

Diag Commands

Revised: September 29. 2020

This chapter contains the following **diag** commands:

- diag audio loopback disable
- diag audio loopback enable
- diag audio loopback enable status
- diag audio loopback status
- diag audio measurement
- diag audio speaker test
- diag camera switch
- diag display capture loopback
- diag display color-bars disable
- diag display color-bars enable
- diag display loopback full disable
- diag display loopback full enable
- diag display loopback full status
- diag display register dump
- diag display temperature get
- diag display temperature set
- diag system

diag audio loopback disable

diag audio loopback disable

Syntax Description This command has no arguments or keywords.

Command Default No default behavior or values.

 Release
 Modifications

 1.5
 This command was introduced.

 1.5.10
 The help option was added.

Usage Guidelines Use this command to terminate a full diagnostic display loopback. You can also enter **help** in the command string to terminate a diagnostic audio loopback running on any of the microphones:

help diag audio loopback disable

| Examples | admin: diag | audio | loopback | disable |
|----------|--------------------|-------|----------|---------|
| | | | | |

Stopping Audio Loopback

| Related Commands | Command | Description |
|-------------------------|-------------------------------|---|
| | diag audio loopback enable | Turns on audio loopback. |
| | diag audio loopback status | Gives the status of the audio loopback. |

diag audio loopback enable

| diag audio loopback enable [center left right [timeout number]] | diag audio loo | pback enable | [center left | right | [timeout number]] |
|---|----------------|--------------|----------------|-------|-------------------|
|---|----------------|--------------|----------------|-------|-------------------|

| Syntax Description | | |
|--------------------|---|---|
| | timeout number | Optional. Length of time loopback will run (in seconds). Value is 10 to 3600. Default is 60 |
| | center | Initiates a diagnostic audio loopback on the center microphone. |
| | left | Initiates a diagnostic audio loopback on the left microphone. |
| | right | Initiates a diagnostic audio loopback on the right microphone. |
| Command Default | 60 | |
| Command History | Release | Modifications |
| | 1.5 | This command was introduced. |
| | 1.5.10 | The center , left , and right keywords were added. The help option was also added. |
| <u></u> | | |
| Note | You must first end Call calling services when de | |
| | calling services when do | one. |
| | calling services when de The following example | sets the timeout to the default value of 60: |
| | calling services when de The following example admin: diag audio loc | sets the timeout to the default value of 60: opback enable timeout 60 |
| | calling services when de The following example admin: diag audio loc The following example | sets the timeout to the default value of 60: opback enable timeout 60 sets the timeout to 60 on the left microphone: |
| Note Examples | calling services when de The following example admin: diag audio loc The following example | sets the timeout to the default value of 60: opback enable timeout 60 |
| | calling services when de The following example admin: diag audio loc The following example | sets the timeout to the default value of 60: opback enable timeout 60 sets the timeout to 60 on the left microphone: opback enable left timeout 60 |
| Examples | calling services when de The following example admin: diag audio loc The following example admin: diag audio loc | sets the timeout to the default value of 60: opback enable timeout 60 sets the timeout to 60 on the left microphone: opback enable left timeout 60 |
| | calling services when de The following example admin: diag audio loc The following example admin: diag audio loc Loopback is now runni | one. sets the timeout to the default value of 60: opback enable timeout 60 sets the timeout to 60 on the left microphone: opback enable left timeout 60 ing |
| Examples | calling services when de The following example admin: diag audio loc The following example admin: diag audio loc Loopback is now runni Command diag audio loopback | one. sets the timeout to the default value of 60: opback enable timeout 60 sets the timeout to 60 on the left microphone: opback enable left timeout 60 ing Description |

diag audio loopback enable status

diag audio loopback enable status

| Syntax Description | This command has no a | rguments or keywords |
|------------------------------|--|------------------------------|
| Command Default | No default behavior or v | values. |
| Command History | Release | Modifications |
| | IX 8.0.2.2 | This command was introduced. |
| Usage Guidelines Examples | This will give the status admin: diag audio loo Loopback is not runni | |
| Related Commands | Command | Description |
| | diag audio loopback enable | Initiates audio loopback |
| | diag audio loopback disable | Cancels audio loopback. |

