

Brio

**External Control Protocol
Reference Manual
020-101757-05**

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Contents

Getting Connected	7
Ethernet Connectivity	7
Command Syntax	8
Command Responses	8
Command Summary.....	9
Command Descriptions	12
General Commands	12
SetInfoVisibility	12
Verbose	12
Meeting Commands.....	12
GetAddressBook.....	12
StartMeeting.....	13
EndMeeting	13
AcceptMeeting	13
StartPresenting.....	13
AcceptPresenter	14
IsMultisiteMeetingInProgress.....	14
GetMeetingStatus.....	14
GetPendingMeetingRequest	14
AddMeetingGuests.....	15
RemoveMeetingGuests.....	15
Security Commands	15
StartSecurity	15
EndSecurity	16
StartSecureSession.....	16
Source Commands	16
GetSources.....	16
GetSourceStatus	16
SetSourceVisible	17
SetSourceAudioOn.....	17
RotateSources.....	17
SwapSources	17
DisconnectSource	18
MoveSourceToPositionOne.....	18
MoveSourceToPositionTwo.....	18
MoveDviToPositionOne	18
MoveDviToPositionTwo	19
ToggleSourceVisibility	19
ToggleAudio.....	19
System Commands	20
SetDuplicatePrimary	20
SetPrimaryOutput.....	20

Restart.....	20
Shutdown.....	20
ToggleAutoShow	21
SetAutoShow	21
SetAutoAcceptMeetingRequests.....	21
Whiteboard/Annotation Commands	21
StartWhiteboard.....	21
EndWhiteboard	22
ClearWhiteboard.....	22
StartAnnotation.....	22
EndAnnotation	22
Index	23

Getting Connected

Brio uses an ASCII based command system for external control. Connectivity is available via an Ethernet (RJ-45) connection, using a human readable (ASCII) command/response set.

Each command sent to the external controller must be terminated with a carriage return character, and the commands and arguments must be separated by a space character. All commands are case insensitive. All responses from the external controller will be terminated with a '>' character.

Ethernet Connectivity

Brio can be controlled remotely by sending the ASCII commands listed in this document by first opening a TCP socket connection to port 11135 on Brio.

Command Syntax

Note the following syntax conventions:

- Some commands display their last argument as *Argument x ~ XX*. These commands allow the last argument field to be repeated, allowing multiples of the last argument to be specified with a single command.
- Some commands display argument(s) with an asterisk. These arguments are optional; however no further arguments may be entered in the command.
- String argument spaces must be replaced with the three character ASCII string, %20, to create a valid command, since a space is used as the return value delimiter.
- When used as part of a response, the '>' character will be replaced with the four character ASCII string > since this character is used as a response terminator.
- Commands sent from the client must be terminated with a carriage return character. The external controller response will be terminated with two carriage returns and a > character.

Command Responses

Note the following command response conventions:

- A response is returned for every command sent to Brio.
- If multiple values are returned in a single response, the return value delimiter is an ASCII space character.
- Argument values containing a space will be converted to the three character ASCII string, %20.
- The first response argument is always the result code for the command, which lets you know if a command was successfully processed.

The table below displays the various responses that can be returned by Brio.

Response	Description
Success	Command was successfully processed.
Empty	Data requested is not available.
InvalidCommand	Invalid command specified.
InvalidArgCount	Missing required minimum number of arguments.
InvalidArgValue	One or more arguments were invalid.
Execution	An execution error occurred while processing the command.

Command Summary

The following commands are available when using an Ethernet connection to Brio.

