

Netgenium ICP0200-IP

# Installation Guide

Firmware Version 1.8.2



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## PREFACE

This preface describes the purpose, audience, organization, and conventions of this guide

The preface covers these topics:

Purpose, page 1

Audience, page 1

Conventions, page 2

### Purpose

The *Netgenium ICP0200-IP Manual* provides information about installing and configuring the Netgenium ICP0300-IP audio intercom panel

### Audience

The *Netgenium ICP0200-IP Manual* is written for network administrators and installers responsible for installing and configuring the Netgenium ICP0200-IP. This guide requires knowledge of IP networking technology, VOIP and QoS techniques.

## Conventions

This document uses the following conventions:

**BOLD ORANGE** font is used to show Navigation steps to configure a feature

**BOLD RED** font is used to indicate a button or hyperlink

**BLUE** font is used to indicate a label on the web page

# CHAPTER 1

## OVERVIEW

The Netgenium ICP0200-IP is a full feature intercom panel that provides voice communication over an IP network.

For ease of setup the ICP0200-IP software hosts an embedded web server enabling configuration via a web browser interface.

Communicating over the IP network, the panel can register with Cisco's Call Manager IP telephony application using the SCCP call control protocol enabling call requests to be fielded by the IP telephony system.

Where IP telephony is not available the panel can be configured to communicate with the *Netgenium Callpoint* application. This allows audio communication from the door direct to a pc running *Callpoint*.

### ***Powering The Unit***

The ICP0200-IP can be powered from any 802.3af power source via the LAN interface

### ***Resetting the Unit***

The ICP0200-IP can be reset by removing power to the unit or pressing the Reset button visible on the front panel or via the software options.

### ***The Restore Factory Default Configuration***

ICP0200-IP configuration can be restored to factory defaults by pressing the Default button for 10 seconds whilst the unit is booting, or by selecting the Default option in the Maintenance>Default menu. The unit must be reset within 30 seconds of selecting this option.

## CHAPTER 3

# CONFIGURATION

This chapter describes how to set up the ICP0200-IP for connectivity to the LAN and in its operational environment.

### Initial Network Setup

Connect the ICP0200-IP to a POE capable network switch or via a mid span device.

To logon for the first time, open a web browser and type the IP address of the panel in the address bar. Each unit is pre-configured with a default IP address of *10.100.1.200* when it leaves the factory. The default username and password are as follows:

- Username: netgenium
- Password: netgenium

The home page is shown in figure 3.1. This provides basic information on the controller such as software version serial number etc. Navigation around the menu structure is via the tabs shown at the top of the home page. Each tab redirects the browser to the master page for the configuration section selected. In each section a sub menu is accessible via the links on the left of the page.



Figure 3.1 Home Page

To set the units IP address:

**Navigate to: Setup**

Configure the options as described below then click the **Apply** button.

General

- **Device Name:** The name for the device (usually a description of the location)

### Network

- IP Address: IP address of the device
- Network Mask: Subnet Mask of the device
- Default Gateway: Default Gateway for the device
- Netgenium Primary PolicyServer: The IP Address of the primary PolicyServer
- Netgenium Secondary PolicyServer: The IP Address of the secondary PolicyServer
- Registration Mode: Autonomous or registered with PolicyServer
- Registration Status: Current registration status.

### DNS Settings

- Domain Name:
- Primary DNS:
- Secondary DNS:

