Speakerbus

User Guide
ALTO
1.200.2.0

Revision 5

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ALTO User Guide

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Trademarks

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Previous Revisions

Revision 0.1	June 2021
Revision 1	21 July 2021
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Revision 3	7 February 2024
Revision 4	10 September 2024

Contents

Introduction

ALTO is a colour touchscreen speaker device that combines up to four simultaneous audio channels with a dynamic menu system for softkey and single touch user control and programming. Powered using PoE technology ALTO can run in either hosted or standalone mode.

ALTO's menus give access to all the Speakerbus voice services that the user is permissioned to access and allows any four to be selected and assigned to individual speaker channels. Channels may be re-assigned by the user at any time.

ARD, MRD and Hoot channels are all supported and the device includes options for the user to add any or all the assigned speaker channels into a single (one button press) group call.

On the rear of the device there is a single port for network connectivity along with interfaces to add a separate handset or headset and gooseneck microphone.

Features

- **Colour Touchscreen**. 480 x 320 portrait mode touchscreen display.
- **Four Simultaneous Voice Services**. Up to four simultaneous hoot, MRD and ARD calls using SbRTP and DMVS protocols user selectable from the Voice Services directory and assignable to four speaker keys.
- **Dynamic Multicast Voice Services (DMVS)**. Supports operation as either a local or remote endpoint for DMVS when in hosted mode.
- **Four Configurable Speaker Keys**. Four speaker channels which can be assigned as push to talk, tap latch and latchable.

- **Configurable Speaker Group Talk SoftKey**. Speaker Group Talk softkey configurable for 1-4 speaker channels; talk concurrently on all assigned channels at the touch of a softkey.
- **Two Fixed keys (Info / Clear)**. Two fixed keys for ALTO user information and to clear all open, to talk, voice services assigned to the four speaker channel keys.
- **Individual and Master Volume Controls**. Individually configurable volume controls for each speaker channel and for the master volume.
- **User Configurable Alerting**. Configurable user alerting for ARD and MRD voice services assigned to each of the four speaker channels.
- **Hosted and Stand Alone Configuration**. Configuration by Speakerbus iManager Communications Management System (iCMS) in hosted mode or the built in web server (for non-DMVS settings) in standalone mode.
- **Voice Recording**. Voice recording of all active audio streams with Call Data Records (CDR) events and support for a secondary recorder.
- **External handset support**. Support for an optional Speakerbus handset.
- **Quiet Office / Headset support**. When quiet office is enabled all speaker audio is sent to an optional connected third-party headset.
- **Optional Speakerbus Gooseneck Microphone with LED**. An optional Speakerbus gooseneck microphone available with halo LED indicator which is lit in blue when talking on a voice service. Available attached or free standing.
- **PoE powered with optional external midspan adaptor to support local power if required**. ALTO uses Power over Ethernet (PoE); only one cable required to provide both power and connectivity.

About this guide

This guide explains how to use ALTO when managed by Speakerbus iManager Communications Management System (iCMS) in hosted mode; this is ALTO's out of the box configuration.

To use ALTO in stand alone mode, see *Engineering Tools* on page *55* and *Appendix B - Embedded Web Browser* on page *63*.

In the default out of the box hosted mode you may not have access to Engineering Tools or the Embedded Web Browser.

This guide describes how to allocate voice services to the four available speaker keys including adjusting the volume of each speaker channel on ALTO. This guide also describes configuration of handsets/headsets/gooseneck mic. to use with ALTO.

Product version

This document is written for ALTO (iD704) firmware version 1.200.2.0 which is compatible with Speakerbus iCMS 4.400.4.0 or higher.

Further help

Please contact your System Administrator or the Speakerbus Global Helpdesk at customer.support@speakerbus.com

Getting Started

What's in the box

- ALTO (iD704)
- Safety Instructions
- Quick Start Guide

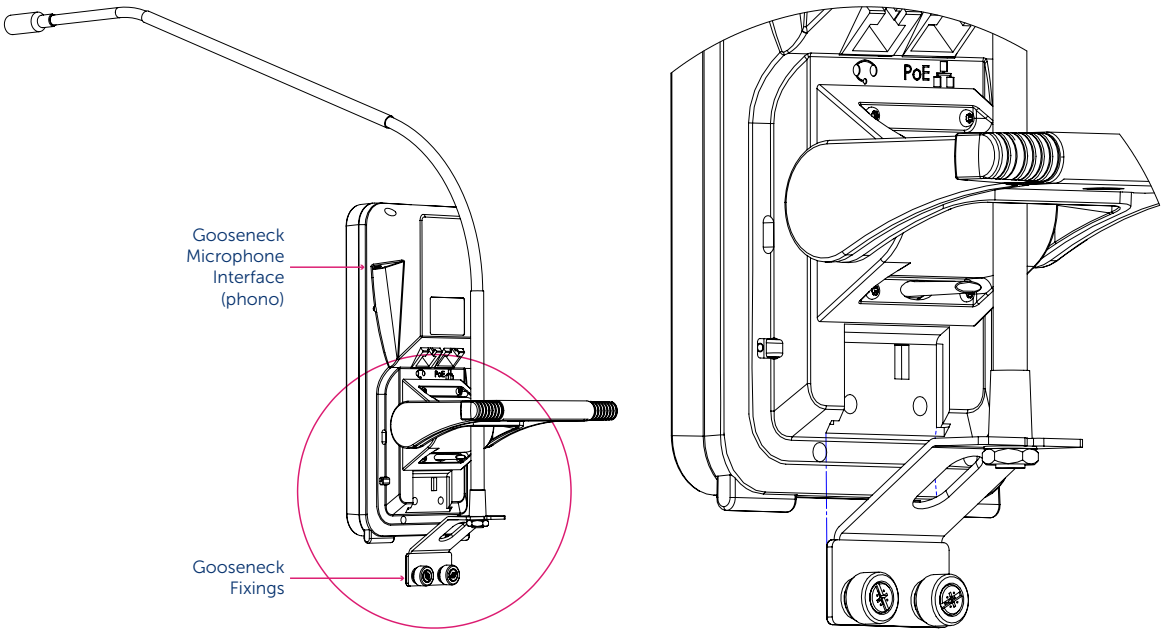
Optional Speakerbus accessories

- Gooseneck Microphone 550mm Close Talking (Sales Code: 52-090-34)
- Free Standing Gooseneck Microphone 455mm Close Talking (Sales Code: 52-090-40)
- Speakerbus Handset Dual Use (Sales Code: SE HSETD-C)
- Power over Ethernet (PoE) Injector (Sales Code: 14-00-098/iD POE)
- RJ45 to RJ45 3 Metre AT&T 26 AWG Cat5 Cable (Sales Code: 12-011-50)
- RJ11 to RJ22 Connector Adaptor Plastic (Sales Code: 10-04-087)

Attaching the optional gooseneck microphone

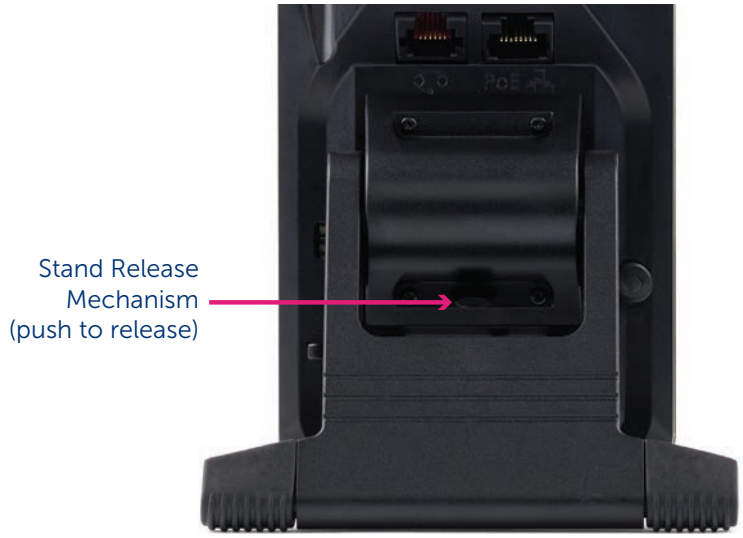
To attach the optional Speakerbus gooseneck microphone:

1. Open the stand to 90 degrees using the push to release button on the rear, see *Stand adjustment* on page *10*.
2. Feed the gooseneck microphone through the stand (see illustrations below).
3. Slide the base mounting bracket of the gooseneck into the Housing.
4. Secure with the gooseneck fixings.
5. Plug the gooseneck's phono lead into the gooseneck interface (phono).

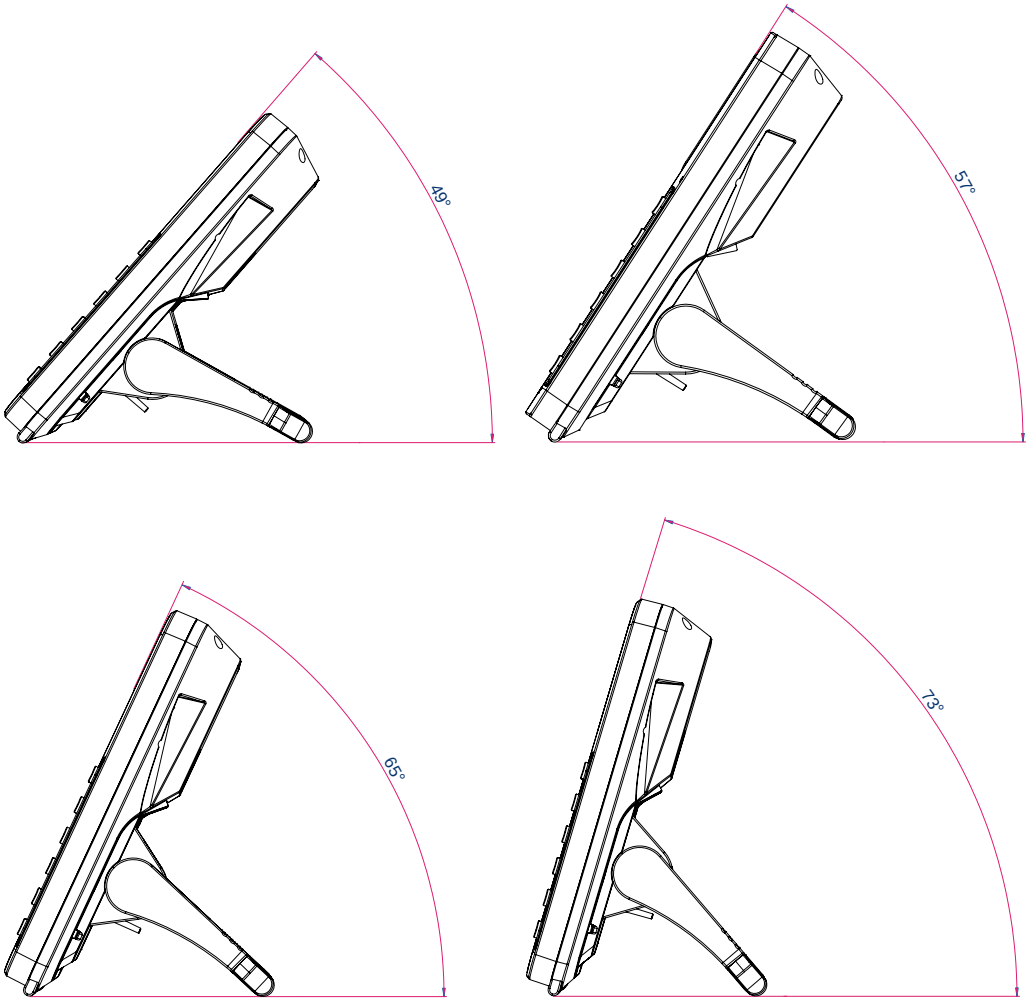


Stand adjustment

ALTO's adjustable stand can be set to one of four positions using the stand release mechanism (push to release) button on the rear.



The four positions are shown in the illustrations below.



Connecting an Ethernet cable and optional handset/headset

ALTO requires a Power over Ethernet (PoE) connection for connecting to the network and for power. If you do not have a PoE enabled switch / router, a PoE Injector can be purchased from Speakerbus, see see *Optional Speakerbus accessories* on page *9*.

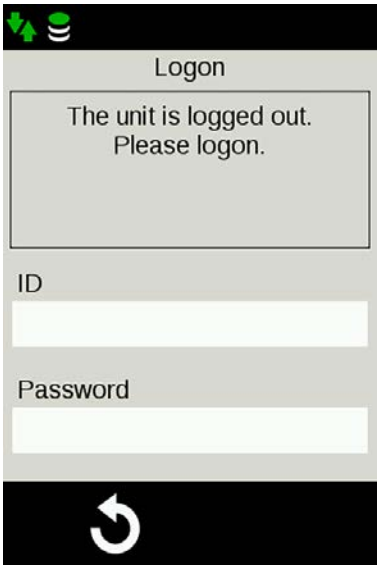
An optional Speakerbus handset or third party headset can be connected to ALTO. Headsets may require an optional RJ9 to RJ12 adapter, see *Optional Speakerbus accessories* on page *9*. For handset/headset configuration, see *User Settings* on page *50* and *Speaker Settings* on page *51*.

Logging on

To log on using Active Directory Credentials or Microsoft SSO, see *Seating Assistant* on page *14*.

ALTO, out of the box, is set in hosted mode to be managed by a Speakerbus iManager Centralised Management System (iCMS) which is indicated by an on screen iCMS Status indicator . If either or are displayed, see *Status indicators* on page *20*.

If you are your organisation's administrator and require to change iCMS and IP address settings, see *Appendix A - Safemode* on page *59* or, for configuring stand alone mode, see *Appendix B - Embedded Web Browser* on page *63*.

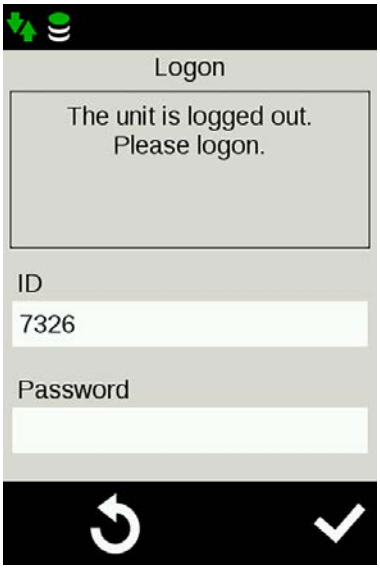


To log on to ALTO:

1. Touch the white text entry field below ID.

2. Enter your ID using the alphanumeric keypad. Touch the shift softkey  to rotate between the lower case, upper case and numeric only keypad.

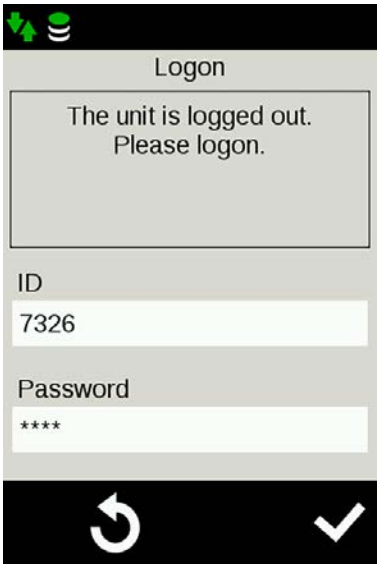
3. Once you have entered the **ID** touch the **confirm** softkey  .



4. Touch the white text entry field below **Password**.

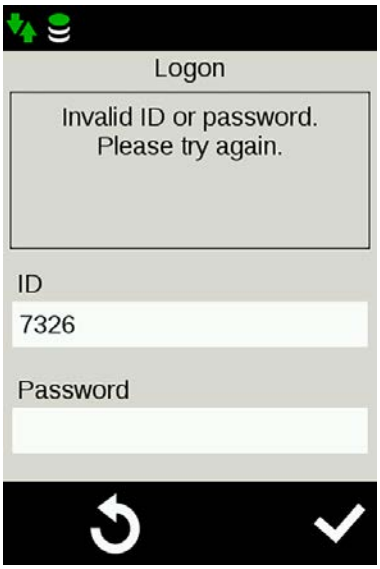
5. Enter your **password** using the alphanumeric keypad. Touch the shift softkey  to rotate between the lower case, upper case and numeric only keypad.

