



CleanAir Commands

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config 802.11 cleanair

config 802.11 cleanair

To enable or disable CleanAir for the 802.11 a or 802.11 b/g network, use the **config 802.11 cleanair** command.

```
config 802.11 {a | b} cleanair {alarm {air-quality {disable | enable | threshold alarm_threshold} | device {disable device_type | enable device_type | reporting {disable | enable}} | unclassified {disable | enable | threshold alarm_threshold} } | device {disable device_type | enable device_type | reporting {disable | enable}} | disable {network | cisco_ap} | enable {network | cisco_ap} }
```

Syntax Description		
a		Specifies the 802.11a network.
b		Specifies the 802.11b/g network.
alarm		Configure 5-GHz cleanair alarms.
air-quality		Configures the 5-GHz air quality alarm.
enable		Enables the CleanAir settings.
disable		Disables the CleanAir settings.
threshold		Configure the 5-GHz air quality alarm threshold.
<i>alarm_threshold</i>		Air quality alarm threshold (1 is bad air quality, and 100 is good air quality).
device		Configures the 5-GHz cleanair interference devices alarm.

<i>device_type</i>	Device types. The device types are as follows: <ul style="list-style-type: none">• 802.11-nonstd—Devices using nonstandard Wi-Fi channels.• 802.11-inv—Devices using spectrally inverted Wi-Fi signals.• superag—802.11 SuperAG devices.• all —All interference device types.• cont-tx—Continuous Transmitter.• dect-like—Digital Enhanced Cordless Communication (DECT) like phone.• tdd-tx—TDD Transmitter.• jammer—Jammer.• canopy—Canopy devices.• video—Video cameras.• wimax-mobile—WiMax Mobile.• wimax-fixed—WiMax Fixed.				
reporting	Configures the 5-GHz CleanAir interference devices alarm reporting.				
unclassified	Configures the 5-GHz air quality alarm on exceeding unclassified category severity.				
<i>network</i>	5-GHz Cisco APs.				
<i>cisco_ap</i>	Name of the access point to which the command applies.				
Command Default	The default CleanAir settings for the 802.11 a or 802.11 b/g network is disabled.				
Command History	<table border="1"> <thead> <tr> <th>Release</th><th>Modification</th></tr> </thead> <tbody> <tr> <td>7.6</td><td>This command was introduced in a release earlier than Release 7.6.</td></tr> </tbody> </table>	Release	Modification	7.6	This command was introduced in a release earlier than Release 7.6.
Release	Modification				
7.6	This command was introduced in a release earlier than Release 7.6.				

The following example shows how to enable the CleanAir settings on access point ap_24:

```
(Cisco Controller) > config 802.11a cleanair enable ap_24
```

Related Topics

[config 802.11 cleanair device](#), on page 4

config 802.11 cleanair device

config 802.11 cleanair device

To configure CleanAir interference device types, use the **config 802.11 cleanair device** command.

```
config 802.11 {a | b} cleanair device {enable | disable | reporting {enable | disable}} {device_type}
```

Syntax Description		
	a	Specifies the 802.11a network.
	b	Specifies the 802.11b/g network.
	enable	Enables the CleanAir reporting for the interference device type.
	disable	Disables the CleanAir reporting for the interference device type.
	reporting	Configures CleanAir interference device reporting.
	enable	Enables the 5-GHz Cleanair interference devices reporting.
	disable	Disables the 5-GHz Cleanair interference devices reporting.
	<i>device_type</i>	Interference device type. The device type are as follows: <ul style="list-style-type: none"> • 802.11-nonstd—Devices using nonstandard WiFi channels. • 802.11-inv—Devices using spectrally inverted WiFi signals. • superag—802.11 SuperAG devices. • all —All interference device types. • cont-tx—Continuous Transmitter. • dect-like—Digital Enhanced Cordless Communication (DECT) like phone. • tdd-tx—TDD Transmitter. • jammer—Jammer. • canopy—Canopy devices. • video—Video cameras. • wimax-mobile—WiMax Mobile. • wimax-fixed—WiMax Fixed.

