

WFS OSC

default receive port: UDP 8051 / TCP 8052
default send port: UDP 8050

get: sends back once the requested value(s)
stream : streams continuously the requested value(s)

CONFIG

/wfs/config/stageWidth [f] 0~50 m
/wfs/config/stageDepth [f] 0~50 m
/wfs/config/stageHeight [f] 0~50 m
/wfs/config/stageDimensions [f] [f] [f] 0~50 m
/wfs/config/originWidth [f] -50~50 m
/wfs/config/originDepth [f] -50~50 m
/wfs/config/originHeight [f] -50~50 m
/wfs/config/originPosition [f] [f] [f] -50~50 m
/wfs/config/flipX [0/1]
/wfs/config/flipY [0/1]
/wfs/config/flipZ [0/1]
/wfs/config/flipXYZ [0/1] [0/1] [0/1]
/wfs/config/speedOfSound [f] 325~367 m/s
/wfs/config/temperature [f] -10~60 °C
/wfs/config/HaasEffect [f] 0~20 ms
/wfs/config/systemLatency [f] 0~20 ms
/wfs/config/masterLevel [f] -90~0 dB
/wfs/config/OSCHost [i i i i] (configures the destination IP where to send OSC from WFS system)
/wfs/config/OSCHost/confirmHost
/wfs/config/OSCport [i] (configures the destination port where to send OSC from WFS system)
/wfs/config/OSCport/confirmPort
/wfs/config/lemurSM [i i] (lemur#: 0: single/1: multi)
/wfs/config/lemurSM [i i i i i i i i] (0: single/1: multi)

/wfs/config/get/all
/wfs/config/get/stageWidth
/wfs/config/get/stageDepth
/wfs/config/get/stageHeight
/wfs/config/get/stageDimensions
/wfs/config/get/originWidth
/wfs/config/get/originDepth
/wfs/config/get/originHeight
/wfs/config/get/originPosition
/wfs/config/get/flipX
/wfs/config/get/flipY
/wfs/config/get/flipZ
/wfs/config/get/flipXYZ
/wfs/config/get/speedOfSound
/wfs/config/get/temperature
/wfs/config/get/HaasEffect
/wfs/config/get/globalLatency

/wfs/config/get/masterLevel
/wfs/config/get/lemurSM

TRACKING

/wfs/tracking/trackingMode [i] (0: OFF/1: OSC/2: PSN)
/wfs/tracking/trackingActive [0/1]
/wfs/tracking/trackingSmoothing [i] 0~100 %
/wfs/tracking/trackingOffsetX [f] -50~50 m
/wfs/tracking/trackingOffsetY [f] -50~50 m
/wfs/tracking/trackingOffsetZ [f] -50~50 m
/wfs/tracking/trackingScaleX [f] -50~50
/wfs/tracking/trackingScaleY [f] -50~50
/wfs/tracking/trackingScaleZ [f] -50~50
/wfs/tracking/positionXYZ [i f f f (f)] Tag ID, X Y Z values (optional quality factor of measurement)

/wfs/tracking/get/all
/wfs/tracking/get/trackingMode
/wfs/tracking/get/trackingActive
/wfs/tracking/get/trackingSmoothing
/wfs/tracking/get/trackingOffsetX
/wfs/tracking/get/trackingOffsetY
/wfs/tracking/get/trackingOffsetZ
/wfs/tracking/get/trackingScaleX
/wfs/tracking/get/trackingScaleY
/wfs/tracking/get/trackingScaleZ

NAMES

/wfs/names/input/label [i] [string]
/wfs/names/input/reset [i]
/wfs/names/output/label [i] [string]
/wfs/names/output/reset [i]
/wfs/names/reverb/label [i] [string]
/wfs/names/reverb/reset [i]
/wfs/names/fx/label [i] [string]
/wfs/names/fx/reset [i]

/wfs/names/input/get all
/wfs/names/input/get [i]
/wfs/names/output/get all
/wfs/names/output/get [i]
/wfs/names/reverb/get all
/wfs/names/reverb/get [i]
/wfs/names/fx/get all
/wfs/names/fx/get [i]

SNAPSHOTS

/wfs/saveLoad/snapshot/store [string: date_time]

/wfs/saveLoad/snapshot/recall [string: date_time]

OUTPUTS

/wfs/selectIO/output [i]

/wfs/output/#/delayLatency [f] -100~100 ms (delay >0 / latency compensation <0)
/wfs/output/#/latency [f] -100~100 ms (latency compensation >0 / delay <0)
deprecated/for compatibility
/wfs/output/#/attenuation [f] -92~0 dB
/wfs/output/#/positionX [f] -50~50 m
/wfs/output/#/positionY [f] -50~50 m
/wfs/output/#/positionZ [f] -50~50 m
/wfs/output/#/positionXYZ [f] [f] [f] -50~50 m
/wfs/output/#/orientation [i] -180~180 °
/wfs/output/#/angleOn [i] 1~180 °
/wfs/output/#/angleOff [i] 0~179 °
/wfs/output/#/pitch [i] -90~90 °
/wfs/output/#/HFDamping [f] -6~0 dB/m
/wfs/output/#/group [i] 0: off / 1~5 / 6: reverb feeds
/wfs/output/#/apply2group [0/1]
/wfs/output/#/miniLatencyEnable [0/1]
/wfs/output/#/liveSourceEnable [0/1]
/wfs/output/#/distanceAttenuationPercent [i] 0~200 %
/wfs/output/#/Hparralax [f] 0~50 m
/wfs/output/#/Vparralax [f] -50~50 m (>0 speaker below listener / <0 speaker above listener)
/wfs/output/#/filter [i] (0:off 1:Lo-cut 200Hz 2:Lo-cut 60Hz 3: Lo-pass 100Hz)
/wfs/output/#/eq [i] [f] [f] [f] [f] x6 for each 6 bands of mode, freq in Hz, gain in dB, Q or slope > 24 parameters
/wfs/output/#/eq/band [i] [i] [f] [f] [f] [f] band#, mode, 20~20000 Hz, -24~24 dB, 0.1~30 (Q or slope)
/wfs/output/#/eq/mode [i] [i] band#, mode (0:off 1:low cut 2:high cut 3:low shelf 4:high shelf 5:peak/notch 6:all-pass)
/wfs/output/#/eq/freq [i] [f] band#, 20~20000 Hz
/wfs/output/#/eq/gain [i] [f] band#, -24~24 dB
/wfs/output/#/eq/Q [i] [f] band#, 0.1~30 (Q or slope)
/wfs/output/#/eq/slope [i] [f] band#, 0.1~30 (Q or slope)

/wfs/output/#/get/all
/wfs/output/#/get/delayLatency
/wfs/output/#/get/attenuation
/wfs/output/#/get/positionX
/wfs/output/#/get/positionY
/wfs/output/#/get/positionZ
/wfs/output/#/get/positionXYZ
/wfs/output/#/get/orientation
/wfs/output/#/get/angleOn
/wfs/output/#/get/angleOff
/wfs/output/#/get/pitch
/wfs/output/#/get/HFDamping
/wfs/output/#/get/group

/wfs/output/#/get/apply2group
/wfs/output/#/get/miniLatencyEnable
/wfs/output/#/get/liveSourceEnable
/wfs/output/#/get/distanceAttenuationPercent
/wfs/output/#/get/Hparralax
/wfs/output/#/get/Vparralax
/wfs/output/#/get/filter
/wfs/output/#/get/eq

REVERBS

/wfs/reverbFeed/#/delayLatency [f] -100~100 ms (delay >0 / latency compensation <0)
/wfs/reverbFeed/#/latency [f] -100~100 ms (latency compensation >0 / delay <0)
deprecated/for compatibility
/wfs/reverbFeed/#/attenuation [f] -92~0 dB
/wfs/reverbFeed/#/positionX [f] -50~50 m
/wfs/reverbFeed/#/positionY [f] -50~50 m
/wfs/reverbFeed/#/positionZ [f] -50~50 m
/wfs/reverbFeed/#/positionXYZ [f] [f] [f] -50~50 m
/wfs/reverbFeed/#/orientation [i] -180~180 °
/wfs/reverbFeed/#/angleOn [i] 1~180 °
/wfs/reverbFeed/#/angleOff [i] 0~179 °
/wfs/reverbFeed/#/pitch [i] -90~90 °
/wfs/reverbFeed/#/HFDamping [f] -6~0 dB/m
/wfs/reverbFeed/#/miniLatencyEnable [0/1]
/wfs/reverbFeed/#/distanceAttenuationPercent [i] 0~200 %