6. Once you have entered the Password touch the confirm softkey  .



7. Touch the **confirm** softkey  to logon.

Logon invalid



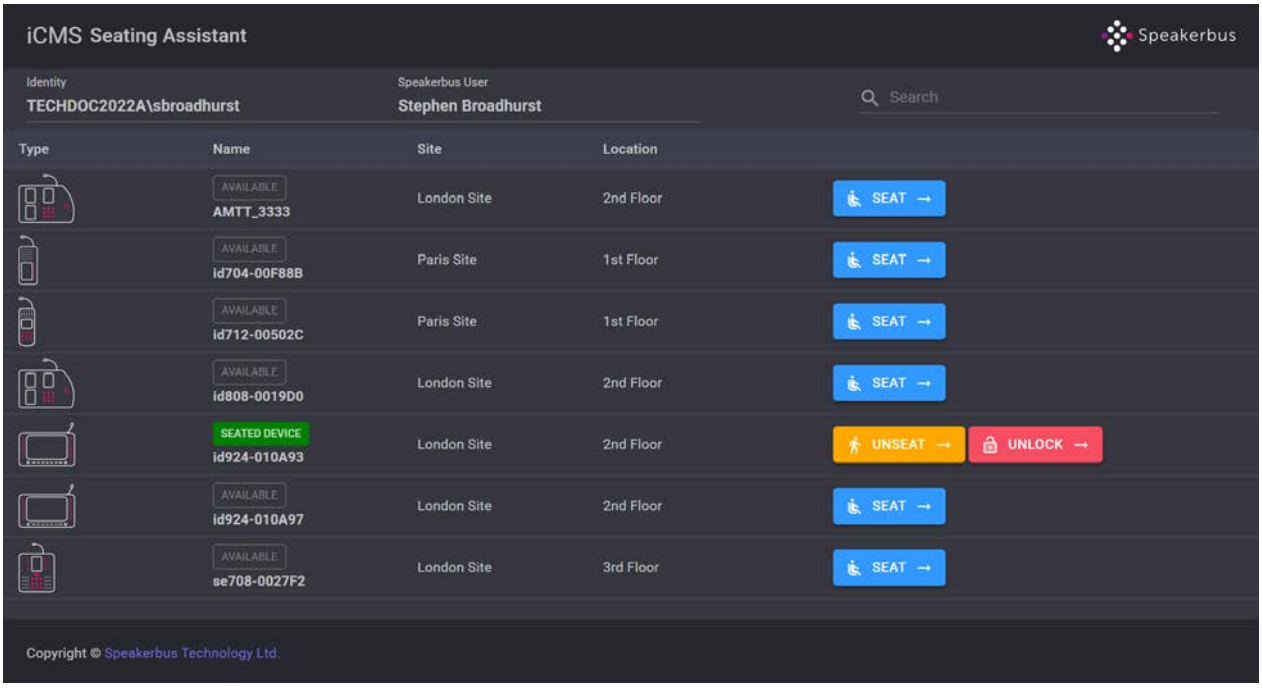
Check your **ID** is correctly entered and re-enter the **password** by touching the white text entry field below **Password**, see *Logging on* on page *11*. Touch the **confirm** softkey ✓ to logon.

- If logon is denied then please contact your System Administrator.
- If you do not know your **ID** and/or **Password** contact your System Administrator.

Seating Assistant

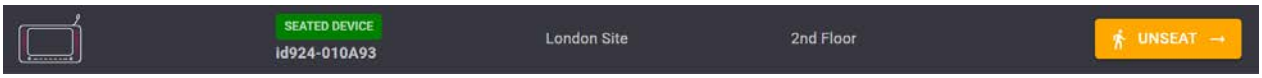
Seating Assistant may not be enabled within your organisation. Please contact your System Administrator for further information.

The seating assistant is a web page, located at URL *https://<hostname>/icms/seatingassistant*, that provides the ability to unseat and seat at available (unseated) ALTO (iD704), AYRE (iD924), iD712, iTurret (iD808) or ZERO8 (SE 708) deskstations.



- **Identity**. This is the signed in Active Directory or Microsoft Entra SSO (Single Sign On) user identification.
- **Speakerbus User**. This is the username.

'SEATED DEVICE' is displayed next to a current seated deskstation.

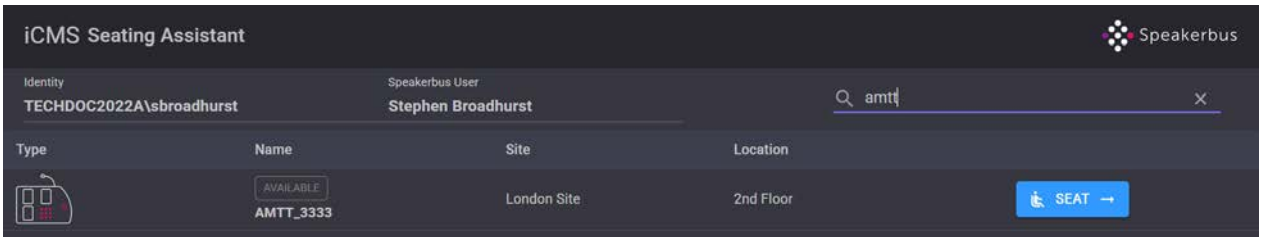


Search/Filter

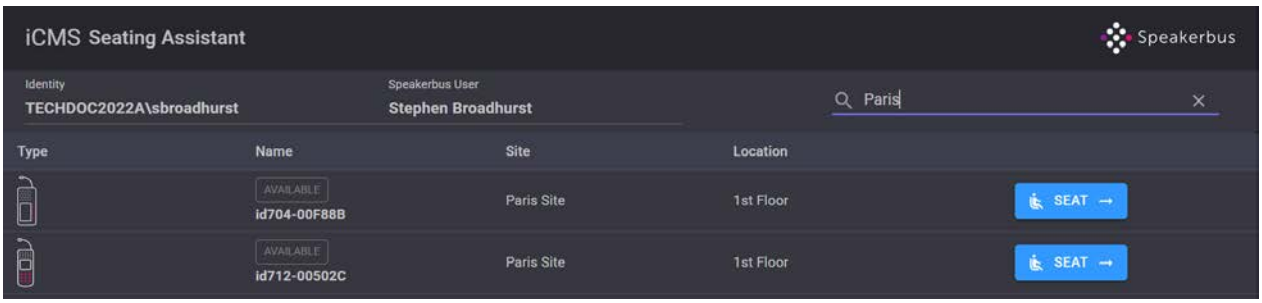
The **Search** text entry field is used to filter the listed devices. This field is case insensitive. Text entered is filtered by:

- Name.
- Site.
- Location.

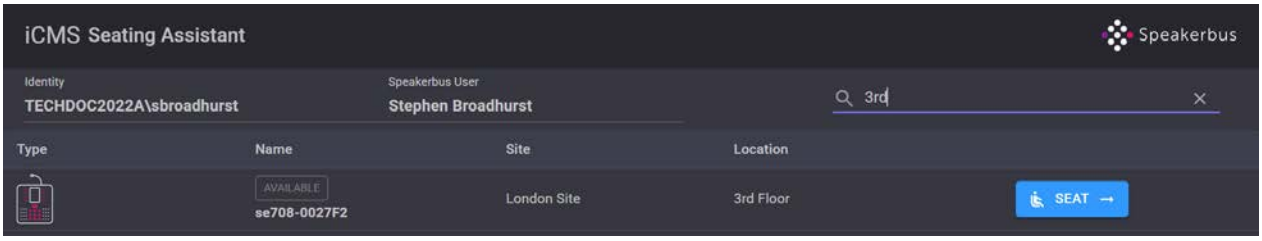
The example below shows the result of searching for a device labelled 'amtt'. Only the deskstation with the site labelled as 'AMTT_3333' is displayed. However if multiple device names, sites or locations contain 'amtt' as part of their label, those deskstations would also be displayed.



The example below shows the result of searching for a site labelled 'Paris'. Only deskstations with the site labelled as 'Paris Site' are displayed. However if multiple device names, sites or locations contain 'Paris' as part of their label, those deskstations would also be displayed.



The example below shows the result of searching for a location labelled '3rd Floor'. Only deskstations with the location labelled as '3rd Floor' are displayed. However if multiple device names, sites or locations contain '3rd' as part of their label, those deskstations would also be displayed.



Clear Search/Filter

Select 'x' to clear the search filter.

Seat a Deskstation

Select to seat (sign in) to a deskstation.

Unseat a Deskstation

Select to unseat (sign out) from a deskstation.

Unlock an iTurret/AYRE Deskstation

The seating assistant provides the ability to unlock an iTurret (iD808) or an AYRE (iD924) which has compliant call forwarding enabled.

Select to unlock the iTurret/AYRE deskstation.

For more information about Compliant Call Forwarding, see the *iTurret User Guide* and the *AYRE User Guide*.

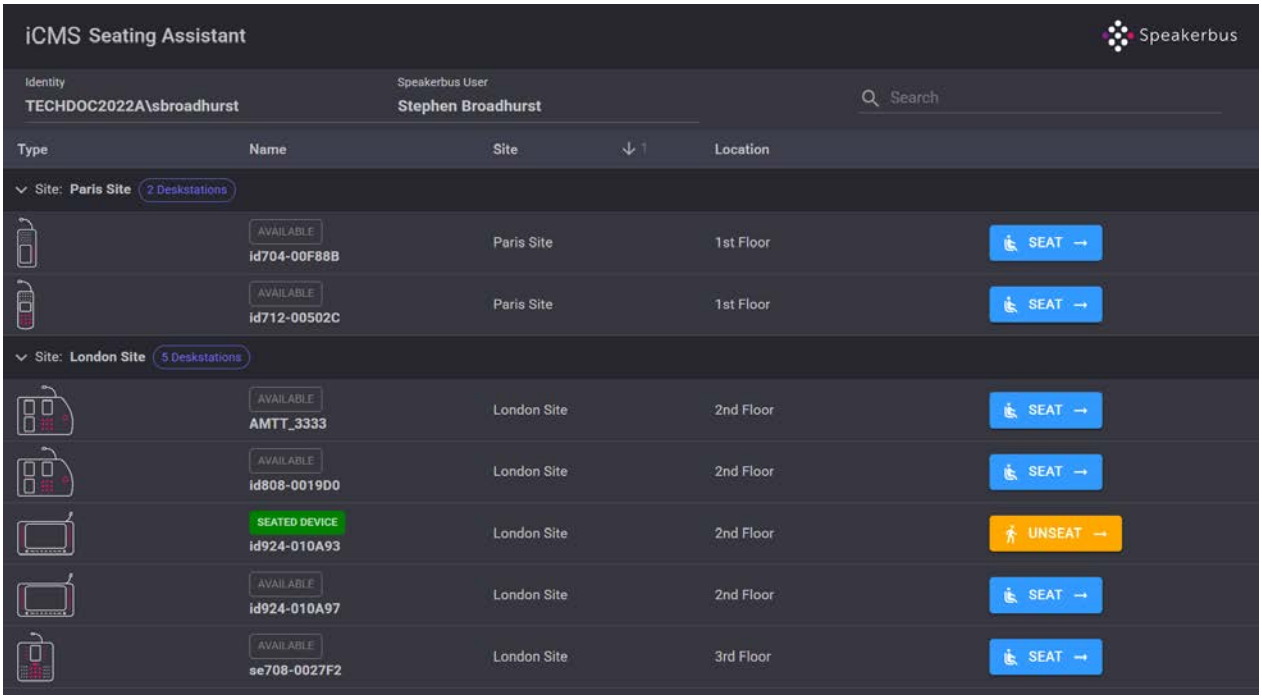
Sort, Unsort, Group and Ungroup

Selecting a field header such as **Type** allows you to sort devices in ascending or descending order.

Selecting the icon labelled **1** allows you to unsort, group or ungroup depending on header label.

Sorting and unsorting can be performed on **Type**, **Name**, **Site** or **Location**.

In addition, grouping and ungrouping can be performed on **Type** or **Site**. The example below displays grouping by **Site**.



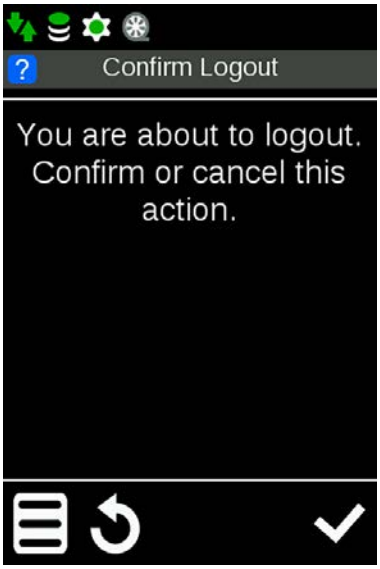
Logging out

To log out of ALTO:

1. Touch the **menu select** softkey located at the bottom left of the touchscreen.

   This displays several menu options (see below).

2. Touch the **Logout** softkey.



3. Touch the **confirm** softkey  to logout.

ALTO Elements

Front view

ALTO Front View:

- Speaker.
- Status indicators. ALTO's network status, iCMS status, SIP registrar status, recording configuration status, microphone type, gooseneck microphone levels within acceptable limits and handset active, see *Status indicators* on page *20*.
- 4 x Speaker Channels. Each channel contains:
  - voice service name
  - voice service status
  - channel indicators, see page *23*.
- Contextual Softkeys, see page *23*.
- Activity Indicator.
- Info Key.
- 4 x Channel Keys.
- Clear / Cancel Key.

Rear view

ALTO Rear View:

- Gooseneck Microphone Interface (phono).
- Handset Interface (RJ12).
- Network Interface Power over Ethernet - PoE (RJ45).
- Status LEDs.
- 6 PIN Serial Port (Diagnostics).
- Stand Release Mechanism (push to release), see *Stand adjustment* on page *10*.

Status indicators

Status icons are located at the top of the screen. The icons from left to right are: network status, iCMS status, SIP registrar status, recording configuration status, microphone type, gooseneck microphone levels within acceptable limits and handset active.

1. Network Status

State	State	Explanation
	Good	Indicates the network connection is good.
	Warning	Indicates there is either an unsuccessful DHCP IP assignment, no manual IP address assigned, unable to connect to a configured CDR server or there are pending network changes requiring a restart.
	Bad	Flashes when there is no network connection.

2. iCMS Status

State	State	Explanation
	Good	Indicates the iCMS connection is good, ALTO is configured in hosted mode.
	Warning	Indicates ALTO is out of sync, there is a SIP configuration issue or a restart is required to apply some settings (animated while processing XML files received from iCMS).
	Bad	Flashes when there is no network connection.
	Stand alone	Indicates ALTO is configured in stand alone mode.

3. SIP Registrar Status

State	State	Explanation
	Good	Indicates all call/line appearances are connected to the SIP registrar.
	Warning	Indicates not all call/line appearances are connected to the SIP registrar.
	Bad	Flashes when unable to complete SIP registration.
	No user / stand alone	Indicates ALTO is logged out or running in stand alone mode.

4. Recording Configuration Status

State	State	Explanation
	Fully Recorded	Indicates all audio sources are configured for recording.
	Partially Recorded	Indicates some audio sources are configured for recording.
	Error	Indicates an “Always Record” audio source is not recorded.
	Not Recorded	Indicates no audio is recorded.
	No user / stand alone	Indicates ALTO is logged out or running in stand alone mode.

5. Microphone Type

State	State	Explanation
	Open Mic.	Indicates the internal open microphone is the current audio source. Shown whenever the open microphone is active, even when muted.
	CB Mic.	Indicates the CB microphone is the current audio source. Shown whenever the CB mic is active, even when muted.
	Gooseneck	Indicates the gooseneck microphone is the current audio source. Shown whenever the mic is active, even when muted.

6. Gooseneck Microphone Levels Within Acceptable Limits

State	State	Explanation
	High	Indicates that the gooseneck microphone volume level is high. Talk farther away from the gooseneck microphone.
	Good	Indicates the gooseneck microphone volume level is good.
	Low	Indicates the gooseneck microphone volume level is low. Talk closer to the gooseneck microphone.
	Not active	Indicates the gooseneck microphone is not active, muted, or level is ‘silent’.

7. Handset Active

State	State	Explanation
	Active	Indicates the handset is the current audio source.

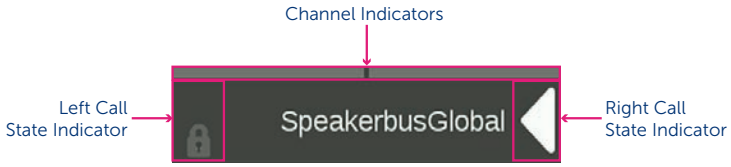
Channel indicators

Two virtual LEDs are associated with each speaker channel, displayed in the thin bar above each of the four speaker channels, see *Call state indicators* on page *24*.

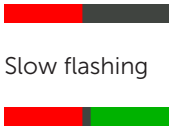
Contextual softkeys

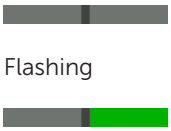
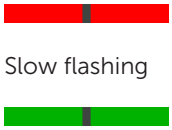
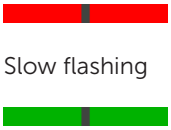
Softkey	Function
	Menu select, when touched displays the top level ALTO configuration menu, see *Menu* on page *37*.
	Group Talk, initiates a group talk. When touched all linked speaker channels become active allowing talking to several speaker channels simultaneously. To configure this softkey, see *Group Talk* on page *39*.
	Adjust Volume, when touched displays the volume control settings for the four speaker channels and master volume, see *Adjust the volume of a speaker channel or master volume* on page *34*.
	Mute All Speakers, when touched mutes all four speaker channels, see *Mute all speaker channels* on page *36*.
	MRD Signal, only available when one or more MRDs are talking; inserts a signal on the selected MRD channel or the MRD call on handset. The MRD signal will continue for the duration of the softkey touch or channel key press.
	Confirm, when touched confirms setting changes made within ALTO's configuration menu, see *Menu* on page *37*.
	Back, when touched returns to previous menu/screen.
	Page Down.
	Page Up.

Call state indicators



The channel speaker status indicators display the speaker channel's voice service status.