diag audio loopback status

diag audio loopback status

| Syntax Description | This command has no arguments or keywords. | | |
|--------------------|--|---|--|
| Command Default | No default behavior or | values. | |
| Command History | Release | Modifications | |
| | 1.5 | This command was introduced. | |
| | 1.5.10 | The help option was added. | |
| | IX 8.0 | Deprecated. This command doesn't exist in IX 8.0. | |
| Examples | help diag audio looph admin:diag audio loop | | |
| | Loopback is not runni | ng | |
| Related Commands | Command | Description | |
| | diag audio loopback enable | Initiates audio loopback. | |
| | diag audio loopback disable | Cancels audio loopback. | |
| | | | |

diag audio measurement

diag audio measurement [rt60 | soundpressure]

| Syntax Description | rt60 | Stops call services to perform a sound pressure audio capture. | | |
|--------------------|---|--|--|--|
| | soundpressure | Captures sound pressure audio. | | |
| Command Default | No default behavior o | or values. | | |
| Command History | Release | Modifications | | |
| | 1.7.0 | This command was introduced. | | |
| Usage Guidelines | Use this command to | stop call services to measure audio output. | | |
| Examples | admin diag audio me | easurement rt60 | | |
| | This will stop call services. Are you ready to continue? [yes/no] yes | | | |
| | admin diag audio measurement soundPressure | | | |
| | This will stop call services. Are you ready to continue? [yes/no] yes | | | |
| | It is imperative that you remain silent during the audio capture. Are you ready to begin audio capture now? [yes/no] yes | | | |
| | capturing sound pre | essure audio now. This could take a while, please be patient | | |
| Related Commands | Command | Description | | |
| | diag audio loopback enable | Turns on audio loopback. | | |

Gives the status of the audio loopback.

diag audio loopback

status

diag audio speaker test

diag audio speaker test [nosubwoofer | subwoofer]

| ntax Description | nosubwoofer | Tests speakers without subwoofer. |
|------------------|---------------------|---|
| | subwoofer | Tests speakers with subwoofer. |
| mand Default | No default behavior | or values. |
| nmand History | Release | Modifications |
| | 1.9.0 | This command was introduced. |
| | 11010 | |
| | IX 8.0 | Parameter change from 'right left' to 'nosubwoofer subwoofer' |
| age Guidelines | | Parameter change from 'right left' to 'nosubwoofer subwoofer' |

diag camera switch

diag camera switch [center | left | right

| Syntax Description | center | Initiates a switch focus to the center camera. | |
|------------------------------|--|--|--|
| | left | Initiates a switch focus to the left camera. | |
| | right | Initiates a switch focus to the right camera. | |
| command Default | No default behav | ior or values. | |
| command History | Release | Modifications | |
| | 1.7.0 | This command was introduced on the CTS 1300. | |
| | IX 8.0 | Deprecated. This command doesn't exist in IX 8.0 | |
| Jsage Guidelines Examples | Use this command to switches camera focus on the CTS 1300. The following example switches the center camera focus: admin:diag camera switch center | | |

diag display capture loopback

| Syntax Description | center | Captures the video loopback frame for the center camera. |
|--------------------|--|--|
| -, | left | Captures the video loopback frame for the left camera. |
| | right | Captures the video loopback frame for the right camera. |
| Command Default | No default behavior or | values. |
| Command History | Release | Modifications |
| | 1.7.0 | This command was introduced. |
| | IX 8.0.2.2 | Command modified from 'diag display capture loopback' to 'diag display capture loopback [center left right]' |
| Usage Guidelines | camera in loopback mod system logs for use in in associated with a norma confirmation pop-up in t | eate a still image of the meeting room environment exactly as seen from the CTS de. This information in the form of a .bmp image file is then submitted with the istallation verification, camera alignment, and further troubleshooting activities 1 installation or a service request. When you initiate the tool, the system sends a the SSH command window, which you can accept (allow capture) or decline (no See the "Troubleshooting Using the Camera Image Capture Tool" section on |
| Examples | | ngture loopback center ng. Please enable display loopback and try again |
| Related Commands | Command | Description |
| | diag display loopback full enable | Initiates a full diagnostic display loopback. |