/wfs/reverbFeed/#/get/all
/wfs/reverbFeed/#/get/delayLatency
/wfs/reverbFeed/#/get/attenuation
/wfs/reverbFeed/#/get/positionX
/wfs/reverbFeed/#/get/positionY
/wfs/reverbFeed/#/get/positionZ
/wfs/reverbFeed/#/get/positionXYZ
/wfs/reverbFeed/#/get/orientation
/wfs/reverbFeed/#/get/angleOn
/wfs/reverbFeed/#/get/angleOff
/wfs/reverbFeed/#/get/pitch
/wfs/reverbFeed/#/get/HFDamping
/wfs/reverbFeed/#/get/miniLatencyEnable
/wfs/reverbFeed/#/get/distanceAttenuationPercent

/wfs/reverbReturn/#/delayLatency [f] -100~100 ms (delay >0 / latency compensation <0)
/wfs/reverbReturn/#/delayLatency [f] -100~100 ms (latency compensation >0 / delay <0) *deprecated/for compatibility*
/wfs/reverbReturn/#/attenuation [f] -92~0 dB
/wfs/reverbReturn/#/curvature [0/1]
/wfs/reverbReturn/#/positionX [f] -50~50 m
/wfs/reverbReturn/#/positionY [f] -50~50 m
/wfs/reverbReturn/#/positionZ [f] -50~50 m
/wfs/reverbReturn/#/positionXYZ [f] [f] [f] -50~50 m

```
/wfs/reverbReturn/#/heightFactor [i] 0~100 %  
/wfs/reverbReturn/#/distanceAttenuation [f] -6~0 dB/m  
/wfs/reverbReturn/#/directivity [i] 2~360 °  
/wfs/reverbReturn/#/rotation [i] -180~180 °  
/wfs/reverbReturn/#/tilt [i] -90~90 °  
/wfs/reverbReturn/#/HFshelf [f] -24~0 dB  
/wfs/reverbReturn/#/mutes [i_list]
```

```
/wfs/reverbReturn/#/muteMacro [i]  
1: mute all, 2: unmute all,  
3: invert,  
4: odd channels, 5: even channels,  
6: first half, 7: second half,  
8: mute output group 1, 9: mute output group 1,  
10: mute output group 2, 11: mute output group 2,  
12: mute output group 3, 13: mute output group 3,  
14: mute output group 4, 15: mute output group 4,  
16: mute output group 5, 17: mute output group 5
```

```
/wfs/reverbReturn/#/get/all  
/wfs/reverbReturn/#/get/delayLatency  
/wfs/reverbReturn/#/get/attenuation  
/wfs/reverbReturn/#/get/curvature  
/wfs/reverbReturn/#/get/positionX  
/wfs/reverbReturn/#/get/positionY  
/wfs/reverbReturn/#/get/positionZ  
/wfs/reverbReturn/#/get/positionXYZ  
/wfs/reverbReturn/#/get/heightFactor  
/wfs/reverbReturn/#/get/distanceAttenuation  
/wfs/reverbReturn/#/get/directivity  
/wfs/reverbReturn/#/get/rotation  
/wfs/reverbReturn/#/get/tilt  
/wfs/reverbReturn/#/get/HFshelf  
/wfs/reverbReturn/#/get/mutes
```

INPUTS

```
/wfs/selectIO/input [i]
```

```
/wfs/input/#/delayLatency [f (f)] -100~100 ms / optional transfer time in  
seconds or inc/dec [f] (delay >0 / latency compensation <0)  
/wfs/input/#/latency [f (f)] -100~100 ms / optional transfer time in seconds or  
inc/dec [f] (latency compensation >0 / delay <0) *deprecated*  
/wfs/input/#/attenuation [f (f)] -92~0 dB / optional transfer time in seconds  
or inc/dec [f]  
/wfs/input/#/curvature [0/1]  
/wfs/input/#/cluster [i] 0 manual, 1-10 Cluster 1-10  
/wfs/input/#/positionX [f] -50~50 m or inc/dec [f]  
/wfs/input/#/positionY [f] -50~50 m or inc/dec [f]  
/wfs/input/#/positionZ [f] -50~50 m or inc/dec [f]  
/wfs/input/#/positionXYZ [f] [f] [f] -50~50 m  
/wfs/input/#/positionXY [f] [f] -50~50 m
```

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/wfs/input/#/positionXZ [f] [f] -50~50 m  
/wfs/input/#/positionYZ [f] [f] -50~50 m  
/wfs/input/#/constraintX [0/1]  
/wfs/input/#/constraintY [0/1]  
/wfs/input/#/constraintZ [0/1]  
/wfs/input/#/constraintXYZ [0/1] [0/1] [0/1]  
/wfs/input/#/flipX [0/1]  
/wfs/input/#/flipY [0/1]  
/wfs/input/#/flipZ [0/1]  
/wfs/input/#/flipXYZ [0/1] [0/1] [0/1]  
/wfs/input/#/tracking_active [0/1]  
/wfs/input/#/tracking_ID [i] 0~29  
/wfs/input/#/tracking_activeAlt [0/1]  
/wfs/input/#/tracking_IDalt [i] 0~29  
/wfs/input/#/heightFactor [i (f)] 0~100 % / optional transfer time in seconds  
or inc/dec [i]  
/wfs/input/#/maxSpeedActive [0/1]  
/wfs/input/#/maxSpeed [f (f)] 0.01~20 m/s optional transfer time in seconds or  
inc/dec [f]  
/wfs/input/#/attenuationlaw [0/1] 0 log (dB/m), 1 1/X (ratio)  
/wfs/input/#/distanceAttenuation [f (f)] -6~0 dB/m / optional transfer time in  
seconds or inc/dec [f]  
/wfs/input/#/distanceRatio [f (f)] 0.1~10 x0.282cm reference / optional  
transfer time in seconds or inc/dec [f]  
/wfs/input/#/commonAtten [i] 0~100 %  
/wfs/input/#/directivity [i (f)] 2~360 ° / optional transfer time in seconds or  
inc/dec [i]  
/wfs/input/#/rotation [i (f)] -180~180 ° / optional transfer time in seconds or  
inc/dec [i]  
/wfs/input/#/tilt [i (f)] -90~90 ° / optional transfer time in seconds or  
inc/dec [i]  
/wfs/input/#/HFshelf [f (f)] -24~0 dB / optional transfer time in seconds or  
inc/dec [f]  
/wfs/input/#/levelMap [i:levelMapActive] [i: flipX] [i: flipY] [i:levelActive]  
[i:heightActive] [i:heightMode] [i:HFdampingActive] [f:HFdamping]  
/wfs/input/#/liveSource [i f f i] active ; radius ; attenuation ; shape  
/wfs/input/#/liveSourceActive [1/0]  
/wfs/input/#/liveSourceRadius [f (f)] 0~50 m / optional transfer time in  
seconds or inc/dec [f]  
/wfs/input/#/liveSourceShape [i] 0:Linear, 1:Log, 2:Square x², 3:Sine  
/wfs/input/#/liveSourceAttenuation [f (f)] -24~0 dB / optional transfer time in  
seconds or inc/dec [f]  
/wfs/input/#/liveSourcePeakThreshold [f (f)] -48~0 dB / optional transfer time  
in seconds or inc/dec [f]  
/wfs/input/#/liveSourcePeakRatio [f (f)] 1~10 compression ratio / optional  
transfer time in seconds or inc/dec [f]  
/wfs/input/#/liveSourceSlowThreshold [f (f)] -48~0 dB / optional transfer time  
in seconds or inc/dec [f]  
/wfs/input/#/liveSourceSlowRatio [f (f)] 1~10 compression ratio / optional  
transfer time in seconds or inc/dec [f]  
/wfs/input/#/mapLoad_level open Level map dialog to load image  
/wfs/input/#/mapActive_level [0/1]  
/wfs/input/#/mapClear_level clear Level map image  
/wfs/input/#/mapFile_level [file path] load Level map image file
```