Left call state indicator	Right call state indicator	Explanation	Channel indicators VAD on	Channel indicators VAD off
		Inactive speaker channel. This is when the speaker channel is not currently active.		
		Inactive speaker channel. This is when a user has this speaker channel configured but is currently seated on a domain where this call is not present.		
		ARD call idle or no broadcast, MRD or ARD assigned.		
		ARD outgoing call (far end ringing). Talking latched. (Not applicable to MRD).	 Slow flashing	 Slow flashing

Left call state indicator	Right call state indicator	Explaination	Channel indicators VAD on	Channel indicators VAD off
		ARD outgoing call (far end ringing). Listen only, i.e. talking not latched. (Not applicable to MRD).	 Slow flashing	 Flashing
		ARD outgoing call (far end ringing). Listen only, i.e. talking not latched. (Not applicable to MRD).	 Slow flashing	 Slow flashing
		ARD call busy elsewhere.		
		MRD call busy elsewhere (note that listen is always active for MRD, i.e. 'monitor' mode).	 Flashing If channel muted  Slow flashing	 If channel muted  Slow flashing
		Broadcast in listen-only state, no talk permission.	 Flashing If channel muted 	 If channel muted
		Broadcast on handset in listen-only state, no talk permission.	 Flashing	
		ARD connected, in Listen state.	 Flashing If channel muted Slow flashing	 If channel muted Slow flashing

Left call state indicator	Right call state indicator	Explanation	Channel indicators VAD on	Channel indicators VAD off
		Broadcast connected, in Listen state.	Flashing If channel muted Slow flashing	If channel muted Slow flashing
		MRD connected, in Listen state (note that listen is always active for MRD, i.e. 'monitor' mode).	Flashing If channel muted Slow flashing	If channel muted Slow flashing
		ARD talk attempt. If a talk attempt is unsuccessful then the channel will remain in this state until it succeeds or the user abandons the attempt.	Flashing	
		MRD or broadcast talk attempt; note this differs from ARD in that no connecting icon is shown. If a talk attempt is unsuccessful then the channel will remain in this state until it succeeds or the user abandons the attempt.	Flashing	
		ARD connected, in talk state.	Flashing	
		MRD or broadcast connected, in talk state (including broadcast talk-only); note this differs from ARD in that no connected icon is shown.	Flashing	
		MRD connected in talk state whilst ring signal is being generated (either initial-ring or user initiated ring signal).	Flashing	
		ARD outgoing call (far end ringing). On handset. (Not applicable to MRD)	Slow flashing	Slow flashing
		ARD connected. On handset.	Flashing	

Left call state indicator	Right call state indicator	Explanation	Channel indicators VAD on	Channel indicators VAD off
		MRD or broadcast connected; note this differs from ARD in that no connected icon is shown. On handset.	Flashing	
		MRD connected on handset whilst user initiated ring signal is being generated.	Flashing	
		ARD talk attempt. If a talk attempt is unsuccessful then the channel will remain in this state until it succeeds or the user abandons the attempt. On handset (a talk attempt is automatically made when a speaker channel is placed on handset so this state can only exist following this transfer). This state is similar to the 'outgoing call connecting' state but here the call is already connected but with the talk attempt pending.	Flashing	
		MRD or broadcast talk attempt; note this differs from ARD in that no connecting icon is shown. If a talk attempt is unsuccessful then the channel will remain in this state until it succeeds or the user abandons the attempt. On handset (a talk attempt is automatically made when a speaker channel is placed on handset so this state can only exist following this transfer).	Flashing	
		ARD connected, on hold. (Not applicable to MRD).	Fast flashing	Fast flashing
		ARD on hold elsewhere. Call can be picked up by this user. (Not applicable to MRD).	Slow flashing	Slow flashing
		ARD call idle as a result of far end clearing. This is a transitory state to highlight to a user that a call has gone.		
		Group Talk – member muted & line to handset channels. Or On-speaker, talking – microphone muted. Call state icons as appropriate for call state as per rest of table. Mute pattern1 (modified) if user Rx also muted.	Fast flashing If privacy-elsewhere is active on this call:	Fast flashing

Privacy call state indicators

Call state	No privacy	Requesting privacy	Privacy
Idle			n/a
Connecting / talk-attempt			n/a
Connected			
Busy elsewhere (privacy ennabled at remote site)		n/a	
Held here		n/a	
Held elsewhere		n/a	

Touchscreen gestures

ALTO supports several context dependant touchscreen gestures:

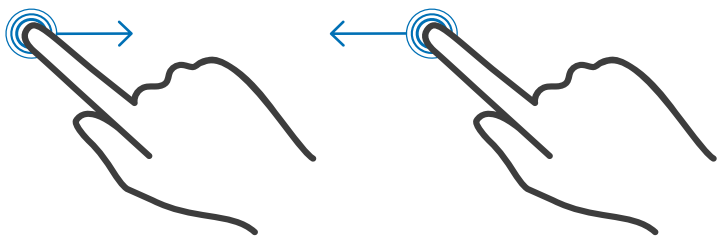
- Swipe up/down touch gestures.
- Swipe left/right touch gestures.
- Swipe arc touch gesture.
- Two finger touch gesture.

Swipe up/down touch gestures

When selecting a voice service to apply to a speaker channel (*Voice Services* on page *38*) the up/down finger gesture scrolls through the list of available voice services.

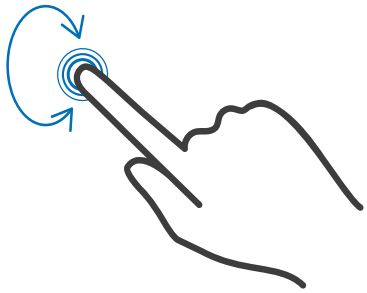
Swipe left/right touch gestures

When in the volume adjustment screen (see *Adjust the volume of a speaker channel or master volume* on page *34* or Swipe arc touch gesture below) the left/right finger gesture adjusts individual volume levels or the master volume level.



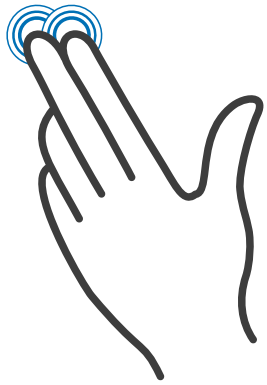
Swipe arc touch gesture

The volume adjustment screen (see *Adjust the volume of a speaker channel or master volume* on page *34*) can be accessed using an elliptical clockwise or anticlockwise gesture



Two finger touch gesture

To hold/unhold a speaker channel touch the speaker channel with two fingers.



Speaker Channels

This section explains how to:

- Talk on a speaker channel, see page *31*.
- Make a call private, see page *33*.
- Group talk, see page *34*.
- Adjust the volume of a speaker channel or master volume, see page *34*.
- Mute/unmute a speaker channel, see page *35*.
- Mute all speaker channels, see page *36*.

To configure the following:

- To add/assign a speaker key, see *Add Speaker Key* on page *44*.
- To configure group talk, see *Group Talk* on page *39*.
- To delete/unassign a speaker key, see *Delete Speaker Key* on page *45*.
- To configure a handset / headset, see *User Settings* on page *50* and *Speaker Settings* on page *51*.
- To configure a CB Mic., see *User Settings* on page *50*.
- To configure global muting/dipping, see *Speaker Settings* on page *51*.
- To configure channel key latching or priority, see *Edit Speaker Key* on page *47*.
- To configure quiet office, see *User Settings* on page *50*.
- To configure ARD/MRD alerting, see *Edit Speaker Key* on page *47*.

Talk on a speaker channel

You can speak on a speaker channel using either the push to talk or latching method. Latching needs to be enabled on the speaker channel in order for the latching to work, see *Edit Speaker Key* on page *47*. There are two latching types: Push to Latch and Tap Latch, to configure the type of latching see *Speaker Settings* on page *51*.

To talk on a speaker channel you must have talk permission to that voice service.

Listen only speaker channels display the Broadcast in listen-only state icon  .

Push to talk

The push to talk mode is the default setting for speaker channel talk keys.

To talk on a push to talk speaker channel:

1. Press and hold down the associated speaker key, the speaker status will change to talk state  .
2. Talk whilst holding down the key.
3. Release the key to return the speaker channel's state back to monitor mode.

Push to latch

- Please ensure latching is enabled on the speaker channel. For more information, see *Edit Speaker Key* on page *47*.
- Please ensure **Push to latch** is set, see *Speaker Settings* on page *51*.
- If your System Administrator has enabled latched hoot timeout, and no speech is detected after a defined time, an audible warning is sounded before the hoot is disconnected.

To talk on a push to latch speaker channel:

1. Press the associated speaker key, the speaker status will change to talk state  .
2. Talk.
3. Press the associated speaker key to return the speaker channel's state back to monitor mode.

   OR

   Press the Clear / Cancel key.

Tap latch

- Please ensure latching is enabled on the speaker channel. For more information, see *Edit Speaker Key* on page *47*.
- Please ensure **Tap latch** is set, see *Speaker Settings* on page *51*.
- Push to talk can still be used in tap latch mode, push and hold down the speaker channel key whilst talking rather than tapping the key to latch the channel.

To talk on a tap latch speaker channel:

1. Quickly tap the associated speaker key, the speaker status will change to talk state .
2. Talk.
3. Tap the associated speaker key to return the speaker channel's state back to monitor mode.

   OR

   Press the Clear / Cancel key.

Make a call private

A manual ringdown (MRD) or automatic ring down (ARD) call can be made private when two parties are engaged on a call. When activated no other party can join the call. If a call was made between two parties and a third party barges into the call, it will not be possible to activate the privacy function.

A line can be made private both before and during a call. If a line is made private when a call is active, privacy mode is removed when the call is ended.

To make a call private touch the speaker channel's privacy softkey. Touch again to turn off privacy.

Group talk

The group talk softkey  is used to talk simultaneously onto multiple speaker channels, to configure see *Group Talk* on page *39*.

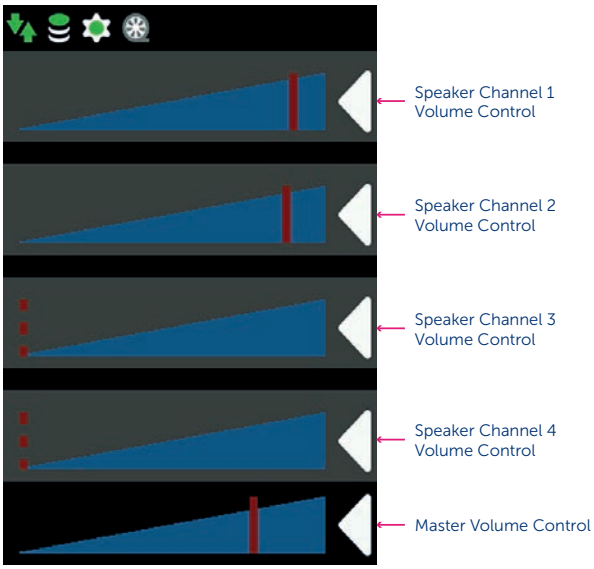
To talk on a group call touch and hold down on the group talk softkey. Release when finished talking.

Touching the group talk key when no group talk is configured will take you to the configure group call option, see *Group Talk* on page *39*.

Adjust the volume of a speaker channel or master volume

To adjust the volume levels of individual speaker channels or the master volume touch the

volume menu softkey  or use a swipe arc touchscreen gesture, see *Touchscreen gestures* on page *28*.



Use your finger to the left to reduce volume and right to increase volume gesture, see *Touchscreen gestures* on page *28*.

Mute/unmute a speaker channel

To mute/unmute a speaker channel touch the speaker channel's softkey  or  .

Mute all speaker channels

To mute the volume of all speaker channels touch the bottom mute all softkey  .

There is no equivalent overall unmute.

Menu

To access the menu touch the **menu select** softkey located at the bottom left of the touchscreen.

This displays the following menu options:

Softkey	Function
	Voice Services. This option is used to assign selected voice services to speaker keys, see *Voice Services* on page *38*.
	Group Talk. This option is used to assign selected voice services on speaker keys to group talk, see *Group Talk* on page *39*.
	Speaker Keys. This option is used to edit speaker keys such as adding, deleting and moving keys, see *Speaker Keys* on page *43*.
	User Settings. This option is used to edit user settings such as environment and handset mode, see *User Settings* on page *50*.
	Speaker Settings. This option is used to edit speaker settings such as master volume, ring on busy and speaker source, see *Speaker Settings* on page *51*.
	Speaker Dipping. This option is used to edit speaker dipping settings such as local dipping type, dipping level and audio restore delay, see *Speaker Dipping* on page *52*.
	Send Logs. This option is used to send ALTO diagnostic logs to a TFTP server, see *Send Logs* on page *53*.
	Resynchronisation. This option is used to resynchronise ALTO when set in Speakerbus iManager Communications Management System (iCMS) hosted mode, see *Resynchronisation* on page *54*.
	Logging out. This option is used to logout of ALTO, see *Logging out* on page *17*.
	Engineering Tools. This option is used to access engineering diagnostic tools such as ping, traceroot, load factory defaults, IP settings and iCMS settings, see *Engineering Tools* on page *55*.
	Information. This option is used to provide information regarding ALTO's current status including software version and connectivity, see *Information* on page *56*.

To exit the main menu or any of the menu options touch the back softkey .

Voice Services

The voice services option is used to assign voice services to speaker channel keys. A maximum sixteen voice services can be registered to ALTO but only four can be assigned to ALTO's four speaker keys. Voice services assigned to speaker channels can be added to group talk, see *Group Talk* on page *39*.

To assign a voice service to a speaker key:

1. Touch the **menu select** softkey  located on ALTO's default page.

2. Touch the **voice services** softkey  . This displays the voice services assign screen.

3. Touch the voice service to assign from the displayed list. If there are more than seven available voice services one can scroll through the list by moving a finger from the bottom of the screen upwards to scroll, see *Touchscreen gestures* on page *28*.

   OR

   Touch the search magnifying glass softkey to type the name of the voice service to assign.

4. Touch the voice service name to assign it.

A voice service can be assigned to an empty speaker channel or a currently assigned speaker channel.

5. Touch a speaker channel to assign the voice service.

   OR

   Press the speaker key to the right of the speaker channel to assign the voice service.

Group Talk

The group talk option is used to assign up to four speaker channels to the group talk softkey located on ALTO's default page.

When the group talk softkey is touched all linked speaker channels become active allowing talking to several speaker channels simultaneously.

The alternative to using the group talk softkey is to press several speaker keys simultaneously to make all speaker channels active at the same time. Although this provides an equivalent action to group talk softkey, it can prove to be cumbersome. This is particularly the case if required to talk to four speaker channels at the same time.

To edit group talk member muting or group talk latching, see *Group Talk Edit* on page *42*.

If no speaker channels have been assigned to group talk then touching the group talk softkey allows you to assign speaker channels to group talk, see *Group Talk Edit* on page *42*.

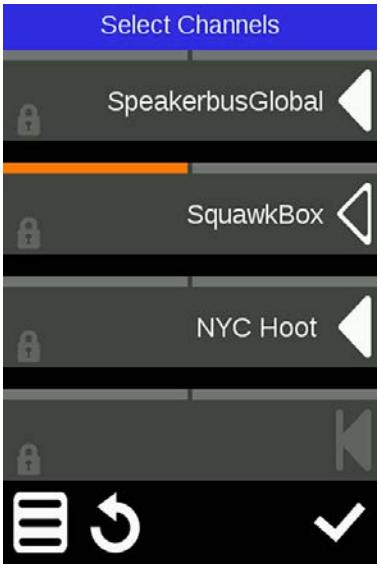
Assign Speaker Channel(s) to Group Talk

To assign (add) speaker channel(s) to group talk:

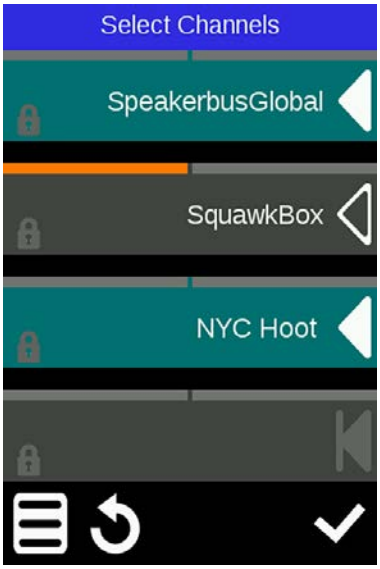
1. Touch the **menu select** softkey located on ALTO's default screen.

2. Touch the **voice services** softkey. This displays the group talk add/delete screen.

3. Touch '**Add/Delete**'. This will display the select channels screen.



4. To select touch the channel(s). In the scenario below 'SpeakerbusGlobal' and 'NYC Hoot' have been selected.



5. After making changes to these settings touch the **confirm** softkey  .

	Group talk can only be initiated on voice services that allow talk. If a listen only voice service is assigned to group talk and subsequently becomes available to allow talk, then the channel will need to be unassigned and reassigned to enable talk on that channel.

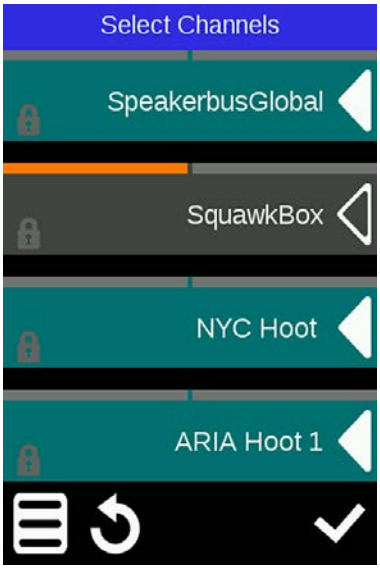
Unassign Speaker Channel(s) from Group Talk

To unassign (delete) speaker channel(s) from group talk:

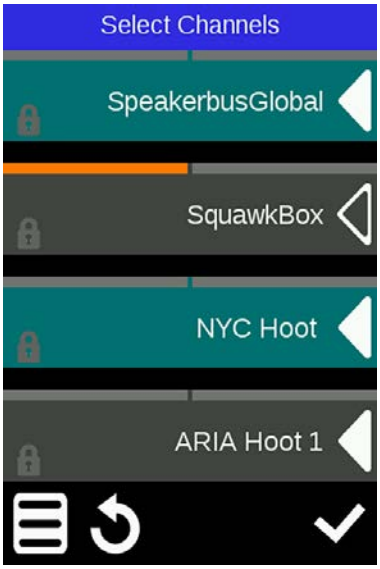
1. Touch the **menu select** softkey  located on ALTO's default screen.

