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**Crestron Certified Drivers**

Framework Overview

Crestron Electronics, Inc.

Revision History

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| --- | --- | --- | --- |
| Version | Date | Comments | Author |
| 1.00.00 | 10/2/2018 | First draft | Casey Blicharz |
| 1.00.01 | 1/25/2018 | Added more sections and correcting grammar mistakes | Casey Blicharz |
| 1.00.02 | 2/14/2018 | Split document and added more information | Casey Blicharz |
| 1.00.03 | 7/17/2019 | Added security system information to the document | Natalie Jackman |

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# Appendix A – Allowed Standard commands

|  |
| --- |
| NotAStandardCommand = 0  Vga1 = 200  Vga2 = 201  Vga3 = 202  Vga4 = 203  Vga5 = 204  Vga6 = 205  Vga7 = 206  Vga8 = 207  Vga9 = 208  Vga10 = 209  Hdmi1 = 400  Hdmi2 = 401  Hdmi3 = 402  Hdmi4 = 403  Hdmi5 = 404  Hdmi6 = 405  Hdmi7 = 406  Hdmi8 = 407  Hdmi9 = 408  Hdmi10 = 409  Dvi1 = 600  Dvi2 = 601  Dvi3 = 602  Dvi4 = 603  Dvi5 = 604  Dvi6 = 605  Dvi7 = 606  Dvi8 = 607  Dvi9 = 608  Dvi10 = 609  Component1 = 800  Component2 = 801  Component3 = 802  Component4 = 803  Component5 = 804  Component6 = 805  Component7 = 806  Component8 = 807  Component9 = 808  Component10 = 809  Composite1 = 900  Composite2 = 901  Composite3 = 902  Composite4 = 903  Composite5 = 904  Composite6 = 905  Composite7 = 906  Composite8 = 907  Composite9 = 908  Composite10 = 909  DisplayPort1 = 1000  DisplayPort2 = 1001  DisplayPort3 = 1002  DisplayPort4 = 1003  DisplayPort5 = 1004  DisplayPort6 = 1005  DisplayPort7 = 1006  DisplayPort8 = 1007  DisplayPort9 = 1008  DisplayPort10 = 1009  Usb1 = 1200  Usb2 = 1201  Usb3 = 1202  Usb4 = 1203  Usb5 = 1204  Antenna1 = 1400  Antenna2 = 1401  Network1 = 1600  Network2 = 1601  Network3 = 1602  Network4 = 1603  Network5 = 1604  Network6 = 1605  Network7 = 1606  Network8 = 1607  Network9 = 1608  Network10 = 1609  Input1 = 1800  Input2 = 1801  Input3 = 1802  Input4 = 1803  Input5 = 1804  Input6 = 1805  Input7 = 1806  Input8 = 1807  Input9 = 1808  Input10 = 1809  Input11 = 1810  Input12 = 1811  Input13 = 1812  Input14 = 1813  Input15 = 1814  InputPoll = 1900  AspectSideBar = 2000  AspectStrech = 2001  AspectNormal = 2002  AspectDotByDot = 2003  AspectFullScreen = 2004  AspectAuto = 2005  AspectOriginal = 2006  Aspect16By9 = 2007  AspectWideZoom = 2008  Aspect4By3 = 2009  AspectSubTitle = 2010  AspectJust = 2011  AspectZoom = 2012  AspectZoom2 = 2013  AspectZoom3 = 2014  AspectRatio1 = 2015  AspectRatio2 = 2016  AspectRatio3 = 2017  AspectRatio4 = 2018  AspectRatio5 = 2019  AspectRatio6 = 2020  AspectRatio7 = 2021  AspectRatio8 = 2022  AspectRatio9 = 2023  AspectRatio10 = 2024  AspectRatio11 = 2025  AspectRatioPoll = 2026  AvAuto = 2200  AvGame = 2210  AvGame3D = 2211  AvDynamic = 2220  AvDynamicFixed = 2221  AvMovie = 2230  AvMovie3D = 2231  AvPc = 2240  AvPoll = 2250  AvUser = 2260  AvVintageMovie = 2270  AvStandard = 2280  AvStandard3D = 2281  AvXvColor = 2290  AllLampsOff = 4000  AllLampsOn = 4001  Antenna = 4200  Asterisk = 4400  Mute = 4600  MuteOff = 4601  MuteOn = 4602  MutePoll = 4603  Auto = 4800  Aux1 = 5000  Aux2 = 5001  DigitalChannel = 5200  AnalogChannel = 5400  Channel = 5600  ChannelUp = 5601  ChannelDown = 5602  ChannelPoll = 5603  Tune = 5800  Eject = 6000  OnScreenDisplay = 6400  OnScreenDisplayOff = 6401  OnScreenDisplayOn = 6402  OnScreenDisplayPoll = 6403  Power = 6600  PowerOff = 6601  PowerOn = 6602  PowerPoll = 6603  Vol = 7000  VolMinus = 7001  VolPlus = 7002  VolumePoll = 7003  \_0 = 7400  \_1 = 7401  \_2 = 7402  \_3 = 7403  \_4 = 7404  \_5 = 7405  \_6 = 7406  \_7 = 7407  \_8 = 7408  \_9 = 7409  Octothorpe = 9400  Nop = 9600  Audio = 9800  DownArrow = 10000  LeftArrow = 10200  RightArrow = 10400  UpArrow = 10600  Select = 10700  Enter = 10800  Home = 11000  Clear = 11200  Display = 11400  Exit = 11600  Blue = 11800  Green = 11801  Red = 11802  Yellow = 11803  Options = 12600  ForwardScan = 12800  ReverseScan = 12801  Pause = 12900  Play = 12901  Repeat = 13600  Return = 13800  Stop = 14000  Subtitle = 14200  TopMenu = 14400  ForwardSkip = 14600  ReverseSkip = 14800  PopUpMenu = 15000  Menu = 15200  Info = 15400  A = 15600  B = 15601  C = 15602  D = 15603  Back = 16400  Dvr = 16600  