```
/wfs/input/#/mapFlipX_level [0/1] flip Level map image horizontally
/wfs/input/#/mapFlipY_level [0/1] flip Level map image vertically
/wfs/input/#/mapInvert_level [0/1] invert Level map image
/wfs/input/#/mapActive_height [0/1]
/wfs/input/#/mapLoad_height open Height map dialog to load image
/wfs/input/#/mapClear_height clear Height map image
/wfs/input/#/mapFile_height [file path] load Height map image file
/wfs/input/#/mapFlipX_height [0/1] flip Height map image horizontally
/wfs/input/#/mapFlipY_height [0/1] flip Height map image vertically
/wfs/input/#/mapInvert_height [0/1] invert Height map image
/wfs/input/#/mapMode_height [0/1] Height map mode (0: 0~stage height/1:-stage
height ~ +stage height)
/wfs/input/#/mapActive_HSshelf [0/1]
/wfs/input/#/mapLoad_HSshelf open HF shelf map dialog to load image
/wfs/input/#/mapClear_HSshelf clear HF shelf map image
/wfs/input/#/mapFile_HSshelf [file path] load HF shelf map image file
/wfs/input/#/mapFlipX_HSshelf [0/1] flip HF shelf map image horizontally
/wfs/input/#/mapFlipY_HSshelf [0/1] flip HF shelf map image vertically
/wfs/input/#/mapInvert_HSshelf [0/1] invert HF shelf map image
/wfs/input/#/mapAttenuation_HSshelf [f] maximum attenuation for HF shelf -12~0
dB
/wfs/input/#/FRactive [1/0]
/wfs/input/#/FRattenuation [f] -60~0 dB
/wfs/input/#/FRlowCutActive [1/0]
/wfs/input/#/FRlowCutFreq [i] 20~20000 Hz
/wfs/input/#/FRhighShelfActive [1/0]
/wfs/input/#/FRhighShelfFreq [i] 20~20000 Hz
/wfs/input/#/FRhighShelfGain [f] -24~0 dB
/wfs/input/#/FRhighShelfSlope [f] 0.1~0.9
/wfs/input/#/FRdispertion [i] %
/wfs/input/#/mutes [i_list] 0/1
/wfs/input/#/delays [f_list] ms
/wfs/input/#/levels [f_list] dB
/wfs/input/#/HFDampings [f_list] dB

/wfs/input/#/muteMacro [i]
1: mute all, 2: unmute all,
3: invert,
4: odd channels, 5: even channels,
6: first half, 7: second half,
8: mute output group 1, 9: mute output group 1,
10: mute output group 2, 11: mute output group 2,
12: mute output group 3, 13: mute output group 3,
14: mute output group 4, 15: mute output group 4,
16: mute output group 5, 17: mute output group 5 ,
18: mute output group 6 (reverb feeds), 19: mute output group 6 (reverb feeds)

/wfs/input/#/get/all
/wfs/input/#/get/delayLatency
/wfs/input/#/get/attenuation
/wfs/input/#/get/curvature
/wfs/input/#/get/control
/wfs/input/#/get/positionX
/wfs/input/#/get/positionY
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```
/wfs/input/#/get/positionZ
/wfs/input/#/get/positionXYZ
/wfs/input/#/get/positionXY
/wfs/input/#/get/positionXZ
/wfs/input/#/get/positionYZ
/wfs/input/#/get/constraintX
/wfs/input/#/get/constraintY
/wfs/input/#/get/constraintZ
/wfs/input/#/get/constraintXYZ
/wfs/input/#/get/flipX
/wfs/input/#/get/flipY
/wfs/input/#/get/flipZ
/wfs/input/#/get/flipXYZ
/wfs/input/#/get/tracking_active
/wfs/input/#/get/tracking_ID
/wfs/input/#/get/tracking_activeAlt
/wfs/input/#/get/tracking_IDalt
/wfs/input/#/get/heightFactor
/wfs/input/#/get/maxSpeedActive
/wfs/input/#/get/maxSpeed
/wfs/input/#/get/attenuationlaw
/wfs/input/#/get/distanceAttenuation
/wfs/input/#/get/distanceRatio
/wfs/input/#/get/commonAtten
/wfs/input/#/get/directivity
/wfs/input/#/get/rotation
/wfs/input/#/get/tilt
/wfs/input/#/get/HFshelf
/wfs/input/#/get/liveSource
/wfs/input/#/get/mapActive_level
/wfs/input/#/get/mapFile_level
/wfs/input/#/get/mapFlipX_level
/wfs/input/#/get/mapFlipY_level
/wfs/input/#/get/mapInvert_level
/wfs/input/#/get/mapActive_hight
/wfs/input/#/get/mapFile_height
/wfs/input/#/get/mapFlipX_height
/wfs/input/#/get/mapFlipY_height
/wfs/input/#/get/mapInvert_height
/wfs/input/#/get/mapMode_height
/wfs/input/#/get/mapActive_HFshelf
/wfs/input/#/get/mapFile_HSshelf
/wfs/input/#/get/mapFlipX_HSshelf
/wfs/input/#/get/mapFlipY_HSshelf
/wfs/input/#/get/mapInvert_HSshelf
/wfs/input/#/get/mapAttenuation_HSshelf
/wfs/input/#/get/FRactive
/wfs/input/#/get/FRattenuation
/wfs/input/#/get/FRlowCutActive
/wfs/input/#/get/FRlowCutFreq
/wfs/input/#/get/FRhighShelfActive
/wfs/input/#/get/FRhighShelfFreq
/wfs/input/#/get/FRhighShelfGain
/wfs/input/#/get/FRhighShelfSlope
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```
/wfs/input/#/get/FRdispertion
/wfs/input/#/get/mutes
/wfs/input/#/get/delays
/wfs/input/#/get/levels
/wfs/input/#/get/HFdampings

/wfs/input/#/stream/all [0/1]
/wfs/input/#/stream/delayLatency [0/1]
/wfs/input/#/stream/attenuation [0/1]
/wfs/input/#/stream/curvature [0/1]
/wfs/input/#/stream/control [0/1]
/wfs/input/#/stream/positionX [0/1]
/wfs/input/#/stream/positionY [0/1]
/wfs/input/#/stream/positionZ [0/1]
/wfs/input/#/stream/positionXYZ [0/1]
/wfs/input/#/stream/positionXY [0/1]
/wfs/input/#/stream/positionXZ [0/1]
/wfs/input/#/stream/positionYZ [0/1]
/wfs/input/#/stream/constraintX [0/1]
/wfs/input/#/stream/constraintY [0/1]
/wfs/input/#/stream/constraintZ [0/1]
/wfs/input/#/stream/constraintXYZ [0/1]
/wfs/input/#/stream/flipX [0/1]
/wfs/input/#/stream/flipY [0/1]
/wfs/input/#/stream/flipZ [0/1]
/wfs/input/#/stream/flipXYZ [0/1]
/wfs/input/#/stream/tracking_active [0/1]
/wfs/input/#/stream/tracking_ID [0/1]
/wfs/input/#/stream/tracking_activeAlt [0/1]
/wfs/input/#/stream/tracking_IDalt [0/1]
/wfs/input/#/stream/heightFactor [0/1]
/wfs/input/#/stream/maxSpeedActive [0/1]
/wfs/input/#/stream/maxSpeed [0/1]
/wfs/input/#/stream/attenuationlaw [0/1]
/wfs/input/#/stream/distanceAttenuation [0/1]
/wfs/input/#/stream/distanceRatio [0/1]
/wfs/input/#/stream/commonAtten [0/1]
/wfs/input/#/stream/directivity [0/1]
/wfs/input/#/stream/rotation [0/1]
/wfs/input/#/stream/tilt [0/1]
/wfs/input/#/stream/HFshelf [0/1]
/wfs/input/#/stream/liveSource [0/1]
/wfs/input/#/stream/mapActive_level [0/1]
/wfs/input/#/stream/mapFile_level [0/1]
/wfs/input/#/stream/mapFlipX_level [0/1]
/wfs/input/#/stream/mapFlipY_level [0/1]
/wfs/input/#/stream/mapInvert_level [0/1]
/wfs/input/#/stream/mapActive_height [0/1]
/wfs/input/#/stream/mapFile_height [0/1]
/wfs/input/#/stream/mapFlipX_height [0/1]
/wfs/input/#/stream/mapFlipY_height [0/1]
/wfs/input/#/stream/mapInvert_height [0/1]
/wfs/input/#/stream/mapMode_height [0/1]
/wfs/input/#/stream/mapActive_HSshelf [0/1]
```

```
/wfs/input/#/stream/mapFile_HSshelf [0/1]
/wfs/input/#/stream/mapFlipX_HSshelf [0/1]
/wfs/input/#/stream/mapFlipY_HSshelf [0/1]
/wfs/input/#/stream/mapInvert_HSshelf [0/1]
/wfs/input/#/stream/mapAttenuation_HSshelf [0/1]
/wfs/input/#/stream/FRactive [0/1]
/wfs/input/#/stream/FRattenuation [0/1]
/wfs/input/#/stream/FRlowCutActive [0/1]
/wfs/input/#/stream/FRlowCutFreq [0/1]
/wfs/input/#/stream/FRhighShelfActive [0/1]
/wfs/input/#/stream/FRhighShelfFreq [0/1]
/wfs/input/#/stream/FRhighShelfGain [0/1]
/wfs/input/#/stream/FRhighShelfSlope [0/1]
/wfs/input/#/stream/FRdispertion [0/1]
/wfs/input/#/stream/mutes [0/1]
/wfs/input/#/stream/delays [0/1]
/wfs/input/#/stream/levels [0/1]
/wfs/input/#/stream/HFdampings [0/1]

