BSS: Soundweb London

This module can control basically every stateVariable of every object in a Soundweb London program by means of the SETSVPERCENT command.

GENERAL INFORMATION

SIMPLWINDOWS NAME:	BSS Soundweb London Generic Percent v4.2
CATEGORY:	Mixer
VERSION:	V4.2
SUMMARY:	This module can control basically every stateVariable of every object in a Soundweb London program by means of the SETSVPERCENT command.
GENERAL NOTES:	Each object in a Soundweb London program is given an object number. You have to specify the object id of the object that is to be controlled. (objectID serial input) Then you have to specify the stateVariable that is to be controlled. (stateVariable analog input) All this information should be derived from the Soundweb London integrator. After that, you can change the value of this stateVariable (value analog input). When "value" is set to 0d, the stateVariable will be set to 0%. When "value" is set to 65535d, the stateVariable will be set to 100%. In other words 0 = 0% and 65535d = 100%. The TX and RX of this module should be connected to a "BSS Soundweb London Node v4.2.usp" module. When you subscribe to a State-Variable, the Soundweb London will send an unsolicited updates automatically whenever that state-variable is changed in order to keep the Crestron system in sync with the London without requiring extra effort from the programmer to set up 'polling', or requiring the Crestron processor to constantly check for updates. The first time the subscribe message is sent the Soundweb London will respond with its current state much like a 'GET' statement. The Soundweb London will keep sending updates until a 'UNSUBSCRIBE' input is pulsed. Normal practice would be to tie the Subscribe input to the TCP/IP connection feedback so that if a socket is dropped it will automatically sync when the socket is re-established. If using RS232, putting a 1 on the subscribe input will ensure true-feedback. NOTE: The subscribe and un-subscribe signals must be mutually exclusive as transitions from low-to-high while the other signal is already high is not allowed. If this error state is encountered, an error message will be sent to the console.
CRESTRON HARDWARE REQUIRED:	X-series or preferable 2-series
SETUP OF CRESTRON HARDWARE:	The demo program was created on a CP2E with TPS-4000 The Soundweb London is to be connected on a com port with a standard crossed cable and the following settings: 115200, 8, 1, N Or to use TCP/IP: Port 1023
VENDOR FIRMWARE:	3.06
VENDOR SETUP:	Soundweb London Blu-160

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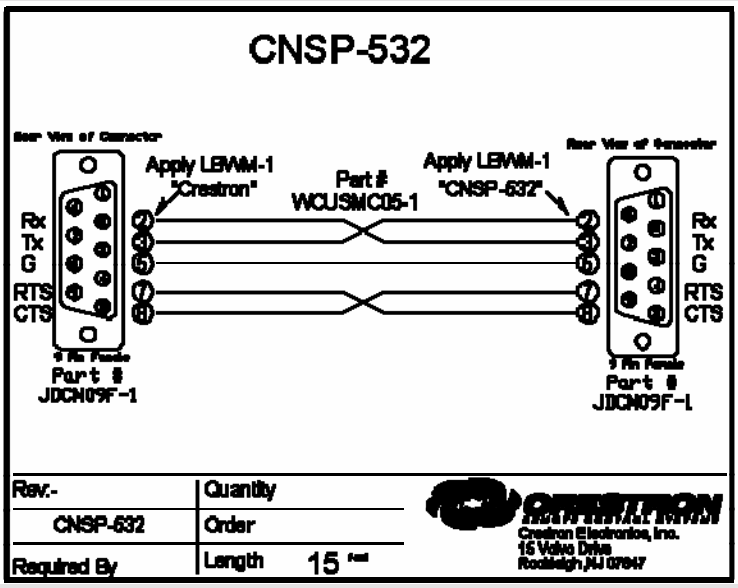
CABLE DIAGRAM:



CONTROL:

value	A	set the stateVariable's value
objectID	S	set the object to control (for example "\x00\x01\x01")
stateVariable	A	set the stateVariable to control (for example 1d)
subscribe	D	subscribe to the state variable of the object
unsubscribe	D	unsubscribe to the state variable of the object
rx	S	connected to the "modulesRx" of the correct "BSS Soundweb London Node v4.2.usp" module

FEEDBACK:

value_fb	A	value feedback
tx	S	connected to the “modulesTx“ of the correct “BSS Soundweb London Node v4.2.usp“ module

TESTING:

OPS USED FOR TESTING:	4.003.0015
COMPILER USED FOR TESTING:	2.12.44
SAMPLE PROGRAM:	BSS Soundweb London v4.2 Demo Program
REVISION HISTORY:	V1.0 Creation V3 – BSS made changes to a number of modules. V4.0 – Changed the RX$ input on the Simpl+ modules to from a STRING_INPUT to a BUFFER_INPUT. Changed the room combine module so it requests the current value when it is done making changes. V4.1 – Changed subscribing to two input signals one for subscribing and one for unsubscribing. Changed the module from an .usp file and an .umc file to just an .usp file. V4.2 – fixed rounding error, and updated help file.

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