



## Vaddio™ GroupSTATION™, HuddleSTATION™ & BaseSTATION™ Network and VoIP Worksheet

The intent of this worksheet is to assist both IT managers and A/V system integrators in installing the GroupSTATION, HuddleSTATION or BaseSTATION VoIP conferencing platform into the enterprise VoIP system. The internal VoIP web pages of these products require network configuration and the use of a SIP (Session Initiation Protocol) connection.

**For the GroupSTATION and room PC, three (3) total IP addresses are required;** one (1) for GroupSTATION UC&C conferencing, one (1) for GroupSTATION VoIP conferencing and one (1) for the in-room PC used with the UC conferencing application. Again, this worksheet will concentrate on the VoIP.

### Things you'll have to know:

To configure the Group/HuddleSTATION products, the Network, VLAN, SIP and RTP (Real-time Transport Protocol) setting information must be gathered and entered. For a successful installation, fill out the tabbed sections under the VoIP Menu Bar in the software for each GroupSTATION or HuddleSTATION installed (see the screen grab below of the VoIP Menu).

**SIP Settings Tab:** The second tab under the VoIP Menu Bar is SIP Settings (see screen grab below). The following information is required to set up this tab:

#### SIP AUTHENTICATION

User Name/Extension: \_\_\_\_\_ (User Name/Extension is used by the SIP Server to route calls)

Password: \_\_\_\_\_ (Password authentication to the SIP server)

Display Name: \_\_\_\_\_ (Acts as caller ID for the call destination)

User Domain: \_\_\_\_\_ (SIP IP address or Domain Name)

Authentication User Name \_\_\_\_\_ (Authenticate to LDAP or some web based services)

Local SIP Port: \_\_\_\_\_ (Default Port is 5060)

#### SIP OUTBOUND PROXY

Proxy/URL Address: \_\_\_\_\_ (Address for SIP Outbound Proxy Server)

Proxy Port: \_\_\_\_\_ (Default Port is 5060)

#### SESSION TIMERS

Registration Lifetime: \_\_\_\_\_ (Default is 3600 sec)

Keep Alive Timer:  \_\_\_\_\_ (Click to Enable - Enter Timer Value - Default is 30 sec)



## Network Settings Tab

1) **Hostname:** \_\_\_\_\_

The Hostname is a label used for identification of the Group/HuddleSTATION device connected to the network.

2)  **DHCP IP** Address or  **Static IP** Address (check one). If Static IP is used, then the following information is required:

IP Address: \_\_\_\_\_

Subnet Mask: \_\_\_\_\_

Gateway: \_\_\_\_\_

DNS Server: \_\_\_\_\_

### 3) VLAN

The following Information is required if the Host site uses segmented VoIP and data to prioritize VoIP over data traffic on the LAN/WAN (essentially the network QoS - the car pool lane for VoIP).

VLAN Enabled (If enabled then ID and User Priority are required)

ID#: \_\_\_\_\_ User Priority#: \_\_\_\_\_

The screenshot displays the vaddio HuddleSTATION Network Settings configuration page. The 'Network Settings' tab is selected. The 'GENERAL' section includes 'Hostname' (vaddio-voip) and 'MTU Size' (1500). The 'NETWORKING' section has 'DHCP' selected for 'IP Address'. The 'MAC Address' is 18:39:19:00:18:9C. The 'IP Address' is 10.1.2.231, 'Subnet Mask' is 255.255.0.0, 'Gateway' is 10.1.255.254, and 'DNS Server' is 10.1.1.1. A yellow callout box points to these fields with the text 'Enter Static IP Information (If Static is used)'. The 'VLAN' section shows 'Enabled' checked, 'ID' set to 4, and 'User Priority' set to 0. A 'Save' button is highlighted with a yellow arrow. The status bar at the bottom indicates 'Proxy Status: SIP voice calls disabled'.