Type	Command	Description	Page Reference				
General	<i>SetInfoVisibility</i>	Sets the visibility of the Brio Information pop up on one or more of the Brio's outputs.	12				
General	<p><i>SetInfoVisibility</i></p> <p>Sets the visibility of the Brio Information pop up on one or more of the Brio's outputs.</p> <p>Command: SetInfoVisibility</p> <p>Argument 1: <i>[Text]</i> The output that should display the Brio Info. Valid values are Primary, Secondary, Both, and None.</p> <p>Response 1: <i>[Boolean]</i> Success code (True/False).</p> <table border="1" data-bbox="344 1018 763 1129"> <tr> <td>Example</td> <td>SetInfoVisibility Primary</td> </tr> <tr> <td>Response</td> <td>Success True></td> </tr> </table> <p>Verbose</p>	Example	SetInfoVisibility Primary	Response	Success True>	Turns verbose mode on or off for the current session.	12
Example	SetInfoVisibility Primary						
Response	Success True>						
Meeting	<i>AcceptMeeting</i>	Accepts or declines a meeting request.	13				
Meeting	<i>AcceptPresenter</i>	Accepts incoming request to be a presenter.	13				
Meeting	<i>AddMeetingGuests</i>	Starts a meeting with specified Brios or invites specified Brios to an existing meeting.	15				
Meeting	<i>EndMeeting</i>	Ends a meeting.	13				
Meeting	<i>GetAddressBook</i>	Gets a listing of all Brios in the address book.	12				
Meeting	<i>GetMeetingStatus</i>	Gets detailed information about a meeting.	14				
Meeting	<i>GetPendingMeetingRequest</i>	Gets the most recent meeting request sent to the specified Brio.	14				
Meeting	<i>IsMultisiteMeetingInProgress</i>	Queries if a multisite meeting is currently in progress.	16				
Meeting	<i>RemoveMeetingGuests</i>	Removes specified Brios from a meeting.	15				
Meeting	<i>StartMeeting</i>	Starts a meeting with specified Brios.	12				
Meeting	<i>StartPresenting</i>	Sends a request to be a presenter.	13				
Security	<i>EndSecurity</i>	Ends the current security session.	16				
Security	<i>StartSecureSession</i>	Starts a security session with an auto-generated password that does not expire.	16				

Type	Command	Description	Page Reference
Security	<i>StartSecurity</i>	Starts a security session for the specified duration.	15
Source	<i>DisconnectSource</i>	Disconnects the specified source.	18
Source	<i>GetSources</i>	Gets all sources.	16
Source	<i>GetSourceStatus</i>	Gets detailed information about a source.	16
Source	<i>MoveDviToPositionOne</i>	Moves a DVI source to position one.	18
Source	<i>MoveDviToPositionTwo</i>	Moves a DVI source to position two.	19
Source	<i>MoveSourceToPositionOne</i>	Moves specified source to the first position in the source list.	17
Source	<i>MoveSourceToPositionTwo</i>	Moves specified source to the second position in the source list.	18
Source	<i>RotateSources</i>	Moves source 1 to be the last position on the source list.	17
Source	<i>SetSourceAudioOn</i>	Sets the audio on or off for the specified source.	17
Source	<i>SetSourceVisible</i>	Turns automatic display of connecting source on or off.	17
Source	<i>SwapSources</i>	Swaps the position of two specified sources.	17
Source	<i>ToggleAudio</i>	Toggles audio on/off for the specified source.	19
Source	<i>ToggleSourceVisibility</i>	Toggles visibility (show/hide) for the specified source.	19
System	<i>Restart</i>	Restarts Brio.	20
System	<i>SetAutoAcceptMeetingRequests</i>	Turns automatic acceptance of meeting requests on or off.	21
System	<i>SetAutoShow</i>	Turns automatic display of connecting source on or off	21
System	<i>SetDuplicatePrimary</i>	Duplicates source #1.	20
System	<i>SetPrimaryOutput</i>	Sets primary output.	20
System	<i>Shutdown</i>	Shuts down Brio.	20
System	<i>ToggleAutoShow</i>	Turns Auto-show on or off.	21
Whiteboard /Annotation	<i>ClearWhiteboard</i>	Clears the whiteboard.	22
Whiteboard /Annotation	<i>EndAnnotation</i>	Ends annotation.	22
Whiteboard /Annotation	<i>EndWhiteboard</i>	Ends whiteboard.	22
Whiteboard /Annotation	<i>StartAnnotation</i>	Starts annotation.	21

Type	Command	Description	Page Reference
Whiteboard /Annotation	<i>StartWhiteboard</i>	Starts whiteboard.	21

Command Descriptions

This section describes the details for each command. The commands are grouped by type.

