ZerOS & OSC ("Open Sound Control")

INTRODUCTION

ZerOS can now receive triggers over OSC. Support includes Cues (Go, Pause, Next), Playbacks (Go, Pause, Playback Level with optional fade time, Release, View), Macros, Grand Master (with optional fade time) and Blackout.

Commands can be received as a string, as an argument (with or without quotes) or combined. For example, the following commands would all trigger Cue 5 of Playback 1:

- /zeros/cue/go/1/5
- /zeros/cue/go/1 "5"
- /zeros/cue/go "1","5"
- /zeros/cue/go "1/5"

More information on OSC can be found at ccrma.stanford.edu/groups/osc/index.html

ENABLING OSC IN ZEROS

OSC can be enabled in SETUP > Triggers > OSC. There's also an "OSC Examples" panel showing example commands.

OVERVIEW

The below table lists all available commands. Where alternative "shorthand" commands are listed in the same cell, these are interchangeable - made available to speed up programming. For example "/zeros/cue/go" and "/lx/q/go" have identical functionality - the first being easier to read, and second being quicker to type.

1st	2nd	3rd
/zeros /flx /lighting /lx	/cue /q	/go
		/pause
		/next
	/playback /pb	/go
		/pause
		/level
		/release
		/view
	/blackout /bo /dbo	
	/grandmaster /gm	/level (can be omitted)
	/macro	

In the details on the following pages, only the top command is shown but all alternative "shorthand" commands also work.

Cue

GO

	String	Combined	Argument (with or without quotes)
Go Playback X Cue Y	/zeros/cue/go/X/Y	/zeros/cue/go/X "Y"	/zeros/cue/go "X","Y" /zeros/cue/go "X/Y"
Go Cue Y (current playback)	/zeros/cue/go/Y		/zeros/cue/go "Y"
Go (current playback)	/zeros/cue/go		

PAUSE

	String	Combined	Argument (with or without quotes)
Pause (current playback)	/zeros/cue/pause		

NEXT

	String	Combined	Argument (with or without quotes)
"Next" Playback X Cue Y	/zeros/cue/next/X/Y	/zeros/cue/next/X "Y"	/zeros/cue/next "X","Y" /zeros/cue/next "X/Y"
"Next" Cue Y (current playback)	/zeros/cue/next/Y		/zeros/cue/next "Y"

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Playback

GO

	String	Combined	Argument (with or without quotes)
Go Playback X	/zeros/playback/go/X		/zeros/playback/go "X"
Go (current playback)	/zeros/playback/go		

PAUSE

	String	Combined	Argument (with or without quotes)
Pause Playback X	/zeros/playback/pause/X		/zeros/playback/pause "X"
Pause (current playback)	/zeros/playback/pause		

PLAYBACK LEVELS

	String	Combined	Argument (with or without quotes)
Playback X to level Y% over Z seconds	/zeros/playback/level/X/Y /zeros/playback/level/X/Y/Z	/zeros/playback/level/X "Y" /zeros/playback/level/X/Y "Z" /zeros/playback/level/X "Y","Z" /zeros/playback/level/X "Y/Z"	/zeros/playback/level "X","Y" /zeros/playback/level "X/Y" /zeros/playback/level "X","Y","Z" /zeros/playback/level "X/Y/Z"
	Level in %. Optional fade time, in seconds If fade time is not set, ZerOS will use the raise/lower time ("move" rather than "fade")		

RELEASE

	String	Combined	Argument (with or without quotes)
Release Playback X	/zeros/playback/release/X		/zeros/playback/release "X"
Release (current playback)	/zeros/playback /release		

VIEW

	String	Combined	Argument (with or without quotes)
View Playback X	/zeros/playback/view/X		/zeros/playback/view "X"

Other (Macro, GM, BO)

	String	Combined	Argument (with or without quotes)
Run User Macro X	/zeros/macro/X		/zeros/macro "X"
Grand Master to level Y% over Z seconds	/zeros/grandmaster/level/Y /zeros/grandmaster/level/Y/Z /zeros/grandmaster/Y /zeros/grandmaster/Y/Z	/zeros/grandmaster/level/Y "Z" /zeros/grandmaster/Y "Z"	/zeros/grandmaster/level/ "Y" /zeros/grandmaster/level "Y","Z" /zeros/grandmaster "Y" /zeros/grandmaster "Y","Z"
	Level in % (The word "Level" is optional within the string. It is not required but can be included to match the equivalent Playback level command). Optional fade time, in seconds		
Blackout	/zeros/blackout/X		/zeros/blackout "X"
	To turn Blackout on, X can = "1", "on", "enable", "enabled", or "true" To turn Blackout off, X can = "0", "off", "disable", "disabled", or "false"		

Notes

TIME TAG

OSC allows for time tags within "bundles" of messages. ZerOS only supports bundles of messages with the time value of "immediately". If a timestamp is present, ZerOS will ignore the WHOLE message and not run the command.

WILDCARDS

OSC allows for wildcards. ZerOS does not support wildcards. If a wildcard is present, ZerOS will ignore the WHOLE message and not run the command.