Remote Protocol

Octopus has a built in protocol and includes almost every controller command. Octopus listens on the remote server via the TCP/IP port#(default is 9090), UDP/OSC port# (default is 9090) and HTTP port# 8080 or 8081. To adjust the TCP/UDP/OSC port #'s: Go to Octopus Preferences - Remote Server. Shortcut(⌘,) The HTTP Remote Server uses the Admin Server or Web Server, depending on which port# the commands are sent to. The server receiving the commands needs to be running.

1. Command Syntax.

- Every command must start with the header(Oct), followed by a comma(,), which is then followed by the specific command type(Type), and a comma(,), then the parameters necessary and a carriage return(0D) to end the command.

- OSC command protocols are the same, except the command needs to start with a forward slash(/). A carriage return(0D) is not required. Octopus will accept a String, Integer, or float OSC command. The whole command should be sent via the OSC address.

  - **Examples**

    - Recall Preset #1. Oct,PresetT,1,Recall0D
    - Start Timer #1. Oct,TimerT,1,Start,00:00:100D
    - Resume Timer #1. Oct,TimerT,1,Resume0D

2. Response Syntax.

- If the command is accepted by Octopus, it will respond with an ACK message. If the command was not understood or missing some parameter, it will respond with a Error message

  - **Examples**

    - ACK message. ACK,Oct,PresetT,1,Recall
    - Error message. Error,Oct,PresetT,1,Recall,Invalid #

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3. Protocol Commands.

1. Presets.

- {PresetT,#,Param1,Param2} Preset Transport, Preset#, Type (Recall/Stop/Pause/Resume) , Value(Is optional and only required if the type is Recall - Default/Off/On).
- {PresetN,#,Param1} Preset Name, Preset#, Name
- {PresetPS,#,Param1,Param2,Param3,Param4} Preset Position/Size, Preset#, Left, Top, Width, Height (To use its current Position/Size, leave the specified value empty or use Self)
- {PresetTF,#,Param1} Preset Text Font, Preset#, Font name
- {PresetTS,#,Param1} Preset Text Size, Preset#, Size
- {PresetB,#,Param1} Preset Bezel, Preset#, Value(On/Off)
- {PresetBC,#,Param1,Param2,Param3} Preset Button color, Preset#, Red, Green, Blue
- {PresetTC,#,Param1,Param2,Param3} Preset Text color , Preset#, Red, Green, Blue
- {PresetV,#,Param1} Preset Value, Preset#, Value(On/Off)
- {PresetER,#,Param1} Preset External Recall, Preset#, Value (Enabled/Enable/Disabled/Disable)
- {Preset?,#} Returns the Preset # specified info (if available). ex:(Name,Status,Value,External Recall) Name parameter = Name, Status parameter = Running/Paused/Not Running, Value parameter = On/Off, External Recall parameter = True/False

2. Containers.

- {ContainerN,#,Param1} Container Name, Container#, Name
- {ContainerPS,#,Param1,Param2,Param3,Param4} Container Position/Size, Container#, Left, Top, Width, Height (To use its current Position/Size, leave the specified value empty or use Self)
- {ContainerTF,#,Param1} Container Text Font, Container#, Font name
- {ContainerTS,#,Param1} Container Text Size, Container#, Size
- {ContainerTP,#,Param1} Container Text Position, Container#, Value(Left/Center/Right)
- {ContainerB,#,Param1} Container Border, Container#, Value(On/Off)
- {ContainerBKC,#,Param1,Param2,Param3} Container BK color, Container#, Red, Green, Blue

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- {ContainerTC,#,Param1,Param2,Param3} Container Text color , Container #, Red, Green, Blue
- {Container?,#} Returns the Container # specified info (if available). ex:(Name) Name parameter = Name

3. Devices.

- {DeviceS,#,Param1} Device Status, Device#, Value (Enabled/Enable/Disabled/Disable)
- {DeviceF,#,Param1} Device Feedback, Device#, Value (Show/Hide)
- {Device?,#} Returns the Device # specified info (if available). ex:(Name,Status,Feedback) Name parameter = Name, Status parameter = True/False, Feedback parameter = Show/Hide

4. Timers.

- {TimerT,#,Param1,Param2} Timer Transport, Timer#, Type (Start/Resume/Pause/Reset), Time(Only required if Type is Start, format = 00:00:00)
- {TimerTi,#,Param1} Timer Time, Timer#, Time(Format = 00:00:00)
- {TimerD,#,Param1} Timer Direction, Timer#, Direction (CountDown/Down/CD/CountUp/Up/CU)
- {TimerL,#,Param1} Timer Loop, Timer#, Loop(On/Off)
- {TimerN,#,Param1} Timer Name, Timer#, Name
- {TimerBGC,#,Param1,Param2,Param3} Timer BG color, Timer#, Red, Green, Blue
- {TimerTC,#,Param1,Param2,Param3} Timer Text color, Timer#, Red, Green, Blue
- {Timer?,#} Returns the Timer # specified info (if available). ex:(Name,Status,Time,Direction,Loop) Name parameter = Name, Status parameter = Running/Not Running, Time parameter = 00:00:00, Direction parameter = Down/Up, Loop parameter = On/Off

5. Variables.

- {VarS,#,Param1} Variable Set, Variable#, Value
- {Var?,#} Returns the Variable # specified info (if available). ex:(Name,Type,Staus) Name parameter = Name, Type parameter = String/Integer/Boolean, Status parameter = Value

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6. Scripts.

