

English Commands

Supplement

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Contents

Preamble

Purpose.....	4
Command Structure.....	4
Optional words.....	4
Short forms.....	5
Scope: single, range, non-consecutive.....	5

Tier 1 Commands

Get, Set, Increase, Decrease.....	5
Toggle, Raise, Lower.....	5

Specialized Commands

Connect, Search, Disconnect.....	6
Clear, Real, RealValues.....	6

Miscellaneous Commands

Timing Commands.....	7
Miscellaneous Commands.....	8

Modified Tidbit Commands

Clear.....	9
Store.....	9
Update.....	9

Other Tidbit Commands

Add.....	10
Delete.....	10
Load.....	10
Import.....	10
Export.....	10
Strip.....	10
Mute/Unmute.....	10
USB.....	11

X-Live (XLive) Commands

Transport Commands.....	11
Housekeeping Commands.....	11
Informational Commands.....	11
Adjustable Commands.....	12
Examples.....	12

DP48 Commands

Commands.....	13
---------------	----

Global Setting Commands

Mixer.....	14
Midi.....	16
X-Touch.....	17

Channel Strip Commands

Sub categories.....	18
Configure Commands.....	19
Fader, Mute, etc Commands.....	20
Gate Commands.....	21
Headamps.....	22
Compressor Commands.....	23
EQ Commands.....	25
Output Commands.....	26
Sends Commands.....	26

Fx Commands

Fx Source.....	27
Fx Styles.....	27
Fx Settings.....	28

X-Air Routing Commands

Input Commands.....	30
USB Sends Commands.....	30
Ultramet Commands.....	30
Aux Commands.....	31
Main/Phones Commands.....	31

X32 Routing Commands

Input Routing.....	32
AuxIn Remap Routing.....	32
Output Staging Routing.....	33
Output Block Routing.....	34
Output Delay, IQ Setup.....	35
iQ Setup.....	36

Legacy Tidbit Commands

Timing Commands.....	37
Connection Commands.....	37
Store, Recall, Reset.....	38
Launch, Load, Go, Tap Tempo.....	39
Save, Fade, Xfade, Wave,.....	41
Update.....	42

Examples.....	43
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Preamble

Purpose

Music-Tribe has developed its own dialect of the OSC protocol (<http://opensoundcontrol.org/introduction-osc>), for the use of controlling its digital consoles – X32, M32, X-Air and M-Air platforms. The Behringer X32 was the first console to be released, with the Midas brother M32 shortly after. Both of these consoles use the identical OSC engine, thus the same OSC command dialect. Unfortunately, this was poorly documented until one of the X32 forum members (Patrick-Gilles Maillot) took it upon himself to discover and extensively document this protocol (<https://sites.google.com/site/patrickmaillot/x32>). Using this knowledge and the OSC commands, all aspects of these digital consoles can be controlled remotely by a properly developed application.

Unfortunately, the OSC command structure is somewhat cryptic. It is difficult to read and learn, limiting the scope of potential users. Why could a front end translation not be created to broaden the user based and allow more console users with more control. Thus, the English command equivalent interface was conceived.

Using a simple interface, such as [MX Live Terminal](#), the average sound engineer can easily use these commands to change all aspects of the console.

Please Note: References to **X32** includes **M32**, **X-Air** includes **M-Air**
All English equivalent commands are not case-sensitive.

Wing firmware 1.0.8 includes the OSC protocol, allowing Live Toolbox engine to be used with some tidbit and English Equivalent commands.

Command Structure

The English commands are divided into tiers (levels) and categories.

The Channel Strip Commands section includes all aspects of the channels, buses, aux, Fx, matrix, main LR and mono strips.

The Routing section is divided into the X-Air Routing Commands and X32 Routing Commands, since they are so vastly different.

Optional Words

Due to the nature of the English language, optional words can be added for clarity and sentence flow. These words are stripped from the command line before being sent to the OSC engine. The stripping can be turned on/off using the Strip command (eg. Set strip off).

Current optional words are:

to, from, by, for, and, of, current, db, hz, %, sec, second and seconds

The following are also optional, except for the X32 output delay commands
ms, millisecond, milliseconds

Example: Set channel 13 PEQ 3 frequency **to** 1000 **hz**

Short Forms

Various short forms of the standard English command can be used.

For example: Set channel 4 mixbus 3 fader to -25 db
 can be: Set ch 4 bus 3 fader -25

Scope: Single, Range, Non-consecutive

A command scope can be single, range, and/or non-consecutive. This is now available for all English commands, for the # substitutions in tidbit commands, and now available for all OSC commands (using the # substitution, similar to tidbits).

****Note**** Non-consecutive must be delimited with commas only (no spaces)
Tidbits and OSC scope values must be at the end of the command line

For example: Set channel 4 mixbus 3 fader to -25 db
 Set channel 3-7 bus 3-6 fader to -10
 Set channel 1,3,5-7,10 mute on
 Store 1 /ch/###/config/name 1-8,12,14
 /ch/###/config/color ,i 5 1-8,12,14

Tier 1 Commands

The first tier (or level) of commands are the first command in the command string. Most of these can be used across the various command categories (such as channels).

Get

Requests current state (setting) from the console

Set

Sets a specific setting on the console in absolute terms

Increase

Increases a setting (eg. fader level) on the console relative to the current setting.

Decrease

Decreases a setting (eg. fader level) on the console relative to the current setting.

Toggle

Turns on/off or advances to the next state (of a list) relative to the current setting.

Raise/Lower

Raises or lowers the value(s). Using “to” before the value makes it absolute. Using “by” before the value makes it relative

Specialized Command

Some specialized commands are for specific settings.

Connect <IP> <Port>

Connect to the console (at IP, port)

- If no port is provided, 10023 (X32), 10024 (X-Air) or 2223 (Wing) is assumed.
- If no port or IP is provided, this functions the same as Search.

Search <Port>

Searches for an X32, M32, X-Air, M-Air or Wing console

- If no port is provided, 10023 (X32), 10024 (X-Air) or 2223 (Wing) is assumed.

Disconnect

Disconnects from the console.

Clear

Clears a specific setting, such as solos, stores, etc.