Favorite = 16800  Guide = 17000  Last = 17200  Live = 17400  PageDown = 17600  PageUp = 17601  Record = 17800  Replay = 18000  SpeedSlow = 18200  LampHoursPoll = 18400  KeypadBackSpace = 18600  PlayBackStatusPoll = 18800  TrackPoll = 19000  ChapterPoll = 19200  TrackElapsedTimePoll = 19400  ChapterElapsedTimePoll = 19600  TotalElapsedTimePoll = 19800  TrackRemainingTimePoll = 20000  ChapterRemainingTimePoll = 20200  TotalRemainingTimePoll = 20400  ThumbsUp = 20600  ThumbsDown = 20601  Dash = 20800  Period = 21000  EnergyStar = 21200  EnergyStarOn = 21201  EnergyStarOff = 21202  EnergyStarPoll = 21203  VideoMute = 21400  VideoMuteOn = 21401  VideoMuteOff = 21402  VideoMutePoll = 21403  CustomCommand = 21600  FunctionButton1 = 21800  FunctionButton2 = 21801  FunctionButton3 = 21802  FunctionButton4 = 21803  FunctionButton5 = 21804  FunctionButton6 = 21805  FunctionButton7 = 21806  FunctionButton8 = 21807  SetSystemStateToArmAway = 22000  SetSystemStateToArmInstant = 22001  SetSystemStateToArmStay = 22002  SetSystemStateToDisarmed = 22003  MicMute = 22200  MicMuteOn = 22201  MicMuteOff = 22202  MicMutePoll = 22203  DialMeeting = 22400  DialAddressBook = 22401  DialManual = 22402  SelfView = 22600  SelfViewOn = 22601  SelfViewOff = 22602  SelfViewAuto = 22603  SelfViewPoll = 22604  SelfViewPipLocation = 22605  SelfViewMonitor = 22606  SelfViewFullScreenOn = 22607  SelfViewFullScreenOff = 22608  PictureMode = 22800  PresentationStart = 23000  PresentationStop = 23001  PipLocation = 23200  PipLocationPoll = 23201  MainVideoSource = 23400  MainVideoSourcePoll = 23401  CameraFarEndPanLeft = 23600  CameraFarEndPanRight = 23601  CameraFarEndTiltUp = 23602  CameraFarEndTiltDown = 23603  CameraFarEndZoomIn = 23604  CameraFarEndZoomOut = 23605  CameraFarEndFocusNear = 23606  CameraFarEndFocusFar = 23607  CameraFarEndStop = 23608  CameraFarEndStopPan = 23609  CameraFarEndStopTilt = 23610  CameraFarEndStopZoom = 23611  CameraFarEndStopFocus = 23612  CameraFarEndAutoFocus = 23613  CameraFarEndStorePreset = 23614  CameraFarEndRecallPreset = 23615  CameraNearEndPanLeft = 23716  CameraNearEndPanRight = 23717  CameraNearEndTiltUp = 23718  CameraNearEndTiltDown = 23719  CameraNearEndZoomIn = 23720  CameraNearEndZoomOut = 23721  CameraNearEndFocusNear = 23722  CameraNearEndFocusFar = 23723  CameraNearEndStop = 23724  CameraNearEndStopPan = 23725  CameraNearEndStopTilt = 23726  CameraNearEndStopZoom = 23727  CameraNearEndStopFocus = 23728  CameraNearEndAutoFocus = 23729  CameraNearEndResetPosition = 23730  CameraNearEndRecallPreset = 23731  CameraNearEndStorePreset = 23732  CameraTrackingOn = 23750  CameraTrackingOff = 23751  CameraRecallTrackingPreset = 23760  CameraStoreTrackingPreset = 23761  Answer = 23800  Dtmf = 23801  HangUp = 23802  Hold = 23803  Join = 23804  Reject = 23805  Resume = 23806  Transfer = 23807  AllowFecc = 25000  DoNotAllowFecc = 25010  MuteMicsAutoAnswerOn = 25020  MuteMicsAutoAnswerOff = 25021  DoNotDisturbOn = 25022  DoNotDisturbOff = 25023  AutoAnswerOn = 25030  AutoAnswerOff = 25031  StandbyOn = 25040  StandbyOff = 25041  EncryptionOn = 25050  EncryptionOff = 25051  Reboot = 25060  MessageResponse = 27000  MessageClear = 27001  AlertClear = 27200  Input4Dvi = 27400  Input4SVideoComposite = 27401  FarEndPresentationSource = 27600  MultipointAutoAnswerOn = 27800  MultipointAutoAnswerOff = 27801  MultipointAutoAnswerDoNotDisturb = 27802  MultipointModeAuto = 27803  MultipointModePresentation = 27804  MultipointModeDiscussion = 27805  MultipointModeFullScreen = 27806  Monitor1PresentationFar = 28000  Monitor1PresentationNearOrFar = 28001  Monitor1PresentationContentOrFar = 28002  Monitor1PresentationAll = 28003  Monitor2PresentationNear = 28004  Monitor2PresentationFar = 28005  Monitor2PresentationContent = 28006  Monitor2PresentationNearOrFar = 28007  Monitor2PresentationContentOrNear = 28008  Monitor2PresentationContentOrFar = 28009  Monitor2PresentationAll = 28010  Monitor3PresentationNear = 28011  Monitor3PresentationFar = 28012  Monitor3PresentationContent = 28013  Monitor3PresentationRecordNearOrFar = 28014  Monitor3PresentationRecordAll = 28015  IrRemoteEmulationKeyPress = 28200  IrRemoteEmulationKeyRelease = 28201  IrRemoteEmulationKeyClick = 28202  PhoneBookRequest = 28400  RecentCallsRequest = 28600 |

