

Changing Gooseneck Phone Audio Settings

We programmed the outdoor intercom to provide the best audio for most noisy situations but there are times where changes may need to be made.

In some situations, you may not be able to use the system in Full Duplex mode and may need to switch the inside phone to Push to Talk. One possible case is if you are placing the intercom directly on a wall with loud trucks driving up next to it, then the full-duplex circuitry will likely be overwhelmed by the sound wave reflections off the wall. Also, the sound may be coming back into the scale house thereby compounding the problem. Also **make sure that any addon horn speaker is mounted three feet above the TCIS-2 or the noise cancelling circuitry will be overwhelmed.**

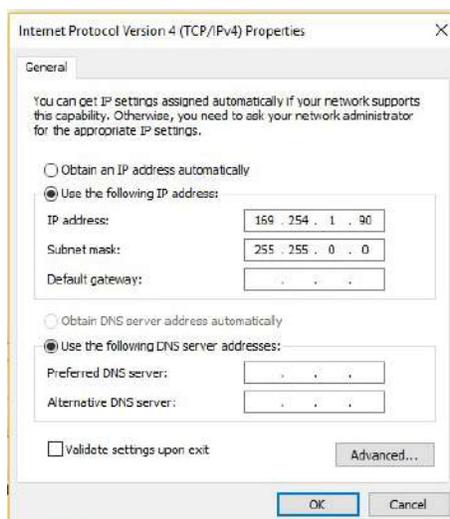


In Push-to-Talk mode the truck scale side can talk hands free, but the scale house operator will have to press the M button on the phone to make the microphone active.

Set a Static IP Address on Your Windows 10 Computer

To access the web interface, your computer must be in the same subnet range as the station. There is a video about this on the config file download site you were just on.

1. Click **Start**, and type **Control** in the search field, then select **Control Panel**.
2. Click on **Network and Internet**.
3. Click on **Network and Sharing Center**.
4. On the left pane, click the **Change adapter settings** link.
5. Right-click on your computer's Ethernet network adapter and select **Properties**.
6. Select the **Internet Protocol Version 4 (TCP/IPv4)** option.
7. Click the **Properties** button.
8. Select the **Use the following IP address** option.
9. Set the **IP address** (e.g., **169.254.1.90**).
10. Set the **Subnet mask**. (e.g., **255.255.0.0**).
11. Click **OK**.
12. Click **Close** again to close the network adapter properties.



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Connect the PC, POE Switch, and TCIS-2

1. Plug the PC into the same Ethernet POE switch as everything else.
2. Use a Firefox or Microsoft Edge browser to log in to the Scale House 1 intercom using this IP address: 169.254.1.101
3. Click Login and enter the default User name: **admin**
4. Enter the default Password: **alphaadmin**

Changing Audio Settings on the TCIS-2

Changing settings on the outdoor intercom may also help.

Put the Unit in Advanced Programming Mode

1. Enter the IP address of the outdoor intercom (169.254.1.100) into your web browser and under **Main > Recovery** click on **Advanced configuration** mode and type in the password 1851
2. Put a checkmark in the box and click **Save**.

Changing Microphone Sensitivity and AGC Volume

1. Click on the **Edge Configuration** tab and then **Audio**
2. **Microphone Sensitivity** is normally set to 5 but you can vary it to find the best setting for your environment.
3. The **AGC Volume** to normally set to 4 but you can vary it to find the best setting for your environment.
4. **The Noise Reduction Level** can also be varied. Higher levels give more noise cancellation, but they may reduce the sound on the phone inside.
5. Click the **Save** button and to see how it sounds.

▶ Audio Messages	Volume Control Ch2:	<input type="text" value="0"/>	Audio Channel 2 Output Gain. (Default routed to Line Out Amplifier) Note! Shouldn't be used with accessories on TKIE Note! In Standard Turbine ch2 is same signal as ch1 Valid range: [-62..+24] dB
▶ Multicast Paging	Noise Reduction Level:	<input type="text" value="7"/>	0 = disabled.
▶ Certificates	Force loudspeaker ringing:	<input type="checkbox"/>	Ringling is now always done on loudspeaker when ringing on headphones or handset.
	Tone Volume:	<input type="text" value="0"/>	(-1)=disabled, 0=default, [1..4]=[-22..-1]dB
	Audio Out Source:	<input type="text" value="Voice Audio"/>	Main Audio Out (Speaker) Sources
	Line Out Source:	<input type="text" value="Audio Ch2"/>	Line out can play audio either from VoIP signal or direct from microphone
	Automatic Gain Control (AGC):	<input checked="" type="checkbox"/>	Automatic Gain Control. If speech level and environmental noise are very unstable it may be turned on.
	AGC Speed:	<input type="text" value="0"/>	0..3 selects different attack/release times. Lesser values means faster attack and slower release time.
	AGC Volume:	<input type="text" value="6"/>	0..7 corresponds to -20..0 dBm
	Automatic Volume Control (AVC):	<input type="text" value="0"/>	Volume depends on noise level
	AVC Debug:	<input type="text" value="1"/>	Shows current volume level on OLED display
	AVC Advanced	<input type="text" value="3"/>	Check to open advanced settings
	Far-End Audio Squelch:	<input type="text" value="5"/> abled	Audio Squelch on Far-End Signal (suppress audio on low signal levels)
	Squelch Threshold:	<input type="text" value="6"/>	Threshold level for suppressing audio signal Valid range: [-92..0] dBm0
	Squelch Activate Delay:	<input type="text" value="100"/>	Delay time with signal below threshold level before squelch is activated. Valid range: [0..10000] ms