General Commands

SetInfoVisibility

Sets the visibility of the Brio Information pop up on one or more of the Brio's outputs.

Command: SetInfoVisibility

Argument 1: *[Text]* The output that should display the Brio Info. Valid values are Primary, Secondary, Both, and None.

Response 1: *[Boolean]* Success code (True/False).

Example	SetInfoVisibility Primary
Response	Success True>

Verbose

Turns verbose mode on or off for the current session. When on, the response from all commands will be modified to include the name of the command sent, the command result, and the return value(s) (if any). The return value format in verbose mode is:

command commandResult: [returnValues] >

Command: Verbose

Argument 1: *[Text]* (True/On/False/Off)

Example Description	Shows the output for GetMeetingStatus when the Verbose command is set to on.
Command	Verbose on
Response 1	verbose Success: >
Next Command	GetMeetingStatus
Response 2	GetMeetingStatus Success: HostPresenting 2 Brio72 HostPresenting Brio73 Guest >

Meeting Commands

This section describes the commands related to meetings.

GetAddressBook

Returns a brief listing of all Brios in the address book.

Command: GetAddressBook

No arguments required.

Response 1: *[Number]* Number of Brios found.

Response 2: *[Text]* Brio Name

Response X: *[Loop]* Response 2 loops for each Brio in the response.

Example Description	Gets a listing of all Brios in the address book. Two Brios will be returned: <ul style="list-style-type: none"> - Name: Site1 - Name: Site8
Example	GetAddressBook
Response	Success 2 Site1 Site8 >

StartMeeting

Starts a meeting with the specified Brios. If a meeting is already in progress, a Meeting in Progress message is sent.

Command: StartMeeting

Argument 1-XX: *[Text]* The name of the Brio to be invited to the meeting.



Brio names are case sensitive.

Response 1: *[Text]* Command result code.

Example Description	Starts a meeting with site1 and site2.
Example	StartMeeting site1 site2
Response	Success >

EndMeeting

Ends a meeting.

Command: EndMeeting

No arguments required.

Response 1: *[Text]* Command result code.

Example	EndMeeting
Response	Success >

AcceptMeeting

Accepts or declines a meeting request based on the passed parameter (true/false)

Command: AcceptMeeting

Argument 1: *[Boolean]* Specifies whether to accept or decline a meeting (true or false).

Response 1: *[Text]* Command result code.

Example	AcceptMeeting true
Response	Success >

StartPresenting

Sends a request to take presentation responsibilities.

Command: StartPresenting

No arguments required.

Response 1: *[Text]* Command result code.

Example	StartPresenting
Response	Success >

AcceptPresenter

Accepts or declines a request to become a presenter based on the passed parameter (true/false)

Command: AcceptPresenter

Argument 1: *[Boolean]* Specifies whether to accept or decline request (true or false).

Response 1: *[Text]* Command result code.

Example	AcceptPresenter true
Response	Success >

IsMultisiteMeetingInProgress

Queries if a multisite meeting is currently in progress.

Command: IsMultisiteMeetingInProgress

No arguments required.

Example	IsMultisiteMeetingInProgress
Response	Success True>

GetMeetingStatus

Queries the status of a multisite meeting and displays the Brio's current meeting role (HostPresenting, HostViewing, Guest, Presenter, or None), the number of Brios in the meeting, and the name and role of all Brios in the meeting.

Command: GetMeetingStatus

No arguments required.

Response 1: *[Text]* Current Role. Possible values are: HostPresenting, HostViewing, Guest, Presenter, or None.

Response 2: *[Number]* Count of Brios in the meeting. Could be 0..n

Response 3: *[Text]* Brio Name. Spaces will be replaced with %20.

