**APPENDIX 12 – PIS Health and Alarm Status Device**

| **Device** | **Data Type** | **State/Fault** | **Description** |
| --- | --- | --- | --- |
| CXS | State | Idle | Communications Exchange Server is healthy and currently operating in secondary role |
| Isolated | Communications Exchange Server has been disabled by an external controller or UI. The unit will not be considered for use as a primary server |
| Active | Communication Exchange Server is healthy and currently operating in primary role |
| Faulty | A fault has been detected on the unit. If the unit is still capable of being used (non-fatal fault), the fault information is shown in the Supplementary Field of the idle state (If Secondary) or the Active State (if primary) |
| Comms Fault | The primary communications Exchange Server cannot communicate with or detect the other on the train's networks. This may indicate either a network fault or failed unit. |
| NAC | State | Idle | DVA/PA is not playing any Audio System controlled messages. The Supplementary fields is used to display non-fatal faults with the device. |
|  | Isolated | DVA/PA has been disabled by an external controller or UI. Requests to play messages will or stream PA will be ignored. |
|  | Active | DVA/PA is playing an Audio System controlled message. The message may be any DVA/PA when Public Address announcements interrupt DVA messages this states does not change.  Zone\_List contains a comma separated list of zones where DVA is active  Message\_Id contains a comma separated list of dictionary item numbers playing in currently active zones. |
|  | Faulty | A fatal fault has been detected. If the unit is still capable of being used (non-fatal fault), the fault indication will be shown in the Supplementary Field when in the idle state |
|  | Comms Fault | Communication Exchange Server cannot communicate or detect the device. This indicates either a network fault or failed unit |
|  | Fault | OVERHEAT | The device has exceeded the maximum supported temperature |
|  | AMP\_OVERHEAT\_# | Amplifier channel (1-N) has exceeded the maximum supported temperature. N=number of amplifier channel |
|  | AMP\_PROTECTION\_# | Amplifier channer (1-N) has triggered the output protection circuit as would occur if the amplifier output is short circuited or an over voltage/over-current situation exists. |
|  | AMP\_FAULT\_# | Amplifier channel (1-N) is not oscillating or is not responding to communication requests. |
|  | PSU\_FAULT | TGU Power Supply has failed in redundant TGU Configuration |
|  | PSU\_OVERHEAT | TGU Power Supply has exceededthe maximum supported temperature |
| Monitor Speaker | State | Idle | Device is not playing an Audio System controlled message. The supplementary field is used to display non-fatal faults with the device. |
| Isolated | Device has been disabled by an external controller or UI. When isolated, it will not play any messages. |
| Active | Device is playing an Audio System controlled message. The message may be DVA or PA when DVA/PA Monitoring is enabled on the device. The device will also be in this state when it is activated due to a call and is monitoring active calls.  Zone\_List is a Comma-separated list of Zones where DVA or PA is active. This list will include zero or more of zones (sink IDs) playing the message.  Message\_Id will be non-blank when DVA is active, and will contain a comma separated list of dictionary item numbers playing in currently active zones.  PA will be set to “Y” to indicate that device is making a PA announcement. It is set to “MONITORING” if the device is monitoring the PA announcement. |
| Faulty | A fatal fault has been detected on the device. If the unit is still capable of being used (non-fatal fault), the fault indication will be shown in the Supplementary Field when in the idle state (see above). |
| Comms Fault | Communications Exchange Server cannot communicate with or detect the device on network. This indicates either a network fault or failed unit. |
| Fault | OVERHEAT | The device has exceeded the maximum supported temperature |
| PHP | State | Idle | Device is not playing an Audio System controlled message. The supplementary field is used to display non-fatal faults with the device. |
| Isolated | Device has been disabled by an external controller or UI. When isolated, it will not play any messages. |
| Active | Device is activated due to a call. |
|  |  | Hold | Device is on a call that has been put on hold. |
| Escalated | Device is on a call that has been escalated. |
| Faulty | A fatal fault has been detected on the device. If the unit is still capable of being used (non-fatal fault), the fault indication will be shown in the Supplementary Field when in the idle state (see above). |
| Comms Fault | Communications Exchange Server cannot communicate with or detect the device on network. This indicates either a network fault or failed unit. |
| Fault | OVERHEAT | The device has exceeded the maximum supported temperature |
| NO\_VOIP\_SVR | The device cannot register with the VoIP address hosted by the Communications Exchange Server |
| PID | State | Idle | Device is not Display Static Information or Video. Value will be Idle when blank screen is set |
| Isolated | Device has been disabled by an external controller or UI. When isolated, it will not display any messages and will be set to the blank template. |
| Active | Device is playing video or display output. |
| Faulty | A fatal fault has been detected on the device. If the unit is still capable of being used (non-fatal fault), the fault indication will be shown in the Supplementary Field when in the idle state (see above). |
| Comms Fault | Communications Exchange Server cannot communicate with or detect the device on network. This indicates either a network fault or failed unit. |
| Fault | OVERHEAT | The device has exceeded the maximum supported temperature |