v-VSCS User Guide

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What is real world VSCS?

VSCS is...

- Voice Switching and Control System
- Explicitly used in the enroute (center) environment
- Used for managing radio transmitters/receivers
- Used for coordination in cases of INTRAfacility and INTRAfacility settings
 - INTRAfacility The SAME facility
 - INTERfacility Two DIFFERENT facilities
 - A ZTL (center) controller calling another
 ZTL (center) controller will use an
 INTRAfacility method of coordination
 - A ZTL (center) controller calling CLT approach will use an INTERfacility method of coordination

What is vVSCS?

A limitation to v-VSCS is...

- In order to coordinate with the enroute environment, a terminal controller must use VSCS. This is unrealistic because, in real life, terminal controllers use a different program for coordination.
- It is a standalone program
 - v-VSCS does not have the ability to automatically reroute CRC audio to/from speakers/headphones
 - v-VSCS does not have the ability to display
 CRC transceiver information on the A/G pages
 - v-VSCS does not have the ability to temporarily un-TX your frequency in order to use your CRC PTT as a coordination PTT. Because of this, a separate PTT key bind that differs from the CRC key bind needs to be assigned

<u>Defining the Forms of Coordination</u>

There are two main forms of coordination:

Overrides and Shoutlines

<u>Overrides</u>

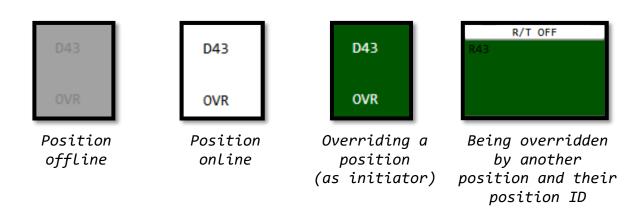
Are used for INTRAfacility coordination i.e. $ZTL \rightarrow ZTL$

- Overrides most of the time, if not always, are routed through the headphones of the initiator and receiving controller
 - The "receiving" controller is the one whom coordination is being started from the "initiating" controller
- The initiating controller can hear the controller speaking AND the pilots* on the receiving controller's frequency.
 - o The receiving controller's mic is "hot" (active without using PTT). The receiver does not have to use the PTT**
 - The initiator must use the PTT in order to communicate with the receiver
- Only the initiating controller can end the override by either:
 - O Clicking on the line to close it or
 - O Clicking the RLS button on the bottom right

^{*}this feature is not yet implemented

^{**}this feature is toggleable in the A/G 1 page. See "Setup" section

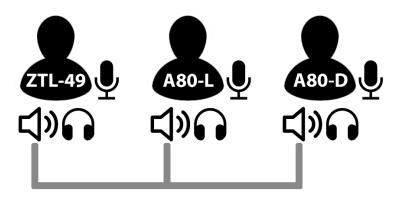
• Here are what the overrides look like in v-VSCS



<u>Shoutlines</u>

Are used for INTERfacility coordination i.e. ZTL → CLT TRACON

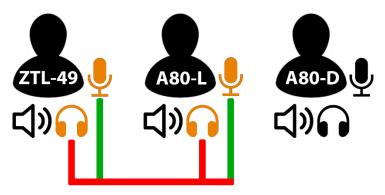
• At all times, every user is listening to a line



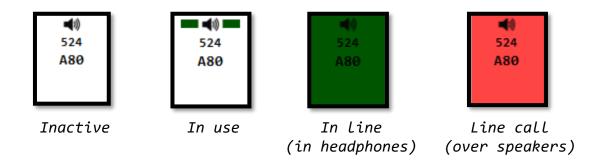
- The INITATING controller makes a call on the line that can be heard by every user that has that line enabled. Note that PTT must be used.
 - If another ZTL user was on this line, they would NOT hear ZTL-49 over the speakers since they are both in the same facility



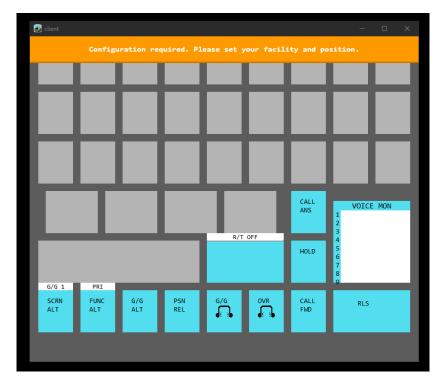
 Once another user joins the line, then all coordination is routed through the headphones.
 Again, PTT must must used.