Real, RealValues

Turns return real world values ON or OFF. When off the console response will be in OSC values (eg. 0.75) instead of real world values (eg. 0 db). This does not apply to the Wing (since all values are real world values)

Miscellaneous Commands

Timing commands

Delay

Delays time between OSC commands sent (in ms)

Default is 5 ms

Increase if returned results are not reliable

Example: Set Delay to 15 ms

FadeDelay

Delays time between fade steps (10 steps per second)

Default is 90 ms

Increase if total fade time is short

Example: Set FadeDelay to 92 ms

Buffer ** deprecated ** Use FadeDelay instead

Pause

Delays time between tidbit commands sent (in ms)

No Default, can only be set and only makes sense in a tidbit

Example: Set Pause to 1000 ms

Trigger

Triggers a command or tidbit file at a specific time-date, with repeatable action

Triggers available: 1-20

Time-date format: h:m:s-yyyy.m.d
 h:m:s

Repeatable settings: once, minute, hourly, daily, weekly, monthly, yearly
 one, min, hour, day, week, month, year

Example: Set trigger 5 to 17:43:30-2019.5.4 once "Set chan 1 name to 'Vocal Paul'"
 Set trigger 18 to 9:15:0 daily "launch scene 15"
 Set trigger 8 (clears trigger 8)
 Get trigger 12

Countdown

Sets a countdown to run a command or tidbit file with repeatable action

Triggers available: 1-20

Time-date format: h:m:s

Repeatable settings: once, repeat

Example: Set countdown 5 to 1:30 once "Set chan 1 name to 'Vocal Paul'"
Set count 18 to 15 repeat "launch scene 15"
Set countdown 8 (clears trigger 8)
Get countdown 12

Crossfade *New*****

Crossfades 2 similar channel strips (chan, aux, bus, matrix, dca) over determined time.
This functions as a simplified Xfade command (see Legacy Tidbit Commands)

Default time: 5 seconds

Cross<fade> type no1 no2 <duration>

Example: Crossfade chan 1 and 2 for 8 sec
cross bus 3 5

Miscellaneous commands

Strip

Turns on/off stripping of optional words in the command line. Turning off strip could be useful if the optional words are included in a channel name (for example).

Currently optional words are: to, for, by, current, db, hz, sec, second, seconds

Example: Set Strip off

NewFade *New*****

Turns on/off the new fade command values, where the last 2 values (sec and destvalue) are switched. The old fade command had them backwards. This provides backward compatibility.

Example: Set NewFade on

Mixer

Determines the mixer. This is important to establish, since some OSC commands are mixer specific. This selection also determines the mixer family (X32/M32, X-Air/M-Air or Wing) and their respective ports (10023, 10024 or 2223 respectively).

XR12, XR16, XR18, X18, MR12, MR18, X32, M32, Wing

Example: Get Mixer
Set Mixer to xr18

Modified Tidbit commands

All legacy tidbit commands are available for use along with the OSC and English equivalent commands. But some tidbit commands need modification (reorder of values, etc.) in order to flow as an English equivalent command.

For example, the Store command has the store number as the first value. The English equivalent moves that number to the end.

Legacy Store: Store 4 /ch/01/mix/config/name

English Equivalent: Store chan 1 name to 4

Clear

Clears console solos, error messages or tidbit store command.

Example: Clear solo
Clear store 1
Clear errors

Store (not for Wing)

Stores the returned response from the console to memory.

In order to make it flow as an English equivalent command, the store number is placed at the end of the command.

Example: Store Set chan 1-3 fader to 3
Store /ch/05/mix/04/level ,f 0.66 5

Update (not for Wing)

Updates a X32 scene(s) or X-Air snapshot(s) with a tidbit or snippet (X32 only).

In order to make it flow as an English equivalent command, the scene number is the first value.

Example: Update scene 12 with snippet 7
Update snapshot 12 with tidbit "C:\Utils\Paul's\Tidbits\Sends.tid"

Other Tidbit commands

Add

Add marker to X-Live session.

Command: Add marker

Delete

Deletes session or marker from X-Live.

Command: Delete [session, marker] #

Example: Delete marker 3

Deletes chan, effects or routing preset.

Command: Delete [chan, fx, eff, rout] #

Example: Delete fx 35

Load (not for Wing)

Loads scene, snippet, preset (X32) or snapshot (X-Air).

Command: Load [scene, snippet, snapshot, routing] #

Example: Load scene 3

Command: Load [chan, fx] # #

Example: Load to chan 7 from 23

Save (not for Wing)

Saves scene, snippet, preset (X32) or snapshot (X-Air). See tidbit command (page 40).

Import (not for Wing)

Imports a scene or snippet file to the current settings of the console (currently only available for X32).

Example: Import scene file "My Scene.scn"

Import snip "My Snippet.snp"

Export (not for Wing)

Exports console's current settings to a scene file.

Export scene filename [title] [notes]

Example: Export to scene file "My Scene.scn"

Export scene "Paul's Scene.scn" "Paul's Scene" "March 2021"

Strip (not for Wing)

Uses an existing scene file to generate the X32Cmd.scn or XAirCmd.scn.

Example: Strip "My Scene.scn" to "X32Cmd.scn"

Mute, Unmute

Mutes or unmutes channels, buses, Main LR, etc. Equivalent to the Set xxxxx mute on/off. Example:

Mute channels 2-4, 6, 8, 11-14

Unmute buses 1-6

USB

Provides access to the USB player transport buttons.

Commands for both X-Air and X32 are:

Stop, Play, Pause, Record, Pause Record

Additional commands for X32 are:

Fast (or FF), Rewind (or Rew), Play Previous, Play Next

Example: USB Play
 USB Record

Xlive, X-Live (*not for Wing*)

Provides access to the X-Live card setup and transport buttons.

Transport Commands:

Use the *X-live (Xlive)* command (eg. X-live play)

Stop, Play, Pause, Record

Play stop – toggles between play and stop

Record stop – toggles between record and stop

Play pause – toggles between play and pause

Use the **Set X-live state** with values **Stop, Play, Pause, Record**

Housekeeping Commands:

Use the *X-live (Xlive)* command (eg. X-live format)

Format	Formats active SD card
Error (messages)	Get any X-Live error messages
Clear (messages)	Clear all X-Live error messages
Battery	Get internal battery status

Informational Commands (read only):

Use the *Get X-live (Xlive)* command (eg. Get X-live SD1 State)

State	Provides current state (stop, pause, play, record)
Remaining	Provides session current position remaining time
SD1 State	Provides current state of SD1
SD2 State	Provides current state of SD2
SD1 Info	Provides details of SD1
SD2 Info	Provides details of SD2
Marker Max	Provides total number of markers
Session Max	Provides total number of sessions
Session Length	Provides current session length
Session Offset	Provides end point of the first of spanned session

Adjustable Commands (read/write):

Use the [Get, Set, Increase, Decrease] *X-live* command (eg. Get X-live elapse)
 Position, Elapse Get, Set current session position/elapse time
 (can be in milliseconds or seconds (with decimal))

Setup commands

Playback	Get, set SD Playback options [SD-Card, USB-Interface]
SD-Card	Get, set active SD card [SD-1, SD-2]
SD-Recording	Get, set SD recording track options [32, 16, 8]
SD [card, recording]	same as above (SD-Card, SD-Recording)
Routing	Get, set Channel Routing options [Recording, Playback, Automatic]
Interface	Get, set USB interface options [32in/32out, 16in/16out, 32in/8out, 8in/32out, 8in/8out, 2in/2out]
USB-Interface	same as above (Interface)
Samplerate	Get, set sample rate [48K, 44.1K]