Command Default	The default setting CleanAir reporting for the interference device type is disabled.	
Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to enable the CleanAir reporting for the device type jammer:

```
(Cisco Controller) > config 802.11a cleanair device enable jammer
```

The following example shows how to disable the CleanAir reporting for the device type video:

```
(Cisco Controller) > config 802.11a cleanair device disable video
```

The following example shows how to enable the CleanAir interference device reporting:

```
(Cisco Controller) > config 802.11a cleanair device reporting enable
```

Related Topics

[config 802.11 cleanair](#), on page 2

config 802.11 cleanair alarm

config 802.11 cleanair alarm

To configure the triggering of the air quality alarms, use the **config 802.11 cleanair alarm** command.

```
config 802.11{a | b} cleanair alarm {air-quality {disable | enable | threshold alarm_threshold} | device {disable device_type | enable device_type} | reporting {disable | enable} | unclassified {disable | enable | threshold alarm_threshold} }
```

Syntax Description		
a		Specifies the 802.11a network.
b		Specifies the 802.11b/g network.
air-quality		Configures the 5-GHz air quality alarm.
disable		Disables the 5-GHz air quality alarm.
enable		Enables the 5-GHz air quality alarm.
threshold		Configures the 5-GHz air quality alarm threshold.
<i>alarm_threshold</i>		Air quality alarm threshold (1 is bad air quality, and 100 is good air quality).
device		Configures the 5-GHz cleanair interference devices alarm.
all		Configures all the device types at once.
reporting		Configures the 5-GHz CleanAir interference devices alarm reporting.
unclassified		Configures the 5-GHz air quality alarm on exceeding unclassified category severity.

device_type

Device types. The device types are as follows:

- 802.11-nonstd—Devices using nonstandard Wi-Fi channels.
- 802.11-inv—Devices using spectrally inverted Wi-Fi signals.
- superag—802.11 SuperAG devices.
- all —All interference device types.
- cont-tx—Continuous Transmitter.
- dect-like—Digital Enhanced Cordless Communication (DECT) like phone.
- tdd-tx—TDD Transmitter.
- jammer—Jammer.
- canopy—Canopy devices.
- video—Video cameras.
- wimax-mobile—WiMax Mobile.
- wimax-fixed—WiMax Fixed.

Command Default

The default setting for 5-GHz air quality alarm is enabled.

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to enable the CleanAir alarm to monitor the air quality:

```
(Cisco Controller) > config 802.11a cleanair alarm air-quality enable
```

The following example shows how to enable the CleanAir alarm for the device type video:

```
(Cisco Controller) > config 802.11a cleanair alarm device enable video
```

The following example shows how to enable alarm reporting for the CleanAir interference devices:

```
(Cisco Controller) > config 802.11a cleanair alarm device reporting enable
```

Related Topics

[config 802.11 cleanair](#), on page 2

config advanced 802.11 channel cleanair-event

config advanced 802.11 channel cleanair-event

To configure CleanAir event driven Radio Resource Management (RRM) parameters for all 802.11 Cisco lightweight access points, use the **config advanced 802.11 channel cleanair-event** command.

```
config advanced 802.11{a | b} channel cleanair-event {enable | disable | sensitivity [low | medium | high] | custom threshold threshold_value}
```

Syntax Description		
a		Specifies the 802.11a network.
b		Specifies the 802.11b/g network.
enable		Enables the CleanAir event-driven RRM parameters.
disable		Disables the CleanAir event-driven RRM parameters.
sensitivity		Sets the sensitivity for CleanAir event-driven RRM.
low		(Optional) Specifies low sensitivity.
medium		(Optional) Specifies medium sensitivity
high		(Optional) Specifies high sensitivity
custom		Specifies custom sensitivity.
threshold		Specifies the EDRRM AQ threshold value.
<i>threshold_value</i>		Number of custom threshold.
Command Default	None	
Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to enable the CleanAir event-driven RRM parameters:

```
(Cisco Controller) > config advanced 802.11 channel cleanair-event enable
```