- {ScriptT,#,Param1} Script Transport, Script#, Type(Start/Stop)
- {Script?,#} Returns the Script # specified info (if available).
  ex:(Name,Status) Name parameter = Name, Status parameter = Running/Not Running

7. Audio.

- {AudioT,#,Param1} Audio Transport, Audio#, Type (Play/Pause/Stop/Stop all/ Pause all)
- {AudioV,#,Param1} Audio Volume, Audio#, Value(Default/Mute/0-100)
- {AudioL,#,Param1} Audio Loop, Audio#, Value(On/Off)
- {Audio?,#} Returns the Audio # specified info (if available).
  ex:(Name,Status,TRT,RT,Volume,Loop) Name parameter = Name, Status parameter = Running/Not Running, TRT parameter = 00:00:00, RT parameter = 00:00:00, Volume parameter = Mute/1-100, Loop parameter = On/Off

8. Speech.

- {Speech,Param1,Param2} Speech, Value, Voice(Optional)

9. External Recall.

- {ExternalRecall,Param1,Param2} ExternalRecall, Type(Global Keystrokes/ Keystrokes/Global Remote Server/OSC,Remote Server/OSC,Global Midi/Midi), Value(Enabled/Enable/Disabled/Disable)
- {ExternalRecall?,Param1} Returns the ExternalRecall specified(All,Global Keystrokes,Keystrokes,Global Remote Server/OSC,Remote Server/OSC,Global Midi,Midi) info. ex:(Status) Status parameter = Enabled/Disabled

10. Triggers.

- {Triggers,Param1,Param2} Triggers, Type(Global TOD/TOD/Global MTC/MTC/ Global Timer/Timer/Global Device/Device), Value(Enabled/Enable/Disabled/Disable)
- {Triggers?,Param1} Returns the Triggers specified(All/Global TOD/TOD/ Global MTC/MTC/Global Timer/Timer/Global Device/Device) info. ex:(Status) Status parameter = Enabled/Disabled

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11. Cuelists.

- {CuelistT,#,Param1,Param2} Cuelist Transport, Cuelist#, Type(Take/Stop/Reset/ Goto), Cue#(Only required if Type is Goto)
- {CuelistER,#,Param1} Cuelist External Recall, Cuelist#, Value(Enabled/Enable/ Disabled/Disable)
- {Cuelist?,#} Returns the Cuelist # specified info (if available). ex:(Name,Status,Cue,External Recall) Name parameter = Name, Status parameter = Running/Not Running, Cue parameter = #, External Recall parameter = True/False

12. Web Server.

- {Web ServerS,Param1} Web Server Status, Value(Start/Stop)
- {Web ServerR,Param1} Incoming Web Requests, Value(Enabled/Enable/ Disabled/Disable)
- {Web Server?} Returns the Web Server info. ex:(Status,Guests,Allow Requests) Status parameter = Running/Not Running, Guest parameter = #, Allow Requests parameter = Enabled/Disabled

13. Windows.

- {WindowS,Param1,Param2} Window Status, Window(0/Configuration, 1/Main, 2/Web Server, 3/Router Panel, 4/Cuelist Panel, 5/Notes, 6/MTC, 7/Activity Monitor, 8/Debug, T#), Value(Open/Close)
- {Window?,#} Returns the Window #/Name specified(All, 0/Configuration, 1/Main, 2/Web Server, 3/Router Panel, 4/Cuelist Panel, 5/Notes, 6/MTC, 7/Activity Monitor, 8/Debug, T#) info. ex:(Status) Status parameter = Open/Close

14. Pages.

- {PageT,Param1,Param2,Param3} Page Transport, Window(Main/Web Server), Type(Goto/Next/Previous), Page#(Only required if Type is Goto)
- {Page?,Param1} Returns the Window Name(Main/Web Server) info. ex:(Names,Status) Names parameter = All Page names, Status parameter = Selected Page #

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15 Shell.

- {Shell,Param1,Param2} Shell Command, Command, Password(Optional)

16. General.

- {AllowIncoming,Param1} Incoming Remote Server/OSC Requests, Value(Enabled/Enable/Disabled/Disable)
- {AllowIncoming?} Returns Incoming Remote Server/OSC Requests info. ex:(Status) Status parameter = Enabled/Disabled
- {Quit} This will Quit Octopus
- {?} Sends all available commands