Marker commands

Add	Set X-Live add – adds a marker at current position
Save #	Set X-Live save # – saves marker #
Delete marker #	Set X-Live delete marker – deletes marker #
Selected marker #	Get active marker #, change to marker #
Marker Index #	Get, set marker index # [1-100]
Marker # Time	Get, set marker # time (eg. Get marker 2 time) (can be in milliseconds or seconds (with decimal))

Session commands

Delete session #	Set X-Live delete session – deletes session #
Selected session #	Get active session #, change to session #
Session Index #	Get, set session index # [1-100]
Session name	Get, set session name
Session span	Get, set session span option [no, 1 of 2, 2 of 2, jump]

Examples

Xlive record
 Xlive stop
 Xlive add marker
 Xlive clear messages
 Get X-live SD1 state
 Get Xlive elapse
 Set Xlive elapse to 13.56 sec
 Set Xlive marker 2 time to 6754 ms
 Set X-live format
 Set Xlive elapse 87655
 Set X-live marker 3 time to 150.56 sec
 Increase Xlive elapse by 35.45 sec

DP48 *(not for Wing)*

Provides access to the DP48 setup (in the Library section on the console).

Name

Get or change the group names

Command: Get DP48 name [1-12]
 Set DP48 name [1-12] to “name”

Get or change the group name scope

Command: Get DP48 name
 Set DP48 name
 Toggle DP48 name

Assignment (or assign)

Get or change the group assignment inputs

Command: Get DP48 assign [1-48]
 Set DP48 assign [1-48] to [1-12]

Get or change the group assignment scope

Command: Get DP48 assign
 Set DP48 assign
 Toggle DP48 assign

Level

Get or change the group level scope

Command: Get DP48 level
 Set DP48 level
 Toggle DP48 level

Pan

Get or change the group pan scope

Command: Get DP48 pan
 Set DP48 pan
 Toggle DP48 pan

Global Settings Commands

The **Global** settings commands provide control of all aspects on non scene (snapshot for X-Air) specific settings. These are found in the Setup section of the console.

Mixer: *(not for Wing)*

These settings include all mixer specific settings.

Name

denotes the name of the console

Example: Set global name to “My Xelent Mixer”

Sample (rate)

denotes the sample rate of the console – 44.1, 48

Example: Set global sample to 48

Safe (main levels)

enables/disables the safe main level – ON, OFF

Example: Set global safe on

Hard (Mutes)

enables/disables hard mutes – ON, OFF

Example: Set global hard mutes on

DCA (Groups)

enables/disables DCA Groups – ON, OFF

Example: Set global dca on

Channel (ON)

Switches between channel mutes and channel ON – ON, OFF

Example: Set global channel on

HA (link) – (Headamps can also be used)

enables/disables HA (or preamp) link – ON, OFF

Example: Set global ha on

EQ (link)

enables/disables EQ link – ON, OFF

Example: Set global eq on

Dynamic (or Dyn)

enables/disables dynamic link – ON, OFF

Example: Set global dyn on

Fader (or Mute)

Enables/disables fader, mute link – ON, OFF

Example: Set global fader on

X32 specific – the following are for the X32/M32 consoles only

Synchronization

Denotes the master clock source – Internal, AES50A, AES50B, CARD

Example: Set global sync to internal

Clock

Denotes the clock time on the console

Example: Set global clock to 9:38

Show (control)

Denotes the show control – Cues, Scenes, Snippets

Example: Set global show control to scenes

Panning (mode)

Denotes the panning mode of the mono bus – LR, LCR

Example: Set global panning to LCR

Scene (go next)

Enables/disables scene go next – ON, OFF

Example: Set global scene off

12h (or 12 hour)

Enables/disables 12 hour clock – ON, OFF

Example: Set global 12 hour on

M/C (or MC)

Enables/disables M/C depends on LR – ON, OFF

Example: Set global m/c on

X-Air specific – the following are for the X-Air/M-Air consoles only

Clock – Same as **Sample**

Example: Set global clock to 44.1

USB (interface)

Denotes the USB interface – 18, 2

Example: Set global usb to 18

Midi: ***(not for Wing)***

These settings include midi specific settings.

X32 specific – the following are for the X32/M32 consoles only

In/Out (or In-Out)

enables/disables the midi In/Out – ON, OFF

Example: Set global midi in-out off

Card

enables/disables the midi card – ON, OFF

Example: Set global midi card off

RTP

enables/disables the midi In/Out – ON, OFF

Example: Set global midi rtp off

Receive Program (change) (or RX Prog)

enables/disables the midi receive program change – ON, OFF

Example: Set global midi receive prog off

Receive Fader (position CC) (or RX Fader)

enables/disables the midi receive Fader position cc – ON, OFF

Example: Set global midi rx fader off

Receive Channel Mute (CC) (or RX Chan Mute)

enables/disables the midi receive channel mute cc – ON, OFF

Example: Set global midi rx chan mute off

Receive Channel Pan (CC) (or RX Chan Pan)

enables/disables the midi receive channel pan cc – ON, OFF

Example: Set global midi rx chan pan off

Receive OSC (over Midi) (or RX OSC)

enables/disables the midi receive OSC over midi – ON, OFF

Example: Set global midi rx OSC off

Transmit Program (change) (or TX Prog)

enables/disables the midi transmit program change – ON, OFF

Example: Set global midi transmit prog off

Transmit Fader (position CC) (or TX Fader)

enables/disables the midi transmit Fader position cc – ON, OFF

Example: Set global midi tx fader off

Transmit Channel Mute (CC) (or TX Chan Mute)

enables/disables the midi transmit channel mute cc – ON, OFF

Example: Set global midi tx chan mute off

Transmit Channel Pan (CC) (or TX Chan Pan)

enables/disables the midi transmit channel pan cc – ON, OFF

Example: Set global midi tx chan pan off

X-Air specific – the following are for the X-Air/M-Air consoles only

DIN Rx

enables/disables the midi receive on (DIN) jack – ON, OFF

Example: Set global midi din rx off

DIN Tx

enables/disables the midi transmit on (DIN) jack – ON, OFF

Example: Set global midi din tx on

DIN X-OSC

enables/disables the OSC via midi sysex on (DIN) jack – ON, OFF

Example: Set global midi din x-osc off

USB Rx

enables/disables the midi receive via USB – ON, OFF

Example: Set global midi usb rx off

USB Tx

enables/disables the midi transmit via USB – ON, OFF

Example: Set global midi usb tx on

USB/OSC (or USB-OSC)

enables/disables the OSC via USB – ON, OFF

Example: Set global midi usb-osc off

USB-DIN

enables/disables the USB DIN pass through – ON, OFF

Example: Set global midi usb-din off

X-Touch: *(not for Wing)*

These settings include X-Touch specific settings on the **X32/M32 only**.

