Biamp Tesira Forte

This driver is for the Biamp Tesira Forte series of DSP processors.

- Note - This driver does not currently support TI or VOIP dialing objects. The Raw command may be used for adding basic TI/VOIP functions but feedback is not currently available. Please refer to the Biamp Tesira documentation for valid strings if the Raw command is to be used.

Revision History

1.0   Initial release
1.01   Fixed issue with level commands not executing

Connection Settings
- Serial Port (No Security) - Use this setting when Serial control is preferred. Securing the Biamp Tesira is not supported with this mode.

- Network (No Security) - Use this setting when Ethernet control is preferred. Securing the Biamp Tesira is not supported with this mode.

- Network (With Security) - Use this setting when Ethernet control is preferred. Securing the Biamp Tesira is supported in this mode. It is recommended when using this mode a controller user is created and the username and password for the controller user is used in the driver Username and Password Settings.

Serial Port Settings
Serial Port - Select the serial port of the XP processor that the Biamp Tesira is hooked up to.

Baud Rate - Select the baud rate used by the Biamp Tesira. The default baud rate is 115200 but may be set to other supported baud rates between 1200 and 115200.

Network Settings
IP Address - enter the IP address assigned to the Biamp Tesira. It is recommended that a static IP be used or MAC reservation be setup in the network router.

IP Port - Enter the port to be used for connecting to the Biamp Tesira. The default port is 23.

Username and Password Settings - Network (With Security) setting only
Username - Enter the username to be used for authentication if the Biamp Tesira Forte is set up with security enabled.

Password - Enter the password to be used for authentication if the Biamp Tesira Forte is set up with security enabled.

Telephony/VOIP
Telephony and/or VOIP are not available in current version

Control Points
Routing Output Control Point Count - Enter the number Routing Output Control Points to be

used. Up to 32 Routing Output Control Points are supported, each with up to 32 sources.

Level Control Point Count - Enter the number of Level Control Points to be used. Up to 64 Level Control Points are supported.

State Control Point Count - Enter the number of State Control Points to be used. Up to 64 State Control Points are supported.

Input Gain Control Point Count - Enter the number of Input Gain Control Points to be used. Up to 24 Input Gain Control Points are supported.

Output Gain Control Point Count - Enter the number of Output Gain Control Points to be used. Up to 16 Output Gain Control Points are supported.

Combiner Control Point Count - Enter the number of Combiner Control Points to be used. Up to 8 Combiner Control Points are supported which each supporting up to 8 rooms and groups.

Preset Count - Enter the number of Presets to be used. The presets must be configured in the Biamp Tesira and entered correctly in the Preset configuration section of the driver. Up to 100 presets are supported.

Routing Output (1-32) Control Point Configuration
Name - Enter the name that is to be used throughout the driver for the control point.

Instance Tag - Enter the instance tag of the control point provided by the Biamp Tesira Software.

Block Route Type - Select the type of block used for the routing output.

Output Channel - Enter the output channel for the routing output. Not available for source selectors.

Source Count - Enter the number of sources available for the routing output. Up to 32 are supported, not including the No Source selection.

Source (1-32) Name - Enter the name to be used for the routing output source.

Level (1-64) Control Point Configuration
Name - Enter the name that is to be used throughout the driver for the control point.

Instance Tag - Enter the instance tag of the control point provided by the Biamp Tesira Software.

Block Level Type - Select the type of block used for the level.

Index 1 - Enter the index (channel) used by the level control point. Index 1 is only required where the Block Level Type configuration references Index 1 and is generally going to be an input/source.

Index 2 - Enter the index (channel) used by the level control point. Index 2 is only required where the Block Level Type configuration references Index 2 and is generally going to be an output/room.

Combiner Index (only available when the Block Level Type is set as a Combiner Block) - Select the combiner object in which the level control point resides.

Min Level - enter the minimum level allowed by the level control point.

Max Level - enter the maximum level allowed by the level control point.

Step Value - Select the step value to use as the default throughout the driver. This can be overridden in the driver function if need be.

State (1-64) Control Point Configuration
Name - Enter the name that is to be used throughout the driver for the control point.

Instance Tag - Enter the instance tag of the control point provided by the Biamp Tesira Software.

Block State Type - Select the type of block used for the state.

Index 1 - Enter the index (channel) used by the state control point. Index 1 is only required where the Block State Type configuration references Index 1 and is generally going to be a state control on an input/source.

Index 2 - Enter the index (channel) used by the level control point. Index 2 is only required where the Block State Type configuration references Index 2 and is generally going to be a state control on an output/room.

Combiner Index (only available when the Block State Type is set as a Combiner Block) - Select the combiner object in which the state control point resides.

Input (1-24) Gain Control Point
Name - Enter the name that is to be used throughout the driver for the control point.

Instance Tag - Enter the instance tag of the control point provided by the Biamp Tesira Software.

Index 1 (Channel) - ener the index/channel used by the control point.

Step Value - Select the step value to used by the input gain object in the Biamp Tesira Software. This value MUST match that which is used by the Biamp Tesira Forte and is not adjustable.

Output (1-16) Gain Control Point
Name - Enter the name that is to be used throughout the driver for the control point.

Instance Tag - Enter the instance tag of the control point provided by the Biamp Tesira Software.

Index 1 (Channel) - ener the index/channel used by the control point.

Step Value - Select the step value to used by the output gain (Full Scale) object in the Biamp Tesira Software. This value MUST match that which is used by the Biamp Tesira Forte and is not adjustable.

Combiner (1-8) Control Point
Name - Enter the name that is to be used throughout the driver for the control point.

Instance Tag - Enter the instance tag of the control point provided by the Biamp Tesira Software.

Block Combiner Type - Select the type of block used for the combiner.

Room/In Count - Enter the number of rooms setup in the combiner. Up to 8 rooms are supported.

Group Count - Enter the number of groups available in the combiner. Up to 8 groups are supported.

Room/In (1-8) Name - Enter the name to be used for the combiner room/input.

Group (1-8) Name - Enter the name to be used for the combiner group.

Source (1-4) Name (only available when Gain Sharing Room Combiner is selected for the Block Combiner Type) - Enter the name to be used for the combiner source

Preset Configuration
Preset (1-100) Name - Enter the name that is to be used for Preset Text variables and the Preset Recall driver command.

Preset (1-100) ID - Enter the ID to be assigned to the preset slot.

Driver Notes
- The driver will subscribe to any configured control point that supports subscriptions. A list will be added and updated in this document as the driver is developed.

- Some control point objects do not support being subscribed to. In cases as such, the driver will poll the control point at initialization only or when called upon from a preset or combiner grouping command. Otherwise, once the driver is initialized any control point that does not support being subscribed to will be updated as it is controlled from a driver command only.

- Polling Activity State variables and events are available for notifying users when it is clear to operate the system. The driver will not allow normal operation commands during the initialization process or during polling routines.

- Driver commands that can initiate automated polling routines will have the ability to disable or modify the polling. Commands that support automated polling are Combiner commands and Preset Recall commands.

- A Raw Command String driver command is available for sending commands to the Biamp Tesira that are not currently available in the driver. Feedback for commands sent via the Raw Command String may not be available.

- Note - This driver does not currently support TI or VOIP dialing objects. The Raw command may be used for adding basic TI/VOIP functions but feedback is not currently available. Please refer to the Biamp Tesira documentation for valid strings if the Raw command is to be used.