Response 4: *[Text]* Brio Role. Same possible values as Response 1.

Response X: *[Loop]* Responses 3-4 loops for each Brio in the response.

Example	GetMeetingStatus
Response	Success Guest 2 BrioName1 HostPresenting BrioName2 Guest >

GetPendingMeetingRequest

Returns the most recent meeting request sent to the Brio.

Command: GetPendingMeetingRequest

No arguments required.

Response 1: *[Text]* The type of request that is pending. Possible values are: None, Invitation, GuestRequestingToPresent, or HostRequestingGuestToPresent.

Response 2: *[Text]* If Response 1 is Invitation, GuestRequestingToPresent, or HostRequestingGuestToPresent, this response contains the name of the Brio that sent the request. Spaces will be replaced with %20.

Example	GetPendingMeetingRequest
Response	Success GuestRequestingToPresent BrioName2 >

AddMeetingGuests

Adds the specified Brios to the current meeting.

If the Brio is not in a meeting, then it starts a meeting as the Host and invites the specified guests.

If the Brio is in a meeting and is the Host, then it invites the specified Brios to the existing meeting.

If the Brio is a Guest in a meeting, then this command returns an Execution error.

Command: AddMeetingGuests

Argument 1-XX: *[Text]* The name of the Brio to be invited to the meeting.

Example	AddMeetingGuests BrioName2 BrioName3
Response	Success >

RemoveMeetingGuests

Removes the specified Brios from the current meeting. If the Brio is not in a meeting or if the Brio is not a Host in a meeting, this command returns an Execution error.

Command: RemoveMeetingGuests

Argument 1-XX: *[Text]* The name of the Brio to be removed from the meeting.

Example	RemoveMeetingGuests BrioName3
Response	Success >

Security Commands

This section describes the commands related to security.

StartSecurity

Starts a security session for a specified duration.

Command: StartSecurity

Argument 1: *[Text]* Password of the security session



Passwords are case sensitive.

Argument 2: *[Number]* Duration of security session in minutes (maximum value is 1440).

Response 1: *[Text]* Command result code.

Example Description	Starts security session with password “CantGuessIt” for the duration of 30 minutes.
Example	StartSecurity CantGuessIt 30

Response	Success >
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EndSecurity

Ends the current security session.

Command: EndSecurity

No arguments required.

Response 1: *[Text]* Command result code.

Example	EndSecurity
Response	Success >

StartSecureSession

Starts a security session with an auto-generated password that does not expire.

Command: StartSecureSession

No arguments required.

Example Description	Starts a security session with an auto-generated password that does not expire.
Example	StartSecureSession
Response	Success tjekaw >

Source Commands

This section describes the commands related to sources.

GetSources

Gets all sources

Command: GetSources

No arguments required.

Response 1: *[Number]* Number of sources in the system being returned.

Response 2: *[Number]* Source position

Response 3: *[Text]* Source Name

Response X: *[Loop]* Responses 2-3 loops for each Brio in the response.

Example	GetSources
Response	Success 2 1 InputA 2 iPadJD >

GetSourceStatus

Gets detailed information about a source.

Command: GetSourceStatus

Argument 1: *[Number]* Source number.

Response 1: *[Text]* Source name.

Response 2: *[Text]* Source type.

Response 3: *[Boolean]* Specifies whether audio is enabled on the source (true or false).

Response 4: *[Boolean]* Specifies whether the source is connected (true or false).

Response 5: *[Boolean]* Specifies whether the source is visible (true or false).

Response 6: *[Number]* Identifies the source number.

Response 7: *[Boolean]* Specifies if the source supports audio (true or false).

Response 8: *[Boolean]* Specifies if the source supports being disconnected (true or false).

Example Description	Gets status for source number 2.
Example	GetSourceStatus 2
Response	Success InputOne DVI False True True 2 True False >

SetSourceVisible

Sets the visibility for the specified source on or off depending on the parameter passed.

Command: SetSourceVisible

Argument 1: *[Number]* SourceNumber

Argument 2: *[Boolean]* Specifies if the source is visible (true or false).