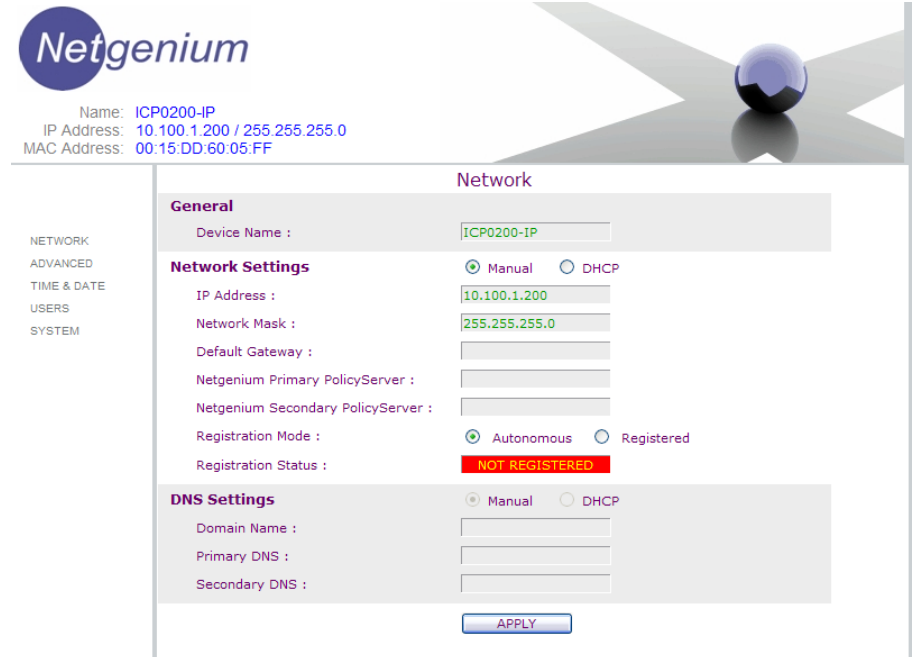


Figure 3.2 Network Settings

If you have changed the IP address of the panel you will loose the connection to it. Open another browser session and reconnect the new IP address.

## Advanced

Navigate to: Setup>Advanced

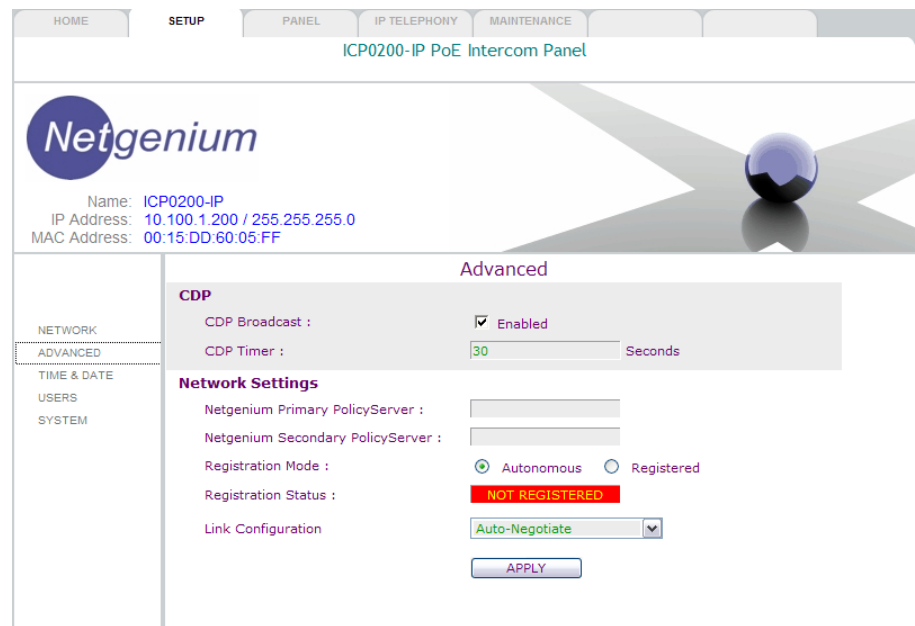


Figure 3.3 Advanced Settings

### CDP Broadcast

Enables CDP broadcast.

