



Model: BLU Series



GENERAL INFORMAT	ION
SIMPLWINDOWS NAME:	BSS BLU State Control Module v1.4
CATEGORY:	DSP
VERSION:	v1.4
SUMMARY:	This module controls the states on BSS BLU Series audio processors.
	This module is a control module for a suite of modules. The suite of modules utilizes the SIMPL# technology and will only work on the 3-Series Controller.
GENERAL NOTES:	The control modules are responsible for providing the actual control interface in SIMPL. With the SIMPL# technology, the Control modules no longer need to be physically "connected" to the command processor. They register themselves automatically behind the scenes. Each of the control modules also have a command processor ID parameter that you assign to the instance of the command processor to which they report to. You can virtually have an unlimited number of control modules report to a single instance of a command processor.
	The command processor must be initialized in order for this module to operate properly. Please see the BSS BLU Command Processor and BSS BLU RS232 Command Processor modules help files.
	This control module can control a bunch of different types of DSP control points. Assigning what type is controlled is handled by the "ControlType" module parameter field. Here is the list of Control Types.
	Analog: Input [A] Mute AEC: Input [A] Dry Mute Mixer: Input [A] Mute Mixer: Input [A] Solo Mixer: Input [A] Group [B] Mixer: Master Mute L Mixer: Master Mute R Gain: Mute Gain N-Input: Mute [A] MatrixMixer: XPoint Input [A] to Output [B] MatrixRouter: XPoint Input [A] to Output [B] RoomCombiner: Source Mute Room [A] Room Combiner: BGM Mute Room [A] Room Combiner: Master Mute Room [A] Room Combiner: Partition [A] Analog Dialer: TX Mute Analog Dialer: RX Mute VoIP Dialer: Line [A] TX Mute
	You will notice in the list above, that some of the items have "[A]" and some also have "[B]" in the description fields. This is an indication that additionally the [A] and [B] module parameters need to be set to make that selection work.
	Utilizing these values saves you from hunting down even more data from the Audio Architect DSP Program. These values become obvious when you understand that they are based on what Input, Output, Line Number that you are controlling.





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Device Type: Digital Signal Processor



GENERAL INFORMATION (continued)

In example: "Matrix Mixer: XPoint Output [A] Input [B]" Selection The [A] Value is what Output you wish to control, whereas the [B] Value is what input you wish to control. So if you want to control Output 10 and Input 3 cross point. Your [A] Value is 10d and your [B] Value is 3d.

If the description of your selection does not contain [A] or [B], then the [A] and [B] parameters should be set to 0d. If only [A] exists in your description then the [B] value would be 0d and the [A] parameter value would be set to Input, Output or Line you wish to control.

GENERAL NOTES (continued):

Control Type	[A]	[B]
Analog: Input [A] Mute	>= 1d (Input)	0d
AEC: Input [A] AEC Mute	>= 1d (Input)	0d
AEC: Input [A] Dry Mute	>= 1d (Input)	0d
Mixer: Input [A] Mute	>= 1d (Input)	0d
Mixer: Input [A] Solo	>= 1d (Input)	0d
Mixer: Input [A] Group [B]	>= 1d (Input)	1d to 4d (Group)
Mixer: Master Mute L	0d	0d
Mixer: Master Mute R	0d	0d
Gain: Mute	Of	0d
Gain N-Input: Mute [A]	>= 1d (Input)	0d
MatrixMixer: XPoint Output [A] to Input [B]	>= 1d (Output)	>= 1d (Input)
MatrixRouter: XPoint Output [A] to Input [B]	>= 1d (Output)	>= 1d (Input)
RoomCombiner: Source Mute Room [A]	>= 1d (Room)	0d
Room Combiner: BGM Mute Room [A]	>= 1d (Room)	0d
Room Combiner: Master Mute Room [A]	>= 1d (Room)	0d
Room Combiner: Partition [A]	>= 1d (Partition)	0d
Analog Dialer: TX Mute	0d	0d
Analog Dialer: RX Mute	0d	0d
VoIP Dialer: Line [A] TX Mute	>= 1d (Line)	0d
VoIP Dialer: Line [A] RX Mute	>= 1d (Line)	0d

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3-Series & 4-Series processors only

SETUP OF CRESTRON HARDWARE:

This module requires the BSS BLU Command Processor IP v1.4 or the BSS BLU Command Processor RS232 v1.4 modules in order to operate. Please read the help files associated with these modules.