X-Touch (over) midi

enables/disables the X-Touch midi communications – ON, OFF

Example: Set global x-touch midi off

X-Touch (over) ethernet

enables/disables the X-Touch ethernet communications – ON, OFF

Example: Set global x-touch ethernet on

Channel Strip Commands

The channel strip commands provides control of all aspects of the channel strip. Channels, mixbuses, Fx sends and returns, matrixes, main LR, and mono are examples of channel strips.

Types of Channel Strips:

The second tier (level) determines the channel strip type.

Ch, Chan, Channel

denotes the channel specific strips (X32/M32 = ch 1-32, X-Air/M-Air = ch 1-16)

Aux, Auxin

denotes the aux in strips (X32/M32 = aux 1-8, X-Air/M-Air = aux)

Fx, FxRtn, FxReturn

denotes the FX return strips (X32/M32 = fx 1-8, X-Air/M-Air = fx 1-4)

Bus, Mixbus

denotes the mixbus strips (X32/M32 = bus 1-16, X-Air/M-Air = bus 1-6)

Fxse, Fxsend

denotes the FX mixbus sends (X-Air/M-Air only = fxsend 1-4)

Mtx, Matrix

denotes the matrix strips (X32/M32 only = mtx 1-6)

LR, Main

denotes the main LR strip
The Wing has 4 mains (1-4)

MC, Mono

denotes the mono or MC strip (X32/M32 only)

DCA

denotes the DCA strip

Headamps, HA (not for Wing)

Denotes the headamps (gain and phantom). This is not a channel strip, but provides control of the headamp gain and phantom directly (equivalent to the Setup, preamps screen).

Values**Configuration Commands****Source**

denotes source setting type

(X32) OFF, IN01...32, AUX1...6, FX1L...FX4R, BUS01...16
 (X-Air) chan INP01...16, Line17, Line18, OFF
 (X-Air) aux INP01...16, Line17, Line18, OFF

Example: Set channel 2 source to IN06

Insource

denotes source setting type (X-Air only) – same as Source (above)

Retsource

denotes USB return source (X-Air only) (XR12, XR16) – U0102...1718
 (X18, XR18) – USB01...18

Example: Set channel 7 retsource to USB04

Return

denotes USB return (X-Air only)

Source - same as Source above
Trim - USB trim in db
Switch - Switch USB ON/OFF (and conversely the analog input)

Example: Increase channel 7 return trim by 10 db

Link

Links odd/even channel strips ON, OFF

Example: Set bus link 3-8 ON

Invert

Inverts channel input ON, OFF

Example: Toggle channel 7 invert

Insert

Turn channel strip insert ON, OFF

Selection – selects the insert

(X32) – OFF, FX1L...FX4R, AUX1...6

(X-Air) – OFF, FX1L...FX4R

(X-Air LR) – OFF, FX1...FX4

Position (X32 only) – PRE, POST

Example: Get channel 7 insert selection

Fader, Mutes, etc. Commands

Fader

Controls the fader in db

oo to 10

Example: Set channel 2-8 fader to -5 db
Decrease bus 2-4 fader by -10 db

Pan

Controls the pan

-100 to 100

Example: Set chan 7 pan to -10

Mute

Controls the mutes (opposite to ON)

ON, OFF

Example: Toggle channel 6-12 mute

ON

Controls the ON (opposite to Mute)

ON, OFF

Solo

Controls the solo

ON, OFF

Name

Scribble strip name (if name includes spaces, use quotes)

Example: Set channel 7-8 name to "Vocal Pete"

Icon

Scribble strip icon

1-74

Color

Scribble strip color

Off, Red, Green, Blue, Magenta, Cyan, White,
iOff, iRed, iGreen, iBlue, iMagenta, iCyan, iWhite

Mutegroup

determines mutegroup assignment

ON, OFF

Example: Set channel 7 mutegroup 3 on

DCA

Determines DCA group assignment

ON, OFF

Example: Set channel 7 DCA 4 on

Automix

determines Automix group and weight assignment

Group

Weight

OFF, X, Y

-12...12 db

Example: Set channel 7 automix group to X
Set chan 4 auto weight to -3 db

Command Gate

Turns the gate on/off

Example: Set channel 2-8 gate on
 Get chan 2-4 gate

On, Off

Determines the mode of the gate
Gate, Duck

Exp2, Exp3, Exp4,

Example: Set channel 2-8 gate mode to Exp4
 Get ch 2-4 gate mode

Adjustment of the threshold in db

Example: Set channel 2-8 gate threshold to -20 db
Increase channel 2-4 gate thr by 10 db

Adjustment of the range in db

Example: Set channel 2-8 gate range to 20 db
 Decrease channel 2-4 gate range by 10 db

Adjustment of the attack in ms

Example: Set channel 2-8 gate attack to 16 ms

Adjustment of the hold in ms

Example: Set channel 2-8 gate hold to 500 ms
 Decrease channel 2-4 gate hold by 10 db

Adjustment of the release in ms

Example: Set channel 2-8 gate release to 983 ms
 Decrease channel 2-4 gate rel by 10 db

Determines the keysource of the gate filter

(X32) OFF, IN01...32, AUX1...6, FX1L...FX4R, BUS01...16
(X-Air) SELF, CH01..16, BUS01-06

Example: Set channel 2-8 gate keysource to IN12

Values**Type**

Determines the type of the gate LC6, LC12, HC6, HC12, 1.0, 2.0, 3.0, 5.0, 10.0

Example: Set channel 2-8 gate type to HC12

Get channel 2-4 gate type

F, Frequency

Adjustment of the range filter frequency in hz

Example: Set channel 2-8 gate frequency to 1000 hz

Decrease channel 2-4 gate f by 200 hz

Flt, Filter

Turns the gate filter On/Off

ON, OFF

Example: Set channel 2-8 gate filter on

Get channel 2-4 gate filter

Headamps Commands

Command Headamp, HA

Gain

-12..60

Adjusts the channel gain

Example: Set channel 2-8 gain to 15 db

Get chan 2-4 gain

Phantom

Turns the phantom On/Off

ON, OFF

Example: Toggle channel 2-8 phantom

Set chan 2-4 phantom off

Note: Headamps can also be set directly, similar to using the Setup, preamps screen on the console.