# Appendix B – All Standard Commands

|  |
| --- |
| NotAStandardCommand = 0  Vga1 = 200  Vga2 = 201  Vga3 = 202  Vga4 = 203  Vga5 = 204  Vga6 = 205  Vga7 = 206  Vga8 = 207  Vga9 = 208  Vga10 = 209  Hdmi1 = 400  Hdmi2 = 401  Hdmi3 = 402  Hdmi4 = 403  Hdmi5 = 404  Hdmi6 = 405  Hdmi7 = 406  Hdmi8 = 407  Hdmi9 = 408  Hdmi10 = 409  Dvi1 = 600  Dvi2 = 601  Dvi3 = 602  Dvi4 = 603  Dvi5 = 604  Dvi6 = 605  Dvi7 = 606  Dvi8 = 607  Dvi9 = 608  Dvi10 = 609  Component1 = 800  Component2 = 801  Component3 = 802  Component4 = 803  Component5 = 804  Component6 = 805  Component7 = 806  Component8 = 807  Component9 = 808  Component10 = 809  Composite1 = 900  Composite2 = 901  Composite3 = 902  Composite4 = 903  Composite5 = 904  Composite6 = 905  Composite7 = 906  Composite8 = 907  Composite9 = 908  Composite10 = 909  DisplayPort1 = 1000  DisplayPort2 = 1001  DisplayPort3 = 1002  DisplayPort4 = 1003  DisplayPort5 = 1004  DisplayPort6 = 1005  DisplayPort7 = 1006  DisplayPort8 = 1007  DisplayPort9 = 1008  DisplayPort10 = 1009  Usb1 = 1200  Usb2 = 1201  Usb3 = 1202  Usb4 = 1203  Usb5 = 1204  Antenna1 = 1400  Antenna2 = 1401  Network1 = 1600  Network2 = 1601  Network3 = 1602  Network4 = 1603  Network5 = 1604  Network6 = 1605  Network7 = 1606  Network8 = 1607  Network9 = 1608  Network10 = 1609  Input1 = 1800  Input2 = 1801  Input3 = 1802  Input4 = 1803  Input5 = 1804  Input6 = 1805  Input7 = 1806  Input8 = 1807  Input9 = 1808  Input10 = 1809  Input11 = 1810  Input12 = 1811  Input13 = 1812  Input14 = 1813  Input15 = 1814  InputPoll = 1900  AspectSideBar = 2000  AspectStrech = 2001  AspectNormal = 2002  AspectDotByDot = 2003  AspectFullScreen = 2004  AspectAuto = 2005  AspectOriginal = 2006  Aspect16By9 = 2007  AspectWideZoom = 2008  Aspect4By3 = 2009  AspectSubTitle = 2010  AspectJust = 2011  AspectZoom = 2012  AspectZoom2 = 2013  AspectZoom3 = 2014  AspectRatio1 = 2015  AspectRatio2 = 2016  AspectRatio3 = 2017  AspectRatio4 = 2018  AspectRatio5 = 2019  AspectRatio6 = 2020  AspectRatio7 = 2021  AspectRatio8 = 2022  AspectRatio9 = 2023  AspectRatio10 = 2024  AspectRatio11 = 2025  AspectRatioPoll = 2026  AvAuto = 2200  AvGame = 2210  AvGame3D = 2211  AvDynamic = 2220  AvDynamicFixed = 2221  AvMovie = 2230  AvMovie3D = 2231  AvPc = 2240  AvPoll = 2250  AvUser = 2260  AvVintageMovie = 2270  AvStandard = 2280  AvStandard3D = 2281  AvXvColor = 2290  AllLampsOff = 4000  AllLampsOn = 4001  Antenna = 4200  Asterisk = 4400  Mute = 4600  MuteOff = 4601  MuteOn = 4602  MutePoll = 4603  Auto = 4800  Aux1 = 5000  Aux2 = 5001  DigitalChannel = 5200  AnalogChannel = 5400  Channel = 5600  ChannelUp = 5601  ChannelDown = 5602  ChannelPoll = 5603  Tune = 5800  Eject = 6000  OnScreenDisplay = 6400  OnScreenDisplayOff = 6401  OnScreenDisplayOn = 6402  OnScreenDisplayPoll = 6403  Power = 6600  PowerOff = 6601  PowerOn = 6602  PowerPoll = 6603  Vol = 7000  VolMinus = 7001  VolPlus = 7002  VolumePoll = 7003  \_0 = 7400  \_1 = 7401  \_2 = 7402  \_3 = 7403  \_4 = 7404  \_5 = 7405  \_6 = 7406  \_7 = 7407  \_8 = 7408  \_9 = 7409  Octothorpe = 9400  Nop = 9600  Audio = 9800  DownArrow = 10000  LeftArrow = 10200  RightArrow = 10400  UpArrow = 10600  Select = 10700  Enter = 10800  Home = 11000  Clear = 11200  Display = 11400  Exit = 11600  Blue = 11800  Green = 11801  Red = 11802  Yellow = 11803  Options = 12600  ForwardScan = 12800  ReverseScan = 12801  Pause = 12900  Play = 12901  PlayPause = 12902  Repeat = 13600  Return = 13800  Stop = 14000  Subtitle = 14200  TopMenu = 14400  ForwardSkip = 14600  ReverseSkip = 14800  PopUpMenu = 15000  Menu = 15200  Info = 15400  A = 15600  B = 15601  C = 15602  D = 15603  Back = 16400  Dvr = 16600  Favorite = 16800  Guide = 17000  Last = 17200  Live = 17400  PageDown = 17600  PageUp = 17601  Record = 17800  Replay = 18000  SpeedSlow = 18200  LampHoursPoll = 18400  KeypadBackSpace = 18600  PlayBackStatusPoll = 18800  TrackPoll = 19000  ChapterPoll = 19200  TrackElapsedTimePoll = 19400  ChapterElapsedTimePoll = 19600  TotalElapsedTimePoll = 19800  TrackRemainingTimePoll = 20000  ChapterRemainingTimePoll = 20200  TotalRemainingTimePoll = 20400  ThumbsUp = 20600  ThumbsDown = 20601  Dash = 20800  Period = 21000  EnergyStar = 21200  EnergyStarOn = 21201  EnergyStarOff = 21202  EnergyStarPoll = 21203  VideoMute = 21400  VideoMuteOn = 21401  VideoMuteOff = 21402  VideoMutePoll = 21403  CustomCommand = 21600  FunctionButton1 = 21800  FunctionButton2 = 21801  FunctionButton3 = 21802  FunctionButton4 = 21803  FunctionButton5 = 21804  FunctionButton6 = 21805  FunctionButton7 = 21806  FunctionButton8 = 21807  SetSystemStateToArmAway = 22000  SetSystemStateToArmInstant = 22001  SetSystemStateToArmStay = 22002  SetSystemStateToDisarmed = 22003  MicMute = 22200  MicMuteOn = 22201  MicMuteOff = 22202  MicMutePoll = 22203  DialMeeting = 22400  DialAddressBook = 22401  DialManual = 22402  SelfView = 22600  SelfViewOn = 22601  SelfViewOff = 22602  SelfViewAuto = 22603  SelfViewPoll = 22604  SelfViewPipLocation = 22605  SelfViewMonitor = 22606  SelfViewFullScreenOn = 22607  SelfViewFullScreenOff = 22608  PictureMode = 22800  PresentationStart = 23000  PresentationStop = 23001  PipLocation = 23200  PipLocationPoll = 23201  MainVideoSource = 23400  MainVideoSourcePoll = 23401  CameraFarEndPanLeft = 23600  CameraFarEndPanRight = 23601  CameraFarEndTiltUp = 23602  CameraFarEndTiltDown = 23603  CameraFarEndZoomIn = 23604  CameraFarEndZoomOut = 23605  CameraFarEndFocusNear = 23606  CameraFarEndFocusFar = 23607  CameraFarEndStop = 23608  CameraFarEndStopPan = 23609  CameraFarEndStopTilt = 23610  CameraFarEndStopZoom = 23611  CameraFarEndStopFocus = 23612  CameraFarEndAutoFocus = 23613  CameraFarEndStorePreset = 23614  CameraFarEndRecallPreset = 23615  CameraNearEndPanLeft = 23716  CameraNearEndPanRight = 23717  CameraNearEndTiltUp = 23718  CameraNearEndTiltDown = 23719  CameraNearEndZoomIn = 23720  CameraNearEndZoomOut = 23721  CameraNearEndFocusNear = 23722  CameraNearEndFocusFar = 23723  CameraNearEndStop = 23724  CameraNearEndStopPan = 23725  CameraNearEndStopTilt = 23726  CameraNearEndStopZoom = 23727  CameraNearEndStopFocus = 23728  CameraNearEndAutoFocus = 23729  CameraNearEndResetPosition = 23730  CameraNearEndRecallPreset = 23731  CameraNearEndStorePreset = 23732  CameraTrackingOn = 23750  