

Configuring and Validating Radio Channel and Bandwidth

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Configure Operating Channel from CLI



Note From Cisco UIW Release 17.15.1, the Cisco Catalyst IW9167E, IW9165D, and IW9165E AP supports 4.9 GHz frequency band in URWB mode for -Q domain (Japan).

When operating at 4.9 GHz frequency band, the device supports only 20 MHz channel bandwidth.

The -Q domain supports 802.11ax rates.

Table 1: Supported channels and frequencies for the 4.9 GHz band

Channel	Frequency (MHz)
184	4920
188	4940
192	4960
196	4980

To configure the operating channel, use these commands given here:

Procedure

```
Step 1 Configure the wireless device with radio interface number < 1 or 2 >.
    Device# configure dot11Radio <interface>
Step 2 Set the operating channel id.
    Device# configure dot11Radio [1|2] channel <1 to 256>
Step 3 Returns to privileged EXEC mode.
    Device (configure dot11Radio [1|2] channel <1 to 256>)# end
```

Configure Channel Bandwidth from CLI

- Configure the wireless device with radio interface number <1 or 2>.
 Device# configure dot11Radio <interface>
- **2.** Set channel bandwidth in MHz.
 - Radio 1 supports 20, 40, and 80 MHz bandwidths.
 - Radio 2 supports 20, 40, 80, and 160 MHz bandwidths.

Device# configure dot11Radio [1|2] band-width [20|40|80|160]

3. Returns to privileged EXEC mode.

Device (configure dot11Radio [1|2] band-width [20|40|80|160])# end

Validating Operating Channel and Bandwidth from CLI

To validate radio channel and bandwidth, use the following show command:

Device# show dot11Radio <interface> config

Example:

```
Device# show dot11Radio 1 config
Interface : enabled
Mode : fluidmax secondary
Frequency : 5180 MHz
Channel : 36
Channel width : 40 MHz
Device# show dot11Radio 2 config
Interface : enabled
```

Mode : fluidity Frequency : 5785 MHz Channel : 157 Channel width : 40 MHz

Configuring Radio Channel and Bandwidth from GUI

To configure Radio channel and bandwidth using GUI, set the operating channel ID, Radio mode as Fluidity or fixed infrastructure and set the Radio frequency range and bandwidth.

Following image shows the configuration of Radio channel and bandwidth:

ULTRA RELIABLE WIRELESS BACKHAUL			67EH Configurator BH POINT MODE
IOTOD IW Offline	WIRELESS RADIO		
IW-MONITOR Disabled		Wireless \$	Settings
GENERAL SETTINGS - general mode	"Shared Passphrase" is an alphanu S[dollar] =[equal] \[backslash] and w the same for all the Cisco URWB ur	hitespace (e.g. "myse	I characters excluding '[apex] '[double apex] '[backlick] ccurecamnet') that indentifies your network. It MUST be ame network.
- wireless radio	Shared Passphrase:	CiscoURWB	
- antenna alignment and stats NETWORK CONTROL	In order to establish a wireless conr frequency.	nection between Cisco	URWB units, they need to be operating on the same
- advanced tools		Radio 1 S	Settings
ADVANCED SETTINGS		(m	
- advanced radio settings	Role:	Fixed	
- static routes	Frequency (MHz):	5260	
- allowlist / blocklist			
- snmp	Channel Width (MHz):	20	
- radius		Radio 2 S	Sottinge
- ntp		Radio 2 G	bettings
- ethernet filter	Role:	Fixed	
- I2tp configuration - vlan settings	F	5400	
- Fluidity	Frequency (MHz):	5180	
- misc settings	Channel Width (MHz):	80	
MANAGEMENT SETTINGS			
- remote access			
- firmware upgrade		Reset	Save
- status)	
- configuration settings			
- reset factory default			
- reboot			
- logout			

Following image shows the status of Radio channel and bandwidth configuration and specific information of each wireless interface.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator 5.21.201.88 - MESH POINT MODE
UNRELESS BACCHAUL	Operating Mode: Mesh Point Uptime: 4 opt (22,1%):hmm) Finance version: 8.5.1.0 Device SertTMOS IP: 10.15.1.118 Notaxi: 20:30.35.0.1 Markat: 20:30.35.0.1 Markat: 20:30.35.0.1 Status: 20:30.35.0.1 Device SertTMOS Device SertTMOS Device SertTMOS Deploy: 10:00 Multis Deploy: 10:00 Multis Operating region: 8 Red 1 Interface: enabled Mode: 20:30.11 Operating region: 8 Red 1 Interface: enabled Machine Vittl: 20 Multis Charling Witth: 20 Multis Charling Witth: 20 Multis Charling Witth: 20 Multis Charling Red 0 Machine: 16:1 Marker: 20 Multis Charling Red 0 Machine: 16:1 Marker: 20:1 Machine: 16:1 Machine: 16
	DIAGNOSTIC TOOL

Configuring VLAN Settings

Default VLAN configuration parameters for the access point are:

Parameter	Default value
Management VLAN ID (MVID)	1
Native VLAN ID (NVID)	1

To connect the access point to a VLAN that is part of the local wireless network, follow these steps:

Procedure

Step 1 In the ADVANCED SETTINGS, click vlan settings.