VENDOR FIRMWARE:

This module was tested using BSS BLU Firmware Version: 86.04.2





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PARAMETERS:		
CommandProcessorID	A	Set this value to match the value set on Command Processor module. This is how the control module registers itself for control.
		Set this value to match the Object ID found in the BSS Audio Architect for the DSF object you wish to control. <i>This is a three byte hexadecimal value</i> . You can find this Object ID by looking in the BSS Audio Architect software with the DSP program file opened. In the venue explorer will be list of DSP controls under the associated Node, in this example "Gain". You will see the address in square brackets with three values separated by commas "[0,1,1]". This is the Object ID, and the correct way to assign this in the module parameter field would be \x00\x01\x01.
ObjectID	S	▼ Gain ▼ [P3 [0.1.1] ○ Gain [0x0] ○ Mute [0x1] ○ Polarity [0x2] ○ Bump Up [0x3] ○ Bump Down [0x4] ○ Naming Override [0x7] ○ Signal Name [0xD6D8]
ControlType	A	This control module can control a bunch of different types of DSP control points. Assigning what type is controlled is handled by the "ControlType" module parameter field. Here is the list of Control Types. Analog: Input [A] Mute AEC: Input [A] AEC Mute AEC: Input [A] Dry Mute Mixer: Input [A] Typ Mute Mixer: Input [A] Mute Mixer: Input [A] Group [B] Mixer: Master Mute L Mixer: Master Mute R Gain: Mute Gain N-Input: Mute [A] MatrixMixer: XPoint Input [A] to Output [B] MatrixRouter: XPoint Input [A] to Output [B] RoomCombiner: Source Mute Room [A] Room Combiner: BGM Mute Room [A] Room Combiner: Partition [A] Analog Dialer: TX Mute Analog Dialer: Line [A] TX Mute VoIP Dialer: Line [A] TX Mute You will notice in the list above, that some of the items have "[A]" and some also have "[B]" in the description fields. This is an indication that additionally the [A] and [B] module parameters need to be set to make that selection





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PARAMETERS (continu	ied):			
		Utilizing these values saves you from h Audio Architect DSP Program. These valunderstand that they are based on what you are controlling. In example: "Matrix Mixer: XPoint Outpour Wish what input you wish to control. So if you Input 3 cross point. Your [A] Value is 1 If the description of your selection does	election the [B] Value is butput 10 and lue is 3d.	
		and [B] parameters should be set to 0c then the [B] value would be 0d and the Input, Output or Line you wish to contr	•	
		Control Type	[A]	[B]
		Analog: Input [A] Mute	>= 1d (Input)	0d
		AEC: Input [A] AEC Mute	>= 1d (Input)	0d
		AEC: Input [A] Dry Mute	>= 1d (Input)	0d
		Mixer: Input [A] Mute	>= 1d (Input)	0d
		Mixer: Input [A] Solo	>= 1d (Input)	0d
ControlType (continued)		Mixer: Input [A] Group [B]	>= 1d (Input)	1d to 4d (Group)
		Mixer: Master Mute L	0d	0d
		Mixer: Master Mute R	0d	0d
		Gain: Mute	Of	0d
		Gain N-Input: Mute [A]	>= 1d (Input)	0d
		MatrixMixer: XPoint Output [A] to Input [B]	>= 1d (Output)	>= 1d (Input)
		MatrixRouter: XPoint Output [A] to Input [B]	>= 1d (Output)	>= 1d (Input)
		RoomCombiner: Source Mute Room [A]	>= 1d (Room)	0d
		Room Combiner: BGM Mute Room [A]	>= 1d (Room)	0d
		Room Combiner: Master Mute Room [A]	>= 1d (Room)	0d
		Room Combiner: Partition [A]	>= 1d (Partition)	0d
		Analog Dialer: TX Mute	0d	0d
		Analog Dialer: RX Mute	0d	0d
		VoIP Dialer: Line [A] TX Mute	>= 1d (Line)	0d
		VoIP Dialer: Line [A] RX Mute	>= 1d (Line)	0d
[A]	А	Please see "ControlType" parameter abov	re for information abo	out setting this value
В]	А	Please see "ControlType" parameter abov	re for information abo	out setting this value





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CONTROL:		
StateOn	D	Pulsing will set the state high.
StateOff	D	Pulsing will set the state low
StateToggle	D	Pulsing will set toggle the state





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FEEDBACK:		
ActualState	AD	This signal will display the current state value.





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TESTING:	
OPS USED FOR TESTING:	CP3 v1.8001.5061.26823 CP4 v2.8000.00017.01
SIMPL WINDOWS USED FOR TESTING:	4.2000.00
DEVICE DB USED FOR TESTING:	200.240.001.00
CRES DB USED FOR TESTING:	216.00.001.00
SYMBOL LIBRARY USED FOR TESTING:	1179
SAMPLE PROGRAM:	BSS BLU v1.4 IP Demo.smw or BSS BLU v1.4 RS232 Demo.smw
REVISION HISTORY:	v1.0 – Initial Release v1.2 – Bug fix for controlling master mute of Gain N-Input block v1.3 – No changes made v1.4 – Fix index issue with preset recall in library. – Updated level control demo to show use of SetValue.