CameraTrackingOff = 23751  CameraRecallTrackingPreset = 23760  CameraStoreTrackingPreset = 23761  Answer = 23800  Dtmf = 23801  HangUp = 23802  Hold = 23803  Join = 23804  Reject = 23805  Resume = 23806  Transfer = 23807  AllowFecc = 25000  DoNotAllowFecc = 25010  MuteMicsAutoAnswerOn = 25020  MuteMicsAutoAnswerOff = 25021  DoNotDisturbOn = 25022  DoNotDisturbOff = 25023  AutoAnswerOn = 25030  AutoAnswerOff = 25031  StandbyOn = 25040  StandbyOff = 25041  EncryptionOn = 25050  EncryptionOff = 25051  Reboot = 25060  MessageResponse = 27000  MessageClear = 27001  AlertClear = 27200  Input4Dvi = 27400  Input4SVideoComposite = 27401  FarEndPresentationSource = 27600  MultipointAutoAnswerOn = 27800  MultipointAutoAnswerOff = 27801  MultipointAutoAnswerDoNotDisturb = 27802  MultipointModeAuto = 27803  MultipointModePresentation = 27804  MultipointModeDiscussion = 27805  MultipointModeFullScreen = 27806  Monitor1PresentationFar = 28000  Monitor1PresentationNearOrFar = 28001  Monitor1PresentationContentOrFar = 28002  Monitor1PresentationAll = 28003  Monitor2PresentationNear = 28004  Monitor2PresentationFar = 28005  Monitor2PresentationContent = 28006  Monitor2PresentationNearOrFar = 28007  Monitor2PresentationContentOrNear = 28008  Monitor2PresentationContentOrFar = 28009  Monitor2PresentationAll = 28010  Monitor3PresentationNear = 28011  Monitor3PresentationFar = 28012  Monitor3PresentationContent = 28013  Monitor3PresentationRecordNearOrFar = 28014  Monitor3PresentationRecordAll = 28015  IrRemoteEmulationKeyPress = 28200  IrRemoteEmulationKeyRelease = 28201  IrRemoteEmulationKeyClick = 28202  PhoneBookRequest = 28400  RecentCallsRequest = 28600  TunerFrequencyDown = 28800  TunerFrequencyUp = 28801  TunerFrequency = 28802  TunerAutoFrequencyDown = 28803  TunerAutoFrequencyUp = 28804  TunerFrequencyBand = 28805  TunerFrequencyBandAm = 28806  TunerFrequencyBandFm = 28807  TunerPresetRecall = 28808  TunerPresetStore = 28809  TunerFrequencyPoll = 28810  TunerPresetUp = 28811  TunerPresetDown = 28812  ToneControlOn = 29000  ToneControlOff = 29001  ToneSetBass = 29002  ToneBassLevelUp = 29003  ToneBassLevelDown = 29004  ToneSetTreble = 29005  ToneTrebleLevelUp = 29006  ToneTrebleLevelDown = 29007  LoudnessOn = 29008  LoudnessOff = 29009  LoudnessToggle = 29010  ToneStatePoll = 29011  ToneBassPoll = 29012  ToneTreblePoll = 29013  LoudnessPoll = 29014  ToneControlToggle = 29015  SurroundModeChange = 29200  SurroundModeCycle = 29201  SurroundModePoll = 29202  SurroundModeAuto = 29203  SurroundModeDirect = 29204  SurroundModeDolbyDigital = 29205  SurroundModeDtsSurround = 29206  SurroundModeGame = 29207  SurroundModeMovie = 29208  SurroundModeMusic = 29209  SurroundModePureDirect = 29210  SurroundModeStereo = 29211  InternetRadio = 29400  Sirius = 29401  Xm = 29402  SiriusXm = 29403  Pandora = 29404  LastFm = 29405  Rhapsody = 29406  HdRadio = 29407  Speaker1 = 29501  Speaker2 = 29502  Speaker3 = 29503  Speaker4 = 29504  Speaker5 = 29505  Speaker6 = 29506  Speaker7 = 29507  Speaker8 = 29508  Speaker9 = 29509  Speaker10 = 29510  Speaker11 = 29511  Speaker12 = 29512  Speaker13 = 29513  Speaker14 = 29514  Speaker15 = 29515  Search = 29600  Optical1 = 29701  Optical2 = 29702  Optical3 = 29703  Optical4 = 29704  Optical5 = 29705  Optical6 = 29706  Optical7 = 29707  Optical8 = 29708  Optical9 = 29709  Optical10 = 29710  Coax1 = 29801  Coax2 = 29802  Coax3 = 29803  Coax4 = 29804  Coax5 = 29805  Coax6 = 29806  Coax7 = 29807  Coax8 = 29808  Coax9 = 29809  Coax10 = 29810  AnalogAudio1 = 29901  AnalogAudio2 = 29902  AnalogAudio3 = 29903  AnalogAudio4 = 29904  AnalogAudio5 = 29905  AnalogAudio6 = 29906  AnalogAudio7 = 29907  AnalogAudio8 = 29908  AnalogAudio9 = 29909  AnalogAudio10 = 29910  DVD = 30000  SAT = 30020  TV = 30040  CD = 30060  Tuner = 30080  Phono = 30100  DSS = 30120  AudioInputPoll = 30140  Spotify = 30150  YouTube = 30151  YouTubeTv = 30152  Netflix = 30153  Hulu = 30154  DirecTvNow = 30155  AmazonVideo = 30156  PlayStationVue = 30157  SlingTv = 30158  AirPlay = 30159  GoogleCast = 30160  Dlna = 30161  Tidal = 30162  Deezer = 30163  Crackle = 30164  OnDemand = 30165  GooglePlay = 30166  Bluetooth = 30167  Tivo = 30168  RSkip = 30169  FSkip = 30170  Bd1 = 30180  Catv1 = 30190  Game1 = 30200  Pc1 = 30210  Bluetooth1 = 30220  MediaPlayer1 = 30230  Ipod1 = 30240  RequestSoftwareVersion = 40000  RequestSoftwareVersionDifferences = 40001  RequestEventLog = 40002  RequestAreasNotReadyToArm = 40003  Login = 40004  UDLLogin = 40005  Arm = 40006  ArmResource = 40007  Disarm = 40008  DisarmResource = 40009  RequestResourceStatus = 40010  BypassResource = 40011  UnbypassResource = 40012  RequestPermissionOutput = 40013  RequestPermissionArea = 40014  RequestPermissionZone = 40015  RequestPermissionDevice = 40016  RequestPermissionDoor = 40017  RequestName = 40018  Heartbeat = 40019  RequestSystemStatus = 40020  RequestSystemFeatureStatus = 40021  RequestSystemSetup = 40022  RequestAreaInformation = 40023  RequestZoneInformation = 40024  RequestOutputInformation = 40025  RequestDeviceInformation = 40026  RequestDoorInformation = 40027  RequestAreaCount = 40028  RequestZoneCount = 40029  RequestOutputCount = 40030  RequestDoorCount = 40031  RequestDeviceCount = 40032  RequestAreaResourceStatus = 40033  RequestZoneResourceStatus = 40034  RequestOutputResourceStatus = 40035  RequestDoorResourceStatus = 40036  RequestDeviceResourceStatus = 40037  SetResourceState = 40038  RequestBypassedResources = 40039  SilenceBells = 40040  ResetSensors = 40041  SubscribeResourceOnOffState = 40042  SubscribeResourceReadyState = 40043  SubscribeResourceGeneralState = 40044  SubscribeDeviceMessages = 40045  SubscribeDeviceLogging = 40046  SubscribeDeviceConfigurationChange = 40047  Subscribe = 40048  RequestAlarm = 40049  ArmAll = 40050  DisarmAll = 40051  BypassAll = 40052  UnbypassAll = 40053  KeypadAsterisk = 40054  KeypadDash = 40055  KeypadEnter = 40056  KeypadNumber = 40057  KeypadPeriod = 40058  KeypadPound = 40059  KeypadSendString = 40060  KeypadAux = 40061  RequestUsers = 40062  RequestAreaAlarm = 40063  RequestZoneAlarm = 40064  RequestTamper = 40065  RequestAlarmMemory = 40066  RequestAreaAlarmMemory = 40067  RequestZoneAlarmMemory = 40068  RequestFireAlarm = 40069  RequestFireAlarmMemory = 40070 |