/wfs/input/#/curveX -50~50 m
/wfs/input/#/curveY -50~50 m
/wfs/input/#/curveZ -50~50 m
/wfs/input/#/curveRelative [0/1] 0 absolute/1 relative
/wfs/input/#/curveCurve [f] -1.0<= <0.0 curve downstage / =0.0 straight / 0.0<
<=1.0 curve upstage
/wfs/input/#/curveTime [f] s
/wfs/input/#/curveSmooth [f] 0.0~1.0 0.0 constant speed / 1.0 smooth
acceleration and deceleration
/wfs/input/#/curveEnd [0/1] 0 stay at final position / 1 return to original
position
/wfs/input/#/curveAbsoluteXYZ [f] [f] [f] position X, Y, Z -50~50 m
/wfs/input/#/curveRelativeXYZ [f] [f] [f] position X, Y, Z -50~50 m
/wfs/input/#/curveXYZ [f] [f] [f] [i] [f] [f] [f] [i] position X, Y, Z,
relative/absolute, curve, time, smooth, end position & GO
/wfs/input/#/curveGo
/wfs/input/#/curveStop
/wfs/input/#/curvePause [0/1]
/wfs/input/#/curveTrigger [0/1] 0: single / 1: triggered
/wfs/input/#/curveAbove [f] -92~0 dB
/wfs/input/#/curveResetBelow [f] -92~0 dB
/wfs/input/#/curveJump [f] 0~92 dB

/wfs/input/#/LFOactive [0/1]
/wfs/input/#/LFOperiod [f] 0.1~100 s
/wfs/input/#/LFOphase [i] -180~180 °
/wfs/input/#/LFOgyrophone [-1/0/1] [0 off/1 clockwise/-1 anti-clockwise]
/wfs/input/#/LFOrateX [f] 0.1~10
/wfs/input/#/LFOphaseX [i] -180~180 °
/wfs/input/#/LFOshapeX [i] *
/wfs/input/#/LFOamplitudeX [f] 0~100 m
/wfs/input/#/LFOrateY [f] 0.1~10
/wfs/input/#/LFOphaseY [i] -180~180 °
/wfs/input/#/LFOshapeY [i] *
/wfs/input/#/LFOamplitudeY [f] 0~100 m
```

```

/wfs/input/#/LFOrateZ [f] 0.1~10
/wfs/input/#/LFOphaseZ [i] -180~180 °
/wfs/input/#/LFOshapeZ [i] *
/wfs/input/#/LFOamplitudeZ [f] 0~100 m
/wfs/input/#/lfo/active [0/1]
/wfs/input/#/lfo/gyrophone [0 off/1 clockwise/-1 anti-clockwise] (deprecated)
/wfs/input/#/lfo/lfo [f: period in seconds] [i: phase 0~360 °]
/wfs/input/#/lfo/x [i: 0~360° phase for X] [i: shape* for X] [f: amplitude for X]
/wfs/input/#/lfo/y [i: 0~360° phase for Y] [i: shape* for Y] [f: amplitude for Y]
/wfs/input/#/lfo/z [i: 0~360° phase for Z] [i: shape* for Z] [f: amplitude for Z]
/wfs/input/#/lfo/shapeXYZ [i] [i] [i] (shapes* for X Y Z)
/wfs/input/#/lfo/amplitudeXYZ [f] [f] [f] 0~100 m
/wfs/input/#/lfo/amplitudeXY [f] [f] 0~100 m
/wfs/input/#/lfo/amplitudeXZ [f] [f] 0~100 m
/wfs/input/#/lfo/amplitudeYZ [f] [f] 0~100 m
/wfs/input/#/lfo/xyz [i] [i] [i] [i] [i] [i] [f] [f] [f] (0~360° phases for X Y Z ; shapes* for X Y Z ; amplitudes for X Y Z)
/wfs/input/#/lfo/lfoXYZ [f: main LFO period in seconds] [i: 0~360° main LFO phase] [i] [i] [i] [i] [i] [i] [f] [f] (0~360° phases for X Y Z ; shapes* for X Y Z ; amplitudes for X Y Z) [1/0 gyrophone]
* shape: 0 Off / 1 Sine / 2 Square / 3 Saw / 4 Triangle / 5 Keystone / 6 Log / 7 Exponential / 8 Random

```

```

/wfs/input/#/get/LFOactive
/wfs/input/#/get/LFOperiod
/wfs/input/#/get/LFOphase
/wfs/input/#/get/LFOgyrophone
/wfs/input/#/get/LFOphaseX
/wfs/input/#/get/LFOshapeX
/wfs/input/#/get/LFOamplitudeX
/wfs/input/#/get/LFOphaseY
/wfs/input/#/get/LFOshapeY
/wfs/input/#/get/LFOamplitudeY
/wfs/input/#/get/LFOphaseZ
/wfs/input/#/get/LFOshapeZ
/wfs/input/#/get/LFOamplitudeZ
/wfs/input/#/get/lfo/active
/wfs/input/#/get/lfo/gyrophone
/wfs/input/#/get/lfo/lfo
/wfs/input/#/get/lfo/x
/wfs/input/#/get/lfo/y
/wfs/input/#/get/lfo/z
/wfs/input/#/get/lfo/shapeXYZ
/wfs/input/#/get/lfo/amplitudeXYZ
/wfs/input/#/get/lfo/amplitudeXY
/wfs/input/#/get/lfo/amplitudeXZ
/wfs/input/#/get/lfo/amplitudeYZ
/wfs/input/#/get/lfo/xyz
/wfs/input/#/get/lfo/lfoXYZ

```

```

/wfs/input/#/stream/LFOactive [1/0]

```

```

/wfs/input/#/stream/LFOperiod [1/0]
/wfs/input/#/stream/LFOphase [1/0]
/wfs/input/#/stream/LFOgyrophone [1/0]
/wfs/input/#/stream/LFOphaseX [1/0]
/wfs/input/#/stream/LFOshapeX [1/0]
/wfs/input/#/stream/LFOamplitudeX [1/0]
/wfs/input/#/stream/LFOphaseY [1/0]
/wfs/input/#/stream/LFOshapeY [1/0]
/wfs/input/#/stream/LFOamplitudeY [1/0]
/wfs/input/#/stream/LFOphaseZ [1/0]
/wfs/input/#/stream/LFOshapeZ [1/0]
/wfs/input/#/stream/LFOamplitudeZ [1/0]
/wfs/input/#/stream/lfo/active [1/0]
/wfs/input/#/stream/lfo/gyrophone [1/0]
/wfs/input/#/stream/lfo/lfo [1/0]
/wfs/input/#/stream/lfo/x [1/0]
/wfs/input/#/stream/lfo/y [1/0]
/wfs/input/#/stream/lfo/z [1/0]
/wfs/input/#/stream/lfo/shapeXYZ [1/0]
/wfs/input/#/stream/lfo/amplitudeXYZ [1/0]
/wfs/input/#/stream/lfo/amplitudeXY [1/0]
/wfs/input/#/stream/lfo/amplitudeXZ [1/0]
/wfs/input/#/stream/lfo/amplitudeYZ [1/0]
/wfs/input/#/stream/lfo/xyz [1/0]
/wfs/input/#/stream/lfo/lfoXYZ [1/0]

```

```

/wfs/input/#/jitter [f] 0~10 m amplitude in meters / 0:off

```

```

/wfs/input/#/get/jitter

```

```

/wfs/input/#/stream/jitter [1/0]

```

```

/wfs/input/#/offset [f] [f] [f] -50~50 m
/wfs/input/#/offset/offsetXYZ [f] [f] [f] -50~50 m
/wfs/input/#/offset/offsetXY [f] [f] -50~50 m
/wfs/input/#/offset/offsetXZ [f] [f] -50~50 m
/wfs/input/#/offset/offsetYZ [f] [f] -50~50 m
/wfs/input/#/offsetX [f] -50~50 m
/wfs/input/#/offsetY [f] -50~50 m
/wfs/input/#/offsetZ [f] -50~50 m
/wfs/input/#/offset/rotateXYZ [i] [i] [i] 0~360 °
/wfs/input/#/offset/rotateXY [i] [i] 0~360 °
/wfs/input/#/offset/rotateXZ [i] [i] 0~360 °
/wfs/input/#/offset/rotateYZ [i] [i] 0~360 °
/wfs/input/#/offsetRoll [i] 0~360 ° rotation in degrees around X axis
/wfs/input/#/offsetPitch [i] 0~360 ° rotation in degrees around Y axis
/wfs/input/#/offsetYaw [i] 0~360 ° rotation in degrees around Z axis
/wfs/input/#/offset/scaleXYZ [f] [f] [f] -10~10
/wfs/input/#/offset/scaleXY [f] [f] -10~10
/wfs/input/#/offset/scaleXZ [f] [f] -10~10
/wfs/input/#/offset/scaleYZ [f] [f] -10~10
/wfs/input/#/offsetScaleX [f] -10~10 scale factor for X offset
/wfs/input/#/offsetScaleY [f] -10~10 scale factor for Y offset
/wfs/input/#/offsetScaleZ [f] -10~10 scale factor for Z offset

```