2. Touch the **voice services** softkey  . This displays the group talk add/delete screen.

3. Touch '**Add/Delete**'. This will display the select channels screen. In the scenario below 'SpeakerbusGlobal', 'NYC Hoot' and 'ARIA Hoot 1' are currently assigned.



4. To unassign touch the channel(s). In the scenario below 'ARIA Hoot 1' is unassigned.



5. After making changes to these settings touch the **confirm** softkey  .

Group Talk Edit

To edit group talk:

1. Touch the **menu** select softkey  located on ALTO's default screen.

2. Touch the **voice services** softkey  . This displays the group talk add/delete screen.

3. Touch **edit**. This displays the **group talk settings** screen.

- **Member muting**. When enabled allows individual speaker channels assigned to group talk to have the microphone muted while still talking to other speaker channels of the group. Member muting is activated by pressing the individual speaker key when a group talk is active. When the microphone is muted the speaker channel LED will flash fast orange or green Member muting only applies to ARDs and hoots.
- **Group latching**. When enabled overrides the speaker channel latching mode. If a speaker channel that is a member of the group talk is already latched on when non-latching group talk is initiated and then released again, the original latched channel will also be cleared.

4. After making changes to these settings touch the **confirm** softkey .

Speaker Keys

The speaker keys option is used to assign (add), unassign (delete) and move voice services on speaker channel keys and to set latching/priority on each speaker key. A maximum sixteen voice services can be registered to ALTO but only four can be assigned to ALTO's four speaker keys.

To configure speaker keys:

1. Touch the **menu select** softkey located on ALTO's default screen.
2. Touch the **speaker keys** softkey. This displays the speaker keys add/delete/move/edit screen.

Add Speaker Key

To add (assign) a speaker key:

1. Touch the **menu** select softkey located on ALTO's default screen.
2. Touch the **speaker keys** softkey. This displays the speaker keys add/delete/move/edit screen.
3. Touch '**Add**'. This displays the speaker key assign screen.

4. Touch the voice service to assign from the displayed list. If there are more than seven available voice services one can scroll through the list by moving a finger from the bottom of the screen upwards to scroll, see *Touchscreen gestures* on page *28*.

   OR

   Touch the search magnifying glass softkey to type the name of the voice service to assign.

5. Touch the voice service name to add it.

	A voice service can be assigned to an empty speaker channel or a currently assigned speaker channel.

6. Touch a speaker channel to add a speaker key.

   OR

   Press the speaker key to the right of the speaker channel to add a speaker key.

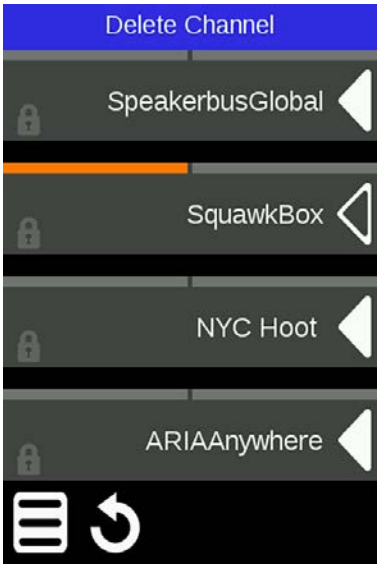
Delete Speaker Key

To delete (unassign) a speaker key:

1. Touch the **menu select** softkey located on ALTO's default screen.

2. Touch the **speaker keys** softkey. This displays the speaker keys add/delete/move/edit screen.

3. Touch '**Delete**'. This displays the delete channel screen.



4. Touch a speaker channel to delete.

   OR

   Press the speaker key to the right of the speaker channel to delete.

Move Speaker Key

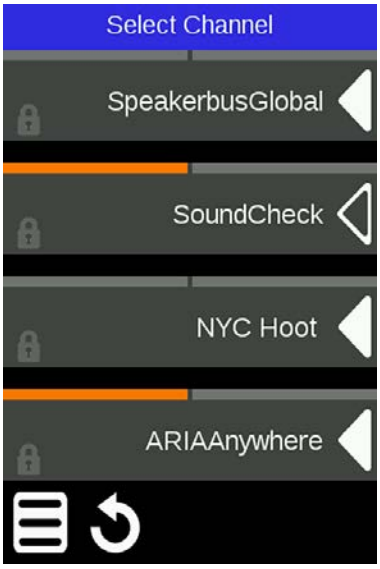
To move a speaker key:

1. Touch the **menu select** softkey  located on ALTO's default screen.

2. Touch the **speaker keys** softkey  . This displays the speaker keys add/delete/move/edit

screen.

3. Touch '**Move**'. This displays the select channel screen.



4. Touch a speaker channel to move.

   OR

   Press the speaker key to the right of the speaker channel to move.

5. Touch a destination speaker channel.

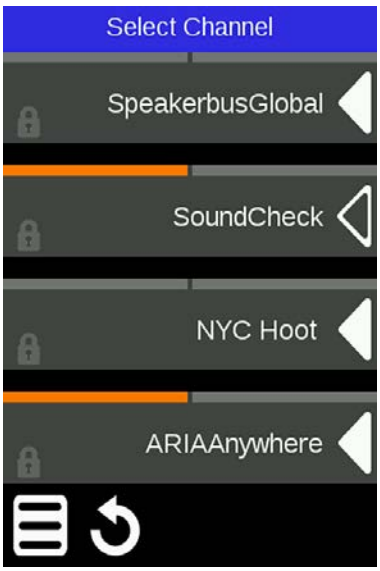
Edit Speaker Key

To edit a speaker key:

1. Touch the **menu select** softkey located on ALTO's default screen.

2. Touch the **speaker keys** softkey  . This displays the speaker keys add/delete/move/edit screen.

3. Touch '**Edit**'. This displays the select channel screen.



4. Touch a speaker channel to edit.

   OR

   Press the speaker key to the right of the speaker channel to edit.

5. In this scenario key 1 is selected but the following applies to keys 1-4.

- **Latching**. This option is used to enable/disable key latching.
- **Alert volume**. This option is used to set the ring volume alert. The available options are 0-10 where 0 is off. This option is displayed for ARDs and MRDs voice services only, not for hoots.
- **Priority**. This option is used in conjunction with ALR (Audio Level Reduction) to enable the volume of the voice service, assigned to the key, to be adjusted if a higher priority call is currently active. The available priority levels are 1, 2, 3 and 4. Priority is also used to determine the channel priority if a CB microphone is plugged into the handset port of ALTO.
- ALR. Audio Level Reduction is only available when *Priority* is set between 2-4. This option is used to set the amount of automatic volume level reduction to apply to a voice service assigned to the key when used in conjunction with *Priority*. The available levels are none, ¼, ½, ¾ and mute.

6. After making changes to these settings touch the **confirm** softkey  to return to the speaker keys screen.

User Settings

The user settings option is used to configure the user's audio settings.

To configure user settings:

1. Touch the **menu** select softkey  located on ALTO's default screen.

2. Touch the **user settings** softkey  . This displays the following options:

    - **Environment**. This option is used to adjust the level of background sound heard by the far end caller to ALTO. The options are Trader 1, Trader 2 and Office.

        - **Trader 1**. This setting removes all background sound during a call at the far end when an ALTO caller is not talking. The far end caller hears silence when the ALTO caller stops speaking.

        - **Trader 2**. This setting does not remove background sound during a call at the far end when an ALTO caller is not talking. The far end caller will hear all background noise when the ALTO caller stops talking.

        - **Office**. This setting is ideal for quiet office environments. It uses a facility called Automatic Gain Control (AGC). If an ALTO caller talks loud whilst this option is set, the sound level heard at the far end is gradually reduced by the AGC to an acceptable level. Similarly, if an ALTO caller talks quietly, the sound level heard at the far end is gradually increased to an acceptable level. In both mentioned circumstances the AGC attempts to keep the speech at a constant sound level.

    - **Audio Shock Protection**. This setting must always be turned on in order to comply with standard BS6317 for Speakerbus approved handsets/headsets. The setting is turned on by default.

    - **Handset Mode**. This option is used to configure a handset's button or a CB Mic. The options are Push to Talk, Push to Mute and CB Mic.

        - **Push to Talk**. When this option is enabled the handset button needs to be pressed and held down to open the handset voice path. The handset is also immediately placed in a mute state when this option is set.

- **Push to Mute**. When this option is enabled the handset button needs to be pressed and held down to mute the handset. The handset is also immediately placed in an un-muted state when this option is set.
- **CB Mic**. When this option is enabled the CB Microphone operates as an alternative to the internal microphone or gooseneck microphone. When the CB microphone button is pressed talking will occur on multiple channels at once with audio still coming out of the internal speaker.

- **CB Mic Mode**. This option is only available when CB Mic. is selected from *Handset Mode*. The options are: None or speaker channel 1-4.

3. After making changes to these settings touch the **confirm** softkey  .

Speaker Settings

The speaker settings option is used to configure master volume, ring on busy, latching, speaker source and quiet office.

To configure speaker settings:

1. Touch the **menu** select softkey  located on ALTO's default screen.

2. Touch the **speaker settings** softkey  . This displays the following options:

- **Master Volume**. This option is used to enable/disable ALTO's touch screen master volume slider.
- **Ring On Busy**. This option is used to enable/disable ring on busy for MRDs. When disabled ringing will be muted on the MRD channel when in use.
- **Latching Mode**. This option is used to set the default latching mode of the speaker channel talk keys to either push to talk or tap latch.
  - **Push to Latch**. This latching mode requires one to press and release the speaker channel talk key associated with the speaker channel, see *Talk on a speaker channel* on page *31*. This action changes the microphone status from mute to active. Pressing and releasing the associated speaker channel talk key again changes the microphone

status back from active to mute.

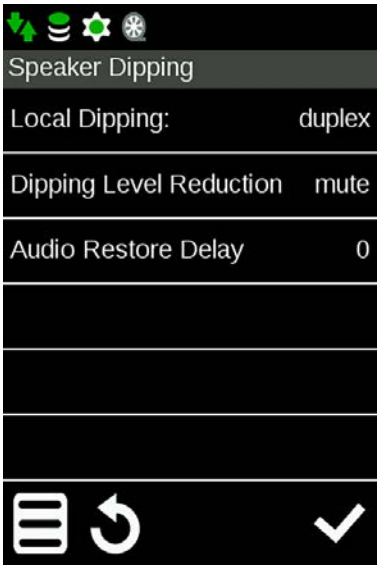
- **Tap Latch**. This latching mode has two operational functions. (1) Like push to latch, tap latch requires one to press and release the speaker channel talk key associated with the speaker channel, see *Talk on a speaker channel* on page *31*. This action changes the microphone status from mute to active. Pressing the associated speaker channel talk key again changes the microphone status back from active to mute. (2) Whilst the speaker channel is in a muted state, it is possible to press and hold the associated speaker channel talk key. This changes the microphone state from mute to active. As soon as the associated speaker channel talk key is released, the microphone's state changes back from active to mute.

- **Speaker Source**. This option is used to set the transmitting audio source for speaker channels. The options are Gooseneck Mic or Handset Mic:
  - **Microphone**. This option refers to a gooseneck/internal microphone. When it is selected audio is transmitted from the gooseneck/internal microphone.
  - **Handset**. This option refers to the handset port which is located at the back of ALTO. When its is selected audio is transmitted and received on the handset.
  - **Quiet Office**. When this option is enabled all speaker audio is sent to the handset.

3. After making changes to these settings touch the **confirm** softkey  .

Speaker Dipping

The speaker dipping option is used to dip/reduce the volume level of the speaker channels.



To configure speaker dipping:

1. Touch the **menu select** softkey  located on ALTO's default screen.

2. Touch the **speaker dipping** softkey  . This displays the following options:
   - **Local Dipping**. The options are Off, Duplex or Simplex.
     - **Duplex.** This type of dipping is used to dip the volume level of ALTO's channels in

monitor mode when another channel is set to talk mode.

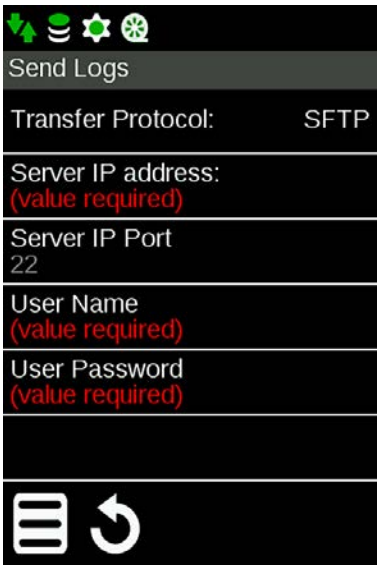
- **Simplex**. This type of dipping is used to dip the volume level of all channels regardless if their state is changed to talk.

- **Dipping Level Reduction**. This option is only available if the *Local Dipping* option is enabled. The volume dipping level options are 1/4 (-9 dB), 1/2 (-15 dB), 3/4 (-21 dB) and Mute.
- **Audio Restore Delay**. This option is only available if the *Local Dipping* option is enabled. This sets the duration (in seconds) that local dipping remains active for after the user stops talking on a speaker channel. This setting can be set from 0 - 5 seconds.

3. After making changes to these settings touch the **confirm** softkey  .

Send Logs

This is for Administrative use only. Only select this if requested by an Administrator.



To send logs:

1. Touch the **menu select** softkey  located on ALTO's default screen.

2. Touch the **speaker dipping** softkey  . This displays the following TFTP transfer options:

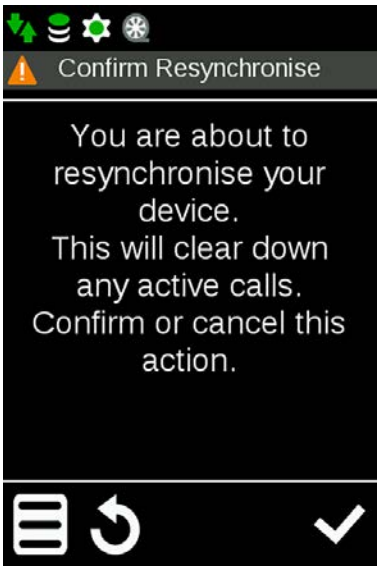
- **Transfer Protocol**. This option is used to select either TFTP (Trivial File Transfer Protocol) or SFTP (SSH File Transfer Protocol).
- **Server IP address**. This option is used to type the TFTP/SFTP server IP address.
- **Server IP Port**. This option is used to type the TFTP/SFTP server port number (the TFTP default port is 69 and the SFTP default port is 22).
- **User Name**. This option is displayed when SFTP is selected as the Transfer Portocol. It is used to type the SFTP server User Name.
- **User Password**. This option is displayed when SFTP is selected as the Transfer Portocol. It is used to type the SFTP server Password.

Touch the **confirm** softkey to send diagnostic logs.

Resynchronisation

The resynchronisation option is used when ALTO is out of sync with iCMS (iManager Centralised Management System) when the iCMS status icon is yellow, see *Status indicators* on page *20*.

	Resyncing ALTO will clear down any active calls.



To resynchronise ALTO:

1. Touch the **menu select** softkey located on ALTO's default screen.
2. Touch the **speaker dipping** softkey . This displays a message about resynchronising the device.
3. Touch the **confirm** softkey to resynchronise.

Logging Out

To log out of ALTO, see *Logging out* on page *17*.

Engineering Tools

This is for Administrative use only and is password protected. Only select this if requested by an Administrator.

To access engineering tools:

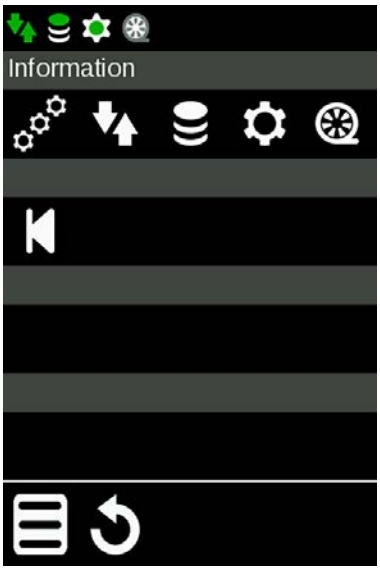
1. Touch the **menu select** softkey  located on ALTO's default screen.
2. Touch the **engineering tools** softkey  .
3. Touch the white text entry field below **Password**.
4. Enter your **password** using the alphanumeric keypad. Touch the **shift** softkey  to rotate between the lower case, upper case and numeric only keypad.

5. Once you have entered the **Password** touch the **confirm** softkey  .
6. Touch the **confirm** softkey  to enter the engineering tools menu.

Softkey	Function
	Admin Logout. Logout of Engineering Tools to prevent unauthorised access to the tools.
	Ping Test. Enables administrators or qualified engineers to conduct a Ping test from the ALTO (iD704) to confirm a particular host on the network is reachable.
	Traceroute Test. Enables administrators or qualified engineers to conduct a Trace Route test from the ALTO (iD704) to confirm the path IP packets route through the underlying network along with the associated transit delays.
	Log Settings. Consists of Network trace, Network, CMSIF, ControlTask, DspProc Log, MTFIF Log, ControlTask, DspProc Log, MTFIF Log, QtModule, UI and Watchdog details.
	Factory Defaults. Defaults (secure wipes) all settings on the unit back to factory setting.
	IP Settings. Consists of dynamic (DHCP) and static IP address, domain name, network mask, gateway address, DNS server address and localhost name.
	iCMS Server. iCMS (iManager Centralised Management System) primary and secondary address and iCMS port number.
	SNMP Settings. Enable/disable.
	802.1X. Enable/disable 802.1x authentication settings.
	Network settings. Ethernet speed mode settings, consists of auto-negotiate speed, 100Mbps full duplex, 100Mbps half duplex, 10Mbps full duplex and 10Mbps half duplex.
	Audio Tests. For Speakerbus testing purposes.
	Touchscreen Test. For Speakerbus testing purposes.