### CDP Timer

Sets the frequency of the CDP broadcast

## Time & Date

Navigate to: Setup>Time&Date

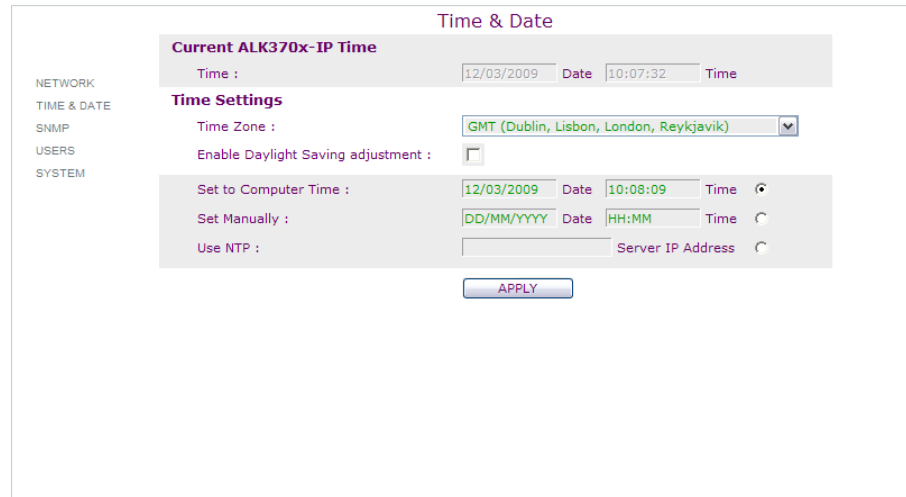


Figure 3.3 Time & Date

This page enables you to set the system time and date. The options are:

### Set to Computer Time

This option sets the time and date to that of your computer when the **Apply** button is clicked.

### Set Manually

Enter the time and date in the textboxes provided and click the **Apply** button.

### Use NTP

With this option enabled the controller will synchronize its time and date with an NTP server every 5 minutes. Enter the IP Address of the NTP server and click the **Apply** button.

If the controller is configured to register with PolicyServer the unit will automatically be synchronised with PolicyServers date and time.

## **Users**

### **Navigate to: Setup>Users**

Use this page to manage the user accounts used to administer the unit. The default settings are:

- Username *netgenium*
- Password *netgenium*

To add a new user account, enter the username and password and click the **Update** button.

To remove an account, highlight the name to delete and click the **Delete** button.

## **System**

### **Navigate to: Setup>System**

The system password is used to authenticate requests between PolicyServer and the end devices. The default setting is *netgenium*.