```
/wfs/input/#/get/offset
/wfs/input/#/get/offset/offsetXYZ
/wfs/input/#/get/offset/offsetXY
/wfs/input/#/get/offset/offsetXZ
/wfs/input/#/get/offset/offsetYZ
/wfs/input/#/get/offsetX
/wfs/input/#/get/offsetY
/wfs/input/#/get/offsetZ
/wfs/input/#/get/offset/rotateXYZ
/wfs/input/#/get/offset/rotateXY
/wfs/input/#/get/offset/rotateXZ
/wfs/input/#/get/offset/rotateYZ
/wfs/input/#/get/offsetRoll
/wfs/input/#/get/offsetPitch
/wfs/input/#/get/offsetYaw
/wfs/input/#/get/offset/scaleXYZ
/wfs/input/#/get/offset/scaleXY
/wfs/input/#/get/offset/scaleXZ
/wfs/input/#/get/offset/scaleYZ
/wfs/input/#/get/offsetScaleX
/wfs/input/#/get/offsetScaleY
/wfs/input/#/get/offsetScaleZ

/wfs/input/#/stream/offset [1/0]
/wfs/input/#/stream/offset/offsetXYZ [1/0]
/wfs/input/#/stream/offset/offsetXY [1/0]
/wfs/input/#/stream/offset/offsetXZ [1/0]
/wfs/input/#/stream/offset/offsetYZ [1/0]
/wfs/input/#/stream/offsetX [1/0]
/wfs/input/#/stream/offsetY [1/0]
/wfs/input/#/stream/offsetZ [1/0]
/wfs/input/#/stream/offset/rotateXYZ [1/0]
/wfs/input/#/stream/offset/rotateXY [1/0]
/wfs/input/#/stream/offset/rotateXZ [1/0]
/wfs/input/#/stream/offset/rotateYZ [1/0]
/wfs/input/#/stream/offsetRoll [1/0]
/wfs/input/#/stream/offsetPitch [1/0]
/wfs/input/#/stream/offsetYaw [1/0]
/wfs/input/#/stream/offset/scaleXYZ [1/0]
/wfs/input/#/stream/offset/scaleXY [1/0]
/wfs/input/#/stream/offset/scaleXZ [1/0]
/wfs/input/#/stream/offset/scaleYZ [1/0]
/wfs/input/#/stream/offsetScaleX [1/0]
/wfs/input/#/stream/offsetScaleY [1/0]
/wfs/input/#/stream/offsetScaleZ [1/0]

/wfs/input/#/fxActive [1/0]
/wfs/input/#/fxMasterLevel [-60~0] dB
/wfs/input/#/fxLevels [f_list] dB
/wfs/input/#/fxMutes [i_list] 0/1

/wfs/input/#/get/fxActive
/wfs/input/#/get/fxMasterLevel
```

```
/wfs/input/#/get/fxLevels
/wfs/input/#/get/fxMutes
```

```
/wfs/input/#/stream/fxActive [0/1]
/wfs/input/#/stream/fxMasterLevel [0/1]
/wfs/input/#/stream/fxLevels [0/1]
/wfs/input/#/stream/fxMutes [0/1]
```

EFFECTS

```
/wfs/selectIO/effect [i]
```

```
/wfs/fxFeed/#/delayLatency [f] -100~100 ms (delay >0 / latency compensation <0)
/wfs/fxFeed/#/attenuation [f] -92~0 dB
/wfs/fxFeed/#/positionX [f] -50~50 m
/wfs/fxFeed/#/positionY [f] -50~50 m
/wfs/fxFeed/#/positionZ [f] -50~50 m
/wfs/fxFeed/#/positionXYZ [f] [f] [f] -50~50 m
/wfs/fxFeed/#/orientation [i] -180~180 °
/wfs/fxFeed/#/angleOn [i] 1~180 °
/wfs/fxFeed/#/angleOff [i] 0~179 °
/wfs/fxFeed/#/pitch [i] -90~90 °
/wfs/fxFeed/#/HFDamping [f] -6~0 dB/m
/wfs/fxFeed/#/miniLatencyEnable [0/1]
/wfs/fxFeed/#/distanceAttenuationPercent [i] 0~200 %
```

```
/wfs/fxFeed/#/get/all
/wfs/fxFeed/#/get/delayLatency
/wfs/fxFeed/#/get/attenuation
/wfs/fxFeed/#/get/positionX
/wfs/fxFeed/#/get/positionY
/wfs/fxFeed/#/get/positionZ
/wfs/fxFeed/#/get/positionXYZ
/wfs/fxFeed/#/get/orientation
/wfs/fxFeed/#/get/angleOn
/wfs/fxFeed/#/get/angleOff
/wfs/fxFeed/#/get/pitch
/wfs/fxFeed/#/get/HFDamping
/wfs/fxFeed/#/get/miniLatencyEnable
/wfs/fxFeed/#/get/distanceAttenuationPercent
```

```
/wfs/fxReturn/#/delayLatency [f] -100~100 ms (delay >0 / latency compensation <0)
/wfs/fxReturn/#/attenuation [f] -92~0 dB
/wfs/fxReturn/#/curvature [0/1]
/wfs/fxReturn/#/positionX [f] -50~50 m
/wfs/fxReturn/#/positionY [f] -50~50 m
/wfs/fxReturn/#/positionZ [f] -50~50 m
/wfs/fxReturn/#/positionXYZ [f] [f] [f] -50~50 m
/wfs/fxReturn/#/heightFactor [i] 0~100 %
/wfs/fxReturn/#/distanceAttenuation [f] -6~0 dB/m
/wfs/fxReturn/#/directivity [i] 2~360 °
```

```

/wfs/fxReturn/#/rotation [i] -180~180 °
/wfs/fxReturn/#/tilt [i] -90~90 °
/wfs/fxReturn/#/HFshelf [f] -24~0 dB
/wfs/fxReturn/#/mutes [i_list] 0/1

/wfs/fxReturn/#/muteMacro [i]
1: mute all, 2: unmute all,
3: invert,
4: odd channels, 5: even channels,
6: first half, 7: second half,
8: mute output group 1, 9: mute output group 1,
10: mute output group 2, 11: mute output group 2,
12: mute output group 3, 13: mute output group 3,
14: mute output group 4, 15: mute output group 4,
16: mute output group 5, 17: mute output group 5

/wfs/fxReturn/#/get/all
/wfs/fxReturn/#/get/delayLatency
/wfs/fxReturn/#/get/attenuation
/wfs/fxReturn/#/get/curvature
/wfs/fxReturn/#/get/positionX
/wfs/fxReturn/#/get/positionY
/wfs/fxReturn/#/get/positionZ
/wfs/fxReturn/#/get/positionXYZ
/wfs/fxReturn/#/get/heightFactor
/wfs/fxReturn/#/get/distanceAttenuation
/wfs/fxReturn/#/get/directivity
/wfs/fxReturn/#/get/rotation
/wfs/fxReturn/#/get/tilt
/wfs/fxReturn/#/get/HFshelf
/wfs/fxReturn/#/get/mutes

/wfs/fxReturn/#/stream/all [0/1]
/wfs/fxReturn/#/stream/delayLatency [0/1]
/wfs/fxReturn/#/stream/attenuation [0/1]
/wfs/fxReturn/#/stream/curvature [0/1]
/wfs/fxReturn/#/stream/positionX [0/1]
/wfs/fxReturn/#/stream/positionY [0/1]
/wfs/fxReturn/#/stream/positionZ [0/1]
/wfs/fxReturn/#/stream/positionXYZ [0/1]
/wfs/fxReturn/#/stream/heightFactor [0/1]
/wfs/fxReturn/#/stream/distanceAttenuation [0/1]
/wfs/fxReturn/#/stream/directivity [0/1]
/wfs/fxReturn/#/stream/rotation [0/1]
/wfs/fxReturn/#/stream/tilt [0/1]
/wfs/fxReturn/#/stream/HFshelf [0/1]
/wfs/fxReturn/#/stream/mutes [0/1]

/wfs/fxReturn/#/curveX -50~50 m
/wfs/fxReturn/#/curveY -50~50 m
/wfs/fxReturn/#/curveZ -50~50 m
/wfs/fxReturn/#/curveRelative [0/1] 0 absolute/1 relative
/wfs/fxReturn/#/curveCurve [f] -1.0<= <0.0 curve downstage / =0.0 straight /
0.0< <=1.0 curve upstage

```

