

API Reference

APICore messages

APICore handles connecting clients and communication.

ApiCoreHeartbeat

Type: outgoing - sent each 5 seconds to all clients

Address: /heartbeat

ApiCoreGetStatus

Type: incoming

Address: /getStatus

ApiCoreReady - response for ApiCoreGetStatus

Type: outgoing

Address: /ready

ApiCoreError

Type: outgoing

Address: /error

ApiCoreMessageRejected - response for ApiCoreGetStatus

Type: outgoing

Address: /messageRejected

Arguments:

1. int32 (reason) [1001 - invalid message, 1002 - unauthorized user, 1003 - parsing error]
2. int32 (rejectedMessageId) id of message (-1 if it has no id)
3. string (debug info)

ApiCoreGetServerInfo

Type: incoming query

Address: /getServerInfo

ApiCoreServerInfo

Type: outgoing query

Address: /serverInfo

Arguments:

1. string (deviceVersion)
2. string (deviceId)
3. string (processId)
4. int32 (anonymousLoginEnabled) bool value
5. int32 (userAuthenticated) bool value

ApiCoreLogin

Type: incoming query

Address: /login

Arguments:

1. string (password)

ApiCoreLoginResponse - response for ApiCoreLogin

Type: outgoing response

Address: /login

Arguments:

1. int32 (responseCode) [1000 - Ok, 1001 - Wrong credentials]
2. string (logTag)

ApiCoreAuthenticate

Type: incoming query

Address: /authenticate

Arguments:

1. string (logTag) Token got when logged in

ApiCoreAuthenticationResponse - response for ApiCoreAuthenticate

Type: outgoing response

Address: /authenticationResponse

Arguments:

1. int32 (responseCode) [1000 - Ok, 1001 - wrong logtag]

Audio Core messages

AudioCore is the root instance of the whole system. It owns all tracks, input/output proxies, handles callbacks, connections and more.

AudioCoreAddTrack

Type: incoming

Address: /audioCore/addTrack

Arguments:

1. int32 (trackType) [1 - AudioTrack, 2 - FxTrack, 3 - MixBusTrack, 4 - OutputBusTrack]
2. int32 (trackPosition) [-1 for end of list]

AudioCoreTrackAdded

Type: outgoing

Address: /audioCore/trackAdded

Arguments:

1. string (trackId)
2. int32 (trackPosition) [-1 for end of list]

AudioCoreRemoveTrack

Type: incoming

Address: /audioCore/removeTrack

Arguments:

1. string (trackId)

AudioCoreTrackRemoved

Type: outgoing

Address: /audioCore/trackRemoved

Arguments:

1. string (trackId)

AudioCoreMoveTrack - moves track in list of tracks

Type: incoming

Address: /audioCore/moveTrack

Arguments:

1. string (trackId)
2. int32 (newTrackPosition) [-1 for end of list]

AudioCoreTrackMoved

Type: outgoing

Address: /audioCore/trackMoved

Arguments:

1. string (trackId)
2. int32 (oldTrackPosition)
3. int32 (newTrackPosition) [-1 for end of list]

AudioCoreConnectNodes - connects two mixer nodes (tracks, input/output proxies)

Type: incoming

Address: /audioCore/connectNodes

Arguments:

1. string (sourceNodeId)
2. string (receiverNodeId)

AudioCoreRemoveNodesConnection

Type: incoming

Address: /audioCore/removeNodesConnection

Arguments:

1. string (sourceNodeId)
2. string (receiverNodeId)

AudioCoreConnectionsChanged

Type: outgoing

Address: /audioCore/connectionsChanged

AudioCoreGetTracksList

Type: incoming query

Address: /audioCore/getTracksList

AudioCoreTracksList

Type: outgoing response

Address: /audioCore/tracksList

Arguments:

1. string (trackIds) JSON array of strings (array of track ids)

AudioCoreGetInputProxiesList

Type: incoming query

Address: /audioCore/getInputProxiesList

AudioCoreInputProxiesList

Type: outgoing response

Address: /audioCore/inputProxiesList

Arguments:

1. string (proxyIds) JSON array of strings (array of proxy ids)

AudioCoreInputProxyAdded

Type: outgoing

Address: /audioCore/inputProxyAdded

Arguments:

1. string (proxyId)
2. string (proxyName)

AudioCoreInputProxyRemoved

Type: outgoing

Address: /audioCore/inputProxyRemoved

Arguments:

1. string (proxyId)

AudioCoreGetOutputProxiesList

Type: incoming query

Address: /audioCore/getOutputProxiesList

AudioCoreOutputProxiesList

Type: outgoing response

Address: /audioCore/outputProxiesList

Arguments:

1. string (proxyIds) JSON array of strings (array of proxy ids)

AudioCoreOutputProxyAdded

Type: outgoing

Address: /audioCore/outputProxyAdded

Arguments:

1. string (proxyId)
2. string (proxyName)

AudioCoreOutputProxyRemoved

Type: outgoing

Address: /audioCore/outputProxyRemoved

Arguments:

1. string (proxyId)

AudioCoreGetAvailableInputSourcesList

Type: incoming query

Address: /audioCore/getAvailableInputSourcesList

Arguments:

1. string (receiverNodeId)

AudioCoreAvailableInputSourcesList - list of other nodes a node can connect to

Type: outgoing response

Address: /audioCore/availableInputSourcesList

Arguments:

1. string (sources) JSON array of nodes [UUID, name, color, active]

AudioCoreGetAvailableOutputReceiversList

Type: incoming query

Address: /audioCore/getAvailableOutputReceiversList

Arguments:

1. string (sourceNodeId)

AudioCoreAvailableOutputReceiversList - list of other nodes a node can connect to

Type: outgoing response

Address: /audioCore/availableOutputReceiversList

Arguments:

1. string (receivers) JSON array of nodes [UUID, name, color, active]

AudioCoreGetGlobalAudioLatency

Type: incoming query

Address: /audioCore/getGlobalAudioLatency

AudioCoreGlobalAudioLatency

Type: outgoing response

Address: /audioCore/globalAudioLatency

Arguments:

1. int32 (latencySamples)
2. float (latencyMs)

AudioCoreGlobalAudioLatencyChanged

Type: outgoing

Address: /audioCore/globalAudioLatencyChanged

Arguments:

1. int32 (latencySamples)
2. float (latencyMs)

AudioCoreSignalLevels

Type: outgoing

Address: /audioCore/signalLevels

Arguments:

1. int32 (numTracks)
2. blob (tracksSignalLevels) 16bit PCM data tracks one-by-one [leftChan, rightChan]
3. blob (soloBusSignalLevels) 16bit PCM data [leftChan, rightChan]
4. blob (trackClipData) bit mask, each track has one bit indicating clip

AudioCoreAddListener - registers a client to listen for events

Type: incoming

Address: /audioCore/addListener

Registers for:

- AudioCoreTrackAdded
- AudioCoreTrackRemoved
- AudioCoreTrackMoved
- AudioCoreConnectionsChanged
- AudioCoreInputProxyAdded
- AudioCoreInputProxyRemoved
- AudioCoreOutputProxyAdded
- AudioCoreOutputProxyRemoved
- AudioCoreGlobalAudioLatencyChanged

AudioCoreRemoveListener

Type: incoming

Address: /audioCore/removeListener

AudioCoreAddSignalLevelListener - registers a client to listen for streaming of tracks signal levels

Type: incoming

Address: /audioCore/addSignalLevelListener

Arguments:

1. int32 (refreshIntervalHz) Interval in which stream data (from 1 to 30 Hz)

Registers for:

- AudioCoreSignalLevels

AudioCoreRemoveSignalLevelListener

Type: incoming

Address: /audioCore/removeSignalLevelListener

AudioCoreAudioData - message containing audio samples

Type: outgoing

Address: /audioCore/audioData

Arguments:

1. int32 (numSamples) number of samples in each channel
2. int32 (numChannels)
3. blob (audioSamples) 16bit PCM audio sample data - channels one after another

Track messages

TrackGetDetail

Type: incoming query

Address: /track/{trackId}/getDetail

TrackDetail

Type: outgoing response

Address: /track/{trackId}/detail

Arguments:

1. int32 (trackType) [1 - AudioTrack, 2 - FxTrack, 3 - MixBusTrack, 4 - OutputBusTrack]
2. float32 (gain)
3. float32 (pan)
4. int32 (mute) bool value
5. int32 (solo) bool value
6. int32 (recordArm) bool value
7. string (name)
8. string (colour) hex value
9. string (pluginIds) JSON array of plugin IDs in the chain
10. string (sendIds) JSON array of send IDs