Headamp Numbers:	X32	1-32	Local physical inputs
		33-80	AES50 A inputs
		81-128	AES50 B inputs
	X-Air	1-16	Local physical inputs

Example: Set headamps 17-32 gain to 15 db
 Increase headamps 25-32 gain by 10 db
 Toggle headamp 96-102 phantom

Dynamic (Compressor) Commands

Command	Dyn, Comp, Compressor	Values ON, OFF
	Turns the compressor on/off	
Example:	Set channel 2-8 compressor on Get chan 2-4 comp	
Mode	Determines compressor mode	COMP, EXP
Example:	Set channel 2-8 dyn mode to EXP Get ch 2-4 comp mode	
Det, Detector	Determines compressor detector	PEAK, RMS
Example:	Set channel 2-8 compressor detector to peak Get chan 2-4 comp det	
Env, Envelope	Determines compressor envelope (linear or logarithmic)	LIN, LOG
Example:	Set channel 2-8 compressor envelope to log Get chan 2-4 comp env	
Thr, Threshold	Adjustment of compressor threshold	-60 to 0 db
Example:	Set channel 2-8 comp threshold to -20 db Increase channel 2-4 dyn thr by 10 db	
Ratio	Determines compressor ratio	1.1, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0, 7.0, 10.0, 20.0, 100.0
Example:	Set channel 2-8 dyn ratio to EXP Get ch 2-4 comp ratio	
Knee	Determines the compressor knee	0 to 5
Example:	Set channel 2-8 compressor knee to 3 Decrease channel 2 comp knee by 2 Toggle ch 7-10 comp knee	
Gain	Determines the compressor make-up gain	0 to 24
Example:	Set channel 2-8 compressor gain to 5 db Decrease channel 2 comp gain by 2	
Mix	Determines the compressor mix (wet/dry)	0 to 100
Example:	Set channel 2-8 compressor mix to 75 % Decrease channel 2 comp mix by 10	

		Values
Auto		
Turns compressor auto on/off		ON, OFF
Example:	Set channel 2-8 compressor auto on Get chan 2-4 comp auto	
Att, Attack		
Adjustment of compressor attack in ms		0 to 120 ms
Example:	Set channel 2-8 compressor attack to 16 ms Increase channel 2-4 dyn att by 5 ms	
Hold		
Adjustment of compressor hold in ms		0.02 to 2000 ms
Example:	Set channel 2-8 comp hold to 500 ms Decrease channel 2-4 comp hold by 10 db	
Rel, Release		
Adjustment of compressor release in ms		5 to 4000 ms
Example:	Set channel 2-8 compressor release to 983 ms Decrease channel 2-4 dyn rel by 10 db	
Pos, Position		
Determines compressor position		PRE, POST
Example:	Set channel 2-8 compressor position to pre Get chan 2-4 comp pos	
Key, Keysource		
Determines compressor filter keysource		
(X32)	OFF, IN01...32, AUX1...6, FX1L...FX4R, BUS01...16	
(X-Air)	SELF, CH01..16, BUS01-06	
Example:	Set channel 2-8 comp keysource to IN12 Get channel 2-4 dyn key	
Type		
Determines compressor filter type		LC6, LC12, HC6, HC12, 1.0, 2.0, 3.0, 5.0, 10.0
Example:	Set channel 2-8 compressor type to HC12 Get channel 2-4 dyn type	
F, Frequency		
Adjustment of the compressor range filter frequency in hz		20 to 20000 hz
Example:	Set channel 2-8 comp freq to 1000 hz Decrease channel 2-4 dyn f by 200 hz	
Flt, Filter		
Turns the compressor filter On/Off		ON, OFF
Example:	Set channel 2-8 comp filter on Get channel 2-4 dyn filter	

EQ Commands**Values****Command EQ**

ON, OFF

Turns the EQ on/off

Example: Set channel 2-8 eq on
Get chan 2-4 eq

Mode

Determines the EQ mode (X-Air only)

PEQ, GEQ, TEQ

Example: Set channel 2-8 eq mode to peq
Get ch 4 eq mode

Low, Lowcut

Determines the EQ low cut

OFF, ON

F, Frequency

20 to 400 hz

Example: Set channel 7 eq lowcut on
Set chan 4 eq low frequency to 140 hz

PEQ Commands**Command PEQ, Parametric****Type**

Determines the PEQ type

(X-Air)

LCUT, LSHV, PEQ, VEQ, HSHV, HCUT

(X32 mtx, LR)

LCUT, LSHV, PEQ, VEQ, HSHV, HCUT, BU6,
BU12, BS12, LR12, BU18, BU24, BS24, LE24

Example: Set channel 2-8 parametric 2 type to VEQ
Get channel 2-4 peq 3 type

F, Frequency

Adjustment of the PEQ frequency in hz

20 to 20000

Example: Set channel 2-8 peq 1 freq to 1000 hz
Decrease channel 2 peq f by 200 hz

G, Gain

Adjustment of the PEQ gain in db

-15 to 15

Example: Set channel 2-8 peq 1 gain to -5 db
Decrease channel 2 peq g by 5 db

Q, Quality

Adjustment of the PEQ Q

10 to 0.3

Example: Set channel 2-8 peq 1 qual to 3
Decrease channel 2 peq q by 2

Channel Output Commands**Values****Command** Main, LR, ST, M, Mono**Main, LR, ST**

Turns the Main LR on/off

ON, OFF

Example: Set channel 2-8 LR on
Get chan 2-4 main

M, Mono

Determines the mono send (X32 only)

ON, OFF

Fader, Level

-90 to 10 db

Example: Set channel 7 mono on
Set chan 4-8 m level to -3 db

Sends Commands**Command** Send, Sends**ON, OFF**

Turns the channel sends on/off (X32 only)

Example: Set channel 2-8 send 4 on
Get chan 2-4 sends 3-6

Fader

Controls the sends fader in db

-90 to 10

Example: Set channel 2-8 sends 3-6 fader to -5 db
Decrease chan 6 send 2 fader by -10 db

Pan

Controls the pan

-100 to 100

Example: Set channel 2-8 sends 3-6 pan to -30 %
Decrease chan 6 send 2 pan by -10 %

Mute

Controls the mutes (X32 only)

ON, OFF

Example: Toggle channel 6-12 send 11 mute

Tap

Channel sends tap

INPUT, PREEQ, POSTEQ, PREFADER, POSTFADER, GROUP

Example: Set channel 2-8 sends 2 tap to posteq
Get channel 2-4 snds 3 tap

Fx Commands

The Fx commands provides control of all aspects of the Fx section. Each command references the slot number, then the styles or settings commands. They utilize all of the Tier1 commands (where applicable), such as Get, Set, Toggle, Increase, Decrease, etc.

FX Source

The source command gets or sets the Fx left or right source.

Examples: Get Fx 2 left source
 Set Fx 3 right source to bus 13

Fx Styles

The Styles command gets or sets the Fx by name.

The following are the English equivalent words of styles available.

****Note**** The full Fx name can be used if desired.

Hall	Ambience	Rich	Room
Chamber	Plate	Vintage Reverb	Vintage Room
Gated	Reverse	3 Tap	Rhythm
Dimensional	Mood	Rotary	Tremola
Suboctaver	Chorus	Flanger	Modulation
Wave	Precision	M/S	Edison
Sound			
Delay			
Chamber	Chorus	Flanger	
Dual			
Graphics	TruEq	Deesser	Eq1
Eq5	Xtec Eq1	Xtec Eq5	Combinator
Fair	Leisure	Ultimo	Enhancer
Exciter	Guitar	Tube	Pitch
Stereo			
Delay	Chorus	Flanger	Phaser
Graphics	TruEq	Deesser	Eq1
Eq5	Xtec Eq1	Xtec Eq5	Combinator
Fair	Leisure	Ultimo	Enhancer
Exciter	Image	Guitar	Tube
Pitch			

Examples: Get Fx 2 style
 Set Fx 3 style to stereo delay
 Set Fx 7 to stereo trueq
 Set Fx 1 to plate

Fx Settings

There are a number of settings for each Fx styles. Please refer to the X32, M32, X-Air, M-Air, or Patrick's manuals for details of which settings apply to which FX styles.