## Panel

### Button

Navigate to: **Panel>Button**

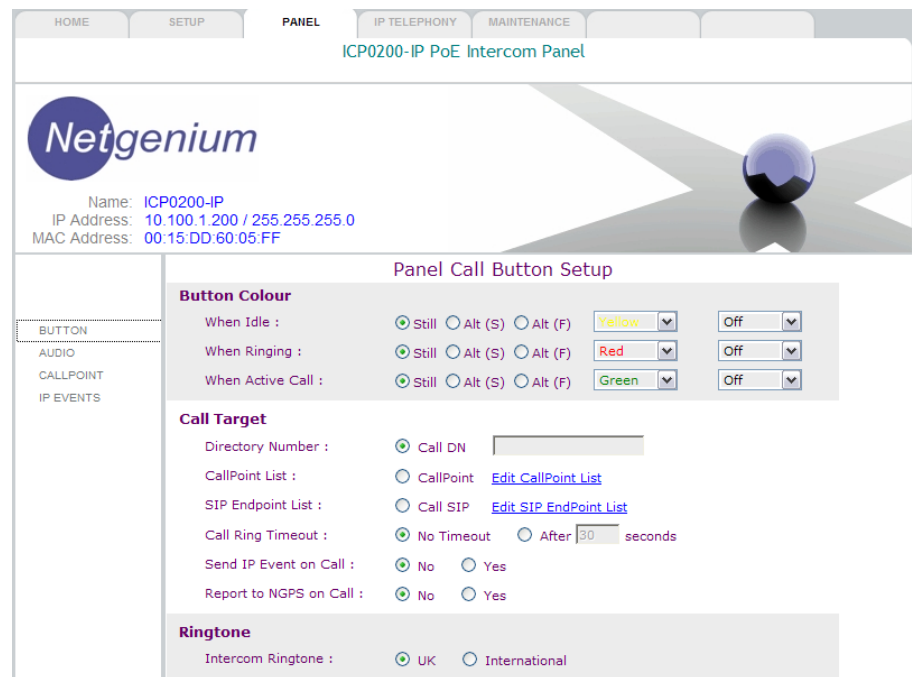


Figure 3.4 Button Settings

These options setup the visual indication of the illuminated call button. The panel has three call states:

- Idle
- Active
- Ringing

The illuminating colour of the button can be changed to indicate each state. The colour can be set to static (still) or alternating with another colour (Alt (s) – slow) (Alt (f) – fast).

**Call Target**

The call target is the recipient of the out going call made when the call button is pressed.

The target can be either a directory number, if the panel is used in telephony mode, or a PC with the CallPoint application running.

Select the call mode and enter the DN number if telephony mode is used.

The call can be configured to timeout if unanswered using the [Call Ring Timeout](#) option and setting the call duration.

## Audio

Navigate to: Panel>Audio

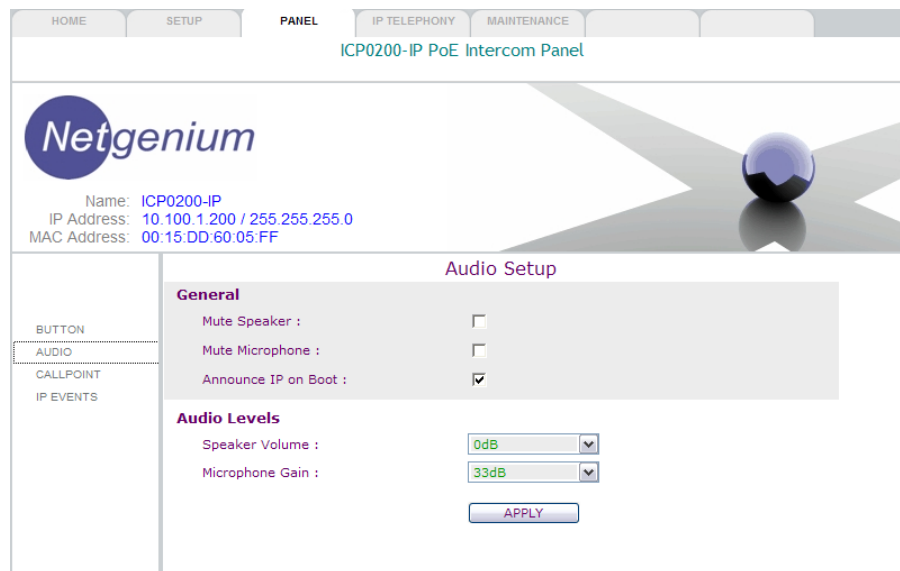


Figure 3.5 Audio Settings

### General

- **Mute Speaker** Disables the speaker of the panel
- **Mute Microphone** Disables the microphone of the panel
- **Announce IP on Boot** The IP address of the panel is announced from the speaker when the panel boots up

### Audio Levels

- **Speaker Gain:** Sets the volume of the speaker of the panel.
- **Microphone Gain:** Sets the gain of the microphone of the panel.

Click the **Apply** button to make the changes active.

## CallPoint

The CallPoint list is used to distribute calls. When the call button is pressed a call request is sent to each CallPoint client in the list. The call window is activated on each client. When the call is answered at a client, the remaining unanswered calls are canceled.

