

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]]
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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.
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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.