Information

The speaker settings option is used to view ALTO system information such as software version, network, iCMS, iCS, recording and speaker statuses.



To access information:

1. Touch the **menu select** softkey  located on ALTO's default screen.
2. Touch the **information** softkey  .

Softkey	Function
	Software versions.
	Network status.
	iCMS (iManager Centralised Management System) status.
	iCS (iManager Communications Server) status.
	Recording configuration.
	Speaker channel.

3. Touch the **back** softkey  to exit the information menu screen.

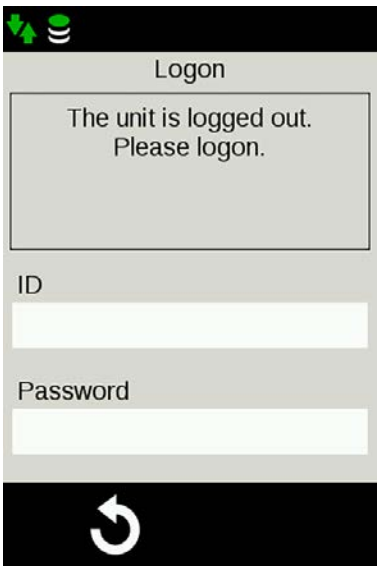
Appendix A - Safemode

- The following appendix should only be referred to when you are your organisation's administrator of ALTO.
- Modifying the following settings could cause ALTO to loose connectivity to iManager Centralised Management System (iCMS).

This appendix explains how to configure the iManager Centralised Management System (iCMS) communications server IP Address for ALTO when in hosted mode.

Out of the box ALTO is configured to auto-discover your organisation's iCMS communications server and should not be modified unless you have multiple iCMS communication servers or need to point ALTO to specific iCMS communications server(s) on your organisation's network.

Safemode also allows you to configure IP settings including dynamic (DHCP) and static IP address, domain name, network mask, gateway address, DNS server address and localhost name.



To log on to ALTO's safemode:

1. Touch the white text entry field below ID.
2. Enter the word 'safemode' into the ID text entry field using the alphanumeric keypad.

3. Once you have entered the ID touch the **confirm** key .

   A Password is not required.

4. Touch the **confirm** key to logon to safemode.

5. To exit Engineering Tools/safemode touch the back softkey .

   The following table describes each sub menu. Touch an icon to enter the sub menu, make changes and touch the confirm softkey .

Softkey	Function
	Admin Logout. Logout of Engineering Tools to prevent unauthorised access to the tools.
	Ping Test. Enables administrators or qualified engineers to conduct a Ping test from the ALTO (iD704) to confirm a particular host on the network is reachable.
	Traceroute Test. Enables administrators or qualified engineers to conduct a Trace Route test from the ALTO (iD704) to confirm the path IP packets route through the underlying network along with the associated transit delays.
	Log Settings. Consists of Network trace, Network, CMSIF, ControlTask, DspProc Log, MTFIF Log, ControlTask, DspProc Log, MTFIF Log, QtModule, UI and Watchdog details.
	Factory Defaults. Defaults (secure wipes) all settings on the unit back to factory setting.
	IP Settings. Consists of dynamic (DHCP) and static IP address, domain name, network mask, gateway address, DNS server address and localhost name.
	iCMS Server. iCMS (iManager Centralised Management System) primary and secondary address and iCMS port number.
	SNMP Settings. Enable/disable.
	802.1X. Enable/disable 802.1x authentication settings.

Softkey	Function
	Network settings. Ethernet speed mode settings, consists of auto-negotiate speed, 100Mbps full duplex, 100Mbps half duplex, 10Mbps full duplex and 10Mbps half duplex.
	Audio Tests. For Speakerbus testing purposes.
	Touchscreen Test. For Speakerbus testing purposes.

Appendix B - Embedded Web Browser

The following appendix explains how to configure ALTO when running in stand alone mode and when you are acting as the administrator of ALTO. This appendix also explains how to re-enable iCMS hosted mode, see *Network Services* on page *71*.

Speakerbus advises against accessing these settings when ALTO is managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode (indicated by an on screen iCMS Status indicator , or), see *Status indicators* on page *20*.

Modifying the following settings could disrupt any voice services currently assigned to ALTO.

ALTO runs an embedded secure web browser for configuration and diagnostic control. This ensures reasonable protection from eavesdroppers and man-in-the-middle attacks, provided that adequate cipher suites are used and that the server certificate is verified and trusted.

To access the web browser you will require either ALTO's IP address or domain name.

To retrieve ALTO's IP address:

1. Whilst logged out of the device, press the Info Key.
2. The unit information screen will be displayed.

The IP address is listed as **Unit IP Address**.

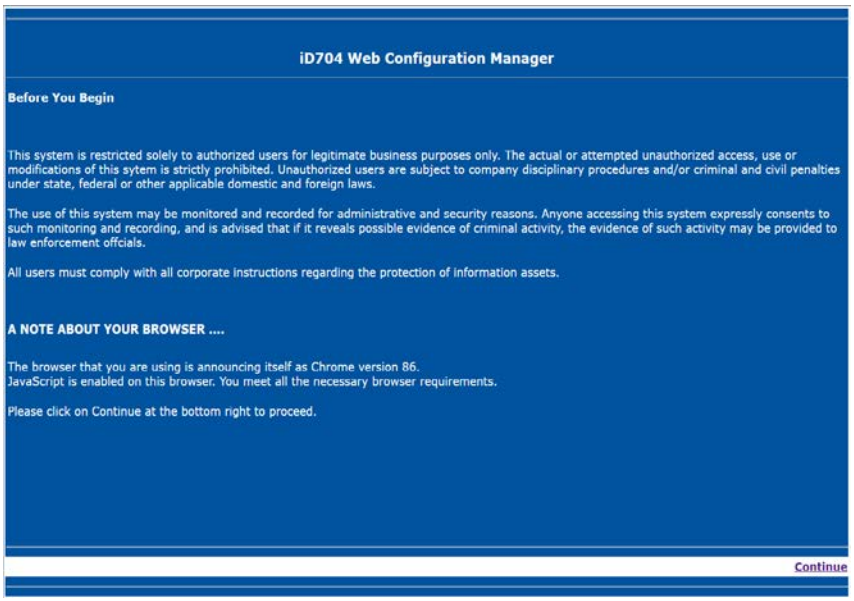
Logging in/out

Logging in

To log into the ALTO web browser:

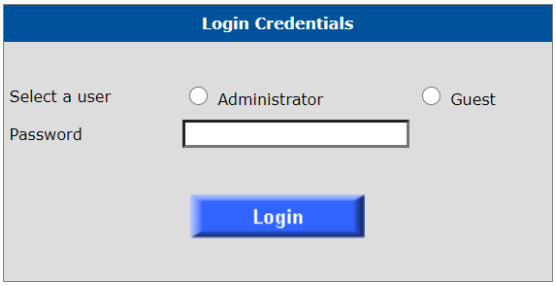
1. Type ALTO's IP address or domain name into the web browser.

   This displays an information page. The supported web browsers are: Internet Explorer, Edge, Chrome and Firefox.



2. When you have read the information, select **Continue**, which is located in the bottom right hand corner of the web page.

   This displays the Login Credentials dialog window.



There are two login options available: Administrator and Guest. Administrator gives full configuration access to ALTO, and Guest gives viewing access. Although it is possible to make changes using Guest access, it is not possible to apply the changes.

3. Select either Administrator or Guest, and type the administrator/guest password in Password, and click Login.

   The default passwords are **Admin001** for Administrator, and **Guest001** for Guest.

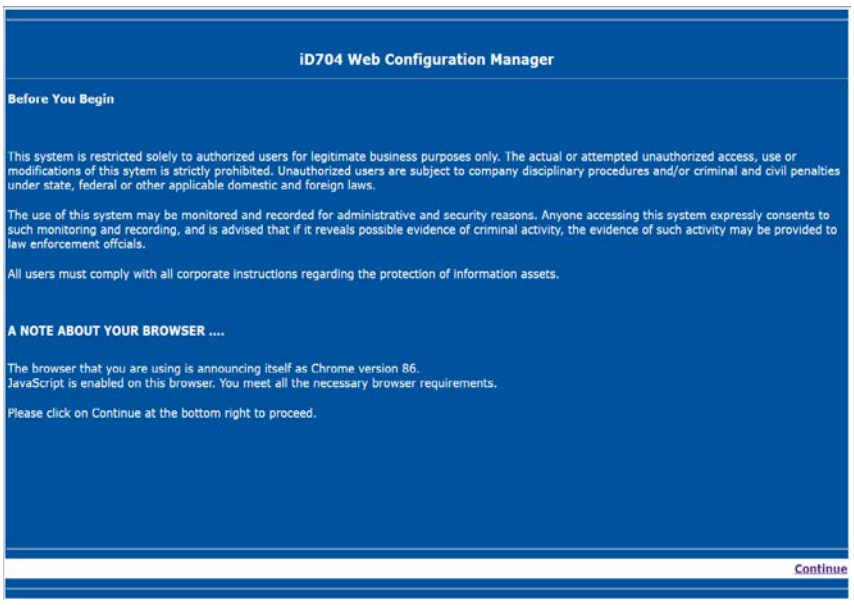
   If you have logged on successfully, the ALTO (iD704) application home page is displayed. If this is the first time you have logged on as Administrator, you will be forced to change both the Administrator and Guest passwords. For more information, see *Configure Web Password* on page *68*.

Logging Out

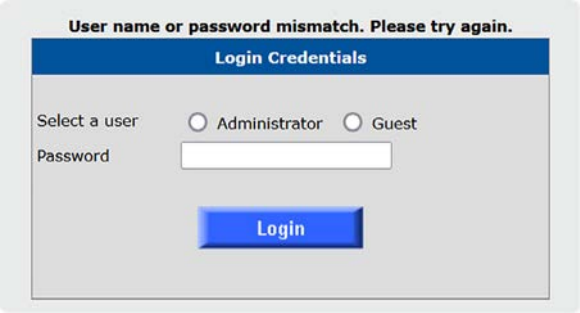
To log out from ALTO's (iD704) web browser:

1. Select the **Log Out** link.

2. You will be directed to the login screen.



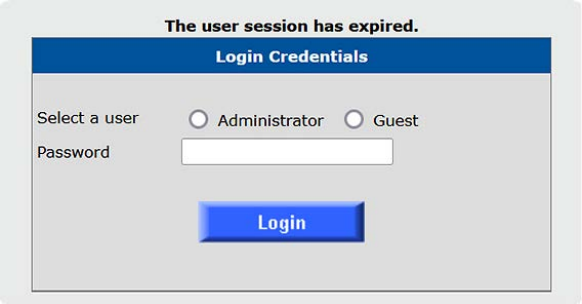
Log on denied - password invalid



Incorrect password entered. Select a user and re-enter the Password.

The user account is locked out for 15 minutes if the password is entered incorrectly 5 times.

Session timeout



After 15 minutes of inactivity, the user is logged out of ALTO's web interface. Log on again to access the web interface.

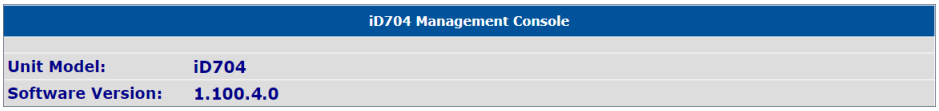
Menu

The menu consists of ten options:

- **Home**, see page *67*.
- **Users**, see page *67*.
- **Network Services**, see page *71*.
- **Voice Services**, see page *74*.
- **Key Properties**, see page *75*.
- **General Settings**, see page *76*.
- **Voice Recording**, see page *80*.
- **Status**, see page *81*.
- **Statistics**, see page *84*.
- **Maintenance**, see page *84*.

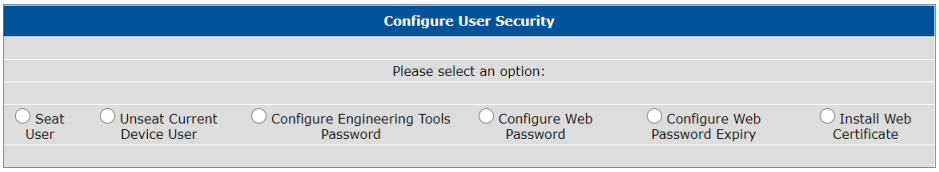
Home

This is the default landing page, once logged in, which displays ALTO's unit model (iD704) and the web browser software version.



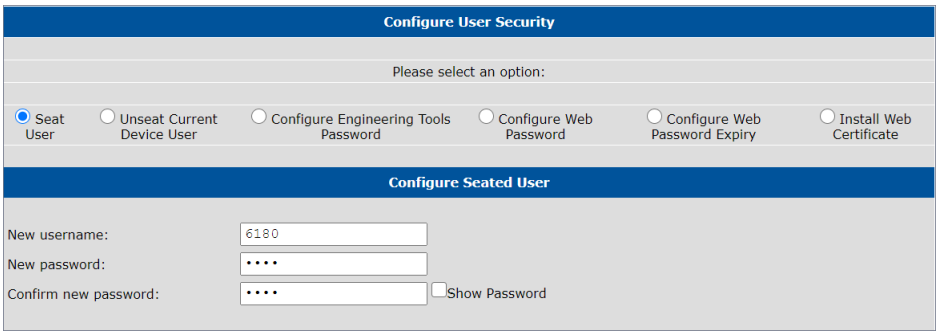
Users

This page allows you to set up or edit the various security features within the ALTO. It contains the following six options: Seat User, Unseat Current Device User, Configure Engineering Tools Password, Configure Web Password, Configure Web Password Expiry and Install Web Certificate.



Seat User

This option is used to seat a user or to edit the username and password for logging into ALTO. Username and password must be between 1 and 20 characters in length.



To seat a user:

1. Select the **Seat User** option.
2. Either use the default 6180 username or enter a new username in **New username** text box.
3. Either use the default 6180 password or enter a new password in both **New password** and **Confirm new password** text boxes.
4. Press the **Apply** button.

Unseat Current Device User

This option is used to unseat a user logged from ALTO.

To unseat a user:

1. Select the **Unseat Current Device User** option.
2. Confirm the request to unseat the user by selecting the **Unseat Current Device User** checkbox.
3. Press the **Apply** button.

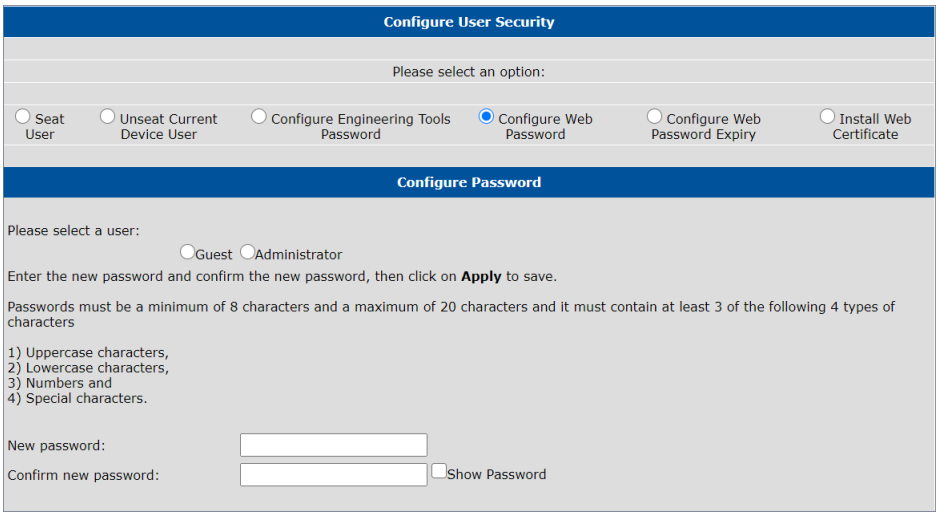
Configure Web Password

This option is used to set the password on both the Guest and Administrator accounts. The Administrator account has full configuration access to ALTO's web interface whilst the Guest account has viewing access only and cannot make changes to settings within the web interface.

The web interface is read-only if ALTO is managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode.

The default passwords are **Admin001** for **Administrator** access, and **Guest001** for **Guest**.

If this is the first time you have logged on as Administrator, you will be forced to change both the Administrator and Guest passwords.



To set a new Administrator password:

1. Select the **Configure Web Password** option.
2. Select the **Administrator** option
3. Enter a new password in both **New password** and **Confirm new password** text boxes.

4. Press the **Apply** button.

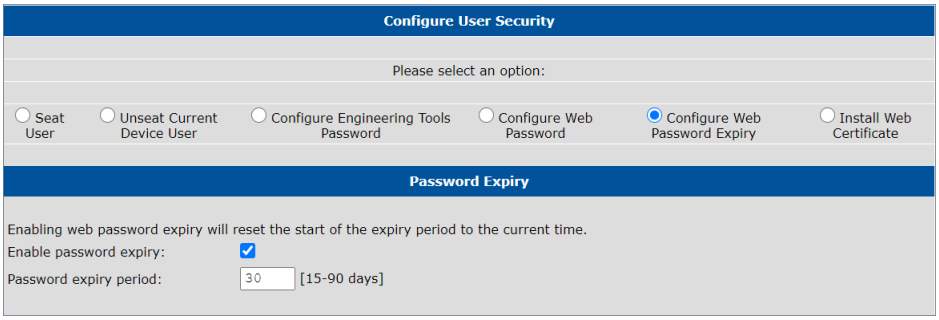
To set a new Guest password:

1. Select the **Configure Web Password** option.
2. Select the **Guest** option
3. Enter a new password in both **New password** and **Confirm new password** text boxes.
4. Press the **Apply** button.

