      OND	01 : Sublex PS No. 15 each Primery PS station 14 : Terminal type [Por PCS] 15 : Terminal type [Por PCS] 16 : PM:sary(Sublex 20 : PS Operation Data Devinteed (Drily Display) (Por PCS) 20 : PS Operation Data Devinteed (Drily Display) (Por PCS) 21 : PS-4D (Por PCS) 22 : PS Location Search with no ringing 32 : Standard SDP station Authentication	Subbre PS Station No @ 0 : Standard SP/PS (jess than 12 dg/s) () ([Def.) : Roeming PS D5 : Standard SP station () 0 : Subtre PS @ 1(Def.) : Primary PS 0 1 (Decode PS-D (Maximum 9 dg/s, Decma) () 0 (To previde when PS is de @ 1(Def.) : Not provide when PS 02 : Restricted
Expert Al Column Al	· · · · · · · ·	

- *Step 1* Turn off Standard SIP Authentication. Click **Read** to get the current settings. See Figure 4-18.
- Step 2 Set command 1D32 to 03 for restricted.
- Step 3 Click Apply.

CM 1D32>1085>03, set this for each Standard SIP station.

tie pen system tidt jook Wedan	(the	
	System Data CM12	
Banch Bart Bart	System Data CM12 : STATION CLASS-1 ST + 12YY + DE + STATION No. / Automatic Manual/Del Inter Staten No. 1005 Automatic Manual/Del Interam No. / L	Com No. / Loop Line No. / JCU/OPR Line No. + DE + DATA + EX cop Line No. / JCU/OPR Line No.
OND     OND	77 i Dual Reging 78 : Haster or Sub Station for Suite Room 79 : Suite Room's Group No. NOTE : This command should be set in Macter and Sub Station with Suite room. 80 : Truck Access Code mumber setting in Mobility Access Mode 83 : Summation Color of Multime Terminal for Smernal Cal 84 : Summation Color of Multime Terminal for External Cal 85 : Automatic Tale Return on Multime Terminal	0 : Available # 12Erf.) : Nat available  DErf.) : Ordnery station/but Suite Room: Station( •  Suite Room's Group No. (access Coole No. 1) •  NONEDErf.) : NONEDITURE Access Coole No. 1) •  NONEDErf.) : None •  30Erf.3 : Asper (2408>172 •
# OHE # OHE # OHEK	97 : IP Address set for Non-RECEIVER standard SIP station	P Address [192168000007 [SaadBBcccddd as rest st.
Espend Al Collapse Al	Set investigations and the set of	Part Na. (Def. + 5000) 1.01 Counties Manifest Number ( Index ) Solar - 10
Standard Ward ( System Data	91, H	

Figure 4-19 Data Assignment for Standard SIP Terminal without Register (1)

- *Step 1* Enter the terminal station number. Click **Read** to get the current settings. See Figure 4-19.
- Step 2 Scroll down to CM 1297, enter the IP address of the NMC.
- Step 3 Click Apply.

CM 1297>1085>192168000207, this assigns the IP address to the terminal.

• IP address assignment is a 12 digit entry.

	Connect
leavit Start	Command
OHS     O	COMMANU-BLC15 BC15+000:1085- BC15+001:1086- BC15+002:1087- BC15+003:1088- BC15+005:1090- BC15+005:1090- BC15+006:1091- BC15+008:NONE
Y7+15 Terminal ID Settings Y7+15 Grocting No. Settings Y7+17 Greeting List Initialize	P1         P2         P3         P4         P5         P8         P9         P32         P11         P1           HELP         ·
Expand All Collapse All	The second se

Figure 4-20 Data Assignment for Standard SIP Terminal without Register (2)

- *Step 1* Assign the Standard SIP Terminal ID without Register. This programming is done in Command Mode.
- Step 2 Enter CM BC15 and enter 000, this is the first Terminal ID.
- Step 3 Continue until all stations are assigned.
- Step 4 Enter the Standard SIP terminal Station number.
- Step 5 Click Apply.

CM BC15>000>1085, this assigns the Terminal ID to the station number.

CM BC15>001>1086, this assigns the Terminal ID to the station number.



The SV9300 must be reset in order for the change to take effect.

Figure 4-21	Standard SIP	Station	Connection	Status
-------------	--------------	---------	------------	--------

(de yes grann hat bok grans • • • • • • • • • • • • • • • • • • •	90	
	System Data CMFA	
2 Within command parameters	System Data CMFA : STATION APPARATUS INFORMATION ST + FAYY + DE + STATION No. + DE + 2HD DATA Station No. 1005	C Read
# 040X # 040X # 046K	OL: Read the IP Station type / Olgital Multime Terminal Type (Only doplay) 01 : Read the IP Station type / Olgital Multime Terminal Type (Only doplay) 02 : Read the IP Station status (Only doplay)	(80 - Standard SP Station +
B ONEX ⊕ ONIX	D4 : Read VolP Encryption status (Only deplay)	IGet) : No Protection •
III-CMBX	05 : Real the connecting Unit has for IP Staten (Driv deplay)	nt station of
Ores     Ores		
Personal and a second second second		

- *Step 1* Enter the Standard SIP Terminal station number. Click **Read** to get the current settings.
- *Step 2* Confirm the Standard SIP Terminal is active by command FA01, FA02.



This is a read only command.

Command line Example:

FA01>1085>80, this shows that station 1085 is a Standard SIP Terminal.