diag display color-bars disable

diag display color-bars disable [center | left | right]

| Syntax Description | center | Disables color bars on the center display. | | |
|----------------------|-----------------------------------|--|--|--|
| e finan 2000 i piron | left | Disables color bars on the left display. | | |
| | right | Disables color bars on the right display. | | |
| Command Default | No default behavior or values. | | | |
| Command History | Release | Modifications | | |
| | 1.5 | This command was introduced. | | |
| | 1.5.10 | The center , left , and right keywords were added. The help option was also added. | | |
| Usage Guidelines | | minate diagnostic color bar display. You can also enter help in the command r bars on the specified screen, center, left, or right: pr-bars disable center | | |
| Examples | admin: diag display co l | lor-bars disable | | |
| Related Commands | Command | Description | | |
| | diag display color-bars enable | Initiates diagnostic color bar display. | | |

diag display color-bars enable

diag display color-bars enable [center | left | right]

| Syntax Description | center | Disables color bars on the center display. |
|-------------------------|--------------------------------|--|
| | left | Disables color bars on the left display. |
| | right | Disables color bars on the right display. |
| Command Default | No default behavior or va | alues. |
| Command History | Release | Modifications |
| | 1.5 | This command was introduced. |
| | 1.5.10 | The center , left , and right keywords were added. The help option was also added. |
| Usage Guidelines | | iate diagnostic color bar display. You can also enter help in the command string on the specified screen, center, left, or right: or-bars enable center |
| Examples | admin: diag display col | or-bars enable |
| | Command | Description |
| Related Commands | | |

diag display loopback full disable

diag display loopback full disable

| Syntax Description | This command has no arguments or keywords. |
|--------------------|--|
|--------------------|--|

Command Default No default behavior or values.

 Release
 Modifications

 1.2
 This command was introduced.

 1.5.10
 The help option was added.

Usage Guidelines Use this command to terminate a full diagnostic display loopback. You can also enter help in the command string to terminate a full diagnostic display loopback:

help diag display loopback full disable

Examples admin:diag display loopback full disable

Stopping Display Loopback

| Related Commands | Command | Description |
|------------------|--------------------------------------|---|
| | diag display loopback full enable | Initiates a full diagnostic display loopback. |
| | diag display loopback full status | Gives the status of the full diagnostic display loopback. |

diag display loopback full enable

diag display loopback full enable [timeout number]

| Syntax Description | timeout number | Length of time the loopback should run (in seconds). Value is 10 to 3600. Default is 60 |
|--------------------|---|---|
| Command Default | 60 | |
| Command History | Release | Modifications |
| | 1.2 | This command was introduced. |
| | 1.5.10 | The help option was added. |
| Usage Guidelines | | iate a full diagnostic display loopback. You can also enter he1p in the command agnostic display loopback: |
| | help diag display loop | pback full enable |
| Note | You must first end Callin calling services when do | ng Services by entering utils service stop calling_services . Be sure to restart ne. |
| | See the "Troubleshootin | g Using the Camera Image Capture Tool" section on page 9-1. |
| Examples | admin: diag display lo Loopback is now runnin | o pback full enable timeout 60 ng |
| Related Commands | Command | Description |
| | diag display capture loopback | Initiates the camera image capture tool. |
| | diag display loopback full disable | Terminates a full diagnostic display loopback. |
| | diag display loopback full status | Displays status of the full diagnostic display loopback. |

diag display loopback full status

diag display loopback full status

Command Default No default behavior or values.