TrackSetGain

Type: incoming

Address: /track/{trackId}/setGain

Arguments:

1. float32 (gain)

TrackGainChanged

Type: outgoing

Address: /track/{trackId}/gainChanged

Arguments:

1. float32 (gain)

TrackSetPan

Type: incoming

Address: /track/{trackId}/setPan

Arguments:

1. float32 (pan)

TrackPanChanged

Type: outgoing

Address: /track/{trackId}/panChanged

Arguments:

1. float32 (pan)

TrackSetMute

Type: incoming

Address: /track/{trackId}/setMute

Arguments:

1. int32 (mute) bool value

TrackMuteChanged

Type: outcoming

Address: /track/{trackId}/muteChanged

Arguments:

1. int32 (mute) bool value

TrackSetSolo

Type: incoming

Address: /track/{trackId}/setSolo

Arguments:

1. int32 (solo) bool value

TrackSoloChanged

Type: outcoming

Address: /track/{trackId}/soloChanged

Arguments:

1. int32 (solo) bool value

TrackSetRecordArm

Type: incoming

Address: /track/{trackId}/setRecordArm

Arguments:

1. int32 (recordArm) bool value

TrackRecordArmChanged

Type: outcoming

Address: /track/{trackId}/recordArmChanged

Arguments:

1. int32 (recordArm) bool value

TrackSetName

Type: incoming

Address: /track/{trackId}/setName

Arguments:

1. string (name)

TrackNameChanged

Type: outcoming

Address: /track/{trackId}/nameChanged

Arguments:

1. string (name)

TrackSetColour

Type: incoming

Address: /track/{trackId}/setColour

Arguments:

1. string (colour) hex value

TrackColourChanged

Type: outgoing

Address: /track/{trackId}/colourChanged

Arguments:

1. string (colour) hex value

TrackAddSendNode

Type: incoming

Address: /track/{trackId}/addSendNode

Arguments:

1. int32 (audioSourcePosition) [0 - before plugins, 1 - 999 after nth plugin, 1000 - after plugins, 1001 - after fader]
2. int32 (sendPosition) (-1 end of list)

TrackSendAdded

Type: outgoing

Address: /track/{trackId}/sendAdded

Arguments:

1. string (sendId)
2. int32 (sendPosition) (-1 end of list)

TrackRemoveSendNode

Type: incoming

Address: /track/{trackId}/removeSendNode

Arguments:

1. string (sendId)

TrackSendRemoved

Type: outgoing

Address: /track/{trackId}/sendRemoved

Arguments:

1. string (sendId)

TrackMoveSendNode - moves send in list

Type: incoming

Address: /track/{trackId}/moveSendNode

Arguments:

1. string (sendId)
2. int32 (sendPosition)

TrackSendMoved

Type: outcoming

Address: /track/{trackId}/sendMoved

Arguments:

1. string (sendId)
2. int32 (oldPosition)
3. int32 (newPosition)

TrackAddPlugin

Type: incoming

Address: /track/{trackId}/addPlugin

Arguments:

1. int32 (pluginTypeId)
2. int32 (pluginPosition) (-1 end of list)

TrackPluginAdded

Type: outcoming

Address: /track/{trackId}/pluginAdded

Arguments:

1. string (pluginId)
2. int32 (pluginPosition) (-1 end of list)

TrackRemovePlugin

Type: incoming

Address: /track/{trackId}/removePlugin

Arguments:

1. string (pluginId)

TrackPluginRemoved

Type: outcoming

Address: /track/{trackId}/pluginRemoved

Arguments:

1. string (pluginId)

TrackMovePlugin

Type: incoming

Address: /track/{trackId}/movePlugin

Arguments:

1. string (pluginId)
2. int32 (position) (-1 end of list)

TrackPluginMoved

Type: outcoming

Address: /track/{trackId}/pluginMoved

Arguments:

1. string (pluginId)
2. int32 (oldPosition)
3. int32 (newPosition) (-1 end of list)

TrackAddInfoListener

Type: incoming

Address: /track/{trackId}/addInfoListener

Registers for:

- TrackNameChanged
- TrackColourChanged

TrackRemoveInfoListener

Type: incoming

Address: /track/{trackId}/removeInfoListener

TrackAddControlsListener

Type: incoming

Address: /track/{trackId}/addControlsListener

Registers for:

- TrackGainChanged
- TrackPanChanged
- TrackMuteChanged
- TrackSoloChanged
- TrackRecordArmChanged

TrackRemoveControlsListener

Type: incoming

Address: /track/{trackId}/removeControlsListener

TrackAddPluginsListener

Type: incoming

Address: /track/{trackId}/addPluginsListener

Registers for:

- TrackPluginAdded
- TrackPluginRemoved
- TrackPluginMoved

TrackRemovePluginsListener

Type: incoming

Address: /track/{trackId}/removePluginsListener

TrackAddSendsListener

Type: incoming

Address: /track/{trackId}/addSendsListener

Registers for:

- TrackSendAdded
- TrackSendRemoved
- TrackSendMoved

TrackRemoveSendsListener

Type: incoming

Address: /track/{trackId}/removeSendsListener

TrackSendNode messages

SendGetDetail

Type: incoming query

Address: /send/{sendId}/getDetail

SendDetail

Type: outgoing response

Address: /send/{sendId}/detail

Arguments:

1. float32 (gain)
2. float32 (pan)
3. string (name)
4. string (colour) hex value
5. int32 (audioSourcePosition)

SendSetGain

Type: incoming

Address: /send/{sendId}/setGain

Arguments:

1. float32 (gain)

SendGainChanged

Type: outgoing

Address: /send/{sendId}/gainChanged

Arguments:

1. float32 (gain)

SendSetPan

Type: incoming

Address: /send/{sendId}/setPan

Arguments:

1. float32 (pan)

SendPanChanged

Type: outgoing

Address: /send/{sendId}/panChanged

Arguments:

1. float32 (pan)

SendSetAudioSourcePosition

Type: incoming

Address: /send/{sendId}/setAudioSourcePosition

Arguments:

1. int32 (audioSourcePosition) [0 - before plugins, 1 - 999 after nth plugin, 1000 - after plugins, 1001 - after fader]

SendAudioSourcePositionChanged

Type: outcoming

Address: /send/{sendId}/audioSourcePositionChanged

Arguments:

1. int32 (audioSourcePosition) [0 - before plugins, 1 - 999 after nth plugin, 1000 - after plugins, 1001 - after fader]

SendSetName

Type: incoming

Address: /send/{sendId}/setName

Arguments:

1. string (name)

SendNameChanged

Type: outcoming

Address: /send/{sendId}/nameChanged

Arguments:

1. string (name)

SendColourChanged

Type: outcoming

Address: /send/{sendId}/colourChanged

Arguments:

1. string (colour) hex value

SendAddInfoListener

Type: incoming

Address: /send/{sendId}/addInfoListener

Registers for:

- SendNameChanged
- SendColourChanged

SendRemoveInfoListener

Type: incoming

Address: /send/{sendId}/removeInfoListener

SendAddControlsListener

Type: incoming

Address: /send/{sendId}/addControlsListener

Registers for:

- SendGainChanged
- SendPanChanged

SendRemoveControlsListener

Type: incoming

Address: /send/{sendId}/removeControlsListener

SendAddAudioSourcePositionListener

Type: incoming

Address: /send/{sendId}/addAudioSourcePositionListener

Registers for:

- SendAudioSourcePositionChanged

SendRemoveAudioSourcePositionListener

Type: incoming

Address: /send/{sendId}/removeAudioSourcePositionListener

Plugin messages

PluginGetDetail

Type: incoming query

Address: /plugin/{pluginId}/getDetail

PluginDetail

Type: outgoing response

Address: /plugin/{pluginId}/detail

Arguments:

1. string (name)
2. string (type)
3. int32 (typeId)
4. int32 (bypassed) bool value
5. int32 (active) bool value

PluginGetParameterValues

Type: incoming query

Address: /plugin/{pluginId}/getParameterValues

PluginParameterValues

Type: outgoing response

Address: /plugin/{pluginId}/parameterValues

Arguments:

1. string (values) JSON array of pairs [numericValue, textValue]

PluginGetParameters

Type: incoming query

Address: /plugin/{pluginId}/getParameters

PluginParameters

Type: outgoing response

Address: /plugin/{pluginId}/parameters

Arguments:

1. string (parameters) JSON array of tuples [index, ref, value, textValue]

PluginSetName

Type: incoming

Address: /plugin/{pluginId}/setName

Arguments:

1. string (name)

PluginNameChanged

Type: outgoing

Address: /plugin/{pluginId}/nameChanged

Arguments:

1. string (name)

PluginSetActive

Type: incoming

Address: /plugin/{pluginId}/setActive

Arguments:

1. int32 (active) bool value

PluginActiveChanged

Type: outcoming

Address: /plugin/{pluginId}/activeChanged

Arguments:

1. int32 (active) bool value

PluginSetBypass

Type: incoming

Address: /plugin/{pluginId}/setBypass

Arguments:

1. int32 (bypassed) bool value

PluginBypassChanged

Type: outcoming

Address: /plugin/{pluginId}/bypassChanged

Arguments:

1. int32 (bypassed) bool value

PluginSetParameterValue

Type: incoming

Address: /plugin/{pluginId}/setParameterValue

Arguments:

1. int32 (parameterIndex)
2. float (newValue)

PluginParameterValueChanged

Type: outcoming

Address: /plugin/{pluginId}/parameterValueChanged

Arguments:

1. int32 (parameterIndex)
2. float (newValue)
3. string (newValueText)

PluginAddListener

Type: incoming

Address: /plugin/{pluginId}/addListener

Registers for:

- PluginNameChanged

PluginRemoveListener

Type: incoming

Address: /plugin/{pluginId}/removeListener

PluginAddParameterListener

Type: incoming

Address: /plugin/{pluginId}/addParameterListener

Registers for:

- PluginParameterValueChanged

PluginRemoveParameterListener

Type: incoming

Address: /plugin/{pluginId}/removeParameterListener

PluginAddBypassListener

Type: incoming

Address: /plugin/{pluginId}/addBypassListener

Registers for:

- PluginBypassChanged

PluginRemoveBypassListener

Type: incoming

Address: /plugin/{pluginId}/removeBypassListener

PluginAddActiveListener

Type: incoming

Address: /plugin/{pluginId}/addActiveListener

Registers for:

- PluginActiveChanged

PluginRemoveActiveListener

Type: incoming

Address: /plugin/{pluginId}/removeActiveListener

Solo bus messages

SoloBusAddAudioDataListener

Type: incoming

Address: /soloBus/addAudioDataListener

Arguments:

1. int32 (minNumSamples) Minimal number of samples in each message

Registers for:

- AudioCoreAudioData

SoloBusRemoveAudioDataListener

Type: incoming

Address: /soloBus/removeAudioDataListener

PluginManager messages

PluginManagerGetPluginTypes

Type: incoming query

Address: /pluginManager/getPluginTypes

PluginManagerPluginTypes

Type: outgoing response

Address: /pluginManager/pluginTypes

Arguments:

1. string (pluginTypes) JSON array of tuples [pluginTypeId, name, manufacturerName]

PluginManagerScanPluginTypes

Type: incoming

Address: /pluginManager/scanPluginTypes

PluginManagerScanPluginTypesIfNeeded

Type: incoming

Address: /pluginManager/scanPluginTypesIfNeeded

PluginManagerPluginTypesScanStarted

Type: outgoing

Address: /pluginManager/pluginManagerPluginTypesScanStarted

PluginManagerPluginTypesScanned

Type: outgoing

Address: /pluginManager/pluginManagerPluginTypesScanned

Arguments:

1. int32 newNumPlugins

PluginManagerPluginTypeAdded - Called when plugin is imported by user (not during scan)

Type: outgoing

Address: /pluginManager/pluginTypeAdded

Arguments:

1. int32 pluginTypeId
2. string pluginName
3. string manufacturerName

PluginManagerAddListener

Type: incoming

Address: /pluginManager/addListener

Registers for:

- PluginManagerPluginTypesScanStarted
- PluginManagerPluginTypesScanned

PluginManagerRemoveListener

Type: incoming

Address: /pluginManager/removeListener

StateManager messages

StateManagerSaveState

Type: incoming query

Address: /stateManager/saveState

StateManagerLoadState

Type: incoming query

Address: /stateManager/loadState

StateManagerGetState

Type: incoming query

Address: /stateManager/getState

StateManagerState

Type: outgoing response - for save/set/load messages

Address: /stateManager/state

Arguments:

1. string (stateXML)

StateManagerSetState

Type: incoming query

Address: /stateManager/setState

Arguments:

1. string (stateXML)

StateManagerProcessResult

Type: outgoing response

Address: /stateManager/processResult

Arguments:

1. int32 (processOk) bool value