FA02>1085>192168000207:A, this shows the terminal is Active on IP address 192.168.0.207.

## **SV9100 Integration Programming**

The following steps are to be performed within SV9100 Web Pro or PC Pro. This will setup the SV9100 to support the NMC XMP Conference as well as other IP telephones. These instructions assume the correct IP and Resource licenses have already been uploaded to the system and that the default Standard SIP port (5070) and Payload (20ms) are used.

For this example extension 3101 – 3108 and department group 3 are used. These can be changed as needed for the actual installation system.





Set 10-12-09 to the static IP address for the SV9100 provided by the network administrator.

Set 10-12-10 to the subnet mask provided by the network administrator.

$\square$	09 - IPL IP Address	172.24.78.25
	10 - IPL Subnet Mask	255.255.255.0 -

Assign the number of licensed VoIP resources to the CPU slot. In PRG 10-54-01 for slot 1 enter license code 5103. In PRG 10-54-02 for slot 1 enter the appropriate number of 5103 licenses.



Set the department group pilot for the NMC XMP Conference extensions in 11-07-01.

For this example department group 3 is used. Never use department group 1 as that is the default group for all extensions.



If there are any analog trunks in the system in 14-02-23 set them to 0 (Wait Caller ID).

23 - Caller ID Receiving Method

Wait Caller ID 🛛 🔻

In 15-03-03 set all NMC XMP Conference extensions to 1 (Special) to enable in call DTMF signaling.

DTMF +

01 - Signaling Type

Special - Receive DTMF tones after the initial call is setup 💌

In 15-05-18 allow all NMC XMP Conference extensions for IP Duplication.

18 - IP duplication allow mode

Enable 🔻



Set 84-26-01 to the static IP address for the DSP provided by the network administrator.

If required by the network administrator the RTP and RTCP ports used can be changed here as well.



If the changes were made using PC Pro upload the database and disconnect from the system. It is very important you disconnect so the changes are written to the CPU.



If the changes were made using Web Pro return to the **Home** screen and choose **Logout** to exit program mode and write changes. It is very important you exit programming so the changes are written to the CPU.



If not already completed a new SIP Extension circuit group for the SV9100 should be created using the extension numbers set in the previous programming steps. Refer to section 2.1 Setting up the MC SIP Extension for more information.

## SV8100 Integration Programming

The following steps are to be performed within SV8100 PC Pro. This will setup the system to support the SIP extensions used by the NEC Meeting Center application. These instructions assume the correct licenses have already been uploaded to the system and that the default Standard SIP port (5070) and Payload (20ms) are used.

For this example extension 3101 - 3108 and department group 3 are used. These can be changed as needed for the actual installation system.







In 16-02-01 put all NMC Meeting Center extensions in Department group 3 and set the priority for each extension.



This completes the initial integration of the NEC Meeting Center with the UNIVERGE SV9100/SV8100/SV9300 system. For additional information refer to the online help within the NMC system. Technical certification is required in order for NEC Partners to obtain support from NEC Technical Assistance. Certification training is available within

www.myNEClearning.com. Refer to "Training" on page 1-5 for more information.

# **Upgrading NMC Meeting Center**

This chapter provides step-by-step procedures to upgrade NMC Meeting Center. Descriptions and procedures are found in the following sections of this chapter.

Chapter Topics

- Description
- Online Update
- Manual Update

## Description

If required, or when updated versions of software are provided, the following steps can be used to upgrade your system. Note before starting an online or manual software update back up the database and save to the local client PC.

The upgrade time will vary depending on the size of the upgrade, and if choosing the online update, the Internet connection speed. The NMC server will be unavailable during the upgrade and will reboot automatically after the update process is complete.

## **Online Update**

If the NMC has access to the Internet it will periodically check for new software. If new software is available the Software Update page will show what new software packages are available.

- *Step 1* Log into NMC web GUI with administrator credentials (admin/admin).
- Step 2 Go to Administration > Software Updates.

Any available online updates will display in the Online Update window.

Step 3 Click the Start Online Update icon to start the upgrade and select OK when prompted. See Figure 5-1.

e Resources * Services * Real View R	Meeting Center 2012-04-03 13.07 Ienkes * Regorts * Administration * Additions *		
	Software Update		
Ipdate			
Name	Version	Release Date	
matrix	8.0-3	17-Apr-2017 15:26	
xop-volce	6.0-3r	17-Apr-2017 15:25	
xop-web	8.0-40	17-4pr-2017 15:23	
	Start Online Update		

- *Step 4* The update files download from the Internet to the NMC server and the update begins automatically.
- *Step 5* The NMC server reboots automatically after the update process is complete.
- Step 6 Go to Reports > System Status to verify new software version.

## **Manual Update**

To update manually, download the update file (updates.tgz) file from the NTAC download site (TBD) to the support PC.

- Step 1 Log into NMC web GUI with administrator credentials (admin/admin).
- Step 2 Go to Administration > Software Updates.
- Step 3 Click Choose File icon and navigate to file location on support PC.
- Step 4 Click the Upload and Install Updates icon.

The file is uploaded to the NMC server and the update begins automatically.

- *Step 5* The NMC server reboots automatically after the update process is complete.
- Step 6 Go to Reports > System Status to verify new software version.

For additional information or support on this NEC Corporation product, contact your NEC Corporate representative.

## N E C NEC Corporation

## NMC Meeting Center Integration Guide

NDA-31834, Issue 1