The following example shows how to configure high sensitivity for CleanAir event-driven RRM:

```
(Cisco Controller) > config advanced 802.11 channel cleanair-event sensitivity high
```

Related Topics

- [show advanced 802.11 channel](#)
- [config advanced 802.11 channel update](#)
- [config 802.11-a](#)

config advanced 802.11 channel pda-prop

To enable or disable propagation of persistent devices, use the **config advanced 802.11 channel pda-prop** command.

```
config advanced 802.11 { a | b } channel pda-prop { enable | disable }
```

Syntax Description		
a	Specifies the 802.11a network.	
b	Specifies the 802.11b/g network.	
enable	Enables the 802.11 network DCA list option for the outdoor access point.	
disable	Disables the 802.11 network DCA list option for the outdoor access point.	
Command Default	The default 802.11 network DCA list option for the outdoor access point is disabled.	
Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to enable or disable propagation of persistent devices:

```
(Cisco Controller) > config advanced 802.11 channel pda-prop enable
```

Related Topics

[config advanced 802.11 channel update](#)

config advanced 802.11 channel update

To have Radio Resource Management (RRM) initiate a channel selection update for all 802.11a Cisco lightweight access points, use the **config advanced 802.11 channel update** command.

config advanced 802.11 { a | b } channel update

Syntax Description	a b	Specifies the 802.11a network. Specifies the 802.11b/g network.
Command Default	None	
Command History	Release	Modification

The following example shows how to initiate a channel selection update for all 802.11a network access points:

```
(Cisco Controller) > config advanced 802.11a channel update
```

Related Topics

- [show advanced 802.11 channel](#)
- [config advanced 802.11 channel update](#)
- [config advanced 802.11 channel pda-prop](#)

show 802.11 cleanair

To display the multicast-direct configuration state, use the **show 802.11 cleanair** command.

show 802.11{a | b | h} cleanair config

Syntax Description	a	Specifies the 802.11a network.
	b	Specifies the 802.11b/g network.
	h	Specifies the 802.11h network.
	config	Displays the network Cleanair configuration.
Command Default	None	
Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the 802.11a cleanair configuration:

```
(Cisco Controller) > show 802.11a cleanair
Clean Air Solution..... Enabled
Air Quality Settings:
  Air Quality Reporting..... Enabled
  Air Quality Reporting Period (min)..... 15
  Air Quality Alarms..... Enabled
  Air Quality Alarm Threshold..... 35 Interference Device
Settings:
  Interference Device Reporting..... Enabled
  Interference Device Types:
    TDD Transmitter..... Disabled
    Jammer..... Disabled
    Continuous Transmitter..... Disabled
    DECT-like Phone..... Disabled
    Video Camera..... Disabled
    WiFi Inverted..... Disabled
    WiFi Invalid Channel..... Disabled
    SuperAG..... Disabled
    Radar..... Disabled
    Canopy..... Disabled
    WiMax Mobile..... Disabled
    WiMax Fixed..... Disabled
Interference Device Alarms..... Enabled
Interference Device Types Triggering Alarms:
  TDD Transmitter..... Disabled
  Jammer..... Disabled
```

```
show 802.11 cleanair
```

Continuous Transmitter.....	Disabled
DECT-like Phone.....	Disabled
Video Camera.....	Disabled
WiFi Inverted.....	Disabled
WiFi Invalid Channel.....	Disabled
SuperAG.....	Disabled
Radar.....	Disabled
Canopy.....	Disabled
WiMax Mobile.....	Disabled
WiMax Fixed.....	Disabled Additional
Clean Air Settings:	
CleanAir Event-driven RRM State.....	Enabled
CleanAir Driven RRM Sensitivity.....	Medium
CleanAir Persistent Devices state.....	Disabled

Related Topics

- [config 802.11 cleanair alarm](#), on page 6
- [config 802.11 cleanair device](#), on page 4
- [show 802.11 cleanair air-quality summary](#), on page 13
- [show 802.11 cleanair device type](#), on page 16
- [show 802.11 cleanair device ap](#), on page 15

show 802.11 cleanair air-quality summary

To display the air quality summary information for the 802.11 networks, use the **show 802.11 cleanair air-quality summary** command.