Response 1: *[Text]* Command result code.

Example	SetSourceVisible 3 true
Response	Success >

SetSourceAudioOn

Sets the audio on or off for the specified source depending on the parameter passed.

Command: SetSourceAudioOn

Argument 1: *[Number]* SourceNumber

Argument 2: *[Boolean]* Specifies if audio is on (true or false).

Response 1: *[Text]* Command result code.

Example	SetSourceAudioOn 3 true
Response	Success >

RotateSources

Moves source 1 to be the last position on the source list.

Command: RotateSources

No arguments required.

Response 1: *[Text]* Command result code.

Example	RotateSources
Response	Success >

SwapSources

Swaps the position of two specified sources. Sources will swap both position and visibility status. If source 3 is hidden and source 1 is not, then swapping sources 1 and 3 will cause source 1 to move to position 3 and become hidden, and source 3 will move to position 1 and become visible.

Command: SwapSources

Argument 1: *[Number]* The first source position to swap.

Argument 2: *[Number]* The second source position to swap.

Example	SwapSources 1 3
Response	Success >

DisconnectSource

Disconnects the specified source.

Command: DisconnectSource

Argument 1: *[Number]* SourceNumber

Response 1: *[Text]* Command result code.

Example	DisconnectSource 3
Response	Success >

MoveSourceToPositionOne

Moves the specified source to the top of the source list.

Command: MoveSourceToPositionOne

Argument 1: *[Number]* Source number of the source to be moved.

Argument 2: *[Boolean]* True/False. True moves the source and makes it the only visible source. False moves the source but does not change the visibility of any source.

Example Description	Moves the source located at position 3 to position 1 and does not change the visibility of any source.
Example	MoveSourceToPositionOne 3 False
Response	Success >

MoveSourceToPositionTwo

Moves the specified source to position two the source list.

Command: MoveSourceToPositionTwo

Argument 1: *[Number]* Source number of the source to be moved.

Argument 2: *[Boolean]* True/False. True moves the source and makes it the only visible source. False moves the source but does not change the visibility of any source.

Example Description	Moves the source located at position 3 to position 2 and does not change the visibility of any source.
Example	MoveSourceToPositionTwo 3 False
Response	Success >

MoveDviToPositionOne

Moves a DVI source to position one in the source list.

Command: MoveDviToPositionOne

Argument 1: *[Text]* DVI type: A or B.

Argument 2: *[Boolean]* True/False. True moves the source and makes it the only visible source. False moves the source but does not change the visibility of any source.

Response 1: *[Text]* Command result code.

Example Description	Moves DVI source B to position one and does not change the visibility of any source.
Example	MoveDviToPositionOne B False
Response	Success >

MoveDviToPositionTwo

Moves a DVI source to position two in the source list.

Command: MoveDviToPositionTwo

Argument 1: *[Text]* DVI type: A or B.

Argument 2: *[Boolean]* True/False. True moves the source and makes it the only visible source. False moves the source but does not change the visibility of any source.

Response 1: *[Text]* Command result code.

Example Description	Moves DVI source B to position two and does not change the visibility of any source.
Example	MoveDviToPositionTwo B False
Response	Success >

ToggleSourceVisibility

Toggles visibility of the specified source number on or off.

Command: ToggleSourceVisibility

Argument 1: *[Number]* Source number of the source.

Response 1: *[Text]* Command result code.

Example Description	Toggles visibility of source 3.
Example	ToggleSourceVisibility 3
Response	Success >

ToggleAudio

Toggles audio on or off for the specified source.

Command: ToggleAudio

Argument 1: *[Number]* Source number

Response 1: *[Text]* Command result code.

Example Description	Toggles audio for source 3.
Example	ToggleAudio 3
Response	Success >

System Commands

This section describes the commands related to the system.

SetDuplicatePrimary

Turns duplication of source #1 on both outputs on or off depending on the parameter passed.