Here is the list of English equivalent setting words.

* Words are not case sensitive

* Each word can be shortened up to the first 4 letters (eg. accelerate => acce).

* Left and Right can be shortened to L and R

4 pole	accelerate	active	active a
active b	attack	attack a	attack b
attenuate	attenuate a	attenuate b	auto gain
balance	base	bass	bassmulti
bass multi	cross feed	crossover	crossover a
crossover b	damping	decay	delay
delay left	delay right	density	depth
depth left	depth right	diffuse	direct a
direct b	distance	drive	dry
echo left	echo right	echo feed left	echo feed right
env	env speed	env depth	er level
er left	er right	eq	eq a
eq b	factor left	factor right	factor a
factor b	factor c	fast	feed lo
feed hi	feed left	feed right	freeze
gain	gain base	gain a	gain b
hold	input gain	knee	level
mid cut	mid cut a	mid cut b	mid frequency
mid frequency a	mid frequency b	mix	mod
mod dep	mod speed	mode	modulate
mono	oct1 a	oct1 b	oct2 a
oct2 b	off	offset	on
output	pan base	pan a	pan b
pattern	phase	predelay	position
range a	range b	rate	reflection left
reflection right	reflection gain left	reflection gain right	release
resonance	reverb delay	rise	setup
shape	side chain	size	slow
speed	spin	spread	squeeze
stages	stereo	stop	sustain
tail	time	transformer	transformer a
transformer b	type	vintage	voice a
voice b	wave	width	xfeed
xover a	xover b		

* Hi and Lo have the following sub-settings

attenuation a	attenuation b	band	band a
band b	band left	band right	boost
boost a	boost b	cut	frequency a
frequency b	multiply	speed	

* Hi also has these additional sub-settings

damping	shelf frequency	shelf gain
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Examples:

Get fx 2 decay
Set fx 4 on
Set fx 3 lo cut to 300 hz
Set fx 7 eq 200 to -5 db
Set fx 8 eq a 200 to 3 db
Set fx 8 eq b 6k5 to -4 db
Toggle fx 3 mono

X-Air Routing Commands

	Values
<i>Input Commands</i>	
Command	Analog, Input, USB
Analog, Input	
Assigns channel(s) 1-16 to inputs 1-18 (or off)	1-18, off
Examples:	Set routing of channels 2-5 to input 4 Set rout chan 17 input 17 Get routing chan 2-4 analog
USB	
Assigns channel(s) 1-16, Aux, Fx1, Fx2, Fx3, Fx4 to USB (but does not switch from analog to USB)	1-18
Examples:	Set routing of channel 2-5 usb to 4 Set rout Fx3 17 usb 17 Get routing chan 2-4 usb
<i>USB Sends Commands</i>	
USB, USB Sends	
Assigns to USB send(s) 1-18	Ch 1-16, Aux L, Aux R, Fx1L-Fx4R, Bus 1-6, Fx 1-4, Main L, Main R
Taps:	AIN, AIN+M, IN, IN+M, PREEQ, PREEQ+M, POSTEQ, POSTEQ+M, PRE, PRE+M, POST
Examples:	Set routing of USB 2-5 to ch4 Set rout usb sends 10 Fx2 tap PreEQ+M Get routing usb 2-4
<i>Ultraset Commands</i>	
Ultra, Ultraset, P16	
Assigns to Ultraset 1-16	Ch 1-16, Aux L, Aux R, Fx1L-Fx4R, Bus 1-6, Fx 1-4, Main L, Main R
USB 1-18	
Taps:	AIN, AIN+M, IN, IN+M, PREEQ, PREEQ+M, POSTEQ, POSTEQ+M, PRE, PRE+M, POST
Examples:	Set routing of Ultra 2-5 to ch4 Set rout P16 10 Fx2 tap PreEQ+M Get routing ultraset 2-4

Aux Out Commands

Aux, Aux Out

Assigns to Aux Out 1-6

Ch 1-16, Aux L, Aux R, Fx1L-Fx4R, Bus 1-6,
Fx 1-4, Main L, Main R,

USB 1-18

Taps:

AIN, AIN+M, IN, IN+M, PREEQ, PREEQ+M,
POSTEQ, POSTEQ+M, PRE, PRE+M, POST

Examples:

Set routing of Aux Out 2-5 to ch4
Set rout Aux Fx2 tap PreEQ+M
Get routing Aux 2-4

Main LR, Phones Commands

Main, LR

Assigns to Main LR

Main, Mon, USB 1/2, USB 3/4, USB 5/6,
USB 7/8, USB 9/10, USB 11/12, USB 13/14,
USB 15/16, USB 17,18

Examples:

Set routing of Main to USB 3/4
Set rout LR to Mon
Get routing of LR

Phone

Assigns to headphones

Main, Mon, USB 1/2, USB 3/4, USB 5/6,
USB 7/8, USB 9/10, USB 11/12,
USB 13/14, USB 15/16, USB 17/18

Examples:

Set routing of phones to LR
Set rout phon USB 13/14
Get routing phones

X32 Routing Commands

Input Routing

Command Inputs 1-8, 9-16, 17-24, 25-32

Source: Local 1-8, 9-16, 17-24, 25-32
 AES50 A1-8, A9-16, A17-24, A25-32
 AES50 B1-8, B9-16, B17-24, B25-32
 Card 1-8, 9-16, 17-24, 25-32
 User In 1-8, 9-16, 17-24, 25-32, 33-40, 41-48

Examples: Set routing of inputs 1-8 to local 9-16
 set rout input 9- aes50 b9-
 get routing inputs 25-32

X-Live Playback Input Routing

Command Playback 1-8, 9-16, 17-24, 25-32

Source: Local 1-8, 9-16, 17-24, 25-32
 AES50 A1-8, A9-16, A17-24, A25-32
 AES50 B1-8, B9-16, B17-24, B25-32
 Card 1-8, 9-16, 17-24, 25-32
 User In 1-8, 9-16, 17-24, 25-32, 33-40, 41-48

Examples: Set routing of playback 1-8 to local 9-16
 set rout play 9- aes50 b9-16
 get routing playback 25-32

Aux IN Remap Routing

Command AuxIn, Aux In, AuxIn Remap, or Aux In Remap

Source: Aux Ins (or Aux)
 Local 1-2, 1-4, 1-6
 AES50 A1-2, A1-4, A1-6
 AES50 B1-2, B1-4, B1-6
 Card 1-2, 1-4, 1-6
 User In 1-2, 1-4, 1-6