Configure Web Password Expiry

This option is used to set the password expiry options. When the **Configure Web Password Expiry** option is selected, the Password Expiry options (**Enable password expiry** and **Password expiry period**) appear on the screen.

The default values are password expiry enabled and 30 days password expiry period.



- **Enable password expiry**. This option allows you to enable the password expiry feature. When enabled ALTO will automatically require a new password for both Guest and Administrator accounts after the password expiry period has been reached.
- **Password expiry period**. This option allows you to set the password expiry period for both administrator and guest accounts. The expiry period ranges from 15 to 90 days. The option is disabled when the Enable password expiry period option is disabled.

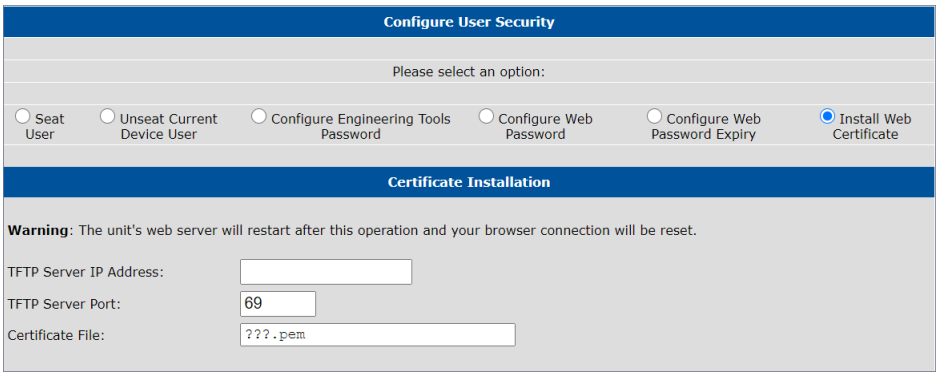
To configure web password expiry:

1. Select the **Configure Web Password Expiry** option.
2. After making changes to these settings press the **Apply** button.

The password expiry options are only available when a valid NTP server has been configured, see page *71*.

Install Web Certificate

This option is used to install security certificates. Security certificates use the Secure Socket Layer (SSL) for transmitting and accepting ALTO information, therefore making it secure.



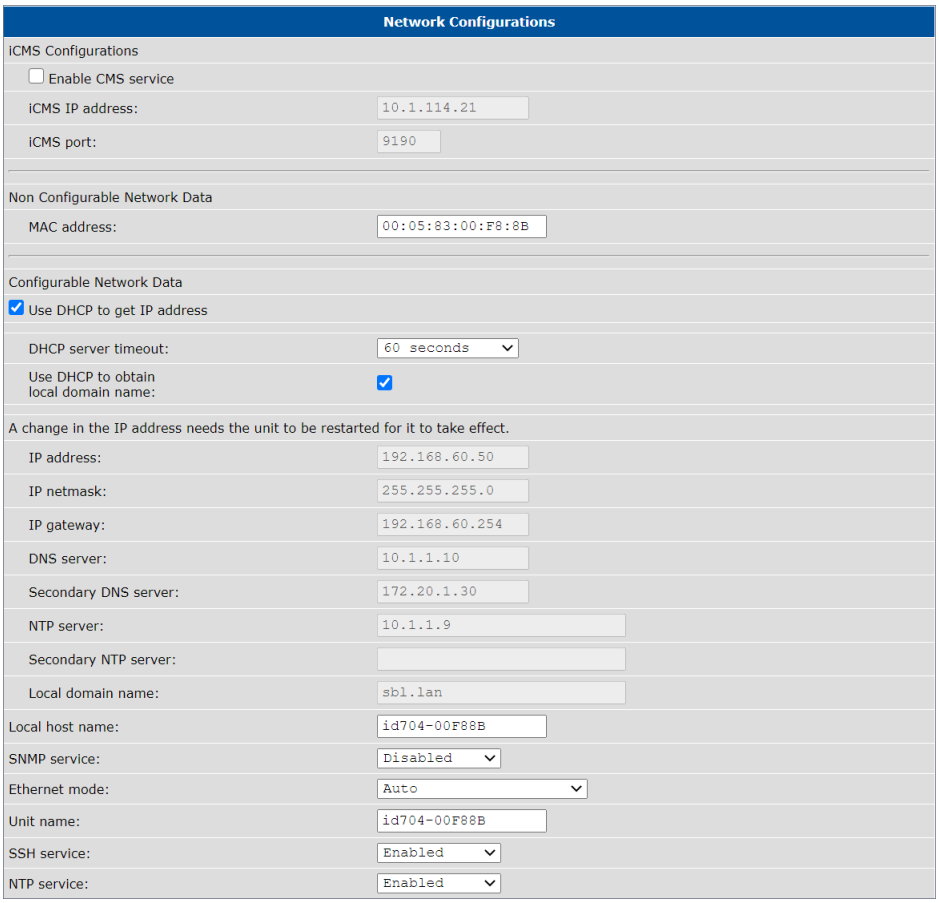
- **TFTP Server IP Address**. This option is used to type the TFTP (trivial file transfer protocol) server IP address.
- **TFTP Server Port**. This option is used to type the TFTP (trivial file transfer protocol) server port number (the default port number is 69).
- **Certificate File**. This option is used to type the actual certificate text string filename.

To install a web certificate:

1. Select the **Install Web Certificate** option.
2. After making changes to these settings press the **Apply** button.

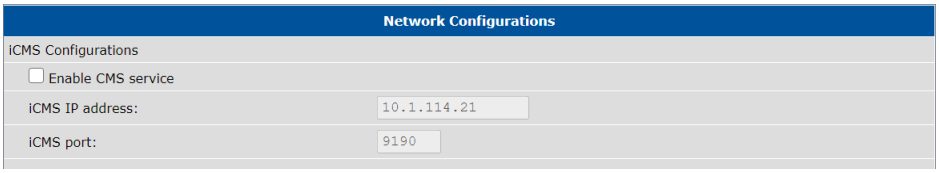
Network Services

This page allows you to configure all the network settings within ALTO.



ALTO requires a restart when the following network settings are changed: IP address, local host name and local domain name.

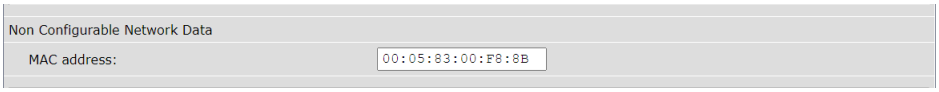
iCMS Configurations



- **Enable CMS service**. This option is used to enable ALTO to be managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode. Enabling this will disable ALTO standalone mode and the configuration of ALTO within the embedded secure web browser.
- **iCMS IP address**. This option is used to type the iCMS server IP address.
- **iCMS port**. This option is used to type the iCMS server port number (the default port number is 9190).

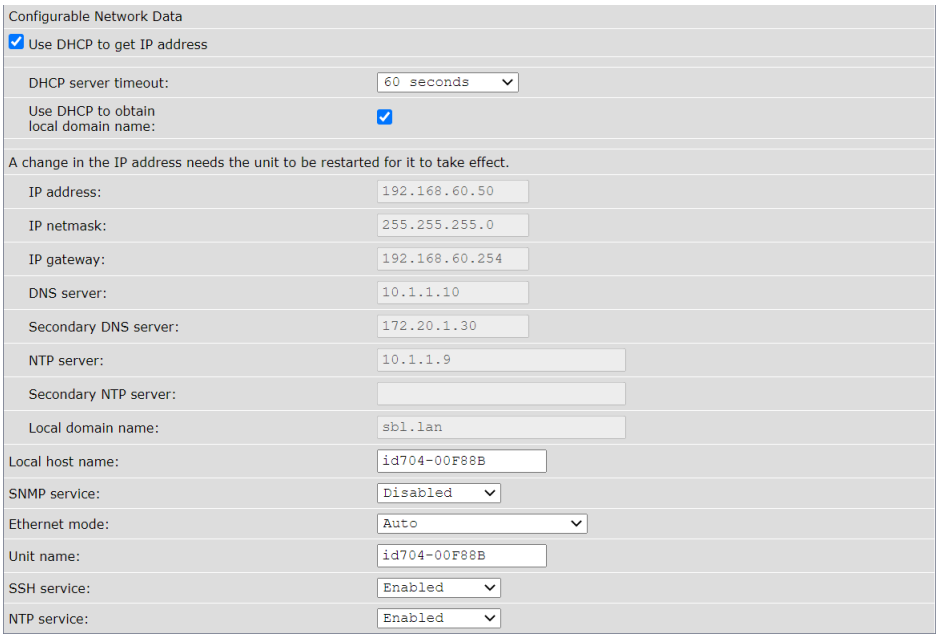
After making changes to these settings press the **Apply** button.

Non Configurable Network Data



- **MAC address**. This is ALTO's unique hardware address. This value cannot be changed.

Configurable Network Data



- **Use DHCP to get IP address**. When this option is selected, ALTO is allocated a dynamic IP address from the DHCP server. As a result the following options are automatically populated: IP address, IP netmask, IP gateway, DNS server (if one is in use), Secondary DNS Server (if one is in use), NTP Server, Secondary NTP Server (if one is in use) and Local domain name (if one is in use). If this option is not selected, the network details need to be manually configured.
- **DHCP server timeout**. This option is used to specify a time period for ALTO to timeout when it is unable to find a DHCP server when switched on. The timeout times, range from 10 – 120 seconds. It increments every ten seconds (e.g. 10, 20 30 etc.). The default is 60 seconds. After the specified timeout ALTO will attempt to use the IP address previously obtained through DHCP, if any. If this does not exist ALTO will check to see if a static IP address has been set up, and use this as a last resort.
- **Use DHCP to obtain local domain name**. When selected the domain name is retrieved from the DHCP server. If it is not selected you can enter a domain name manually using the Local domain name text box.
- **IP address**. This option is used to manually enter the primary IP address of the ALTO.
- **IP netmask**. This option is used to manually enter the netmask details.
- **IP gateway**. This option is used to manually enter the IP gateway address. This option must be set if your iCMS or iSeries devices being connected to are in different LANs.
- **DNS server**. This option is used to manually enter the IP address of the DNS server.
- **Secondary DNS Server**. This option is used to manually enter the IP address of a secondary DNS server.
- **NTP server**. This option is used to enter the NTP server address which is applied to ALTO.

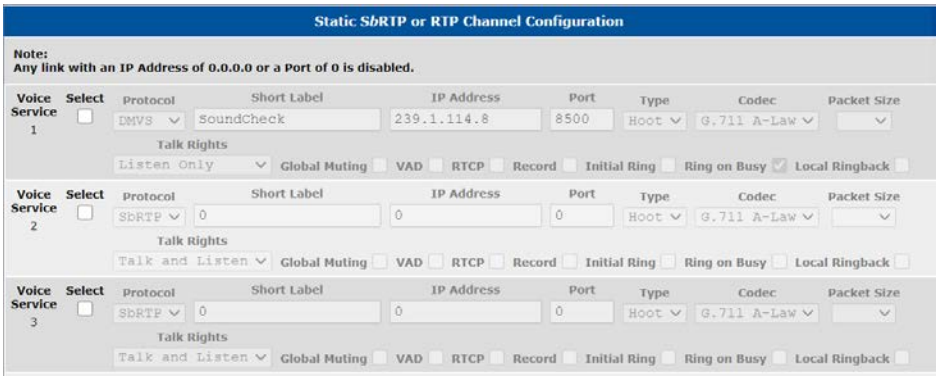
The IP address is used to synchronise ALTO's clock with the NTP server's clock. The typed IP address is used when ALTO is configured with a static IP address, (when the 'Use DHCP to get IP address' option is not selected). If the Use DHCP to get IP address option is selected the NTP server setting will not be selectable. The NTP server address may also change as its value is derived from the DHCP server. You may need to refresh the screen to visually see the NTP server's address change. Please ensure the NTP Service, which is described on the following page, is set to Enabled when using an NTP server.

- **Secondary NTP server**. This option is used to enter a secondary NTP server address which is applied to ALTO. The IP address is used to synchronise ALTO's clock with the NTP server's clock.
- **Local domain name**. This option is visible when the Use DHCP to obtain local domain name option is not selected. It is used to manually enter the domain name if one is used. It is recommended that domain names entered are less than 38 characters as names greater than 38 cannot be stored in non-volatile memory. To access ALTO's embedded secure web browser using host and domain name the following format must be used: https://hostname.domainname.
- **Local host name**. This option is used to enter a name with a maximum of eighteen characters. This is a user friendly name that ALTO can be found on a DNS enabled network. Therefore, the unit is accessible through its host name as well as its IP address. This becomes particularly important on DHCP servers where IP addresses are set to change regularly. In such circumstances ALTOs are always accessible through their host name as it does not change and is associated with its IP address.
- **SNMP service**. This option is used to enable/disable the SNMP service.
- **SNMP IP address**. This is the IP address that devices send SNMP traps to when there is no address translation on the network between the device and the SNMP management application.
- **SNMP community name**. The SNMP community name entered here needs to match what is defined in the management application. The SNMP community name configures the community name used for SNMP read access and the community string in the SNMP trap messages.
- **Ethernet mode**. It is essential that the Ethernet port setting is the same as the port setting on the far end connecting Ethernet switch. For example, if Auto is set on the far end Ethernet switch, ALTO needs to be set to Auto.
- **Unit Name**. This option is used to enter a name with alphanumeric characters to identify the ALTO. This name will be displayed on subsequent embedded secure web browser web pages to identify the unit.
- **SSH server**. This option is used to enable/disable remote secure shell access to the ALTO.
- **NTP Service**. This option needs to be set to Enabled when using an NTP server. Set it to Disabled if a NTP server is not used.

After making changes to these settings press the **Apply** button.

Voice Services

This page allows you to configure up to sixteen SbRTP/RTP/DMVS voice service channels. This page is hidden when the web interface is locked or when ALTO is managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode.



Each of the sixteen channels contain the following settings:

- **Voice Service**. This is read only and displays the Voice Service number (between 1 - 16).
- **Select**. When selected the Voice Service's settings can be edited. Multiple channels may be selected to be edited and are saved when the Apply button is clicked.
- **Protocol**. This option is used to select the type of communications protocol. The three options are SbRTP, DMVS or RTP. DMVS requires ALTO to be managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode, see *iCMS Configurations* on page *71*. DMVS is not available in ALTO standalone mode.
- **Short Label**. This setting is used to enter a user friendly label.
- **IP Address**. This setting is used to enter the channel's multicast IP address. The multicast range is 224.0.0.3 to 239.255.255.255.
- **Port**. This setting is used to enter the channel's multicast port number. The multicast range is 1024 to 65535.
- **Type**. This option is used to select the type of voice service. The three options are Hoot, ARD (Automatic Ring Down) or MRD (Manual Ring Down).
- **Codec**. This setting is used to select the type of codec when RTP is selected from the Protocol option. The five options are G.711 A LAW, G.711 U LAW, G.729 and G.722.
  - **G.711 A LAW**. This is the European standard that uses 64k bandwidth.
  - **G.711 U LAW**. This is the American standard that uses 64k bandwidth.
  - **G.729**. This is the ITU standard for Coding of speech at 8 kbit/s using Conjugate Structure Algebraic-Code-Excited Linear-Prediction (CS-ACELP). ALTO uses G.729A without VAD and G.729B if VAD is enabled.
  - **G.722**. This is an ITU standard codec that provides 7kHz wideband audio at data rates from 48, 56 and 64 kbit/s.
  - **G.723**. This is an ITU standard codec that provides 300 Hz to 3400 Hz using Adaptive Differential Pulse Code Modulation (ADPCM) to 24 and 40 kbit/s.
- **Packet Size**. This is the audio packet size of the multicast channel.

  When SbRTP is selected from the Protocol option the available options are 1, 2 and 4 ms.

When DMVS is selected from the Protocol option no options are available.

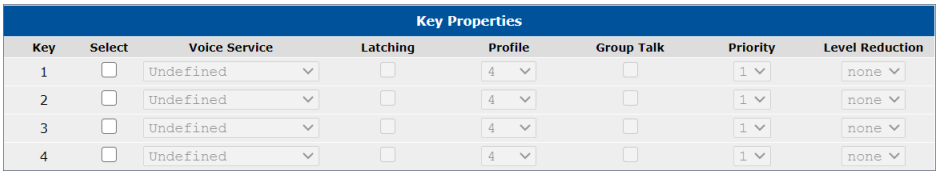
When RTP is selected from the Protocol option the available options are 10, 20, 30, 40, 50 and 60 ms.

- **Talk Rights**. This option is used to set the talk/listen rights to the channel. The three options are Talk and Listen, Talk Only and Listen Only.
- **Global Muting**. This option is used when ALTO is in iManager Centralised Management System (iCMS) mode, see *iCMS Configurations* on page *71*. It is applicable to ARD, MRD and Hoots.
- **VAD**. Voice Activity Detection (VAD) is a software application that allows a data network carrying voice traffic over the Internet to detect the absence of audio and conserve bandwidth by preventing the transmission of "silent packets" over the network. Most conversations include about 50% silence; VAD (also called "silence suppression") can be enabled to monitor signals for voice activity so that when silence is detected for a specified amount of time, the application informs the Packet Voice Protocol and prevents the encoder output from being transported across the network. Speakerbus recommends that this is enabled.
- **RTCP**. This option is used to enable/disable the Real-Time Transport Control Protocol (RTCP) which is a companion protocol used for gathering statistics on the performance of the connection. These statistics are used to dynamically adjust and optimise for current network conditions.
- **Record**. This option is used to enable/disable voice recording of the channel. In addition you must configure the IP address and port of the voice recorder you will use, see *Voice Recording* on page *80*.
- **Initial Ring**. This option is used to enable/disable the Manual Ring Down (MRD) initial ring function. When an MRD is initiating an MRD will insert ring signalling so other deskstations will automatically indicate ringing when a talk attempt is made.
- **Ring on Busy**. This option is used to enable/disable the Manual Ring Down (MRD) ring on busy function. When enabled ALTO will ring when it receives ringing signalling for an MRD call that is currently seen as busy-elsewhere.
- **Local Ringback**. This option is used to enable/disable ringback for an Automatic Ring Down (ARD) channel.