# Appendix C – Audio Connections

Values of each match the value of the StandardCommandEnum that has the same name

|  |
| --- |
| Unknown  Uncontrolled  Hdmi1  Hdmi2  Hdmi3  Hdmi4  Hdmi5  Hdmi6  Hdmi7  Hdmi8  Hdmi9  Hdmi10  Optical1  Optical2  Optical3  Optical4  Optical5  Optical6  Optical7  Optical8  Optical9  Optical10  Coax1  Coax2  Coax3  Coax4  Coax5  Coax6  Coax7  Coax8  Coax9  Coax10  AnalogAudio1  AnalogAudio2  AnalogAudio3  AnalogAudio4  AnalogAudio5  AnalogAudio6  AnalogAudio7  AnalogAudio8  AnalogAudio9  AnalogAudio10  Speaker1  Speaker2  Speaker3  Speaker4  Speaker5  Speaker6  Speaker7  Speaker8  Speaker9  Speaker10  Speaker11  Speaker12  Speaker13  Speaker14  Speaker15  Cd1  Tuner1  Phono1  MediaHdRadio  MediaInternetRadio  MediaLastFmRadio  MediaPandoraRadio  MediaRhapsodyRadio  MediaSiriusRadio  MediaSiriusXmRadio  MediaXmRadio  Usb1  Usb2  Usb3  Usb4  Usb5  DisplayPort1  DisplayPort2  DisplayPort3  DisplayPort4  DisplayPort5  DisplayPort6  DisplayPort7  DisplayPort8  DisplayPort9  DisplayPort10  Dvi1  Dvi2  Dvi3  Dvi4  Dvi5  Dvi6  Dvi7  Dvi8  Dvi9  Dvi10  Spotify  YouTube  YouTubeTv  Netflix  Hulu  DirectvNow  AmazonVideo  PlaystationVue  SlingTv  Airplay  GoogleCast  DLNA  Tidal  Deezer  Crackle  OnDemand  Aux1  Aux2  Antenna1  Antenna2  Dvd1  Sat1  Tv1  Dss1  Input1  Input10  Input2  Input3  Input4  Input5  Input6  Input7  Input8  Input9  Input11  Input12  Input13  Input14  Input15  Bd1  Catv1  Game1  Pc1  Bluetooth1  MediaPlayer1  Ipod1 |