Examples: Set routing of auxin remap to local 1-6
 set rout auxin b1-4
 get routing auxin

Output Staging Routing

Command	Output Aux Out 1-6 (or AuxOut), Ultranet (or P16), AES/EBU (or AES), USB (USB recorder inputs)
Source:	Off (or Insert for Aux Out) Main L, Main R, MC (or L, R, M/C) Mixbus 1-16 (or bus 1-16) Matrix 1-6 (or mtx 1-6) Direct Out Channels 1-32 (or DirOut Chan 1-32) Direct Out Aux 1-6 (or DirOut Aux 1-6) Direct Out Effects 1L, 1R, 2L, 2R, 2L, 3R, 4L, 4R (or DirOut Fx) Monitor L, R (or mon l, r) Talkback (or tb)
Tap:	In, In+M, PreEQ, PreEQ+M, PostEQ, PostEQ+M, Pre, Pre+M, Post
Invert:	Off, On
Examples:	Set routing of output 2 source to matrix 4 tap PreEQ+M set rout p16 4 source dirout chan 15 set routing USB tap to Post get routing auxout 4 source
Command	User In (or userin, user input)
Source:	Local 1-8, 9-16, 17-24, 25-32 AES50 A1-8, A9-16, A17-24, A25-32 AES50 B1-8, B9-16, B17-24, B25-32 Card 1-8, 9-16, 17-24, 25-32 Aux In 1-6 Talkback A, B (or tb)
Command	User Out (or userout, user output)
Source:	Local 1-8, 9-16, 17-24, 25-32 AES50 A1-8, A9-16, A17-24, A25-32 AES50 B1-8, B9-16, B17-24, B25-32 Card 1-8, 9-16, 17-24, 25-32 Aux In 1-6 Talkback A, B (or tb)

Output Block Routing

Command Card 1-8, 9-16, 17-24, 25-32 (or card out)
AES50 A1-8, A9-16, A17-24, A25-32, A33-40, A41-48,
AES50 B1-8, B9-16, B17-24, B25-32, B33-40, B41-48,

Source: Local 1-8, 9-16, 17-24, 25-32 (or analog)
AES50 A1-8, A9-16, A17-24, A25-32, A33-40, A41-48
AES50 B1-8, B9-16, B17-24, B25-32, B33-40, B41-48
Card 1-8, 9-16, 17-24, 25-32
Out 1-8, 9-16
P16 1-8, 9-16 (or ultranet)
AuxIn, AuxOut
User In 1-8, 9-16, 17-24, 25-32, 33-40, 41-48
User Out 1-8, 9-16, 17-24, 25-32, 33-40, 41-48

Command XLR 1-4, 9-12, (or xlr out)

Source: Local 1-4, 9-12, 17-20, 25-28 (or analog)
AES50 A1-4, A9-12, A17-20, A25-28, A33-36, A41-44
AES50 B1-4, B9-12, B17-20, B25-38, B33-36, B41-44
Card 1-4, 9-12, 17-20, 25-28
Out 1-4, 9-12
P16 1-4, 9-12 (or ultranet)
AuxIn1-4, AuxOut1-4
User In 1-4, 9-12, 17-20, 25-28, 33-36, 41-44
User Out 1-4, 9-12, 17-20, 25-28, 33-36, 41-44

Command	XLR 5-8, 13-16, (or xlr out)
Source:	Local 5-8, 13-16, 21-24, 29-32 (or analog) AES50 A5-8, A13-16, A21-24, A29-32, A37-40, A45-48 AES50 B5-8, B13-16, B21-24, B29-32, B37-40, B45-48 Card 5-8, 13-16, 21-24, 29-32 Out 5-8, 13-16 P16 5-8, 13-16 (or ultranet) AuxIn, AuxOut User In 5-8, 13-16, 21-24, 29-32, 37-40, 45-48 User Out 5-8, 13-16, 21-24, 29-32, 37-40, 45-48
Tap:	In, In+M, PreEQ, PreEQ+M, PostEQ, PostEQ+M, Pre, Pre+M, Post
Examples:	Set routing of card 1-8 source to local 1-8 tap PreEQ+M set rout AES50 A1-8 source card 1-8 set routing XLR 5-8 tap to Post get routing AES50 A33-40 source

Output Delay

Command	Output delay
Values:	On, Off 0.3 - 500 ms (or milliseconds) 0.1 - 171.5 m (or meters) 0.3 - 562.7 ft (or feet)
Examples:	Set routing of output 2 delay to 45.7 ft set rout output 12 delay on set routing output 7 delay 200 ms get routing output 4 delay get routing of output 4 delay in feet toggle routing output delay increase routing output delay by 50 m decrease routing output delay by 15 feet

iQ Setup

Command	iQ
Group	Off, A, B
Speaker:	none, iQ8, iQ10, iQ12, iQ15, iQ15b, iQ18b
EQ:	Linear, Live, Speech, Playback, User
Modeling:	<p>This depends on the speaker chosen</p> <p>iQ8: iQ8, E8, F8+, UPJunior, PS8, NuQ8-DP</p> <p>iQ10: iQ10, F10+, UPJ-1P, PS10-R2, NuQ10-DP</p> <p>iQ12: iQ12, E12, JF29NT, ELX112P, PRX612M, F12+, UPA-1P, NuQ12-DP</p> <p>iQ15: iQ15, JF59NT, ELX115P, PRX615M, F15+, UPQ-1P, PS15-R2, NuQ15-DP</p> <p>iQ15B: iQ15B, E15X, S15+, B-15DP</p> <p>iQ18B: iQ18B, ELX18P, PRX6118S, S18+, B-18DP</p>
Examples:	<p>Set routing iQ speaker to iq10</p> <p>Set routing of iQ modeling to PS10-R2</p> <p>set rout iq eq speech</p> <p>set routing iQ group off</p> <p>get routing iQ speaker</p>

Legacy Tidbit Commands

In addition to the OSC commands available, there are other commands that enhance the capabilities of tidbits. # a number

[] set of sub values

<> optional values.

Timing commands

(# in milliseconds):

Delay #

This changes the current delay between OSC commands. For example, `Delay 35` will change the delay to 35 milliseconds. This is primarily used to ensure requested current state is paired with the OSC server response.

FadeDelay #

Delays time between fade steps (10 steps per second)

Default is 90 ms

Increase if total fade time is short

Example: Set FadeDelay to 92 ms

Buffer # ** Deprecated ** Use FadeDelay command instead

Pause #

This pauses the tidbit between (tidbit) commands. For example, `Pause 2000` will pause the tidbit processing for 2 seconds.