show 802.11 {a | b | h} cleanair air-quality summary

Syntax Description	a	Specifies the 802.11a network.
	b	Specifies the 802.11b/g network.
	h	Specifies the 802.11h network.
	summary	Displays a summary of 802.11 radio band air quality information.
Command Default	None	
Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display a summary of the air quality information for the 802.11a network:

```
(Cisco Controller) > show 802.11a cleanair air-quality summary
AQ = Air Quality
DFS = Dynamic Frequency Selection
AP Name          Channel  Avg AQ  Min AQ  Interferers  DFS
-----          -----    -----   -----   -----   -----
CISCO_AP3500      36      95     70      0
CISCO_AP3500      40      93     75      0
```

Related Topics

- [config 802.11 cleanair alarm](#), on page 6
- [show 802.11 cleanair](#), on page 11
- [config 802.11 cleanair device](#), on page 4
- [show 802.11 cleanair device type](#), on page 16
- [show 802.11 cleanair device ap](#), on page 15

show 802.11 cleanair air-quality worst

show 802.11 cleanair air-quality worst

To display the worst air quality information for the 802.11 networks, use the **show 802.11 cleanair air-quality worst** command.

show 802.11 { a | b | h } cleanair air-quality worst

Syntax Description	a	Specifies the 802.11a network.
	b	Specifies the 802.11b/g network.
	h	Specifies the 802.11h network.
	worst	Displays the worst air quality information for 802.11 networks.
Command Default		None
Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display worst air quality information for the 802.11a network:

```
(Cisco Controller) > show 802.11 cleanair air-quality worst
AQ = Air Quality
DFS = Dynamic Frequency Selection
AP Name          Channel  Avg AQ  Min AQ  Interferers  DFS
-----          -----    -----   -----   -----
CISCO_AP3500      1       83     57      3        5
```

Related Topics

- [config 802.11 cleanair alarm](#), on page 6
- [show 802.11 cleanair](#), on page 11
- [config 802.11 cleanair device](#), on page 4
- [show 802.11 cleanair device type](#), on page 16
- [show 802.11 cleanair device ap](#), on page 15

show 802.11 cleanair device ap

To display the information of the device access point on the 802.11 radio band, use the **show 802.11 cleanair device ap** command.

show 802.11 {a | b | h} cleanair device ap *cisco_ap*

Syntax Description	a	Specifies the 802.11a network.
	b	Specifies the 802.11b/g network.
	h	Specifies the 802.11h network.
	<i>cisco_ap</i>	Specified access point name.
Command Default	None	
Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the device access point for the 802.11a network:

```
(Cisco Controller) > show 802.11a cleanair device ap AP_3500
DC = Duty Cycle (%)
ISI = Interference Severity Index (1-Low Interference, 100-High
Interference)
RSSI = Received Signal Strength Index (dBm)
DevID = Device ID
No ClusterID DevID Type AP Name ISI
RSSI DC Channel
--- -----
1 c2:f7:40:00:00:03 0x8001 DECT phone CISCO_AP3500 1 -43 3
149,153,157,161
2 c2:f7:40:00:00:51 0x8002 Radar CISCO_AP3500 1 -81 2
153,157,161,165
3 c2:f7:40:00:00:03 0x8005 Canopy CISCO_AP3500 2 -62 2
153,157,161,165
```

Related Topics

- [config 802.11 cleanair alarm](#), on page 6
- [show 802.11 cleanair](#), on page 11
- [config 802.11 cleanair device](#), on page 4
- [show 802.11 cleanair device type](#), on page 16
- [show 802.11 cleanair air-quality summary](#), on page 13

show 802.11 cleanair device type

show 802.11 cleanair device type

To display the information of all the interferers device type detected by a specific access point on the 802.11 radio band, use the **show 802.11 cleanair device type** command.