SAVE

Changing Gooseneck Phone Audio Settings

- Account / Call
- Audio
- Direct Access Keys
- Relays / Outputs
- Time
- I/O
- Frontboard Mapping
- RTSP and ONVIF
- Script Upload
- Script Configuration
- Script Events
- Audio Messages
- Multicast Paging
- Certificates

Audio Settings

Description	Configuration	
Speaker Volume:	2	
Volume Override Level:	7	Sets the volume during volume override. Volume and handset override happens during Emergency Group calls. i
Microphone Sensitivity / Line Input Level:	5	Default value 4. 0 = very low sensitivity
Digital/Analog Mic Switch:	Always Digital	Default is Always Digital. Switch from Digital to Analog Mic based on settings. Analog I/O Pin: When I/O Pin is triggered, Analog Mic is used, when not Digital Mic is used. Analog I/O Pin Call End: Analog Mic is switched On (Digital Off) by first I/O Pin trigger in call and used until call end.
Digital/Analog Mic Switch Pin:	None	Input/Output Pin for Digital/Analog Mic switching. This doesn't affect other I/O pin configured functionality. NOTE: Pin must be configured as Input.
Mute speaker while analog mic:	<input type="checkbox"/>	Mute speaker while Analog Mic is used.
Volume Control Ch1:	0	Audio Channel 1 Offset Gain (default routed to Amplifier/Speaker) Note! Shouldn't be used with accessories on TKIE Valid range: [-62..+24] dB
Volume Control Ch2:	0	Audio Channel 2 Offset Gain. (default routed to Line Out Amplifier) Note! Shouldn't be used with accessories on TKIE Note! In Standard Turbine ch2 is same signal as ch1 Valid range: [-62..+24] dB
Noise Reduction Level:	7	0 = disabled.
Force loudspeaker ringing:	0	Ringing is now always done on loudspeaker when ringing on headphones or handset.
Tone Volume:	2	(-1)=disabled, 0=default, [1..4]=[-22...-1]dB
Audio Out Source:	Audio	Main Audio Out (Speaker) Sources

Below are descriptions of the functions that can be varied.

- **ANC:** Active Noise Cancellation. When enabled most of the background noise will be filtered away from the microphone signal.
- **AGC:** Automatic Gain Control. When enabled the microphone signal will automatically be amplified when speaking with a low voice or if you are far away from the station.
- **AVC:** Automatic Volume Control. When enabled the loudspeaker volume is adjusted according to the ambient noise level. The AVC will perform better if the "Speaker Volume" is set to a fairly low level, as this will give the AVC a more dynamic range for adjustments. Note that the AVC adjustment is disabled while the speaker is playing audio. Adjustments are made in silent periods (min. 100 ms silence required).
- **Accessory:** If the station model supports accessories (headset, handset etc.), you can choose the type of accessory here

Adjusting the Gooseneck Phone for Push to Talk

1. Under **Main > Recovery** click on Advanced configuration mode and type in the password 1851
2. Put a checkmark in the box and click **Save**.
3. Click **Reload**.

Change the Conversation Mode:

1. Select the **Edge Configuration > Account/Call**
2. Look for **Conversation Mode:** and set it to **Push to Talk**. (see illustration below)
3. Click the **Save** button
4. When it asks if you want to **Reboot** the phone confirm that you do and the phone will reboot and be in push-to-talk mode.