Connection commands

Connects, searches or disconnect to/from console

Connect <IP> <Port>

Connect to console of IP address

- if no IP or Port, it functions as Search

- port 10023 is default

Search <Port>

Search for console and connect

- port 10023 is default

Disconnect

Disconnect from the console

Store

Sends OSC command(s) to the X32 requesting current state
Stores the response(s) in a list. Subsequent store commands adds to that list.
Total of 10 stores (0..9) are available

Store #

Clear store # command list

Store # osc

Stores current state of X32 of osc command.

Example: `Store 1 /ch/05/config/name`

Store # osc #-#

Stores current state, substituting any #, ## or ### with range values.

Store # network

Stores network OSC cmds to Store #.

Store # global

Stores global OSC cmds to Store #

Store # config

Stores config OSC cmds to Store #

Store # remote

Stores remote OSC cmds to Store #

Store # misc

Stores misc (everything else) OSC cmds to Store #

Store # allconfig

Stores all console config OSC cmds to Store #

Example: `Store 1 allconfig`

Recall

Sends the OSC command(s) from the store area # to the X32.

Recall #

Recalls what is in Store #

Recall # ReplStr

Recalls what is in Store #, substitutes ReplStr

Recall # ReplStr #-#

Recalls what is in Store #, substitutes ReplStr over a range

ReplStr with # or ## as wildcards (eg `/ch/##/config`)

ReplStr with * - copies same character from original

(eg `/**/##/config`)

Recall # tid fname

Saves response list in Store # to a tidbit file

Recall # snip fname

Saves response list in Store # to a snippet file

Reset

Resets levels in proportion to changes from stored levels.

- Store levels (eg. Store 1 /headamp/000/gain), then make changes to the settings (eg change first input gain), then reset (eg. Reset 1 gate)
- Reset has both standard (eg. gate) and inverse (eg igate) results.
- Reset # gain (and igain) – store fader levels.
- All others – store gain levels.

Reset # gain/igain

Resets gain levels

Reset # gate/igate

Resets gate threshold

Reset # comp/icom

Resets compressor threshold

Reset # bus/ibus #-#

Resets channel send levels to mixbus(s)

Reset # fx/afx #-#

Resets channel send levels to fx send(s)

Launch

Launches cues, scenes, snippets stored in X32, or tidbit file

Launch cue #

Launch a cue.

Launch scene #

Launch a scene.

Launch snippet #

Launch a snippet.

Launch tidbit #

Launch a tidbit from the tidbit list.

Launch tidbit [fname]

Launches a tidbit file [fname]

Load

Loads scenes, snippets, or channel, effects, routing presets stored in X32

Load scene #

Load a scene.

Load snippet #

Load a snippet.

Load channel # # #

Load a channel preset #, to ch #, recall scope #.

Load effect # #

Load an effect preset #, to slot #.

Load routing #

Load a routing preset #.

Go

Same as selecting the Go button on the console

[cmd]

First	go to the first on the list
previous	go to the previous on the list
next	go to the next on the list
current	reload the current one

Go cue [cmd]

Go to a cue stored in the X32.

Go scene [cmd]

Go to a scene stored in the X32.

Go snippet [cmd]

Go to a snippet stored in the X32.

Go default [cmd]

Go to whatever is the show control default.

Go tidbit [cmd]

Go to a tidbit (in the tidbit list)

TapTempo

Set a delay Fx tempo

TapTempo slot#

Assign to a custom button to set Fx tempo (slot#)

TapTempo slot# #

Set an Fx tempo (slot#) in # beats/min (bpm)

Save

Save scenes, snippets, or channel, effects, routing presets stored in X32

<> denotes optional value.

* can denote current value (only for scene and snippet).

Save scene <#> <name> <note>

Save a scene (blank or * for current).

Save snippet <#> <name>

Save a snippet (blank or * for current).

Examples:

Save scene Saves current scene with current title

Save scene * "New Title" Save current scene with "New Title"

Save scene 20 * "New Note" Save scene to #20 with current title
and "New Note"

Save snippet Saves current snippet with current title

Save snippet * "New Title" Saves current snippet with "New Title"

Save channel # name

Save a channel # as "name" to preset #.

Save effect # name

Save an effect slot # as "name" to preset #.

Save routing # name

Save a routing as "name" to preset #.

Fade

Fades type (ch,bus,dca, etc) over a period of time (sec)

Note: If NewFade is off, the syntax is

Fade type # <sec> <destvalue> (to be compatible with the older Fade command).

Example: Fade chan 10-14 7 -25

Fade type # <destvalue> <sec>

Fade a type to a value (db) over time (sec)

Example: Fade chan 6 -30 8

Fade type #-# <destvalue> <sec>

Fade a type range over time to a value

defaults: time=5 sec, destvalue=-90db (-144 for Wing)

types: ch, auxin, fxret, bus, lr, mono, mtX, dca

Example: Fade bus 2-5 0 5

XFade

Cross Fades type (ch,bus,dca, etc) over a period of time (sec)

Fade a type over time (sec) to a value (db)

XFade upType #<-#> destValue dnType #<-#> destValue <Sec>

upType, dnType chan, bus, matrix, dca, etc

#<-#>	single or range
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destValue	db value - 00 or -90 is off
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Sec	time in seconds
1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64
9	81
10	100

Example: XFade chan 2-6 0 chan 7-11 -25 8

Wave

Produce a wave using faders for a period of time (sec)

Fade a type over time (sec) to a value (db)

Wave pfaders tfaders tsec

pfaders: physical faders available

tfaders: total faders for complete sine wave

tsec: total time elapse of the wave (sec)

Update

Updates a range of scenes using a snippet, preset or tidbit.

Updates a range of snapshots using a tidbit file.

Update snippet # #-#

Using snippet #, update scenes #-#

Update channel # #-#

Using channel preset #, update scenes #-#

Update effects # #-#

Using effects preset #, update scenes #-#

Update fx # #-#

Using effects preset #, update scenes #-#

Update routing # #-#

Using routing preset #, update scenes #-#

Update tidbit [Fname] #-#

Using tidbit [filename], update scenes #-#

Note: Only the first character of the second parameter is checked.

So an update command could be:

Update snip 15 7-20 (update scenes 7-20 using snippet 15)

Update f 7 3-8 (update scenes 3-8 using fx preset 7)

Examples

The following are some examples that will hopefully show the usefulness and power of these English and tidbit commands to control and manage the Music Group consoles in a new approach. These examples can be sent from Live Toolbox, MX Live Terminal, or LT_Command as individual commands or combined in a tidbit.

Clear channel 9-16 scribble strips

Connect

Set channel 9-16 name to "Paul Vox"

Set channel 9-16 color to white

Set channel 9-16 icon to 1

Transfer channel 1-8, 12, 14 scribble strips from one console to another

Connect 192.168.10.110

Store 1

Store 1 /ch/###/config/name 1-8,12,14

Store 1 /ch/###/config/color 1-8,12,14

Store 1 /ch/###/config/icon 1-8,12,14

Connect 192.168.10.120

Recall 1