show 802.11 { a | b | h } cleanair device type *device_type*

Syntax Description		
a	Specifies the 802.11a network.	
b	Specifies the 802.11b/g network.	
h	Specifies the 802.11h network.	
<i>device_type</i>	<p>Interferer device type for a specified radio band. The device type is one of the following:</p> <ul style="list-style-type: none"> • tdd-tx—Tdd-transmitter device information. • jammer—Jammer device information. • cont-tx—Continuous-transmitter devices information. • dect-like—Dect-like phone devices information. • video—Video devices information. • 802.11-inv—WiFi inverted devices information. • 802.11-nonstd—Nonstandard WiFi devices information. • superag—Superag devices information. • canopy—Canopy devices information. • wimax-mobile—WiMax mobile devices information. • wimax-fixed—WiMax fixed devices information. 	
Command Default	None	
Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the information of all the interferers detected by a specified access point for the 802.11a network:

```
(Cisco Controller) > show 802.11a cleanair device type canopy
DC = Duty Cycle (%)
```

ISI = Interference Severity Index (1-Low Interference, 100-High Interference)
RSSI = Received Signal Strength Index (dBm)
DevID = Device ID

No	ClusterID	DevID	Type	AP Name	ISI
	RSSI	DC	Channel		

1c2:f7:40:00:00:03	0x8005	Canopy 153,157,161,165		CISCO_AP3500	2 -62 2

show advanced 802.11 channel

show advanced 802.11 channel

To display the automatic channel assignment configuration and statistics, use the **show advanced 802.11 channel** command.

show advanced 802.11 {a | b} channel

Syntax Description	a	Specifies the 802.11a network.
	b	Specifies the 802.11b/g network.
Command Default	None	
Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the automatic channel assignment configuration and statistics:

```
(Cisco Controller) > show advanced 802.11a channel
Automatic Channel Assignment
    Channel Assignment Mode..... AUTO
    Channel Update Interval..... 600 seconds [startup]
    Anchor time (Hour of the day)..... 0
    Channel Update Contribution..... SNI.
    Channel Assignment Leader..... 00:1a:6d:dd:1e:40
    Last Run..... 129 seconds ago
    DCA Sensitivity Level: ..... STARTUP (5 dB)
    DCA Minimum Energy Limit..... -95 dBm
Channel Energy Levels
    Minimum..... unknown
    Average..... unknown
    Maximum..... unknown
Channel Dwell Times
    Minimum..... unknown
    Average..... unknown
    Maximum..... unknown
Auto-RF Allowed Channel List..... .
36,40,44,48,52,56,60,64,149,
..... 153,157,161
Auto-RF Unused Channel List..... .
100,104,108,112,116,132,136,
..... 140,165,190,196
DCA Outdoor AP option..... Enabled
```

Related Topics

[config advanced 802.11 channel add](#)

```
config advanced 802.11 channel cleanair-event
config advanced 802.11 channel dca anchor-time
config advanced 802.11 channel dca chan-width-11n
config advanced 802.11 channel dca interval
```

show ap auto-rf

show ap auto-rf

To display the auto-RF settings for a Cisco lightweight access point, use the **show ap auto-rf** command.

show ap auto-rf 802.11{a | b} cisco_ap

Syntax Description	a	Specifies the 802.11a network.
	b	Specifies the 802.11b/g network.
	<i>cisco_ap</i>	Cisco lightweight access point name.
Command Default	None	
Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display auto-RF information for an access point:

```
(Cisco Controller) > show ap auto-rf 802.11a AP1
Number Of Slots..... 2
AP Name..... AP03
MAC Address..... 00:0b:85:01:18:b7
    Radio Type..... RADIO_TYPE_80211a
    Noise Information
        Noise Profile..... PASSED
        Channel 36..... -88 dBm
        Channel 40..... -86 dBm
        Channel 44..... -87 dBm
        Channel 48..... -85 dBm
        Channel 52..... -84 dBm
        Channel 56..... -83 dBm
        Channel 60..... -84 dBm
        Channel 64..... -85 dBm
    Interference Information
        Interference Profile..... PASSED
        Channel 36..... -66 dBm @ 1% busy
        Channel 40..... -128 dBm @ 0% busy
        Channel 44..... -128 dBm @ 0% busy
        Channel 48..... -128 dBm @ 0% busy
        Channel 52..... -128 dBm @ 0% busy
        Channel 56..... -73 dBm @ 1% busy
        Channel 60..... -55 dBm @ 1% busy
        Channel 64..... -69 dBm @ 1% busy
    Rogue Histogram (20/40 ABOVE/40 BELOW)
        Channel 36..... 16/ 0/ 0
        Channel 40..... 28/ 0/ 0
        Channel 44..... 9/ 0/ 0
```