- Even if a line is in use, it can still be joined
- To close the shout line, all users must leave it by either:
 - o Clicking on the line to close it or
 - O Clicking the RLS button on the bottom right
- Here are what the shoutlines look like in v-VSCS



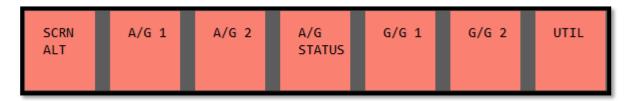
Setup



Press



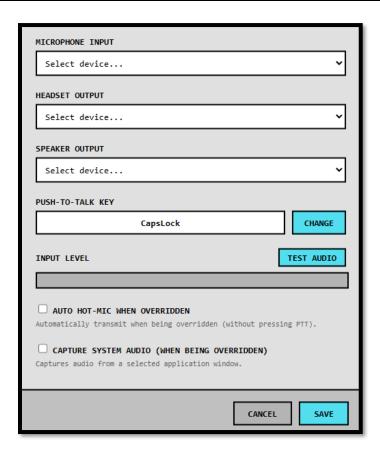
to open:



- A/G 1* Audio device and PTT setup
- A/G 2* Position and coordination setup

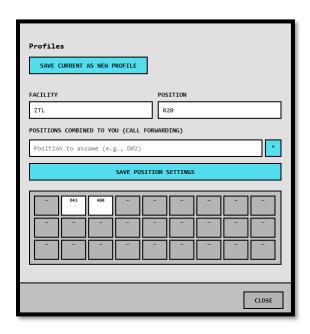
*these buttons are placeholders; this is not how they perform in real world use

Audio Device Setup (A/G 1)

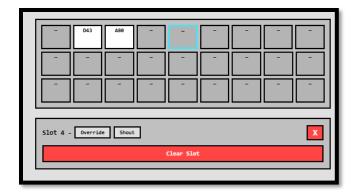


- Select your microphone, headset, and speaker
 - If you do not have a speaker, set "speaker" as your headset
- Select a PTT key
 - Make sure you do not have TeamSpeak as the active window when coordinating with PTT
 - Do not set this PTT to be the same as your CRC PTT
- Input level may not work sometimes; Known bug
- Select auto hot-mic if you desire your mic to be active without needing to use PTT
 - Being overridden is the ONLY time you DO NOT have to use your PTT if you have this setting enabled

Position and Coordination Setup (A/G 2)



- Facility (usually) three letter ID that you are controlling
 - Can be numbers and/or letters
- Specific position you are controlling
 - Can be numbers and/or letters
- You may chose which positions you also are controlling for override call forwarding
 - For example, R-side (R20) assumes D-side (D20)
- Make sure to press "Save Position Settings" after editing Facility, Position, and/or Call Forwarding



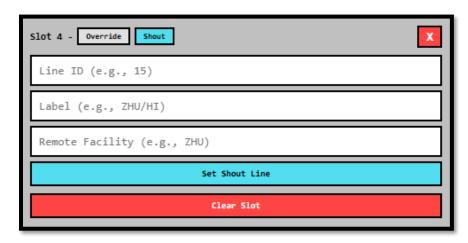
 Click on an empty slot and choose "Override" or "Shout"

For Override:



- Remember overrides are only for INTRAfacility coordination
- Input a position in the same facility to override
- Click "Set Override"

For Shoutline:



- Remember that Shoutlines are only for INTERfacility coordination
- Line ID Must the same number that the other facility is using
- Label Custom to you; Label it to your desire
- Remote Facility The other facility you are setting up the line to coordinate with. This has to be the same facility that the other controller(s) set in the previous steps
- Please note that there should only be two facilities on a line. But yes, there can be multiple controllers sharing that line

Bug Reports/Feedback/Feature Requests

We appreciate your support, and you can help us out even more by clicking this link