```

/wfs/fxReturn/#/curveTime [f] s
/wfs/fxReturn/#/curveSmooth [f] 0.0~1.0 0.0 constant speed / 1.0 smooth
acceleration and deceleration
/wfs/fxReturn/#/curveEnd [0/1] 0 stay at final position / 1 return to original
position
/wfs/fxReturn/#/curveAbsoluteXYZ [f] [f] [f] position X, Y, Z -50~50 m
/wfs/fxReturn/#/curveRelativeXYZ [f] [f] [f] position X, Y, Z -50~50 m
/wfs/fxReturn/#/curveXYZ [f] [f] [f] [i] [f] [f] [f] [i] position X, Y, Z,
relative/absolute, curve, time, smooth, end position & GO
/wfs/fxReturn/#/curveGo
/wfs/fxReturn/#/curveStop
/wfs/fxReturn/#/curvePause [0/1]
/wfs/fxReturn/#/curveTrigger [0/1] 0: single / 1: triggered
/wfs/fxReturn/#/curveAbove [f] -92~0 dB
/wfs/fxReturn/#/curveResetBelow [f] -92~0 dB
/wfs/fxReturn/#/curveJump [f] 0~92 dB

/wfs/fxReturn/#/LFOactive [0/1]
/wfs/fxReturn/#/LFOperiod [f] 0.1~100 s
/wfs/fxReturn/#/LFOphase [i] -180~180 °
/wfs/fxReturn/#/LFOgyrophone [-1/0/1] [0 off/1 clockwise/-1 anti-clockwise]
/wfs/fxReturn/#/LFOrateX [f] 0.1~10
/wfs/fxReturn/#/LFOphaseX [i] -180~180 °
/wfs/fxReturn/#/LFOshapeX [i] *
/wfs/fxReturn/#/LFOamplitudeX [f] 0~100 m
/wfs/fxReturn/#/LFOrateY [f] 0.1~10
/wfs/fxReturn/#/LFOphaseY [i] -180~180 °
/wfs/fxReturn/#/LFOshapeY [i] *
/wfs/fxReturn/#/LFOamplitudeY [f] 0~100 m
/wfs/fxReturn/#/LFOrateZ [f] 0.1~10
/wfs/fxReturn/#/LFOphaseZ [i] -180~180 °
/wfs/fxReturn/#/LFOshapeZ [i] *
/wfs/fxReturn/#/LFOamplitudeZ [f] 0~100 m
/wfs/fxReturn/#/lfo/active [0/1]
/wfs/fxReturn/#/lfo/gyrophone [0 off/1 clockwise/-1 anti-clockwise]
(deprecated)
/wfs/fxReturn/#/lfo/lfo [f: period in seconds] [i: phase 0~360 °]
/wfs/fxReturn/#/lfo/x [i: 0~360° phase for X] [i: shape* for X] [f: amplitude
for X]
/wfs/fxReturn/#/lfo/y [i: 0~360° phase for Y] [i: shape* for Y] [f: amplitude
for Y]
/wfs/fxReturn/#/lfo/z [i: 0~360° phase for Z] [i: shape* for Z] [f: amplitude
for Z]
/wfs/fxReturn/#/lfo/shapeXYZ [i] [i] [i] (shapes* for X Y Z)
/wfs/fxReturn/#/lfo/amplitudeXYZ [f] [f] [f] 0~100 m
/wfs/fxReturn/#/lfo/amplitudeXY [f] [f] 0~100 m
/wfs/fxReturn/#/lfo/amplitudeXZ [f] [f] 0~100 m
/wfs/fxReturn/#/lfo/amplitudeYZ [f] [f] 0~100 m
/wfs/fxReturn/#/lfo/xyz [i] [i] [i] [i] [i] [i] [f] [f] [f] (0~360° phases for
X Y Z ; shapes* for X Y Z ; amplitudes for X Y Z)
/wfs/fxReturn/#/lfo/lfoXYZ [f: main LFO period in seconds] [i: 0~360° main LFO
phase] [i] [i] [i] [i] [i] [i] [f] [f] [f] (0~360° phases for X Y Z ; shapes*
for X Y Z ; amplitudes for X Y Z) [1/0 gyrophone]
* shape: 0 Off / 1 Sine / 2 Square / 3 Saw / 4 Triangle / 5 Keystone / 6 Log /

```


7 Exponential / 8 Random

/wfs/fxReturn/#/get/LFOactive
/wfs/fxReturn/#/get/LFOperiod
/wfs/fxReturn/#/get/LFOphase
/wfs/fxReturn/#/get/LFOgyrophone
/wfs/fxReturn/#/get/LFOrateX
/wfs/fxReturn/#/get/LFOphaseX
/wfs/fxReturn/#/get/LFOshapeX
/wfs/fxReturn/#/get/LFOamplitudeX
/wfs/fxReturn/#/get/LFOrateY
/wfs/fxReturn/#/get/LFOphaseY
/wfs/fxReturn/#/get/LFOshapeY
/wfs/fxReturn/#/get/LFOamplitudeY
/wfs/fxReturn/#/get/LFOrateZ
/wfs/fxReturn/#/get/LFOphaseZ
/wfs/fxReturn/#/get/LFOshapeZ
/wfs/fxReturn/#/get/LFOamplitudeZ

/wfs/fxReturn/#/stream/LFOactive [0/1]
/wfs/fxReturn/#/stream/LFOperiod [0/1]
/wfs/fxReturn/#/stream/LFOphase [0/1]
/wfs/fxReturn/#/stream/LFOgyrophone [0/1]
/wfs/fxReturn/#/stream/LFOrateX [0/1]
/wfs/fxReturn/#/stream/LFOphaseX [0/1]
/wfs/fxReturn/#/stream/LFOshapeX [0/1]
/wfs/fxReturn/#/stream/LFOamplitudeX [0/1]
/wfs/fxReturn/#/stream/LFOrateY [0/1]
/wfs/fxReturn/#/stream/LFOphaseY [0/1]
/wfs/fxReturn/#/stream/LFOshapeY [0/1]
/wfs/fxReturn/#/stream/LFOamplitudeY [0/1]
/wfs/fxReturn/#/stream/LFOrateZ [0/1]
/wfs/fxReturn/#/stream/LFOphaseZ [0/1]
/wfs/fxReturn/#/stream/LFOshapeZ [0/1]
/wfs/fxReturn/#/stream/LFOamplitudeZ [0/1]

/wfs/fxReturn/#/fxMtxMasterLevel [0/1]
/wfs/fxReturn/#/fxMtxLevels [f_list] -60~0 dB
/wfs/fxReturn/#/fxMtxMutes [i_list] 0/1

/wfs/fxReturn/#/get/fxMtxMasterLevel
/wfs/fxReturn/#/get/fxMtxLevels
/wfs/fxReturn/#/get/fxMtxMutes

/wfs/fxReturn/#/stream/fxMtxMasterLevel [0/1]
/wfs/fxReturn/#/stream/fxMtxLevels [0/1]
/wfs/fxReturn/#/stream/fxMtxMutes [0/1]

/wfs/fxParam/#/FXorder [i_list] 0 to 8
/wfs/fxParam/#/FXonOff [i_list] 0/1
/wfs/fxParam/#/CompThreshold [f] -90~0 dB
/wfs/fxParam/#/CompRatio [f] 1~30
/wfs/fxParam/#/CompAttack [f] 0.1~2000 ms
/wfs/fxParam/#/CompRelease [f] 1~5000 ms

/wfs/fxParam/#/CompDetectionDelay [f] 0~5 ms
/wfs/fxParam/#/CompSCLoCut [f] 20~20000 Hz
/wfs/fxParam/#/CompSCHiCut [f] 20~20000 Hz
/wfs/fxParam/#/ExpThreshold [f] -90~0 dB
/wfs/fxParam/#/ExpRatio [f] 1~30
/wfs/fxParam/#/ExpAttack [f] 0.1~2000 ms
/wfs/fxParam/#/ExpRelease [f] 1~5000 ms
/wfs/fxParam/#/ExpSCLoCut [f] 20~20000 Hz
/wfs/fxParam/#/ExpSCHiCut [f] 20~20000 Hz
/wfs/fxParam/#/DynOutputGain [f] -20~20 dB
/wfs/fxParam/#/EqLoCutFreq [f] 20~20000 Hz
/wfs/fxParam/#/EqLoShelfFreq [f] 20~20000 Hz
/wfs/fxParam/#/EqLoShelfGain [f] -20~20 dB
/wfs/fxParam/#/EqLoMidFreq [f] 20~20000 Hz
/wfs/fxParam/#/EqLoMidGain [f] -20~20 dB
/wfs/fxParam/#/EqLoMidQ [f] 0.1~20
/wfs/fxParam/#/EqHiMidFreq [f] 20~20000 Hz
/wfs/fxParam/#/EqHiMidGain [f] -20~20 dB
/wfs/fxParam/#/EqHiMidQ [f] 0.1~20
