

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]
/wfs/config/stageDepth [f]
/wfs/config/stageHeight [f]
/wfs/config/stageDimensions [f] [f] [f]
/wfs/config/originWidth [f]
/wfs/config/originDepth [f]
/wfs/config/originHeight [f]
/wfs/config/originPosition [f] [f] [f]
/wfs/config/flipX [i]
/wfs/config/flipY [i]
/wfs/config/flipZ [i]
/wfs/config/flipXYZ [i] [i] [i]
/wfs/config/speedOfSound [f]
/wfs/config/temperature [f]
/wfs/config/HaasEffect [f]
/wfs/config/globalLatency [f]
/wfs/config/masterLevel [f]
/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/
```

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/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]
```

SNAPSHOTS

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

OUTPUTS

```
/wfs/selectIO/output [i]
```

```
/wfs/output/#/latency [f] ms
/wfs/output/#/attenuation [f] dB
/wfs/output/#/positionX [f] m
/wfs/output/#/positionY [f] m
/wfs/output/#/positionZ [f] m
/wfs/output/#/positionXYZ [f] [f] [f] m m m
/wfs/output/#/orientation [i] -180°~180°
/wfs/output/#/angleOn [i] 1°~180°
/wfs/output/#/angleOff [i] 0°~179°
/wfs/output/#/HFDamping [f] 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] (not for reverb feeds)
/wfs/output/#/distanceAttenuationPercent [i] 0~200%
/wfs/output/#/Hparralax [f] >0
/wfs/output/#/Vparralax [f] (>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] (band#, mode, freq in Hz, gain in dB,
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)
/wfs/output/#/eq/freq [i] [f] (band#, freq in Hz)
/wfs/output/#/eq/gain [i] [f] (band#, gain in dB)
/wfs/output/#/eq/Q [i] [f] (band#, Q or slope)
/wfs/output/#/eq/slope [i] [f] (band#, Q or slope)
```

```
/wfs/output/#/get/all
/wfs/output/#/get/latency
/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/HFdamping
/wfs/output/#/get/group
/wfs/output/#/get/apply2group
/wfs/output/#/get/minilLatencyEnable
/wfs/output/#/get/liveSourceEnable
/wfs/output/#/get/distanceAttenuationPercent
/wfs/output/#/get/Hparralax
/wfs/output/#/get/Vparralax
/wfs/output/#/get/filter
/wfs/output/#/get/eq
```

REVERB FEEDS

```
/wfs/reverbFeed/#/latency [f] ms
/wfs/reverbFeed/#/attenuation [f] dB
/wfs/reverbFeed/#/positionX [f] m
/wfs/reverbFeed/#/positionY [f] m
/wfs/reverbFeed/#/positionZ [f] m
/wfs/reverbFeed/#/positionXYZ [f] [f] [f] m m m
/wfs/reverbFeed/#/orientation [i] -180°~180°
/wfs/reverbFeed/#/angleOn [i] 1°~180°
/wfs/reverbFeed/#/angleOff [i] 0°~179°
/wfs/reverbFeed/#/HFdamping [f] dB/m
/wfs/reverbFeed/#/miniLatencyEnable [0/1]
/wfs/reverbFeed/#/distanceAttenuationPercent [i] 0~200%
```

```
/wfs/reverbFeed/#/get/all
/wfs/reverbFeed/#/get/latency
/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/HFdamping
/wfs/reverbFeed/#/get/miniLatencyEnable
/wfs/reverbFeed/#/get/distanceAttenuationPercent
```