Channel 48.....	9/ 0 / 0
Channel 52.....	3/ 0 / 0
Channel 56.....	4/ 0 / 0
Channel 60.....	7/ 1 / 0
Channel 64.....	2/ 0 / 0
Load Information	
Load Profile.....	PASSED
Receive Utilization.....	0%
Transmit Utilization.....	0%
Channel Utilization.....	1%
Attached Clients.....	1 clients
Coverage Information	
Coverage Profile.....	PASSED
Failed Clients.....	0 clients
Client Signal Strengths	
RSSI -100 dBm.....	0 clients
RSSI -92 dBm.....	0 clients
RSSI -84 dBm.....	0 clients
RSSI -76 dBm.....	0 clients
RSSI -68 dBm.....	0 clients
RSSI -60 dBm.....	0 clients
RSSI -52 dBm.....	0 clients
Client Signal To Noise Ratios	
SNR 0 dBm.....	0 clients
SNR 5 dBm.....	0 clients
SNR 10 dBm.....	0 clients
SNR 15 dBm.....	0 clients
SNR 20 dBm.....	0 clients
SNR 25 dBm.....	0 clients
SNR 30 dBm.....	0 clients
SNR 35 dBm.....	0 clients
SNR 40 dBm.....	0 clients
SNR 45 dBm.....	0 clients
Nearby RADs	
RAD 00:0b:85:01:05:08 slot 0.....	-46 dBm on 10.1.30.170
RAD 00:0b:85:01:12:65 slot 0.....	-24 dBm on 10.1.30.170
Channel Assignment Information	
Current Channel Average Energy.....	-86 dBm
Previous Channel Average Energy.....	-75 dBm
Channel Change Count.....	109
Last Channel Change Time.....	Wed Sep 29 12:53e:34
2004	
Recommended Best Channel.....	44
RF Parameter Recommendations	
Power Level.....	1
RTS/CTS Threshold.....	2347
Fragmentation Threshold.....	2346
Antenna Pattern.....	0

test cleanair show

test cleanair show

To display details of the CleanAir configuration, use the **test cleanair show** command.

```
test cleanair show {aq all | idr {ap cisco_ap | all} | neighbors cisco_ap | summary }
```

Syntax Description	aq all Displays all air quality information. idr Displays the interference devices of the 802.11a/n and 802.11b/g/n radio bands for access points. ap Displays the interference devices of the 802.11a/n and 802.11b/g/n radio bands for an access point. cisco_ap Name of the Cisco access point all Displays the interference devices of the 802.11a/n and 802.11b/g/n radio bands for all access points. neighbors Displays the neighbors of an access point. summary Displays a summary of the CleanAir configuration.				
Command Default	None				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>7.6</td> <td>This command was introduced in a release earlier than Release 7.6.</td></tr> </tbody> </table>	Release	Modification	7.6	This command was introduced in a release earlier than Release 7.6.
Release	Modification				
7.6	This command was introduced in a release earlier than Release 7.6.				

The following example shows how to display a summary of the CleanAir configuration:

```
(Cisco Controller) > test cleanair show summary
CleanAir system info:
Supported spectrum MMAP number = 500
Supported spectrum LMAP number = 500
Allocated SI entries      = 0 of 500
Allocated IDR cluster entries = 0 of 10000
Allocated IDR device entries = 0 of 40000
Virtual device support is enabled
```

The following example shows how to display the interference devices for an access point:

```
(Cisco Controller) > test cleanair show idr ap AP_1240_floor1
Interference devices for AP_1240_floor1
Identified devices on slot 0
Identified devices on slot 1
```