/wfs/fxParam/#/EqHiShelfFreq [f] 20~20000 Hz
/wfs/fxParam/#/EqHiShelfGain [f] -20~20 dB
/wfs/fxParam/#/EqHiCutFreq [f] 20~20000 Hz
/wfs/fxParam/#/EqDryWet [i] 0~100 %
/wfs/fxParam/#/DistPreLoShelfFreq [f] 20~20000 Hz
/wfs/fxParam/#/DistPreLoShelfGain [f] -60~0 dB
/wfs/fxParam/#/DistPreHiShelfFreq [f] 20~20000 Hz
/wfs/fxParam/#/DistPreHiShelfGain [f] -60~0 dB
/wfs/fxParam/#/DistDrive [f] 0~60 dB
/wfs/fxParam/#/DistAtten [f] -90~0 dB
/wfs/fxParam/#/DistBias [i] 0~100 %
/wfs/fxParam/#/DistPostLoShelfFreq [f] 20~20000 Hz
/wfs/fxParam/#/DistPostLoShelfGain [f] -60~0 dB
/wfs/fxParam/#/DistPostHiShelfFreq [f] 20~20000 Hz
/wfs/fxParam/#/DistPostHiShelfGain [f] -60~0 dB
/wfs/fxParam/#/DistDryWet [i] 0~100 %
/wfs/fxParam/#/BitCrushResolution [i] 1~24
/wfs/fxParam/#/BitCrushDither [f] 0~60 dB
/wfs/fxParam/#/BitCrushDryWet [i] 0~100 %
/wfs/fxParam/#/PhaserLoCut [f] 20~20000 Hz
/wfs/fxParam/#/PhaserLFO [f] 0.001~10
/wfs/fxParam/#/PhaserDepth [f] 0~36
/wfs/fxParam/#/PhaserFilter [f] 0.5~10
/wfs/fxParam/#/PhaserPhaseShift [f] 1~10
/wfs/fxParam/#/PhaserFeedback [i] 0~100 %
/wfs/fxParam/#/PhaserDryWet [i] 0~100 %
/wfs/fxParam/#/ChorusRate1 [f] 5~50
/wfs/fxParam/#/ChorusLoCut [f] 20~20000 Hz
/wfs/fxParam/#/ChorusFeedbackPolarity [0/1/2] 0:off/1:normal/2:inverted
/wfs/fxParam/#/ChorusSingleDual [0/1]
/wfs/fxParam/#/ChorusRate2 [f] 5~50
/wfs/fxParam/#/ChorusLFOSpeed [f] 0.001~50 Hz
/wfs/fxParam/#/ChorusLFOonOff [0/1]
/wfs/fxParam/#/ChorusLFOdepth [f] 0~36
/wfs/fxParam/#/ChorusDryWet [i] 0~100 %

/wfs/fxParam/#/FlangerRate [f] 0.001~10
/wfs/fxParam/#/FlangerLoCut [f] 20~20000 Hz
/wfs/fxParam/#/FlangerLFOspeed [f] 0.01~10
/wfs/fxParam/#/FlangerLFOdepth [f] 0~10
/wfs/fxParam/#/FlangerLFOphase [i] 0~360
/wfs/fxParam/#/FlangerFeedback [i] 0~100 %
/wfs/fxParam/#/FlangerFeedbackPolarity [0/1]
/wfs/fxParam/#/FlangerDryWet [i] 0~100 %
/wfs/fxParam/#/TremoloSpeed [f] 0.1~10 Hz
/wfs/fxParam/#/TremoloWaveform [i] 0~100 %
/wfs/fxParam/#/TremoloDepth [f] 0~24
/wfs/fxParam/#/TremoloDryWet [i] 0~100 %
/wfs/fxParam/#/Reverb1Predelay [f] 0~200 ms
/wfs/fxParam/#/Reverb1Feedback [i] 0~100 %
/wfs/fxParam/#/Reverb1DampingFreq [f] 20~20000 Hz
/wfs/fxParam/#/Reverb1Damping [i] 0~100 %
/wfs/fxParam/#/Reverb1OutputTap [0/1/2/3]
/wfs/fxParam/#/Reverb1Level [f] -60~0 dB
/wfs/fxParam/#/Reverb2Predelay [f] 0~200 ms
/wfs/fxParam/#/Reverb2FeedbackFreq [f] 20~20000 Hz
/wfs/fxParam/#/Reverb2Feedback [i] 0~100 %
/wfs/fxParam/#/Reverb2OutputTap [0/1]
/wfs/fxParam/#/Reverb2Level [f] -60~0 dB
/wfs/fxParam/#/ReverbDryWet [i] 0~100 %
/wfs/fxParam/#/DelayLoCut [f] 20~20000 Hz
/wfs/fxParam/#/DelayTime 1~20000 ms
/wfs/fxParam/#/DelayModFreq [f] 0~1 Hz
/wfs/fxParam/#/DelayModDepth [f] 0~10
/wfs/fxParam/#/DelayRegen [i] 0~100 %
/wfs/fxParam/#/DelayLoShelfFreq [f] 20~20000 Hz
/wfs/fxParam/#/DelayLoShelfGain [f] -20~20 dB
/wfs/fxParam/#/DelayHiShelfFreq [f] 20~20000 Hz
/wfs/fxParam/#/DelayHiShelfGain [f] -20~20 dB
/wfs/fxParam/#/DelayDryWet [i] 0~100 %

/wfs/fxParam/#/get/FXorder
/wfs/fxParam/#/get/FXonOff
/wfs/fxParam/#/get/CompThreshold
/wfs/fxParam/#/get/CompRatio
/wfs/fxParam/#/get/CompAttack
/wfs/fxParam/#/get/CompRelease
/wfs/fxParam/#/get/CompDetectionDelay
/wfs/fxParam/#/get/CompSCLoCut
/wfs/fxParam/#/get/CompSCHiCut
/wfs/fxParam/#/get/ExpThreshold
/wfs/fxParam/#/get/ExpRatio
/wfs/fxParam/#/get/ExpAttack
/wfs/fxParam/#/get/ExpRelease
/wfs/fxParam/#/get/ExpSCLoCut
/wfs/fxParam/#/get/ExpSCHiCut
/wfs/fxParam/#/get/DynOutputGain
/wfs/fxParam/#/get/EqLoCutFreq
/wfs/fxParam/#/get/EqLoShelfFreq
/wfs/fxParam/#/get/EqLoShelfGain

/wfs/fxParam/#/get/EqLoMidFreq
/wfs/fxParam/#/get/EqLoMidGain
/wfs/fxParam/#/get/EqLoMidQ
/wfs/fxParam/#/get/EqHiMidFreq
/wfs/fxParam/#/get/EqHiMidGain
/wfs/fxParam/#/get/EqHiMidQ
/wfs/fxParam/#/get/EqHiShelfFreq
/wfs/fxParam/#/get/EqHiShelfGain
/wfs/fxParam/#/get/EqHiCutFreq
/wfs/fxParam/#/get/EqDryWet
/wfs/fxParam/#/get/DistPreLoShelfFreq
/wfs/fxParam/#/get/DistPreLoShelfGain
/wfs/fxParam/#/get/DistPreHiShelfFreq
/wfs/fxParam/#/get/DistPreHiShelfGain
/wfs/fxParam/#/get/DistDrive
/wfs/fxParam/#/get/DistAtten
/wfs/fxParam/#/get/DistBias
/wfs/fxParam/#/get/DistPostLoShelfFreq
/wfs/fxParam/#/get/DistPostLoShelfGain
/wfs/fxParam/#/get/DistPostHiShelfFreq
/wfs/fxParam/#/get/DistPostHiShelfGain
/wfs/fxParam/#/get/DistDryWet
/wfs/fxParam/#/get/BitCrushResolution
/wfs/fxParam/#/get/BitCrushDither
/wfs/fxParam/#/get/BitCrushDryWet
/wfs/fxParam/#/get/PhaserLoCut
/wfs/fxParam/#/get/PhaserLFO
/wfs/fxParam/#/get/PhaserDepth
/wfs/fxParam/#/get/PhaserFilter
/wfs/fxParam/#/get/PhaserPhaseShift
/wfs/fxParam/#/get/PhaserFeedback
/wfs/fxParam/#/get/PhaserDryWet
/wfs/fxParam/#/get/ChorusRate1
/wfs/fxParam/#/get/ChorusLoCut
/wfs/fxParam/#/get/ChorusFeedbackPolarity
/wfs/fxParam/#/get/ChorusSingleDual
/wfs/fxParam/#/get/ChorusRate2
/wfs/fxParam/#/get/ChorusLFOspeed
/wfs/fxParam/#/get/ChorusLFOonOff
/wfs/fxParam/#/get/ChorusLFOdepth
/wfs/fxParam/#/get/ChorusDryWet
/wfs/fxParam/#/get/FlangerRate
/wfs/fxParam/#/get/FlangerLoCut
/wfs/fxParam/#/get/FlangerLFOspeed
/wfs/fxParam/#/get/FlangerLFOdepth
/wfs/fxParam/#/get/FlangerLFOphase