The VLAN SETTINGS window appears.

VLAN SETTINGS

When the Native VLAN is enabled (VID != 0), untagged packets received on the trunk port will be assigned to
the specified VLAN ID. When disabled (VID = 0), VLAN trunking will operate according to the IEEE 802.1Q
standard, i.e. only tagged packets will be allowed on the port (including those of the management VLAN).

v	/LAN Settings
Enable VLANs:	
Management VLAN ID: 1	\$
Native VLAN ID: 1	\Diamond
Reset	Save

- **Step 2** Check the **Enable VLANs** checkbox to connect the access point to a VLAN that is part of the local wireless network.
- **Step 3** Enter the management identification number of the VLAN in the **Management VLAN ID** field. For detailed info about vlan settings and packet management, see Rules for Packet Management.

Note The same **Management VLAN ID** must be used on all the access points that are part of the same mesh network.

- Step 4 Enter the native identification number of the VLAN in the Native VLAN ID field.
- Step 5 Click Save.

L

Rules for Packet Management

Traffic Management

The incoming data packets are classified based on the following parameter values:

Access port rules management for incoming packe	ets with an access point in smart mode
Untagged packet	If native VLAN is ON, then the packet is allowed (tagged with NVID)
	If native VLAN is OFF, then the packet is dropped
Tagged packet (any VID without any check)	Packet allowed with original tag

Access port rules management for outgoing packets with an access point in smart mode

Packets from the access points (for example: IoT OD IW interface)	Packet tagged with MVID
Signaling traffic	Packet tagged with MVID
Tagged with valid VID (1–4094), but not with NVID	Packet allowed (tagged)
Tagged with null VID (0) or NVID	Packet allowed (untagged)



Note The packets transmitted through the Cisco VIC SFP+ interface is always tagged with a VLAN header. The interface transmits outgoing packets are classified as untagged with an IEEE 802.1p header with a VLAN ID tag of 0.

Configuring Fluidity using GUI

To configure a Fluidity mode using GUI, follow these scenarios:

- In the GENERAL SETTINGS, click wireless radio. The WIRELESS RADIO window appears.
- 2. Choose Radio mode as Fluidity from the Role drop-down list.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE
IOTOD IW Offline	WIRELESS RADIO
FM-QUADRO	Wireless Settings
GENERAL SETTINGS - general mode	"Shared Passphrase" is an alphanumeric string or special characters excluding "(apex) "(double apex)" (backtic \$(dollar) = (equal) (backtlash) and whitespace (e.g. "mysecurecamnet") that indentifies your network. It MUST the same for all the Cisco URWB units belonging to the same network.
- wireless radio	Shared Passphrase: PASSWORD
 antenna alignment and stats NETWORK CONTROL 	In order to establish a wireless connection between Cisco URWB units, they need to be operating on the same frequency.
- advanced tools	Radio 1 Settings
ADVANCED SETTINGS - advanced radio settings	Role: Fluidity V
- static routes	
- allowlist / blocklist	Frequency (MHz): 5180 V
- multicast	Channel Width (MHz): 80 V
- snmp	
- radius	Radio 2 Settings
- ntp	Role: Disabled
- I2tp configuration	
- vlan settings	
- Fluidity	Reset Save
- misc settings	
- smart license	
MANAGEMENT SETTINGS	
- remote access	
- firmware upgrade - status	
- status - configuration settings	
- configuration settings - reset factory default	
- reboot	
- logout	
logour	

Once you choose Radio role as Fluidity, go to Fluidity settings. To go to Fluidity, follow these steps:

1. In the ADVACED SETTINGS, click Fluidity.

The FLUIDITY window appears.