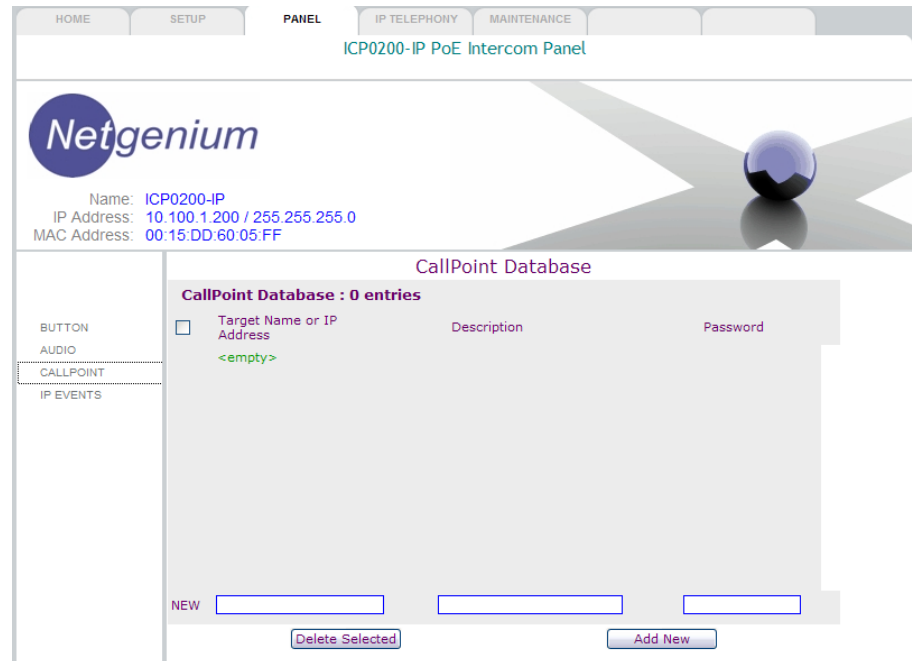


Figure 3.6 CallPoint Database

The database contains the IP addresses of the clients to be notified in the event of call activation. The database must be populated manually.

To add an entry to the database, enter the IP Address, a description and the system password of the device in the textboxes at the bottom of the page. Click the **Add New** button.

To delete an entry, highlight the entry and click the **Delete Selected** button.

---



Figure 3.7 CallPoint Client

The CallPoint client can be downloaded to a PC by clicking the **CallPoint Client** hyperlink on the page.

The client provides the user with the ability to view live video from an external camera and open a lock controlled by a Netgenium lock controller. Lock and camera configuration parameters are set on the panel.

To control a lock, enter the lock IP address and system password (default password is *netgenium*). To view video from an external camera, select the camera type and enter the IP address.

Click the **Update** button to save settings.

# CHAPTER 3

## MAINTENANCE & DIAGNOSTICS

Selecting the Maintenance in the configuration window provides data on the current status of the ICP0200-IP’s features, the ability to test each function of the panel remotely and the ability to upgrade the firmware.

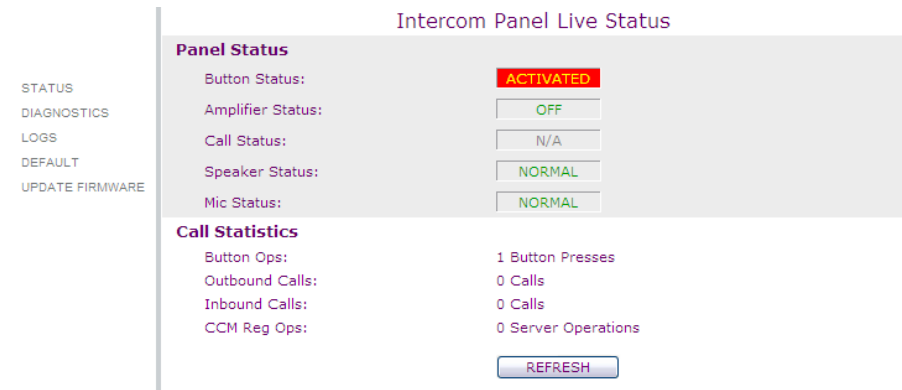


Figure 3.1 Status

## *Panel Status*

Provides the following data:

### **Button Status.**

Show the current status of the call button.