 Release
 Modifications

 1.2
 This command was introduced.

 1.5.10
 The help option was added.

Use this command to view the status of the full diagnostic display loopback. You can also enter help in the command string to give the status of the full diagnostic display loopback:

help diag display loopback full status

Examples admin:diag display loopback full status

Loopback is not running

| Related Commands | Command | Description | |
|-------------------------|---------------------------------------|--|--|
| | diag display loopback full disable | Terminates a full diagnostic display loopback. | |
| | diag display loopback full enable | Initiates a full diagnostic display loopback. | |

diag display register dump

diag display register dump

| Syntax Description | This command has no | arguments or keywords. |
|------------------------------|--|--|
| Command Default | No default behavior or | values. |
| Command History | Release | Modifications |
| | 1.4.1 | This command was introduced. |
| | IX 8.0 | Deprecated. This command doesn't exist in IX 8.0. |
| Usage Guidelines | | lownload diagnostic display register information. To retrieve the diagnostic nation, use the utils logs generate command. See Chapter 8, "Utils Commands." |
| Note | The register dump can | take up to two minutes to complete. |
| | | |
| Examples | admin: diag display r | register dump |
| Examples Related Commands | Command | register dump Description |
| | | register dump |
| | Command utils logs generate | register dump Description |
| | Command utils logs generate audio utils logs generate | Description Generates audio log files. Generates log files for other devices, such as Auxiliary Control Unit (ACU), |
| | Command utils logs generate audio utils logs generate other utils logs generate | Description Generates audio log files. Generates log files for other devices, such as Auxiliary Control Unit (ACU), LEDs, and digital media player (DMP). |
| | Command utils logs generate audio utils logs generate other utils logs generate phone utils logs generate | Description Generates audio log files. Generates log files for other devices, such as Auxiliary Control Unit (ACU), LEDs, and digital media player (DMP). Generates phone log files. |

diag display temperature get

diag display temperature get [center | left | right]

| Syntax Description | center | Retrieves the temperature of the center display. |
|---------------------------------|--|---|
| | left | Retrieves the temperature of the left display. |
| | right | Retrieves the temperature of the right display. |
| Command Default | No default behavior o | r values. |
| Command History | Release | Modifications |
| | 1.5 | This command was introduced. |
| | 1.5.10 | The center , left , and right keywords were added. The help option was also added. |
| | IX 8.0 | Deprecated. This command does not exist in IX 8.0. |
| Usage Guidelines | string to retrieve the c | view the current display temperature. You can also enter help in the command surrent temperature of the center display for the center, left, and right display: |
| Usage Guidelines | string to retrieve the c | |
| Usage Guidelines <u>Note</u> | string to retrieve the c help diag display t | urrent temperature of the center display for the center, left, and right display: emperature get center Illing Services by entering utils service stop calling_services. Be sure to restart |
| | string to retrieve the c help diag display to You must first end Ca | emperature get center lling Services by entering utils service stop calling_services. Be sure to restart done. |
| Note | string to retrieve the c help diag display to You must first end Ca calling services when admin:diag display | emperature get center lling Services by entering utils service stop calling_services. Be sure to restart done. |
| Note | string to retrieve the c help diag display to You must first end Ca calling services when admin:diag display | <pre>surrent temperature of the center display for the center, left, and right display: emperature get center lling Services by entering utils service stop calling_services. Be sure to restart done. temperature get perature is: 3000K</pre> |

diag display temperature set

diag display temperature set [3000 | 3500 | 4000 | 5000 | 6500 | 7500] [center | left | right]

| Syntax Description | 3000 | Sets color temperature to 3000. |
|------------------------------|---|---|
| | 3500 | Sets color temperature to 3500. |
| | 4000 | Sets color temperature to 4000. |
| | 5000 | Sets color temperature to 5000. |
| | 6500 | Sets color temperature to 6500. |
| | 7500 | Sets color temperature to 7500. |
| | center | Sets color temperature on the center display. |
| | left | Sets color temperature on the left display. |
| | right | Sets color temperature on the right display. |
| Command Default | No default behavior o | or values. Modifications |
| command mistory | 1.5 | This command was introduced. |
| | 1.5 | The center, left, and right keywords were added. The help option was also |
| | 1.5.10 | added. |
| | | |
| | IX 8.0 | Deprecated. This command does not exist in IX 8.0. |
| Usage Guidelines | Use this command to to set the temperature | - |
| Usage Guidelines | Use this command to to set the temperature | set the display color temperature. You can also enter help in the command string e of a specified display (center, left, right) to a specified temperature: |
| Usage Guidelines Note | Use this command to to set the temperature help diag display t | set the display color temperature. You can also enter help in the command string e of a specified display (center, left, right) to a specified temperature: cemperature set 3000 center alling Services by entering utils service stop calling_services. Be sure to restart |
| | Use this command to to set the temperature help diag display t You must first end Ca | set the display color temperature. You can also enter help in the command string e of a specified display (center, left, right) to a specified temperature: cemperature set 3000 center alling Services by entering utils service stop calling_services. Be sure to restart a you are done. |
| Note Examples | Use this command to to set the temperature help diag display t You must first end Ca calling services when admin: diag display | set the display color temperature. You can also enter help in the command string e of a specified display (center, left, right) to a specified temperature: cemperature set 3000 center alling Services by entering utils service stop calling_services. Be sure to restart a you are done. temperature 3000 |
| Note | Use this command to to set the temperature help diag display t You must first end Ca calling services when | set the display color temperature. You can also enter help in the command string e of a specified display (center, left, right) to a specified temperature: cemperature set 3000 center alling Services by entering utils service stop calling_services. Be sure to restart a you are done. |