# Appendix D – Audio Connector Types

|  |
| --- |
| Unknown = 0  Hdmi = 10  Optical = 20  Coax = 30  Analog = 40  HdBaseT = 50  DisplayPort = 60  Speaker = 70  Usb = 80  Dvi = 90  Universal = 100  Antenna = 110  GenericAV = 120  GenericAudio = 130 |

# Appendix E - VideoConnections

Values of each match the value of the StandardCommandsEnum that has the same name

|  |
| --- |
| Unknown  Uncontrolled  Antenna1  Antenna2  Component1  Component10  Component2  Component3  Component4  Component5  Component6  Component7  Component8  Component9  Composite1  Composite10  Composite2  Composite3  Composite4  Composite5  Composite6  Composite7  Composite8  Composite9  DisplayPort1  DisplayPort10  DisplayPort2  DisplayPort3  DisplayPort4  DisplayPort5  DisplayPort6  DisplayPort7  DisplayPort8  DisplayPort9  Dvi1  Dvi10  Dvi2  Dvi3  Dvi4  Dvi5  Dvi6  Dvi7  Dvi8  Dvi9  Hdmi1  Hdmi10  Hdmi2  Hdmi3  Hdmi4  Hdmi5  Hdmi6  Hdmi7  Hdmi8  Hdmi9  Input1  Input10  Input2  Input3  Input4  Input5  Input6  Input7  Input8  Input9  Input11  Input12  Input13  Input14  Input15  Network1  Network10  Network2  Network3  Network4  Network5  Network6  Network7  Network8  Network9  Usb1  Usb2  Usb3  Usb4  Usb5  Vga1  Vga10  Vga2  Vga3  Vga4  Vga5  Vga6  Vga7  Vga8  Vga9  Dvd1  Sat1  Aux1  Aux2  Tv1  Dss1  /\* AVR Inputs \*/  MediaInternetRadio  MediaSiriusRadio  MediaXmRadio  MediaSiriusXmRadio  MediaPandoraRadio  MediaLastFmRadio  MediaRhapsodyRadio  MediaHdRadio  Spotify  YouTube  YouTubeTv  Netflix  Hulu  DirectvNow  AmazonVideo  PlaystationVue  SlingTv  Airplay  GoogleCast  DLNA  Tidal  Deezer  Crackle  OnDemand  Bd1  Catv1  Game1  Pc1  Bluetooth1  MediaPlayer1  Ipod1 |

# Appendix F – Video Connection Types

|  |
| --- |
| Vga = 10  Hdmi = 20  Component = 30  Composite = 40  DisplayPort = 50  Network = 60  Antenna = 70  Usb = 80  Dvi = 90  SVideo = 100  Other = 110  Unknown = 120  HdBaseT = 130  Universal = 140  GenericAV = 150  GenericVideo = 160 |

# Appendix G – Security System Status Types

|  |
| --- |
| Alarm = 0  ArmAway = 1  ArmInstant = 2  ArmStay = 3  Fire = 4  Disarmed = 5  Tamper = 6  Unknown = 7  EntryDelay = 8  ExitDelay = 9 |

# Appendix H – Security System State Object Types

|  |
| --- |
| KeypadStatusText  KeypadLeds  SecuritySystemStates  Features  Connection  AuxiliaryButtonLedState  Login  SoftwareVersion  SoftwareVersionDifferences  ResourceStatus  Log  PermissionArea  PermissionZone  PermissionOutput  PermissionDevice  PermissionDoor  Info  Heartbeat  DeviceSetup  BypassResourceStatus  ReadyResourceStatus  SystemSetup  Message  ArmModeButton  ArmModeButtonFeedback |

# Appendix I – Security System Settable States Types

|  |
| --- |
| Unknown  ArmAway  ArmAwayInstant  ArmAwayDelayed  ArmInstant  ArmDelayed  ArmStay  ArmStay2  ArmStayInstant  ArmStayDelayed  Disarm  PerimeterInstantArm  PerimeterDelayArm  Active  Inactive |

# Appendix J – Security System Resource Type Types

|  |
| --- |
| Unknown  Output  Area  Zone  Device  Door  Fire  Keypad  ZoneExpander  Gas  Personal  Burglary  FireTrouble  FireSupervisory  GasSupervisory  GasTrouble  BurglarySupervisory  BurglaryTrouble |

# Appendix K – Security System Area Type Types

|  |
| --- |
| CanArmDisarm = 0  CanArmDisarmTempBlock = 1  SingleDependantArea = 2  MultiDependantArea = 3  CanArmDisarmWithTimer = 4  ControlledByTimer = 5  BankVault = 6GasSupervisory |

# Appendix L – Resource Status Types

|  |
| --- |
| Unknown  Unassigned  Armed  Disarmed  Bypassed  AlarmTriggered  Short  Error  Missing  Normal  Off  Pulse  Steady  Temporal  Wink  PanicAlarm  PanicTest  Open  LowBattery  AllOn  AllOnInstantArm  AwayOn  AwayExitDelay  AwayEntryDelay  PartOnInstant  PartOnDelay  AllOnEntryDelay  AllOnExitDelay  PartOnEntryDelay  PartOnExitDelay  Stay1On  Stay2On |