- 2. In the Fluidity Settings, choose Unit Role from the drop-down list. Make device role as any one of following mode:
 - Infrastructure
 - Infrastructure (wireless relay)
 - Vehicle



- Note
- Vehicle ID must be unique among all the mobile devices installed on the same vehicle.
- If the device installed on different vehicles must use different Vehicles IDs'.
- 3. Check the Automatic Vehicle ID check box to automatically set Vehicle ID for mobile units.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE	
OTOD IW Offline	FLUIDITY	
FM-QUADRO	Fluidity Settings	
General Settings - general mode - wireless radio - antenna alignment and stats NETWORK CONTROL - advanced tools DoyAwcED SETTINGS	The unit can operate in its franches: Interactions, franches represents relativity. Vehicida: The unit must be ori as infrantistructure vehicus her i actids as the early sport of the miscance interactions for the mobile weble and its connected to a wired network (backboone) which possibly includes other infrastructure nodes. The infrastructure vehicus entry (ONX) when it is used as a wiredens relative part of the mobile infrastructure vehicus entry (ONX) when it is used as a wiredens relative part of the infrastructure vehicus entry (ONX) when it is used as a wiredens relative part of the infrastructure vehicus entry (ONX) when the units can observe the address that used as a vehicle when its mobile, vehicus do must be as (ONX) when the units configured Vehicle. Specifically, vehicle ID must be a unique among all the mobile units installed on the same vehicle, installed on different vehicle must use different Vehicle ID. As the first entry of the same vehicle. The infrastructure methods taking to a single same gave, broadcast domain. Use Multiple Submits if they are organized as different leyering comparing domains.	nit ie as as
- advanced radio settings	Unit Role: Vehicle	
- static routes	Automatic Vehicle ID: Enable	
- allowlist / blocklist - multicast	<u> </u>	
- snmp	Vehicle ID: 1234	
- radius	Network Type: Flat V	
- ntp	The following advanced settings allow to fine-tune the performance of the system depending on the specific environment. Please do not alter this settings unless you have read the manual first and you know what you	are
 I2tp configuration vlan settings 	doing. The Handoff Logic controls the abovithm used by a mobile radio to select the best infrastructure point to cou	nect
- Fluidity	to. In Normal mode, the point providing the strongest signal is selected. In Load Balancing mode, the robit radio prefers the point which provides the best balance between signal strength and amount of traffic carrier	1
- misc settings	Handoff Logic: Standard V	
- smart license	rionodi Logio. Statuaru *	
MANAGEMENT SETTINGS		
- remote access	Reset Save	
- firmware upgrade - status		
- configuration settings		
- reset factory default		
- reboot		
- logout		
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ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator	
ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE	
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Following Fluidity configuration shows wireless interface device role configured as infrastructure mode:

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE
IOTOD IW Offline	WIRELESS RADIO
FM-QUADRO	Wireless Settings
	"Shared Passphrase" is an alphanumeric string or special characters excluding "(apex) "(double apex) '(backtio
GENERAL SETTINGS	\$[dollar] =[equal] \[backslash] and whitespace (e.g. "mysecurecamnet") that indentifies your network. It MUST the same for all the Cisco URWB units belonging to the same network.
- general mode	the same for all the CISCO URWIS units belonging to the same network.
- wireless radio	Shared Passphrase: PASSWORD
- antenna alignment and stats	
NETWORK CONTROL	In order to establish a wireless connection between Cisco URWB units, they need to be operating on the same frequency,
- advanced tools	Radio 1 Settings
ADVANCED SETTINGS	Radio 1 Settings
- advanced radio settings	Role: Fluidity V
- static routes	
- allowlist / blocklist	Frequency (MHz): 5180 V
- multicast	Channel Width (MHz): 80 ×
- snmp	Channel Width (MHz): 80 V
- radius	Radio 2 Settings
- ntp	
- I2tp configuration	Role: Disabled V
- vlan settings	
- Fluidity	
- misc settings	Reset Save
- smart license	
MANAGEMENT SETTINGS	
- remote access	
- firmware upgrade	
- status	
- configuration settings	
- reset factory default	
- reboot	
- logout	
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ULTRA RELIABLE	© 2022 Cisco andior its attiliates. All rights reserved. Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE
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The following image shows, both radios must be configured as Fluidity for role Vehicle. if one wireless interface is configured in fixed mode and the other one is configured in Fluidity mode then unit role Vehicle cannot be selected.

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Configuring Fluidity using CLI

To enable Fluidity, use the following CLI commands:



Note

At least one radio interface should be in Fluidity mode.