diag system

diag system [normal | quick | extensive]

| Syntax Decorintian | normal | Dung a complete diagnostic check of the system |
|---------------------------------|---|---|
| Syntax Description | normal | Runs a complete diagnostic check of the system. |
| | quick | Runs a quick check of the system. |
| | extensive | Runs an extensive diagnostics check on the system. |
| | | |
| Command Default | No default behavior or | values. |
| Command History | Release | Modifications |
| - | 1.9 | This command was introduced. |
| | TX 6.0 | Added the 'extensive' option. |
| | 174 0.0 | Note: 'extensive' option not available in 1.x releases. |
| Usage Guidelines <u>Note</u> | • You must first end restart calling servi | etrieve full or partial system diagnostics. The quick iteration of this command full iteration but takes less time to perform. Calling Services by entering utils service stop calling_services . Be sure to ces when you are done. cond row will fail in 1-row systems. |
| Examples | The following example admin:diag system nor Host CPU Results 9FG830 Test I2C Scan All LM25066 Test All PCA9547 Test PCI Test PEX8796 EEPROM Test PIC 1 GPI0 Test 0 PIC 1 GPI0 Test 1 PIC 1 GPI0 Test 2 PIC 1 GPI0 Test 3 PIC 1 GPI0 Test 4 PIC 1 GPI0 Test 4 PIC 1 GPI0 Test 5 | shows output of the full iteration of this command: rmal ==> PASS ==> PA |
| | PIC 1 GPIO Test 6 PIC 2 SPI Test 0 | ==> PASS ==> PASS |

| USB PIC 1 Test | ==> | PASS |
|------------------------------|-----|--------|
| USB PIC 2 Test | ==> | PASS |
| USB PT Test | ==> | PASS |
| | | |
| Camera Results | | |
| FPGA Clock Test 1 | ==> | PASS |
| FPGA Clock Test 2 | ==> | PASS |
| FPGA Clock Test 3 | ==> | PASS |
| FPGA Ping Test | ==> | PASS |
| Get FPGA Version | | PASS |
| Get HW Version | | PASS |
| Get SW Version | | PASS |
| Get Temperature | | PASS |
| Get Vmetrics Dump | | PASS |
| I2C Test 0 | | PASS |
| I2C Test 1 | | PASS |
| | | |
| I2C Test 2 | | PASS |
| I2C Test 3 | | PASS |
| Imager Test 1 Vid Type 0 | | PASS |
| Imager Test 2 Vid Type 0 | | PASS |
| Imager Test 3 Vid Type 0 | | PASS |
| PFlash Quick Test | ==> | PASS |
| | | |
| Video Receiver Results | | |
| Clock Test | ==> | PASS |
| Ctrl1 version | ==> | PASS |
| PCI Link Speed | ==> | PASS |
| PIC ADC Test | ==> | PASS |
| PIC GPIO Test | ==> | PASS |
| PIC SI5338 Test | ==> | PASS |
| PIC TMP102 Test | ==> | PASS |
| PIC TPS40422 Test | | PASS |
| | | |
| Encoder/Decoder Results | | |
| Board Revision | ==> | PASS |
| Clock Gx01 | | PASS |
| Clock Gx23 | | PASS |
| ECB ID | | PASS |
| Outlet Fan ID | | PASS |
| PLX Switch ID | | PASS |
| | | |
| System Power | ==> | PASS |
| helle Gent Denalter | | |
| Audio Card Results | | |
| I2C Test | | PASS |
| Pic USB Test | | PASS |
| Plekton ch 0 Mic Detect Test | | |
| Plekton ch 0 i2c1 Test | ==> | PASS |
| Plekton ch 0 i2c2 Test | ==> | PASS |
| Plekton ch 0 i2c3 Test | ==> | PASS |
| Plekton ch 1 Mic Detect Test | ==> | FAILED |
| Plekton ch 1 i2c1 Test | ==> | FAILED |
| Plekton ch 1 i2c2 Test | ==> | FAILED |
| Plekton ch 1 i2c3 Test | | FAILED |
| Plekton ch 2 Mic Detect Test | ==> | FAILED |
| Plekton ch 2 i2c1 Test | | FAILED |
| Plekton ch 2 i2c2 Test | | FAILED |
| Plekton ch 2 i2c3 Test | | FAILED |
| SPI Test | | PASS |
| | | |