/wfs/fxParam/#/get/FlangerFeedback
/wfs/fxParam/#/get/FlangerFeedbackPolarity
/wfs/fxParam/#/get/FlangerDryWet
/wfs/fxParam/#/get/TremoloSpeed
/wfs/fxParam/#/get/TremoloWaveform
/wfs/fxParam/#/get/TremoloDepth
/wfs/fxParam/#/get/TremoloDryWet
/wfs/fxParam/#/get/Reverb1Predelay

/wfs/fxParam/#/get/Reverb1Feedback
/wfs/fxParam/#/get/Reverb1DampingFreq
/wfs/fxParam/#/get/Reverb1Damping
/wfs/fxParam/#/get/Reverb1OutputTap
/wfs/fxParam/#/get/Reverb1Level
/wfs/fxParam/#/get/Reverb2Predelay
/wfs/fxParam/#/get/Reverb2FeedbackFrequency
/wfs/fxParam/#/get/Reverb2Feedback
/wfs/fxParam/#/get/Reverb2OutputTap
/wfs/fxParam/#/get/Reverb2Level
/wfs/fxParam/#/get/ReverbDryWet
/wfs/fxParam/#/get/DelayLoCut
/wfs/fxParam/#/get/DelayTime
/wfs/fxParam/#/get/DelayModFreq
/wfs/fxParam/#/get/DelayModDepth
/wfs/fxParam/#/get/DelayRegen
/wfs/fxParam/#/get/DelayLoShelfFreq
/wfs/fxParam/#/get/DelayLoShelfGain
/wfs/fxParam/#/get/DelayHiShelfFreq
/wfs/fxParam/#/get/DelayHiShelfGain
/wfs/fxParam/#/get/DelayDryWet

/wfs/fxParam/#/stream/FXorder [0/1]
/wfs/fxParam/#/stream/FXonOff [0/1]
/wfs/fxParam/#/stream/CompThreshold [0/1]
/wfs/fxParam/#/stream/CompRatio [0/1]
/wfs/fxParam/#/stream/CompAttack [0/1]
/wfs/fxParam/#/stream/CompRelease [0/1]
/wfs/fxParam/#/stream/CompDetectionDelay [0/1]
/wfs/fxParam/#/stream/CompSCLoCut [0/1]
/wfs/fxParam/#/stream/CompSCHiCut [0/1]
/wfs/fxParam/#/stream/ExpThreshold [0/1]
/wfs/fxParam/#/stream/ExpRatio [0/1]
/wfs/fxParam/#/stream/ExpAttack [0/1]
/wfs/fxParam/#/stream/ExpRelease [0/1]
/wfs/fxParam/#/stream/ExpSCLoCut [0/1]
/wfs/fxParam/#/stream/ExpSCHiCut [0/1]
/wfs/fxParam/#/stream/DynOutputGain [0/1]
/wfs/fxParam/#/stream/EqLoCutFreq [0/1]
/wfs/fxParam/#/stream/EqLoShelfFreq [0/1]
/wfs/fxParam/#/stream/EqLoShelfGain [0/1]
/wfs/fxParam/#/stream/EqLoMidFreq [0/1]
/wfs/fxParam/#/stream/EqLoMidGain [0/1]
/wfs/fxParam/#/stream/EqLoMidQ [0/1]
/wfs/fxParam/#/stream/EqHiMidFreq [0/1]
/wfs/fxParam/#/stream/EqHiMidGain [0/1]
/wfs/fxParam/#/stream/EqHiMidQ [0/1]
/wfs/fxParam/#/stream/EqHiShelfFreq [0/1]
/wfs/fxParam/#/stream/EqHiShelfGain [0/1]
/wfs/fxParam/#/stream/EqHiCutFreq [0/1]
/wfs/fxParam/#/stream/EqDryWet [0/1]
/wfs/fxParam/#/stream/DistPreLoShelfFreq [0/1]
/wfs/fxParam/#/stream/DistPreLoShelfGain [0/1]
/wfs/fxParam/#/stream/DistPreHiShelfFreq [0/1]

/wfs/fxParam/#/stream/DistPreHiShelfGain [0/1]
/wfs/fxParam/#/stream/DistDrive [0/1]
/wfs/fxParam/#/stream/DistAtten [0/1]
/wfs/fxParam/#/stream/DistBias [0/1]
/wfs/fxParam/#/stream/DistPostLoShelfFreq [0/1]
/wfs/fxParam/#/stream/DistPostLoShelfGain [0/1]
/wfs/fxParam/#/stream/DistPostHiShelfFreq [0/1]
/wfs/fxParam/#/stream/DistPostHiShelfGain [0/1]
/wfs/fxParam/#/stream/DistDryWet [0/1]
/wfs/fxParam/#/stream/BitCrushResolution [0/1]
/wfs/fxParam/#/stream/BitCrushDither [0/1]
/wfs/fxParam/#/stream/BitCrushDryWet [0/1]
/wfs/fxParam/#/stream/PhaserLoCut [0/1]
/wfs/fxParam/#/stream/PhaserLFO [0/1]
/wfs/fxParam/#/stream/PhaserDepth [0/1]
/wfs/fxParam/#/stream/PhaserFilter [0/1]
/wfs/fxParam/#/stream/PhaserPhaseShift [0/1]
/wfs/fxParam/#/stream/PhaserFeedback [0/1]
/wfs/fxParam/#/stream/PhaserDryWet [0/1]
/wfs/fxParam/#/stream/ChorusRate1 [0/1]
/wfs/fxParam/#/stream/ChorusLoCut [0/1]
/wfs/fxParam/#/stream/ChorusFeedbackPolarity [0/1]
/wfs/fxParam/#/stream/ChorusSingleDual [0/1]
/wfs/fxParam/#/stream/ChorusRate2 [0/1]
/wfs/fxParam/#/stream/ChorusLFOspeed [0/1]
/wfs/fxParam/#/stream/ChorusLFOonOff [0/1]
/wfs/fxParam/#/stream/ChorusLFOdepth [0/1]
/wfs/fxParam/#/stream/ChorusDryWet [0/1]
/wfs/fxParam/#/stream/FlangerRate [0/1]
/wfs/fxParam/#/stream/FlangerLoCut [0/1]
/wfs/fxParam/#/stream/FlangerLFOspeed [0/1]
/wfs/fxParam/#/stream/FlangerLFOdepth [0/1]
/wfs/fxParam/#/stream/FlangerLFOphase [0/1]
/wfs/fxParam/#/stream/FlangerFeedback [0/1]
/wfs/fxParam/#/stream/FlangerFeedbackPolarity [0/1]
/wfs/fxParam/#/stream/FlangerDryWet [0/1]
/wfs/fxParam/#/stream/TremoloSpeed [0/1]
/wfs/fxParam/#/stream/TremoloWaveform [0/1]
/wfs/fxParam/#/stream/TremoloDepth [0/1]
/wfs/fxParam/#/stream/TremoloDryWet [0/1]
/wfs/fxParam/#/stream/Reverb1Predelay [0/1]
/wfs/fxParam/#/stream/Reverb1Feedback [0/1]
/wfs/fxParam/#/stream/Reverb1DampingFreq [0/1]
/wfs/fxParam/#/stream/Reverb1Damping [0/1]
/wfs/fxParam/#/stream/Reverb1OutputTap [0/1]
/wfs/fxParam/#/stream/Reverb1Level [0/1]
/wfs/fxParam/#/stream/Reverb2Predelay [0/1]
/wfs/fxParam/#/stream/Reverb2FeedbackFrequency [0/1]
/wfs/fxParam/#/stream/Reverb2Feedback [0/1]
/wfs/fxParam/#/stream/Reverb2OutputTap [0/1]
/wfs/fxParam/#/stream/Reverb2Level [0/1]
/wfs/fxParam/#/stream/ReverbDryWet [0/1]
/wfs/fxParam/#/stream/DelayLoCut [0/1]
/wfs/fxParam/#/stream/DelayTime [0/1]

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/wfs/fxParam/#/stream/DelayModFreq [0/1]  
/wfs/fxParam/#/stream/DelayModDepth [0/1]  
/wfs/fxParam/#/stream/DelayRegen [0/1]  
/wfs/fxParam/#/stream/DelayLoShelfFreq [0/1]  
/wfs/fxParam/#/stream/DelayLoShelfGain [0/1]  
/wfs/fxParam/#/stream/DelayHiShelfFreq [0/1]  
/wfs/fxParam/#/stream/DelayHiShelfGain [0/1]  
/wfs/fxParam/#/stream/DelayDryWet [0/1]
```