Device# configure dot11Radio <interface> mode fluidity

Example to enable Fluidity for radio 1:

configure dot11Radio 1 mode fluidity

If the desired Fluidity role is Vehicle both radios should be in Fluidity mode:

```
configure dot11Radio 1 mode fluidity
configure dot11Radio 2 mode fluidity
```

Configuring Fluidity Role using CLI

To configure Fluidity role (infra or client), use the following CLI commands:

1. Configure the Fluidity role (infrastructure or mobile).

Device# configure fluidity id

2. Configure Fluidity id mode.

```
Device# configure fluidity id {mode}
Mode is one of the following values
vehicle-auto - vehicle mode with automatic vehicle ID selection
vehicle ID - (alphanumeric) vehicle mode with manual ID.
infrastructure - infrastructure mode
wireless-relay - wireless infrastructure with no ethernet connection to the backhaul
```

3. To end this configuration, use the following CLI command:

Device (configure fluidity id {mode}) # end

Device# wr

Example:

```
Device# configure fluidity id [vehicle-auto | infrastructure | vehicle-id |
wireless-relay]
```

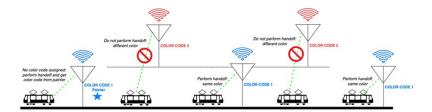
Configuring Fluidity Coloring

Fluidity Coloring is introduced from UIW Release 17.12.1. It enables wayside or outside devices (Fluidity infrastructure devices) to be given specific color codes to enhance or drive the handoff process, and with the standard configuration handoff decision is made based on received signal strength indication (RSSI).

Typical use case: When a train is travelling on one side of the track in one direction (metro line with single tunnel for both track directions) and does not need to connect to the access point located on the opposite side of the tunnel, so mark the access point on each side with a different color to prevent occasional handovers to infrastructure devices on the opposite track.

Fluidity Coloring Logic

The following image explains the Fluidity coloring logic and painter is a key role for wayside or outside device (Fluidity infrastructure device):



The process of Fluidity coloring as follows:

- Based on the color code, painter notifies the Fluidity vehicle device which Fluidity infrastructure devices are suitable for the handoff.
- The Fluidity vehicle device ignores the color settings and continues to use the standard handoff mechanism (based on RSSI level) until it detects a painter.
- Once the Fluidity vehicle device completes the handoff on a Fluidity infrastructure device with the painter configuration, it starts considering only Fluidity infrastructure devices with the same color code or other painters Fluidity infrastructure devices.
- Multiple Fluidity infrastructure devices acting as painters are allowed.

The following table explains the Fluidity color role and its corresponding options:

Table 2: Fluidity Coloring Role

Fluidity Coloring Role	Options
Wayside painter (Fluidity infrastructure device)	Only one color code can be assigned to a Fluidity infrastructure device configured as a painter
Wayside standard (Fluidity infrastructure device)	A non-painter Fluidity infrastructure device can be configured with multiple color codes
Fluidity vehicle	Only one color can be assigned to Fluidity vehicle device

Configuring Fluidity Coloring using CLI

To configure a Fluidity color mode, use the following CLI commands:

```
Device# configure fluidity color mode
Disabled: disable coloring
Enabled: enable coloring
```

```
Device# configure fluidity color value
WORD quoted list of colors from 1 to 7 or "p X" for painter (for example: "1 2 6","4", "p
1"). "clear" to reset
```

Example (painter):

```
Device# configure fluidity color mode enabled
Device# configure fluidity color value "p 1"
Device# write
Device# reload
```

Example (non-painter):

Device# configure fluidity color mode enabled Device# configure fluidity color value "3 4 5" Device# write Devie# reload

Example (clear):

Device# configure fluidity color value clear Device# write Device# reload

Verifying Fluidity Coloring using CLI

To verify a Fluidity color mode, use the following show commands:

Device# #show fluidity config

Example (painter):

Device# show fluidity config ... Color: enabled, current: p 1 ...

Example (non-painter):

Device# show fluidity config

... Color: enabled, current: 3 4 5 ...

Example (clear):

Device# show fluidity config

Color: enabled, current: 0 ...

Configuring Fluidity Coloring RSSI Threshold

. . .

The Fluidity vehicle device temporarily ignore the Fluidity coloring settings if there is a coverage hole and the current RSSI is less than the configured RSSI threshold. In this case, the Fluidity vehicle device retain it's Fluidity coloring settings and ignores them until it receives a handoff from a Fluidity infrastructure device that has the current color code. The Fluidity vehicle device resets its Fluidity coloring settings to the default value (no color) after four consecutive handoffs on a Fluidity infrastructure device with color codes differs from the present value.

Configuring Fluidity Coloring RSSI Threshold using CLI

```
Device# configure fluidity color rssi-threshold
<0-96> COLOR_RSSI_THRESHOLD
```

Example:

```
Device# configure fluidity color rssi-threshold 55
Device# write
Device# reload
```

Verifying Fluidity Coloring RSSI Threshold using CLI

Device# show fluidity config

Example:

Device# show fluidity config ...

Color: enabled, current: 0 Color min RSSI threshold: 55