The following example shows output of the quick iteration of this command:

admin:**diag system quick** stopping SSCD

Stopping sscd... Stopping sscd... DONE sscd status = 3Tests running. Please be patient as this may take a while. Host CPU Results 9FG830 Test ==> PASS I2C Scan All ==> PASS LM25066 Test All ==> PASS PCA9547 Test ==> PASS PCT Test ==> PASS PEX8796 EEPROM Test ==> PASS PIC 1 GPIO Test 0 ==> PASS PIC 1 GPIO Test 1 ==> PASS PIC 1 GPIO Test 2 ==> PASS PIC 1 GPIO Test 3 ==> PASS PIC 1 GPIO Test 4 ==> PASS PIC 1 GPIO Test 5 ==> PASS PIC 1 GPIO Test 6 ==> PASS ==> PASS PIC 2 SPI Test 0 PIC 2 SPI Test 1 ==> PASS PIC 2 SPI Test 2 ==> PASS USB PIC 1 Test ==> PASS USB PIC 2 Test ==> PASS USB PT Test ==> PASS Camera Results FPGA Clock Test 1 ==> PASS FPGA Clock Test 2 ==> PASS FPGA Clock Test 3 ==> PASS FPGA Ping Test ==> PASS Get FPGA Version ==> PASS Get HW Version ==> PASS Get SW Version ==> PASS ==> PASS Get Temperature Get Vmetrics Dump ==> PASS PFlash Quick Test ==> PASS Video Receiver Results Clock Test ==> PASS Ctrl1 version ==> PASS PCI Link Speed ==> PASS PIC ADC Test ==> PASS PIC GPIO Test ==> PASS PIC SI5338 Test ==> PASS PIC TMP102 Test ==> PASS PIC TPS40422 Test ==> PASS Encoder/Decoder Results Board Revision ==> PASS Clock Gx01 ==> PASS Clock Gx23 ==> PASS ECB ID ==> PASS Outlet Fan ID ==> PASS PLX Switch ID ==> PASS System Power ==> PASS Audio Card Results I2C Test ==> PASS Plekton ch 0 Mic Detect Test ==> PASS Plekton ch 0 i2c1 Test ==> PASS Plekton ch 0 i2c2 Test ==> PASS Plekton ch 0 i2c3 Test ==> PASS

| Plekton ch 1 Mic Detect Test | ==> FAILED |
|--|--------------------------|
| Plekton ch 1 i2c1 Test | ==> FAILED |
| Plekton ch 1 i2c2 Test | ==> FAILED |
| Plekton ch 1 i2c3 Test | ==> FAILED |
| | |
| Plekton ch 2 Mic Detect Test | ==> FAILED |
| Plekton ch 2 Mic Detect Test Plekton ch 2 i2c1 Test | ==> FAILED ==> FAILED |
| | |

Retrieve Log of Test Results With file get log scp <username> <password> <destination> sysdiag/System_diag.log

Related Commands None.