# Appendix M – Supported Features

## Displays

|  |
| --- |
| SupportsChangeVolume  SupportsCoolDownTime  SupportsDisconnect  SupportsDiscreteMute  SupportsDiscretePower  SupportsInputFeedback  SupportsLampHours  SupportsMuteFeedback  SupportsPowerFeedback  SupportsReconnect  SupportsSetInputSource  SupportsSetVolume  SupportsTogglePower  SupportsVolumePercentFeedback  SupportsWarmUpTime  SupportsFeedback  SupportsDiscreteEnergyStar  SupportsToggleEnergyStar  SupportsEnergyStarFeedback  SupportsDiscreteVideoMute  SupportsToggleVideoMute  SupportsVideoMuteFeedback  SupportsOnScreenDisplayFeedback  SupportsMute  SupportsAudioInputFeedback  SupportsAudioOutputFeedback  SupportsVideoInputFeedback  SupportsVideoOutputFeedback  SupportsSetAudioInputSource  SupportsSetAudioOutputSource  SupportsSetVideoInputSource  SupportsSetVideoOutputSource  SupportsPassword  SupportsUsername  SupportsMenu  SupportsHome  SupportsExit  SupportsClear  SupportsSelect  SupportsEnter  SupportsArrowKeys  SupportsSearch  SupportsYouTube  SupportsYouTubeTv  SupportsNetflix  SupportsHulu  SupportsDirectvNow  SupportsAmazonVideo  SupportsPlaystationVue  SupportsSlingTv  SupportsForwardScan  SupportsReverseScan  SupportsPlay  SupportsPause  SupportsStop  SupportsForwardSkip  SupportsReverseSkip  SupportsRepeat  SupportsReturn  SupportsBack  SupportsPlayPause  SupportsOptions  SupportsInfo |

## Cable Boxes

|  |
| --- |
| SupportsArrowKeys  SupportsAsterisk  SupportsBack  SupportsChangeChannel  SupportsChangeVolume  SupportsChannelFeedback  SupportsClear  SupportsColorButtons  SupportsCoolDownTime  SupportsDash  SupportsDisconnect  SupportsDiscreteMute  SupportsDiscretePower  SupportsDvrCommand  SupportsDiscreteEnergyStar  SupportsEnergyStarFeedback  SupportsEnter  SupportsExit  SupportsFavorite  SupportsForwardScan  SupportsForwardSkip  SupportsGuide  SupportsHome  SupportsInfo  SupportsKeypadBackSpace  SupportsKeypadNumber  SupportsLast  SupportsLetterKeys  SupportsLive  SupportsMenu  SupportsMute  SupportsMuteFeedback  SupportsPageChange  SupportsPause  SupportsPeriod  SupportsPlay  SupportsPound  SupportsPowerFeedback  SupportsReconnect  SupportsRecord  SupportsRepeat  SupportsReplay  SupportsReturn  SupportsReverseScan  SupportsReverseSkip  SupportsSetChannel  SupportsSetVolume  SupportsSpeedSlow  SupportsStop  SupportsThumbsDown  SupportsThumbsUp  SupportsToggleEnergyStar  SupportsTogglePower  SupportsVolumePercentFeedback  SupportsWarmUpTime  SupportsFeedback  SupportsSelect  SupportsAudioInputFeedback  SupportsAudioOutputFeedback  SupportsVideoInputFeedback  SupportsVideoOutputFeedback  SupportsSetAudioInputSource  SupportsSetAudioOutputSource  SupportsSetVideoInputSource  SupportsSetVideoOutputSource  SupportsPlayPause  SupportsOnDemand  SupportsOptions |

## Video Servers

|  |
| --- |
| SupportsArrowKeys  SupportsAsterisk  SupportsBack  SupportsClear  SupportsDash  SupportsDisconnect  SupportsEnter  SupportsExit  SupportsForwardScan  SupportsForwardSkip  SupportsHome  SupportsKeypadBackSpace  SupportsKeypadNumber  SupportsMenu  SupportsOptions  SupportsPause  SupportsPeriod  SupportsPlay  SupportsPound  SupportsReconnect  SupportsRepeat  SupportsReturn  SupportsReverseScan  SupportsReverseSkip  SupportsSelect  SupportsStop  SupportsSearch  SupportsAudioInputFeedback  SupportsAudioOutputFeedback  SupportsVideoInputFeedback  SupportsVideoOutputFeedback  SupportsSetAudioInputSource  SupportsSetAudioOutputSource  SupportsSetVideoInputSource  SupportsSetVideoOutputSource  SupportsPowerFeedback  SupportsDiscretePower  SupportsTogglePower  SupportsWarmUpTime  SupportsCoolDownTime  SupportsPlayPause  SupportsSirius  SupportsXm  SupportsSiriusXm  SupportsHdRadio  SupportsInternetRadio  SupportsLastFm  SupportsPandora  SupportsRhapsody  SupportsSpotify  SupportsYouTube  SupportsYouTubeTv  SupportsNetflix  SupportsHulu  SupportsDirectvNow  SupportsAmazonVideo  SupportsPlaystationVue  SupportsSlingTv  SupportsAirplay  SupportsGoogleCast  SupportsDlna  SupportsTidal  SupportsDeezer  SupportsCrackle  SupportsGooglePlay  SupportsInfo  SupportsReplay |

## Blu-ray Player

|  |
| --- |
| SupportsDisconnect  SupportsReconnect  SupportsPowerFeedback  SupportsDiscretePower  SupportsTogglePower  SupportsWarmUpTime  SupportsCoolDownTime  SupportsForwardScan  SupportsReverseScan  SupportsPlay  SupportsPause  SupportsStop  SupportsForwardSkip  SupportsReverseSkip  SupportsRepeat  SupportsReturn  SupportsBack  SupportsArrowKeys  SupportsEnter  SupportsSelect  SupportsClear  SupportsExit  SupportsHome  SupportsMenu  SupportsKeypadNumber  SupportsPound  SupportsAsterisk  SupportsPeriod  SupportsDash  SupportsKeypadBackSpace  SupportsPlayBackStatusFeedback  SupportsTrackFeedback  SupportsChapterFeedback  SupportsTrackElapsedTimeFeedback  SupportsTrackRemainingTimeFeedback  SupportsChapterElapsedTimeFeedback  SupportsChapterRemainingTimeFeedback  SupportsTotalElapsedTimeFeedback  SupportsTotalRemainingTimeFeedback  SupportsAudio  SupportsDisplay  SupportsEject  SupportsOptions  SupportsSubtitle  SupportsFeedback  SupportsDiscreteEnergyStar  SupportsEnergyStarFeedback  SupportsToggleEnergyStar  SupportsColorButtons  SupportsPopUpMenu  SupportsTopMenu  SupportsAudioInputFeedback  SupportsAudioOutputFeedback  SupportsVideoInputFeedback  SupportsVideoOutputFeedback  SupportsSetAudioInputSource  SupportsSetAudioOutputSource  SupportsSetVideoInputSource  SupportsSetVideoOutputSource  SupportsPlayPause  SupportsReplay |

