**APPENDIX 11 – PIS Monitoring and Controlling Functional Interface**

**Monitoring Functional Interface**

| **NetSpire Class Reference** | **NetSpire Member Function** | **Description** | **Data Type** | **Remarks** |
| --- | --- | --- | --- | --- |
| AudioServer | getEventList | Returns a list of all unread events raised and stored in the connected CXS |  |  |
| EventItem |  | Indicate the date and time when the event was raised | enum | COMMS\_LINK\_UP = 0  COMMS\_LINK\_DOWN  AUDIO\_SERVER\_CONNECTED  AUDIO\_SERVER\_DISCONNECTED  DEVICE\_STATE\_CHANGED  DEVICE\_DELETED  PA\_SOURCE\_UPDATED  PA\_SOURCE\_DELETED  PA\_SINK\_UPDATED  PA\_SINK\_DELETED  PA\_TRIGGER\_UPDATED  PA\_TRIGGER\_DELETED  PA\_SELECTOR\_UPDATED  PA\_SELECTOR\_DELETED  CALL\_UPDATED  CALL\_DELETED  CDR\_MESSAGE\_UPDATED  CDR\_MESSAGE\_DELETED |
| Device | getState | Returns the current state of this device | Enum | IDLE : No Call in progress, device is available ALERTING : Processing a call request, no call exists yet ACTIVE : A call is in progress HELD : the call at this device is on hold ESCALATED : A call has an escalated call ISOLATED : the device is unable to function or respond FAULTY : the device is fully or partly reporting a faulty status COMMSFAULT : device unreachable, state can't be determined INACTIVE : device is functioning in a limited mode  For specific state each device refer to Appendix I. |
|  | getCondition | Gets the value of a condition variable |  |  |
| PAController | getPaSource | Returns the list of available PA sources accessible to the user | array |  |
|  | getPaSinks | Returns a list of all audio sinks | array |  |
|  | getDisplays | Returns a list of all Visual Displays | array |  |
|  | getPaZones | Returns a list of all audio zones | string array |  |
|  | getPaSelector | Returns a list of all available zone selectors for the source | array |  |
|  | getPaSelectorState | Returns current state of a zone selector |  |  |
|  | listSchedule | list all schedule messages |  |  |
| Message | getAudioMessageTTSText | Returns the text set for TTS playback | string |  |
|  | getAudioMessageTTSVoice | Returns the voice set for TTS playback | string |  |
| PaSource | getHealthState | Returns the current health state for a PaSource | enum | UNKNOWN\_HEALTHSTATE : the device is not setup for health check and cannot report a health status HEALTHY : the source is detected to be healthy FAULTY : A fault is detected with the source |
| PaSink | getHealthState | Returns the current health state for a PaSink | Enum | UNKNOWN\_HEALTHSTATE : the device is not setup for health check and cannot report a health status HEALTHY : all speakers on the bus are reported to be within the calibrated value MINOR\_FAULTY : one or some but not all of the speakers on a multi-speaker bus is reported as faulty MAJOR\_FAULTY : the system is reporting a total outage for the PaSink or a significant percentage of the speakers on a multi-speaker bus are reported as faulty |
| VisualDisplay | getHealthState | Returns the current health state for a VisualDisplay | Enum | UNKNOWN\_HEALTHSTATE : there is no communication to the display devices and its health state cannot be determined HEALTHY : there is communications to the display device and the display is reporting helathy FAULTY : there is no communications to the display device and the display is reporting a fault |
| PaZone | getMembers | Returns the list of member PaSinks | array |  |
| CallController | getCalls | Returns a list of active calls | array |  |

**Controlling Functional Interface**

| **NetSpire Class Reference** | **NetSpire Member Function** | **Description** | **data type** | **parameter** |
| --- | --- | --- | --- | --- |
| PAController | setPaMonitorSink | allows an application to monitor a particular sink on another sink | int | sinkId sinkIdToMonitor |
| activateSwPaTrigger | Activates a software trigger, which starts announcement from source | int | triggerId |
| enablePaSelector | Activates a zone selector | int | selectorId |
| disablePaSelector | Deactivates a zone selector |
| playMessage | extended form for initiating message with TTS and Template Support | unsigned int | zones visualDevices gain dictionaryItems visualText resumeOnInterruptFlag overrideExisting validityPeriod priority mode |
| createSchedule | Schedule messages on Audio Zones and or Visual Displays |  | scheduleDef |
| Message | setRequestID | provides an ID for the playback request |  | id |
| setPreChime | specifies a chime is to be played prior to the audio content of the message | int | chime |
| setPriority | Specifies the requested message priority |  | priority |
| setMessageType | Sets audio message type to one of the supported formats | Enum  multi state | type  0 = LIVE\_STREAM  1 = RECORDED\_STREAM  2 = DICTIONARY  3 = DISPLAY  4 = TTS  5 = BGM  7 = NONE  8 = TEMPLATE |
| setAudioMessage | sets audio message contents to a list of dictionary |  | dictionaryItems templateName arguments |
| setVisualMessage | sets visual message contents to a list of dictionary items |  | dictionaryItems text |
| PaSource | attachPaZone | manually attaches a zone to established a route |  | zoneId mode |
| PaSink | setPAMonitoring | enables/disables PA and DVA Monitoring | bool | enabled |
| setCallMonitoring | Enables/disables call monitoring | bool | enabled |
| PaZone | setMembers | assigns member PaSinks comprising a PaZone |  | sinkIDList isPersistent |
| CallController | createCall | initiates a new call between two parties | int | aPartyCLI bPartyCLI |
| answerCallOnTerminal | answer an incoming call on specified terminal |  | callReference bPartyCLI aPartyCLI |
| terminateCall | ends a call |  | callReference callConnection |