**RTP Settings Tab:** The final tab under the VoIP Menu Bar is for RTP Settings (see screen grab below). This tab defines the RTP Port Range, the Codec Priority and the Audio Processing parameters. The following information is required for the RTP Settings tab:

**RTP SETTINGS**

Port Range: \_\_\_\_\_ (Sets RTP port range used for audio transports)

**CODEC PRIORITY**

G.722 HD - Wideband  G.711µLaw  G.711aLaw \_\_\_\_\_ (The first in the list will be used for call negotiation)

**AUDIO PROCESSING**

DTMF Relay:  \_\_\_\_\_ (For using DTMF in band - Click to Enable)

DTMF ON Time: \_\_\_\_\_ (Default 150ms 0 - Sets DTMF timing)

DTMF OFF Time: \_\_\_\_\_ (Default 50ms - Sets DTMF timing)

VAD Enabled:  \_\_\_\_\_ (Check to Enable - Voice Activity Detection) Used for bandwidth management.

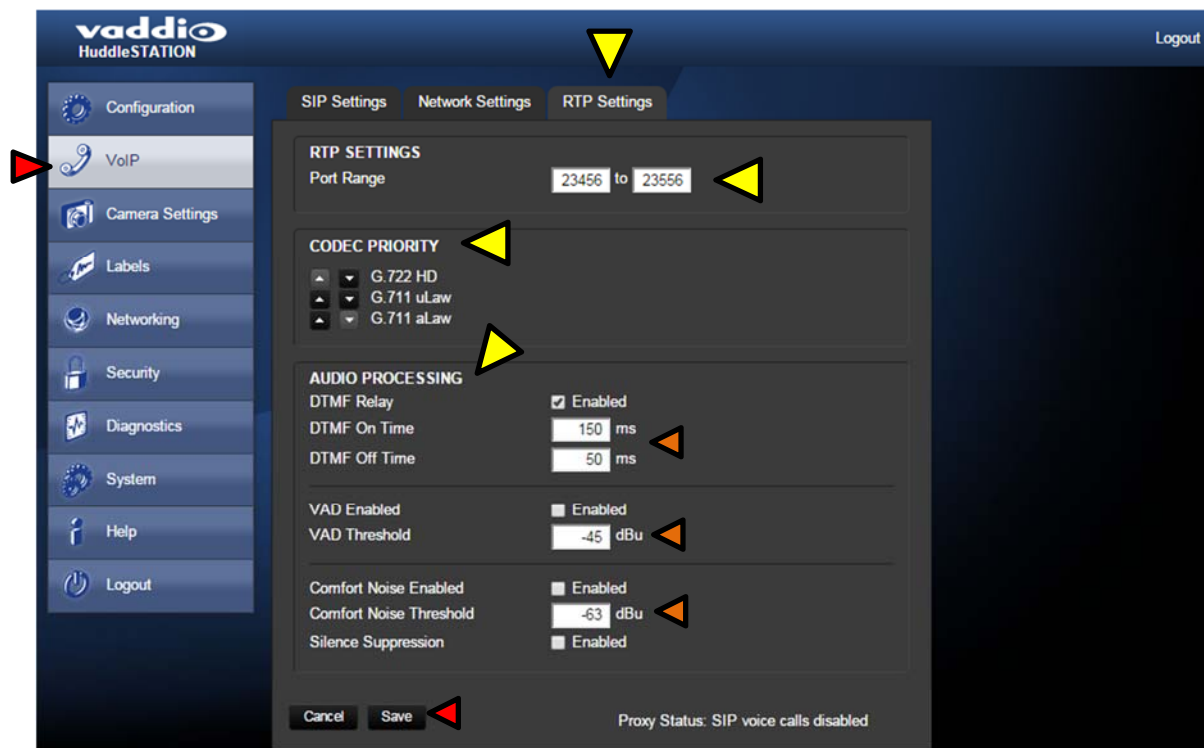
VAD Threshold: \_\_\_\_\_ (Default -45dBu - minimum level that voice has to be in order to be detected)

Comfort Noise Enabled:  \_\_\_\_\_ (Check to Enable) Synthetic background noise used to fill the artificial silence of digital

Comfort Noise Threshold: \_\_\_\_\_ (Default -63dBu)

Silence Suppression:  \_\_\_\_\_ (Check to Enable - With VAD on, Silence Suppression works to reduce call bandwidth when no voice is detected)

(In most cases, the defaults should be adequate.)



Click "Save" after entering in the VoIP RTP Settings.