### **Amplifier Status**

Shows the current status of the audio amplifier. ON/OFF

### **Call Status**

Shown the current call status,

### **Speaker Status**

Indicates the current status of the speaker. NORMAL/STREAMING

### **Mic Status**

Indicates the current status of the mic. NORMAL/STREAMING

### **Call Statistics**

## Diagnostics

Navigate to: Maintenance>Diagnostics

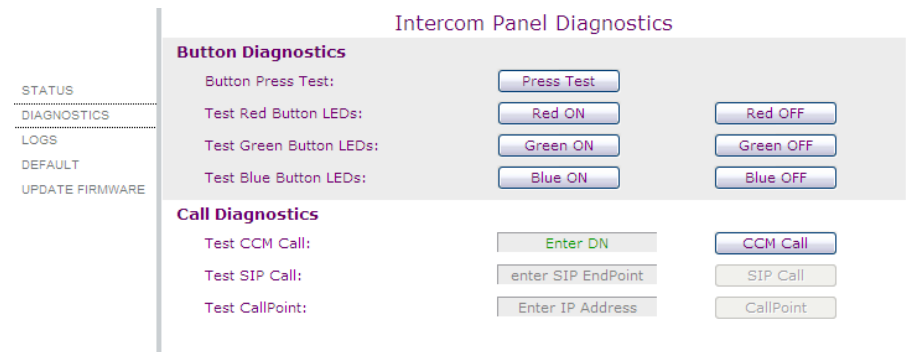


Figure 3.2 Diagnostics

The diagnostics page allows you test the speaker functionality remotely.

### Button Test

Simulate the call button being pressed. The panel will then attempt to make a call.

### LED Tests

Test the LED's illuminating the call button.

### Call Diagnostics.

Makes a call independently of the call button.

## Logs

### Navigate to: Maintenance>Logs

The panel logs events in a temporary buffer for diagnostic purposes. This buffer is stored in volatile memory and is lost when the unit is powered off.

To clear the buffer manually, click the **Clear Logs** button.

## Default

### Navigate to: Maintenance>Default



Figure 3.3 Default

Clicking the **DEFAULT** button will return the controller to factory default settings. Clicking the **REBOOT** button will reboot the controller.

## Update Firmware

### Navigate to: Maintenance>Update Firmware

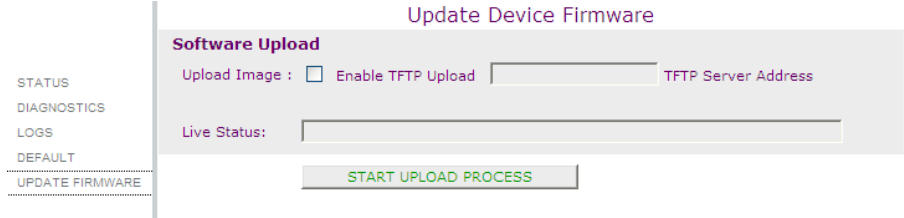


Figure 3.4 Update Firmware

The firmware can be updated via a TFTP server. To update the firmware:

1. A TFTP server must be available on the network.
2. The ICP image should be stored in the TFTP root directory.
3. Tick the [Enable TFTP Upload](#) check box.
4. Enter the IP address of the TFTP server.
5. Click the **Start Upload Process** button.

*Ensure the panel is not rebooted and the network connection to the TFTP server remains intact during the upload process.*

The upload process will begin. The current status of the upload process is displayed in the [Live Status](#) window. The correct upload

*If you see the message “Problem writing image to flash” in the Live Status window. The upload process has failed*

*Reboot the panel and start again.*

*Do not repeat the upload process without a reboot.*

- Uploading File
- Writing Main Image
- Writing Header
- Rebooting

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