After making changes to these settings press the **Apply** button.

Key Properties

This page allows you to assign voice services to the four ALTO keys. Voice services can also be assigned using ALTO's touch screen user interface menu, see *Add Speaker Key* on page *44*. This page is hidden when the web interface is locked or when ALTO is managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode.



Each of the four key properties contain the following settings:

- **Key**. This is read only and displays the Key number.
- **Select**. When selected the Key Properties' settings can be edited. Multiple key properties may be selected to be edited and are saved when the Apply button is clicked.

- **Voice Service**. This option is used to select the voice service to apply to the key. To configure voice services, see *Voice Services* on page *74*.
- **Latching**. This option is used to enable/disable key latching.
- **Profile**. This option is used to set the alerting profile for the key. This is currently set to profile 1. Other alerting profiles will be available in a future ALTO firmware release.
- **Group Talk**. This option is used to enable/disable group talk for the voice service assigned to the key. Pressing the group talk softkey on ALTO's touch screen will activate the voice service assigned to this key for talking, see *Group Talk* on page *39*. Up to four keys can be assigned to group talk.

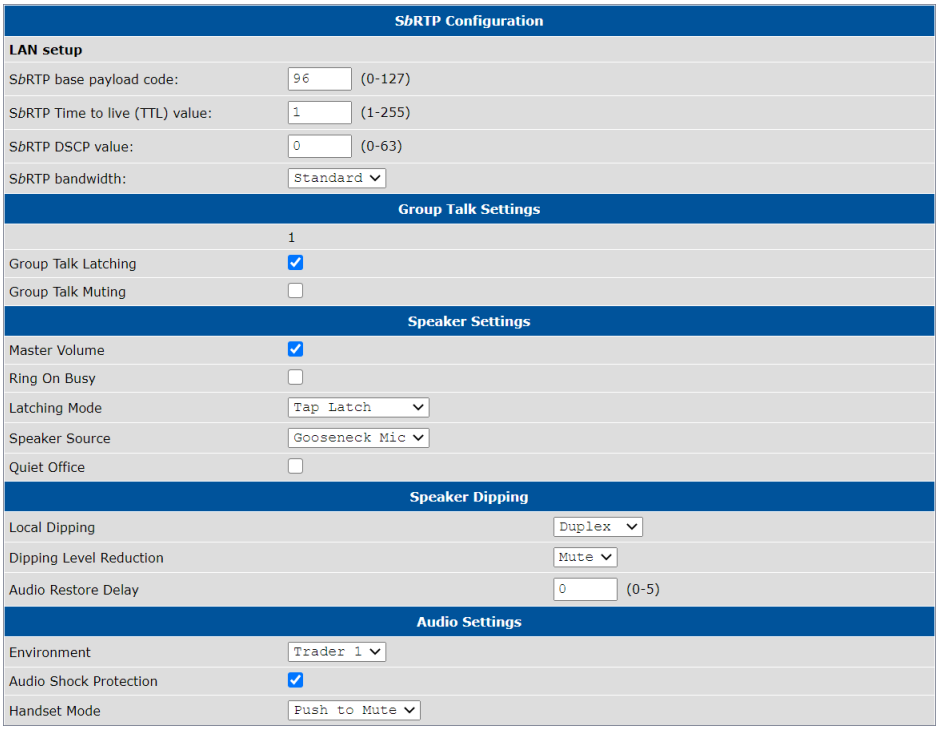
- **Pressing the group talk softkey does not answer or initiate a call; it only activates talk on an already connected channel.**
- **Permission to talk on the voice service should be set to talk/listen or talk only, see** *Voice Services* on page *74*.

- **Priority**. When **Level Reduction** is enabled for a key the volume of the voice service, assigned to the key, will be adjusted if a higher priority call is currently active. The available priority levels are 1, 2, 3 and 4. Priority is also used to determine the channel priority if a CB microphone is plugged into the handset port of ALTO.
- **Level Reduction**. This option is used to set the amount of automatic volume level reduction to apply to a voice service assigned to the key when used in conjunction with Priority. The available levels are none, ¼, ½, ¾ and mute.

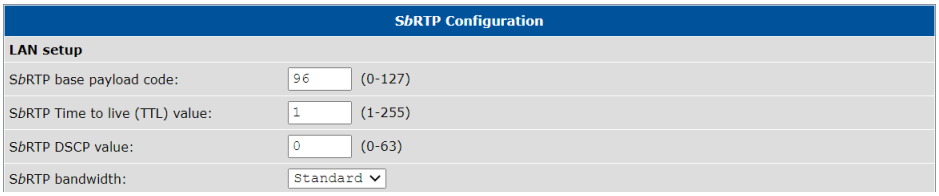
After making changes to these settings press the **Apply** button.

General Settings

This page allows you to configure SbRTP, Group Talk latching/muting, speaker settings and general audio settings. This page is hidden when the web interface is locked or when ALTO is managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode.



SbRTP Configuration - LAN setup



- **SbRTP base payload code**. This option is used to enter the multicast SbRTP code. The protocol header has a number of standards assigned to different payload codes. A propriety code, 96, is used for low latency purposes. 96 is also the default value. Normally the default code should be used unless there is a clash with other IP equipment on the same multicast network, using this same SbRTP payload code. If the SbRTP payload code needs to be changed, a value should be chosen that has not been publicly assigned to any other media type, and does not clash with any other IP equipment on your multicast network. e.g. the code 8 has been assigned to PCM A-law audio coding and hence should not be used. For more information, refer to RFC 3551 to check which codes have been publicly assigned.
- **SbRTP Time to live (TTL) value**. This option is used with multicast traffic. The value determines whether or not a packet will get past a level 3 IP switch or router. The default value is 1. This setting can be set from 1 - 255.
- **SbRTP DSCP value**. This setting can be set from 0 – 63. The value used is dependant on the IP network the device is being deployed on. Contact your network administrator for guidance. The default is 0. Setting the option to 0 means that no priority is given.
- **SbRTP bandwidth**. This option is used to set the audio coding schemes. It consists of the following options: Standard and Low.
  - **Standard**. This option provides 7khz of audio bandwidth.
  - **Low**. This option provides 3khz of audio bandwidth.

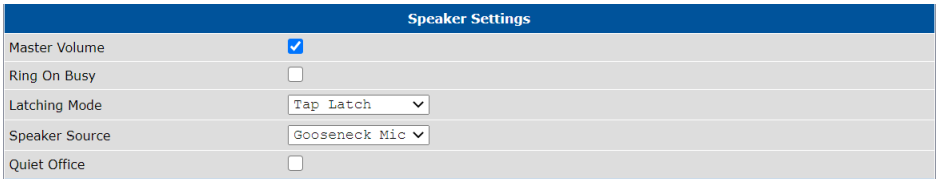
After making changes to these settings press the **Apply** button.

Group Talk Settings

- **Group Talk Latching**. This option is used to enable/disable group talk latching. If latching is set to Off the key works in a push to talk manner. If it is set to Yes the latching feature is enabled using either tap latch or push to latch, see *Speaker Settings* on page *77*.
- **Group Talk Muting**. This option is used to enable/disable group talk muting. When enabled all speakers assigned to a group talk will be muted locally on ALTO for the duration of an active group talk.

After making changes to these settings press the **Apply** button.

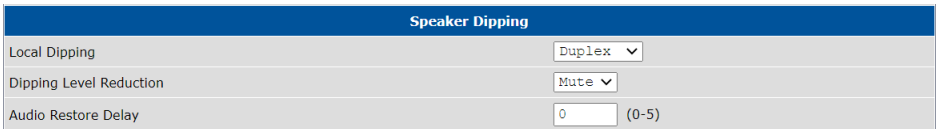
Speaker Settings



- **Master Volume**. This option is used to enable/disable ALTO's touch screen master volume slider.
- **Ring On Busy**. This option is used to enable/disable ring on busy for MRDs. When disabled ringing will be muted on the MRD channel when in use.
- **Latching Mode**. This option is used to set the default latching mode of the speaker channel talk keys to either push to talk or tap latch.
  - **Push to Latch**. This latching mode requires one to press and release the speaker channel talk key associated with the speaker channel, see *Talk on a speaker channel* on page *31*. This action changes the microphone status from mute to active. Pressing and releasing the associated speaker channel talk key again changes the microphone status back from active to mute.
  - **Tap Latch**. This latching mode has two operational functions. (1) Like push to latch, tap latch requires one to press and release the speaker channel talk key associated with the speaker channel, see *Talk on a speaker channel* on page *31*. This action changes the microphone status from mute to active. Pressing the associated speaker channel talk key again changes the microphone status back from active to mute. (2) Whilst the speaker channel is in a muted state, it is possible to press and hold the associated speaker channel talk key. This changes the microphone state from mute to active. As soon as the associated speaker channel talk key is released, the microphone's state changes back from active to mute.
- **Speaker Source**. This option is used to set the transmitting audio source for speaker channels. The options are Gooseneck Mic or Handset Mic:
  - **Gooseneck Mic**. This option refers to a gooseneck/internal microphone. When it is selected audio is transmitted from the gooseneck/internal microphone.
  - **Handset Mic**. This option refers to the handset port which is located at the back of ALTO. When its is selected audio is transmitted and received on the handset.
- **Quiet Office**. When this option is enabled all speaker audio is sent to the handset.

After making changes to these settings press the **Apply** button.

Speaker Dipping



Local Dipping. Local dipping reduces the volume level of the speaker channels. The options are Off, Duplex or Simplex.

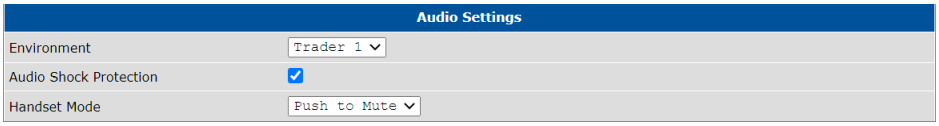
Duplex. This type of dipping is used to dip the volume level of ALTO's channels in monitor mode when another channel is set to talk mode.

Simplex. This type of dipping is used to dip the volume level of all channels regardless if their state is changed to talk.

Dipping Level Reduction. This option is only available if the Local Dipping option is enabled. The volume dipping level options are 1/4 (-9 dB), 1/2 (-15 dB), 3/4 (-21 dB) and Mute.

Audio Restore Delay. This option is only available if the Local Dipping option is enabled. This sets the duration (in seconds) that local dipping remains active for after the user stops talking on a speaker channel. This setting can be set from 0 - 5 seconds.

Audio Settings

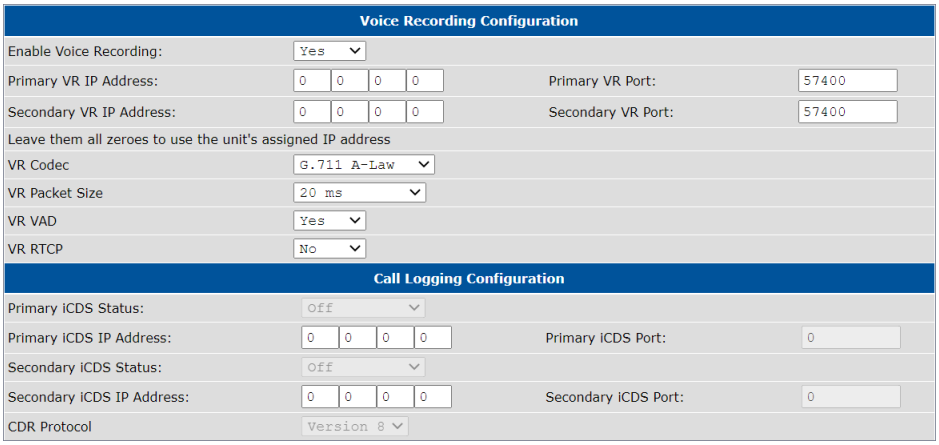


- **Environment**. This option is used to adjust the level of background sound heard by the far end caller to ALTO. The options are Trader 1, Trader 2 and Office.
  - **Trader 1**. This setting removes all background sound during a call at the far end when an ALTO caller is not talking. The far end caller hears silence when the ALTO caller stops speaking.
  - **Trader 2**. This setting does not remove background sound during a call at the far end when an ALTO caller is not talking. The far end caller will hear all background noise when the ALTO caller stops talking.
  - **Office**. This setting is ideal for quiet office environments. It uses a facility called Automatic Gain Control (AGC). If an ALTO caller talks loud whilst this option is set, the sound level heard at the far end is gradually reduced by the AGC to an acceptable level. Similarly, if an ALTO caller talks quietly, the sound level heard at the far end is gradually increased to an acceptable level. In both mentioned circumstances the AGC attempts to keep the speech at a constant sound level.
- **Audio Shock Protection**. This setting must always be turned on in order to comply with standard BS6317 for Speakerbus approved handsets/headsets. The setting is turned on by default.
- **Handset Mode**. This option is used to configure a handset's button or a CB Mic. The options are Push to Talk, Push to Mute and CB Mic.
  - **Push to Talk**. When this option is enabled the handset button needs to be pressed and held down to open the handset voice path. The handset is also immediately placed in a mute state when this option is set.
  - **Push to Mute**. When this option is enabled the handset button needs to be pressed and held down to mute the handset. The handset is also immediately placed in an un-muted state when this option is set.
  - **CB Mic**. When this option is enabled the CB Microphone operates as an alternative to the internal microphone or gooseneck microphone. When the CB microphone button is pressed talking will occur on multiple channels at once with audio still coming out of the internal speaker.
- **CB Mic Mode**. This option is displayed when CB Mic. is selected from Handset Mode. The options are: None or speaker channel 1-4.

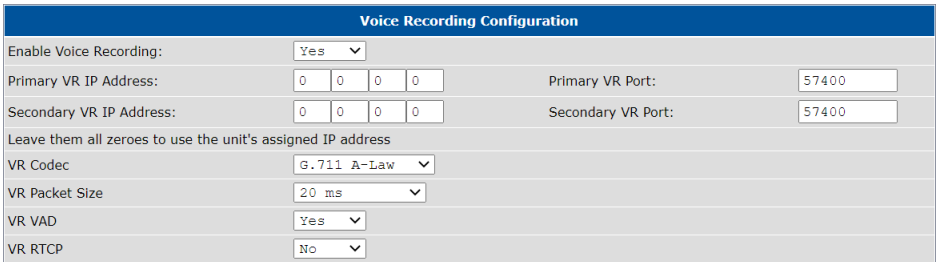
After making changes to these settings press the **Apply** button.

Voice Recording

This page allows you to configure ALTO for voice recording and call logging. In addition you must enable recording for each of the voice services that you require to be recorded, see *Voice Services* on page *74*. This page is hidden when the web interface is locked or when ALTO is managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode.



Voice Recording Configuration

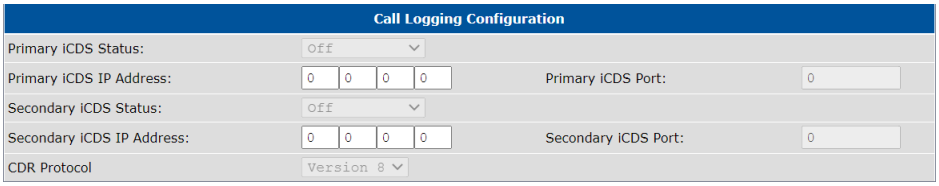


- **Enable Voice Recording**. This option is used to enable/disable voice recording.
- **Primary VR IP Address**. This option is used to type the Primary Voice Recorder server IP address.
- **Primary VR Port**. This option is used to type the Primary Voice Recorder server port number.
- **Secondary VR IP Address**. This option is used to type the Secondary Voice Recorder server IP address.
- **Secondary VR Port**. This option is used to type the Secondary Voice Recorder server port number.
- **VR Codec**. This is the type of audio encoding used for the audio sent on the recording stream. The codec options are G.711 A-Law and G.711 U-Law.
- **VR Packet Size**. This is the size of the recording stream packets. The available packet size options are: 10ms, 20ms (the default), 30ms, 40ms, 50ms and 60ms). Generally, the larger the audio packet size, the longer the end-to-end latency. However, increasing the packet size has the benefit of reducing the overall network bandwidth requirement.
- **VR VAD (Voice Activity Detection)**. When this option is enabled the bandwidth stream is reduced when no voice is active within a call.
- **VR RTCP**. This option is used to enable/disable the RTP control packets on the recording stream.

After making changes to these settings press the **Apply** button.

Call Logging Configuration

The following options are only configurable when ALTO is managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode, see *iCMS Configurations* on page *71*. iManager Call Data Server (iCDS) is middleware which handles call data records (CDR), allowing third party devices such as voice recorders or call loggers to receive the call data records. The following are for reference only and cannot be modified within ALTO's web interface.