## AV Receivers

|  |
| --- |
| SupportsArrowKeys  SupportsAudio  SupportsChangeVolume  SupportsClear  SupportsCoolDownTime  SupportsDisconnect  SupportsDiscreteMute  SupportsDiscretePower  SupportsEnter  SupportsExit  SupportsFeedback  SupportsForwardScan  SupportsForwardSkip  SupportsHome  SupportsInputFeedback  SupportsMenu  SupportsMute  SupportsMuteFeedback  SupportsPause  SupportsPlay  SupportsPowerFeedback  SupportsReconnect  SupportsReverseScan  SupportsReverseSkip  SupportsSelect  SupportsSetInputSource  SupportsSetVolume  SupportsStop  SupportsThumbsDown  SupportsThumbsUp  SupportsTogglePower  SupportsVolumePercentFeedback  SupportsToneControlFeedback  SupportsDiscreteToneControl  SupportsToggleToneControl  SupportsBassFeedback  SupportsBassDbFeedback  SupportsTrebleFeedback  SupportsTrebleDbFeedback  SupportsSetBass  SupportsChangeBass  SupportsSetTreble  SupportsChangeTreble  SupportsLoudnessFeedback  SupportsDiscreteLoudness  SupportsToggleLoudness  SupportsWarmUpTime  SupportsSurroundModeFeedback  SupportsSurroundModeCycle  SupportsTunerFeedback  SupportsChangeFrequency  SupportsSetFrequency  SupportsAutoFrequency  SupportsFrequencyBand  SupportsDiscreteFrequencyBand  SupportsPresetRecall  SupportsPresetStore  SupportsChangePreset  SupportsSearch  SupportsAudioInputFeedback  SupportsAudioOutputFeedback  SupportsVideoInputFeedback  SupportsVideoOutputFeedback  SupportsSetAudioInputSource  SupportsSetAudioOutputSource  SupportsSetVideoInputSource  SupportsSetVideoOutputSource  SupportsSirius  SupportsXm  SupportsSiriusXm  SupportsHdRadio  SupportsInternetRadio  SupportsLastFm  SupportsPandoraRadio  SupportsRhapsody  SupportsSpotify  SupportsYouTube  SupportsYouTubeTv  SupportsNetflix  SupportsHulu  SupportsDirectvNow  SupportsAmazonVideo  SupportsPlaystationVue  SupportsSlingTv  SupportsAirplay  SupportsGoogleCast  SupportsDlna  SupportsTidal  SupportsDeezer  SupportsCrackle  SupportsGooglePlay |

## Security Systems

|  |
| --- |
| SupportsKeypadStatusText  SupportsPowerFeedback  SupportsUsername  SupportsPassword  SupportsKeypadEmulation  SupportsAsterik  SupportsDash  SupportsEnter  SupportsKeypadBackspace  SupportsKeypadNumber  SupportsKeypadPeriod  SupportsKeypadPound  SupportsArrowKeys  SupportsClear  SupportsExit  SupportsHome  SupportsMenu  SupportsSelect  SupportsInfo  SupportsLogin  SupportsUDLLogin  SupportsRequestLog  SupportsRequestLogSetAmount  SupportsRequestSoftwareVersion  SupportsRequestSoftwareVersionDifferences  SupportsRequestResourceStatus  SupportsRequestAreaResourceStatus  SupportsRequestZoneResourceStatus  SupportsRequestOutputResourceStatus  SupportsRequestDoorResourceStatus  SupportsRequestDeviceResourceStatus  SupportsRequestFeatures  SupportsRequestSystemStatus  SupportsRequestAreaInfo  SupportsRequestZoneInfo  SupportsRequestOutputInfo  SupportsRequestDoorInfo  SupportsRequestDeviceInfo  SupportsRequestSystemSetup  SupportsRequestResourceName  SupportsRequestResourcePermission  SupportsBypassAll  SupportsBypassResource  SupportsUnbypassResource  SupportsUnbypassAll  SupportsResourceArmDelayed  SupportsResourceArmInstant  SupportsResourceArmAway  SupportsResourceArmAwayInstant  SupportsResourceArmAwayDelayed  SupportsResourceArmStay  SupportsResourceArmStayInstant  SupportsResourceArmStayDelayed  SupportsArmAll  SupportsDisarmAll  SupportsDisarm  SupportsArm  SupportsDisarmResource  SupportsRequestAreaCount  SupportsRequestZoneCount  SupportsRequestOutputCount  SupportsRequestDoorCount  SupportsRequestDeviceCount  SupportsSetResourceState  SupportsRequestBypassedResources  SupportsSilenceBells  SupportsResetSensors  SupportsSubscribeResourceOnOffState  SupportsSubscribeResourceReadyState  SupportsSubscribeResourceGeneralState  SupportsSubscribeDeviceLogging  SupportsSubscribeDeviceMessages  SupportsSubscribeDeviceConfigurationChange  SupportsSubscribe  SupportsRequestAlarm  SupportsRequestAreasNotReadyToArm  SupportsRequestUsers  SupportsRequestAreaAlarm  SupportsRequestZoneAlarm  SupportsRequestTamper  SupportsRequestAlarmMemory  SupportsRequestAreaAlarmMemory  SupportsRequestZoneAlarmMemory  SupportsRequestFireAlarm  SupportsRequestFireAlarmMemory |