INPUTS

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

```
/wfs/input/#/latency [f (f)] ms / optional transfer time in seconds
/wfs/input/#/attenuation [f (f)] dB / optional transfer time in seconds
/wfs/input/#/curvature [0/1]
/wfs/input/#/control [i] 0 matrix, 1 manual, 2-11 Lemur 1-0
/wfs/input/#/positionX [f] m
/wfs/input/#/positionY [f] m
/wfs/input/#/positionZ [f] m
/wfs/input/#/positionXYZ [f] [f] [f] m m m
/wfs/input/#/constraintX [i]
/wfs/input/#/constraintY [i]
/wfs/input/#/constraintZ [i]
```

```
/wfs/input/#/constraintXYZ [i] [i] [i]
/wfs/input/#/flipX [i]
/wfs/input/#/flipY [i]
/wfs/input/#/flipZ [i]
/wfs/input/#/flipXYZ [i] [i] [i]
/wfs/input/#/heightFactor [i (f)] % / optional transfer time in seconds
/wfs/input/#/maxSpeed [f (f)] m/s (0: off) / optional transfer time in seconds
/wfs/input/#/distanceAttenuation [f (f)] dB/m / optional transfer time in seconds
/wfs/input/#/directivity [i (f)] 2°~360° / optional transfer time in seconds
/wfs/input/#/rotation [i (f)] -180°~180° / optional transfer time in seconds
/wfs/input/#/HFshelf [f (f)] dB / optional transfer time in seconds
/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] optional transfer time in seconds
/wfs/input/#/liveSourceAttenuation [f] optional transfer time in seconds
/wfs/input/#/liveSourceShape [i] 0:Linear, 1:Log, 2:Square x², 3:Sine
/wfs/input/#/mutes [i_list]
/wfs/input/#/delays [f_list] ms
/wfs/input/#/levels [f_list]
/wfs/input/#/HFDampings [f_list]
```

/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/latency
/wfs/input/#/get/attenuation
/wfs/input/#/get/curvature
/wfs/input/#/get/control
/wfs/input/#/get/positionX
/wfs/input/#/get/positionY
/wfs/input/#/get/positionZ
/wfs/input/#/get/positionXYZ
/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/heightFactor
/wfs/input/#/get/maxSpeed
/wfs/input/#/get/distanceAttenuation
/wfs/input/#/get/directivity
/wfs/input/#/get/rotation
/wfs/input/#/get/HFshelf
/wfs/input/#/get/levelMap
/wfs/input/#/get/liveSource
/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/latency [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/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/heightFactor [0/1]
/wfs/input/#/stream/maxSpeed [0/1]
/wfs/input/#/stream/distanceAttenuation [0/1]
/wfs/input/#/stream/directivity [0/1]
/wfs/input/#/stream/rotation [0/1]
/wfs/input/#/stream/HFshelf [0/1]
/wfs/input/#/stream/levelMap [0/1]
/wfs/input/#/stream/liveSource [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/#/curveXYZ [f: destination x] [f: destination y] [f: destination z]
[0 absolute/1 relative] [f: curve: 0.0 straight line, -1.0< <0.0 curve
downstage, 0.0> >1.0 curve upstage] [f: time in seconds] [f: 0.0 constant speed
~ 1.0 smoothed speed]
/wfs/input/#/curveXYZ/stop
/wfs/input/#/curveXYZ/pause [0/1]
/wfs/input/#/curveXYZ/moveSpeed [i] (0 to 200 %)

/wfs/input/#/lfo/active [0/1]
/wfs/input/#/lfo/gyrophone [0 off/1 clockwise/-1 anti-clockwise]
/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/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] [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/#/jitter [f] amplitude 0:off

/wfs/input/#/offset [f] [f] [f]

```

REVERB RETURNS

```

/wfs/selectIO/reverb [i]

/wfs/reverbReturn/#/latency [f] ms
/wfs/reverbReturn/#/attenuation [f]s
/wfs/reverbReturn/#/curvature [0/1]
/wfs/reverbReturn/#/positionX [f] m
/wfs/reverbReturn/#/positionY [f] m
/wfs/reverbReturn/#/positionZ [f] m
/wfs/reverbReturn/#/positionXYZ [f] [f] [f] m m m
/wfs/reverbReturn/#/heightFactor [i] %
/wfs/reverbReturn/#/distanceAttenuation [f] dB/m
/wfs/reverbReturn/#/directivity [i] 2°~360°
/wfs/reverbReturn/#/rotation [i] -180°~180°
/wfs/reverbReturn/#/HFshelf [f] 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/latency
/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/HFshelf
/wfs/reverbReturn/#/get/mutes

```