Command: SetDuplicatePrimary

Argument 1: *[Boolean]* Specifies if source #1 is displayed on both outputs (true or false).

Response 1: *[Text]* Command result code.

Example	SetDuplicatePrimary true
Response	Success >

SetPrimaryOutput

Sets primary output to either output “A” or “B.”



This setting is persistent through reboots. The command only needs to be sent when you want to change the argument.

Command: SetPrimaryOutput

Argument 1: *[Letter]* “A” or “B”.

Response 1: *[Text]* Command result code.

Example	SetPrimaryOutput A
Response	Success >

Restart

Restarts the Brio.

Command: Restart

No arguments required.

Response 1: *[Text]* Command result code.

Example	Restart
Response	Success >

Shutdown

Shuts down Brio.

Command: Shutdown

No arguments required.

Response 1: *[Text]* Command result code.

Example	Shutdown
Response	Success >

ToggleAutoShow

Toggles Auto show on or off.

Command: ToggleAutoShow

No arguments required.

Response 1: *[Text]* Command result code.

Example	ToggleAutoShow
Response	Success >

SetAutoShow

Turns automatic display of connecting source on or off depending on the parameter passed.

Command: SetAutoShow

Argument 1: *[Boolean]* Specifies if connecting source is displayed on outputs (true or false).

Response 1: *[Text]* Command result code.

Example	SetAutoShow true
Response	Success >

SetAutoAcceptMeetingRequests

Turns automatic acceptance of meeting requests on or off depending on the parameter passed.



This setting is persistent through reboots. The command only needs to be sent when you want to change the argument.

Command: SetAutoAcceptMeetingRequests

Argument 1: *[Boolean]* Specifies if meeting requests are automatically accepted (true or false).

Response 1: *[Text]* Command result code.

Example	SetAutoAcceptMeetingRequests true
Response	Success >

Whiteboard/Annotation Commands

This section describes the commands related to the whiteboard and annotation.

StartWhiteboard

Starts a whiteboard.

Command: StartWhiteboard

No arguments required.

Response 1: *[Text]* Command result code.

Example	StartWhiteboard
Response	Success >

EndWhiteboard

Ends a whiteboard.

Command: EndWhiteboard

No arguments required.

Response 1: *[Text]* Command result code.

Example	EndWhiteboard
Response	Success >

ClearWhiteboard

Clears the whiteboard.



This command is not supported during meetings.

Command: ClearWhiteboard

No arguments required.

Example	ClearWhiteboard
Response	Success >

StartAnnotation

Starts annotation.

Command: StartAnnotation

No arguments required.

Response 1: *[Text]* Command result code

Example	StartAnnotation
Response	Success >

EndAnnotation

Ends annotation.

Command: EndAnnotation

No arguments required.

Response 1: *[Text]* Command result code

Example	EndAnnotation
Response	Success >

Index

AcceptMeeting	13	RotateSources	17
AcceptPresenter	14	SetAutoAcceptMeetingRequests	21
AddMeetingGuests	15	SetAutoShow	21
ClearWhiteboard	22	SetDuplicatePrimary	20
DisconnectSource	18	SetInfoVisibility	9, 12
EndAnnotation	22	SetPrimaryOutput	20
EndMeeting	13	SetSourceAudioOn	17
EndSecurity	16	SetSourceVisible	17
EndWhiteboard	22	Shutdown	20
GetAddressBook	12	StartAnnotation	22
GetMeetingStatus	14	StartMeeting	13
GetPendingMeetingRequest	14	StartPresenting	13
GetSources	16	StartSecureSession	16
GetSourceStatus	16	StartSecurity	15
IsMultisiteMeetingInProgress	14	StartWhiteboard	21
MoveDviToPositionOne	18	SwapSources	17
MoveDviToPositionTwo	19	ToggleAudio	19
MoveSourceToPositionOne	18	ToggleAutoShow	21
MoveSourceToPositionTwo	18	ToggleSourceVisibility	19
RemoveMeetingGuests	15	Verbose	12
Restart	20		

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