Changing Gooseneck Phone Audio Settings

Call Settings

Description	Configuration
Enable Auto Answer:	<input checked="" type="checkbox"/>
<i>Auto Answer Delay:</i>	<input type="text" value="0"/> seconds. Max 30 seconds.
Press and Hold Time:	<input type="text" value="0"/> seconds. Max 60 seconds. Defines how long a DAK key/Input must be pressed before the call is established.
Max Trying Time:	<input type="text" value="15"/> How long to wait on response before hanging up.
Max Ringing Time:	<input type="text" value="120"/> How long a call can be ringing before hanging up.
Max Conversation Time:	<input type="text" value="3600"/> How long a call can be in conversation before hanging up.
Max MP114 Speech Time:	<input type="text" value="0"/> How long between MP114 speech start/end before hanging up.
Max Queued Time:	<input type="text" value="20"/> How long a call can be queued before hanging up.
Max Queued Calls:	<input type="text" value="4"/> How many incoming calls can be queued. Max 5.
Use NAT Keep Alive:	<input type="checkbox"/>
Conversation Mode:	Duplex <input type="button" value="v"/>
<i>PTT Mode:</i>	Duplex <input type="button" value="v"/> is controlled by PTT button <input type="button" value="v"/>
Resume Call Automatically:	<input checked="" type="checkbox"/> Press To Talk <input checked="" type="checkbox"/> Resume Call On-Hold Automatically After Emergency Priority Ends
Boost Volume on Push To Talk:	<input checked="" type="checkbox"/>
Override Remote Push To Talk:	<input type="checkbox"/>
<i>Force Open Duplex Using DTMF:</i>	- <input type="button" value="v"/>
Send DTMF */# with M key:	<input checked="" type="checkbox"/>

Changing Audio Settings On The Phone:

1. In Advanced Mode as described above, select the **Edge Configuration > Audio** which brings you to **Audio Settings**.

If audio is not as good as you want, try lowering the Microphone Sensitivity. If the scale house is loud, turning on the Noise Reduction Level may help. You can also adjust the Speaker Volume in addition to the knob on the front of the phone. Just make changes one at a time and test before you change anything else.

Changing Gooseneck Phone Audio Settings

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MainEdge ConfigurationStation AdministrationAdvanced Network

- Account / Call
- Audio
- Direct Access Keys
- Relays / Outputs
- Time
- Language
- Keyboard
- Multicast Paging

Audio Settings

Description	Configuration	
Speaker Volume:	<input type="text" value="7"/>	
Handset Microphone Sensitivity:	<input type="text" value="3"/>	Default value 3. 0 = disabled
Microphone Sensitivity:	<input type="text" value="5"/>	Default value 5. 0 = disabled
Echo Canceller:	<input type="text" value="0"/>	Default 0 (Restart required)
Noise Reduction Level:	<input type="text" value="0"/>	0 = disabled.
Tone Volume:	<input type="text" value="0"/>	(-1)=disabled, 0=default, [1..4]=[-22..-1]dB
Tftp Server For Audio Files:	<input type="text"/>	Tftp server used for downloading audio files. If empty, the station will use the configuration for TFTP remote provisioning.
Ring Audio File:	<input type="text"/>	Wav file to be played. The wav file must be 16 kHz, 16 bit, single channel wav file and be below 1 mb file size. It might take several minutes before the wav file is downloaded from tftp server and applied.
Play Ringing During:	<input type="text" value="Outgoing Ringing"/>	
Audio File Followed By Tone:	<input type="checkbox"/>	If checked, audio file is played one time followed by ringing tone

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Programming Speed Dial Buttons:

Select the **Edge Configuration > Direct Access Keys** and change the settings as shown in the screen below. Click the Save button.

MainEdge ConfigurationStation Administration

- Account / Call
- Audio
- Direct Access Keys
- Relays / Outputs
- Time

Account Settings

Function				
Button 1	Idle: <input type="text" value="Call To"/>	<input type="text" value="300"/>	<input type="text" value="Scale 1"/>	<input type="text" value="No Ringlist"/>
	Call: <input type="text" value="Answer Call"/>	<input type="text" value="Filter Dir. No."/>		<input type="checkbox"/> Answer Group Call
Button 2	Idle: <input type="text" value="Call To"/>	<input type="text" value="302"/>	<input type="text" value="Scale 2"/>	<input type="text" value="No Ringlist"/>
	Call: <input type="text" value="Answer Call"/>	<input type="text" value="Filter Dir. No."/>		<input type="checkbox"/> Answer Group Call
Button 3	Idle: <input type="text" value="Call To"/>	<input type="text" value="304"/>	<input type="text" value="Scale 3"/>	<input type="text" value="No Ringlist"/>
	Call: <input type="text" value="Answer Call"/>	<input type="text" value="Filter Dir. No."/>		<input type="checkbox"/> Answer Group Call
Button 4	Idle: <input type="text" value="Call To"/>	<input type="text" value="306"/>	<input type="text" value="Scale 4"/>	<input type="text" value="No Ringlist"/>
	Call: <input type="text" value="Answer Call"/>	<input type="text" value="Filter Dir. No."/>		<input type="checkbox"/> Answer Group Call
Button 5	Idle: <input type="text" value="Call To"/>	<input type="text"/>	<input type="text" value="Display text"/>	<input type="text" value="No Ringlist"/>
	Call: <input type="text" value="Answer Call"/>	<input type="text" value="Filter Dir. No."/>		<input type="checkbox"/> Answer Group Call
Button 6	Idle: <input type="text" value="Call To"/>	<input type="text"/>	<input type="text" value="Display text"/>	<input type="text" value="No Ringlist"/>
	Call: <input type="text" value="Answer Call"/>	<input type="text" value="Filter Dir. No."/>		<input type="checkbox"/> Answer Group Call