- **Primary iCDS Status**. Displays whether ALTO is configured to use an iCDS.
- **Primary iCDS IP Address**.
- **Primary iCDS Port**.
- **Secondary iCDS Status**.
- **Secondary iCDS IP Address**.
- **Secondary iCDS Port**.
- **CDR Protocol**. Displays the Call Data Record protocol version.

After making changes to these settings press the **Apply** button.

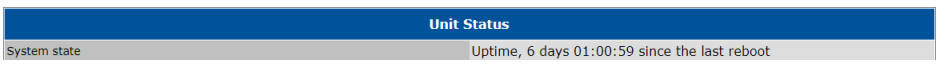
Status

This page displays the various statuses of ALTO. There are two tabs: **General** and **Links**.

The page needs to be refreshed (by pressing <F5> keyboard key) to check for changes in the status data.

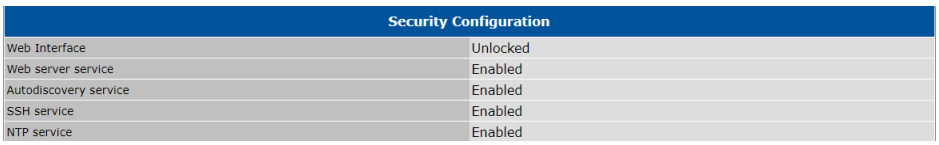
General Tab

Unit Status



- **System state**. This displays the ALTO's uptime since last reboot.

Security Configuration



- **Web Interface**. This displays whether the web interface is locked or unlocked. If the web interface is locked then ALTO is being managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode and changes cannot be made to settings within the web interface.

- **Web server service**. This displays whether ALTO's web server is enabled or disabled.
- **Autodiscovery service**. This displays whether ALTO's autodiscovery service is enabled or disabled. Autodiscovery allows for ALTO to be located on a network using the Speakerbus Autodiscovery tool.
- **SSH service**. This displays whether the SSH service is enabled or disabled. For a description or to make changes, see *Voice Services* on page *74*.
- **NTP service**. This displays whether the NTP service is enabled or disabled. For a description or to make changes to make changes, see *Voice Services* on page *74*.

Network Status

DHCP

Network Status	
Using	DHCP
DHCP status	DHCP exchange completed
DHCP server timeout	60 seconds
DHCP IP Address	192.168.60.50
DHCP netmask	255.255.255.0
DHCP gateway	192.168.60.254
DHCP Primary DNS server	10.1.1.10
DHCP Secondary DNS server	172.20.1.30
Use DHCP to obtain local domain name	Enabled

- **Using**. This displays whether ALTO is using DHCP or a Fixed IP address. For a description or to make changes to the settings below, see *Network Services* on page *71*.
- **DHCP status**.
- **DHCP server timeout**.
- **DHCP IP Address**.
- **DHCP netmask**.
- **DHCP gateway**.
- **DHCP Primary DNS server**.
- **DHCP Secondary DNS server**.

Network Status	
Using	Fixed IP
Fixed IP Address	192.168.60.50
Fixed netmask	255.255.255.0
Fixed gateway	192.168.60.254
Fixed Primary DNS server	10.1.1.10
Fixed Secondary DNS server	172.20.1.30

Using. This displays whether ALTO is using DHCP or a Fixed IP address. For a description or to make changes to the settings below, see *Network Services* on page *71*.

- **Fixed IP Address**.
- **Fixed netmask**.
- **Fixed gateway**.
- **Fixed Primary DNS server**.
- **Fixed Secondary DNS server**.

iCMS Status

iCMS Status	
CMS service	Disabled

CMS service. This displays the status of the iCMS service which will be either Enabled or Disabled. If disabled ATLO is standalone mode. If enabled ALTO is being managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode and changes cannot be made to settings within the web interface.

iCS Status

iCS Status	
SIP operation	Disabled

- **SIP operation**. This displays the status of the Speakerbus iManager Communications Server (iCS) service which will be either Enabled or Disabled. If enabled ALTO is being managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode using an iCS and changes cannot be made to settings within the web interface.

Other Status

Other Status	
GENERAL	
Handset Mode	Push-To-Mute
Handset Side Tone	Enabled
SBRTP	
Payload code	96
Time to live (TTL) value	1
DSCP value	0
Lost packet tolerance	2
Sample slip tolerance	16
Bandwidth	Standard
WAN RTP	
Time to live (TTL) value	120
DSCP value	0
Lost packet tolerance	2
Sample slip tolerance	16
RTCP Bandwidth	1200

General

- Handset Mode. This displays the handset mode which will be either Push to Talk, Push to Mute or CB Mic. For a description or to make changes, see *General Settings* on page *76*.
- Handset Side Tone. This displays the status of the Handset Side Tone which will be either Enabled or Disabled.

SbRTP

- This displays the values for SbRTP. For a description or to make changes to the settings below, see *General Settings* on page *76*.
- Payload code.
- Time to live (TTL) value.
- DSCP value
- Lost packet tolerance
- Sample slip tolerance
- Bandwidth

WAN RTP

- This displays the values for WAN RTP.
- Time to live (TTL) value
- DSCP value
- Lost packet tolerance

- Sample slip tolerance
- RTCP Bandwidth

Profile

Profile	
OVERALL	
Username	6180
User ID	6180
Location	Unknown
Local muting mode	1

- **Username**. This displays the current username used to log into/seat onto ALTO. To make changes to this, see *Seat User* on page *67*.
- **User ID**. This displays the User ID.
- **Location**. This displays the ALTO's location. When ALTO is being managed by a Speakerbus iManager Centralised Management System (iCMS) in hosted mode the location will be displayed. The location is displayed as Unknown when ALTO is in standalone mode.
- **Local muting mode**. This displays ALTO's local muting/dipping mode as a value. 0 is Off, 1 is Duplex and 2 is Simplex. To make changes to this, see *Speaker Dipping* on page *78*.

Links Tab

The Links tab displays the current status of ALTO's four speaker channels.

Links Status
Speaker Channel 1 *(Static SbRTP link)*
Not active
Speaker Channel 2 *(Static SbRTP link)*
Not active
Speaker Channel 3 *(Static SbRTP link)*
Not active
Speaker Channel 4 *(Static SbRTP link)*
Not active

Statistics

This page displays statistics of ALTO's four speaker channels.

Links Statistics
Speaker Channel 1 *(Static SbRTP link)*
Not active
Speaker Channel 2 *(Static SbRTP link)*
Not active
Speaker Channel 3 *(Static SbRTP link)*
Not active
Speaker Channel 4 *(Static SbRTP link)*
Not active

To reset statistics press the **Reset Statistics** button.

Maintenance

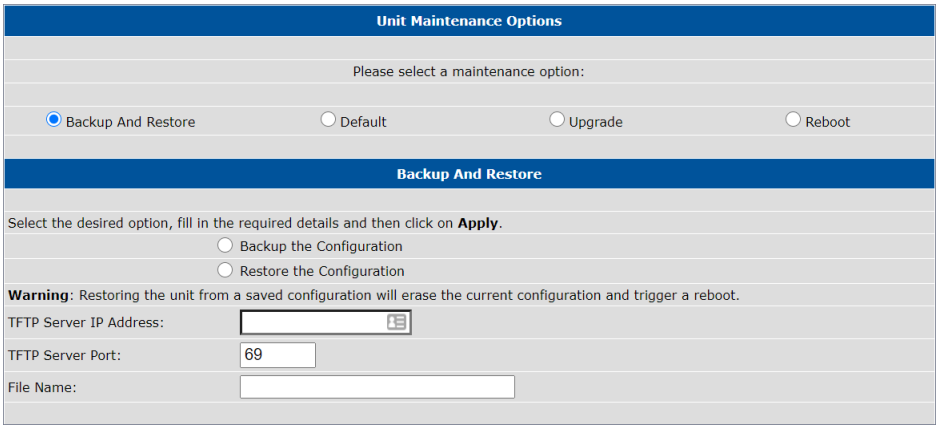
This page allows you to carry out ALTO maintenance. It contains the following four options: Backup and Restore, Default, Upgrade and Reboot.

Unit Maintenance Options			
Please select a maintenance option:			
○ Backup And Restore	○ Default	○ Upgrade	○ Reboot

Backup and Restore

This option is used to back up and save ALTO's settings (using the **Backup the Configuration**

option) which can be restored (using the Restore and Configuration option) at a later time.



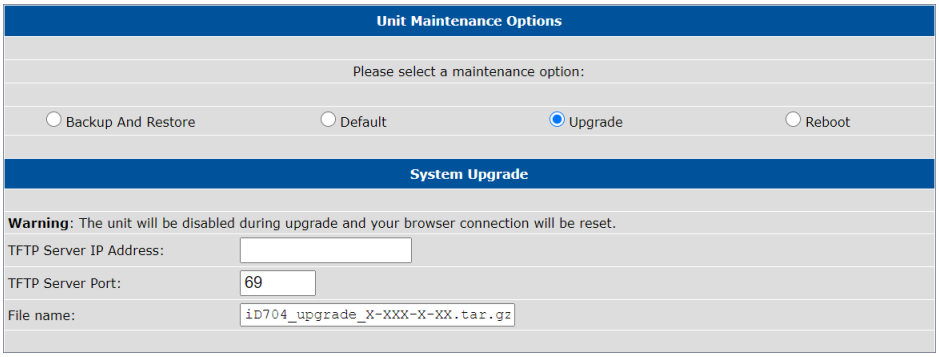
The TFTP (trivial file transfer protocol) server IP address and TFTP server port number need to typed in **TFTP Server IP Address** and **TFTP Server Port**. The actual configuration file text string needs to be typed in the File Name.

Then press the **Apply** button to start the backup/restore.

Default

This option is used to upgrade ALTO's firmware.

Speakerbus recommends backing up the configuration settings prior to performing an upgrade and restoring it afterwards. For more information, see *Backup and Restore* on page *84*.

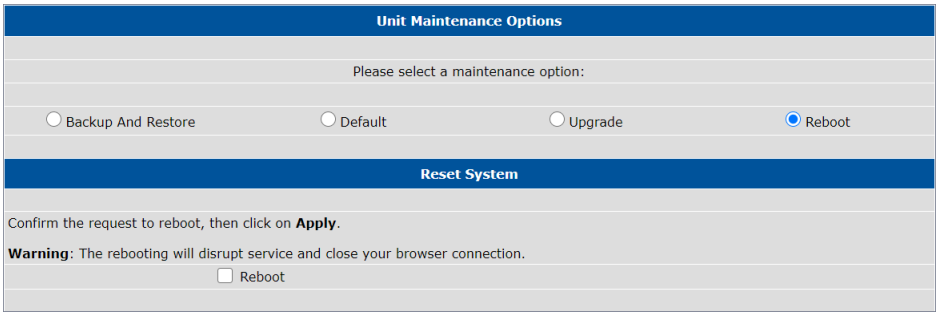


The TFTP (trivial file transfer protocol) server IP address and TFTP server port number need to typed in **TFTP Server IP Address** and **TFTP Server Port**. The actual firmware text string (also known as upgrader script name) needs to match what is defined in the upgrade instructions issued with the firmware release. It needs to be typed into the **File name** text box.

Then press the **Apply** button to start the upgrade.

Reboot

This option is used to reboot ALTO.



To reboot select the **Reboot** checkbox and press the **Apply** button.

Appendix C - Specifications

Touchscreen Display

- LCD multicolour touch screen display providing softkey and single touch gesture control.
- 480 x 320 pixels (164 PPI) 3.5 portrait

Speaker Channels

- Up to 4 simultaneous audio streams

Call Types

- Hoot 'n' Holler
- Private Line Automatic Ring Down (ARD)
- Private Line Manual Ring Down (MRD)

Recording

- Single IP recording stream
- Single Resiliency IP recording stream
- Call Data Records (CDR) output

VoIP Media

- SIP (using standards-based RFC's)
- DMVS
- RTP supported codecs:
  - G.711 A-law/μ-law
  - G.722
  - G.729
  - G.723
- SbRTP

System Management

- iManager CMS
- Web interface (lockable)
- SNMP status monitoring

Interfaces

- Single network interface 10/100BASE-T Ethernet auto sensing with PoE (RJ45 Socket)
- Handset interface port (RJ12 Socket)

Input / Output Devices

- Standard:
  - 480 x 320 pixels (164 PPI) 3.5 in portrait LCD colour touchscreen
  - 2 Dedicated function keys
  - 4 Channel keys
  - Built-in open microphone
  - Built-in loudspeaker
- Optional:
  - Speakerbus pluggable gooseneck microphone with LED (52-09-034). Close talking, noise cancelling. Dimensions: 550 x 8.5mm (21.6 x 0.33 in)
  - Speakerbus free standing gooseneck microphone with LED (52-09-040). Close Talking, noise cancelling. Dimensions: Base & gooseneck assembled: 503 x 120mm (19.8 x 4.7 in)
  - Speakerbus handset, noise cancelling (SE HSETM-D)
  - Third party handset / headset Support

Voice Characteristics

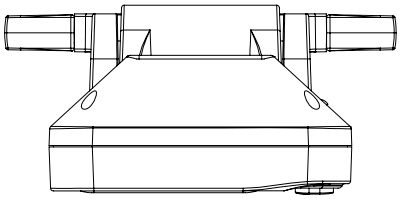
- Voice Frequency Range 50Hz - 7KHz
- Loudspeaker Output 2W RMS

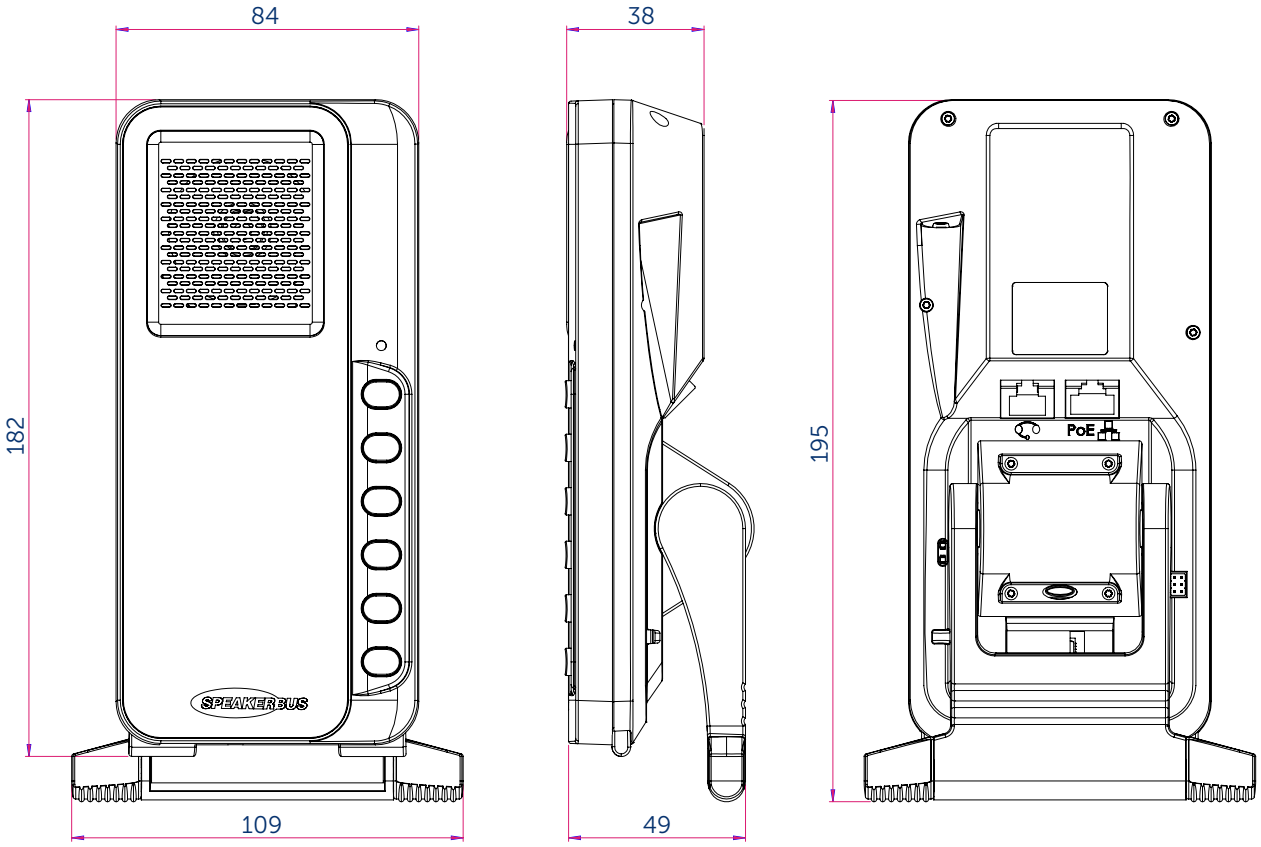
Housing

- Plastic FR ABS
- Stainless Steel Base Plate

Dimensions / Weight

- Width: 84mm (3.3 in)
- Stand Width: 109mm (4.3 in)
- Height: 182mm (7.17 in)
- Depth: 38mm (1.5 in)
- Stand Depth: 49mm (1.92 in)
- Weight: 400g (0.88 lb)





Power Requirements

- PoE Class II IEEE 802.3at
- Maximum: 12.95 watts
- Local PSU option if required with multi span adaptor, Speakerbus Sales Code: iD POE

Environmental

- Operating temperature 0°C – 35°C (32°F- 95°F)
- Relative humidity 10% - 95% RH, non-condensing
- Storage environment Temperature 0°C – 60°C (32°F - 140°F), Humidity 10% – 85% RH

Declaration of Conformity

- IEC62368-1 (Safety), EN55032 (EMC Emissions) and EN55035 (EMC Immunity)

Speakerbus

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Registered in England No: 4415859