

# **Configuring Cisco URWB Radio Mode**

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## **Configuring Cisco URWB Radio Mode**

Each wireless interface can be configured to operate in a specific mode or disabled. Mode on Radio can be configured on the device will operate as a Fluidity or fixed infrastructure unit as specified by the parameter.

The following table shows the configuration of Radio mode on the device.

#### Table 1: Radio Mode Configuration

Radio Role	Mode on Radio*	Description
Fixed Infrastructure	fixed Fluidmax primary Fluidmax secondary	P2P mode (point to point) P2MP (point to multipoint) mode (Fluidmax), P2MP, Master P2MP mode (Fluidmax), P2MP
Mobility AP	Fluidity	Mobility Mode

Radio Role	Mode on Radio*	Description
Mobility Client	Fluidity	Mobility Mode

Following table shows the Fluidity status and it is derived from operating mode of enabled radio interfaces.

#### Table 2: Operating Mode of Radio Interface

Radio 1 / Radio 2	Fixed Infrastructure	Fluidity
Fixed Infrastructure	Fluidity disabled	Fluidity enabled
Fluidity	Fluidity enabled	Fluidity enabled

Multiple and Dual radio interfaces can be used according to the following table.

Radio 1 / Radio 2	Fixed Infrastructure / Mesh	Mobility AP	Mobility client
Fixed Infrastructure / Mesh	ME/MP relay, P2MP (mesh)	Yes, trailer use case (Mining trailer)	Supported but no specific use case
Mobility AP	Yes, trailer use case (Mining trailer)	Standard Fluidity (multiple clients on each radio)	Not supported, use V2V or Fixed + AP
Mobility client	Supported but no specific use case	Not supported, use V2V or Fixed + AP	Standard Fluidity (multiple clients on each radio)

## **Configuring Radio-off Mode from CLI**

To configure Radio-off mode when both radios (Fluidity and fixed) are disabled use the following CLI commands and procedure. If radio-off is specified, all the wireless interfaces will be disabled.

1. Set the device's current operating mode. Mode could be mesh end, mesh point or global gateway (L3)

Device# configure modeconfig mode {meshpoint | meshend | gateway}

2. Set the device's selected MPLS (Multi-Protocol Label Switching) OSI layer. Possible value of layer is 2 (OSI Layer-2) or 3 (OSI Layer-3).

Device# configure modeconfig mode {meshpoint | meshend | gateway}[layer {2|3}]

3. Specify radio-off mode.

```
Device# configure modeconfig mode { meshpoint | meshend | gateway } [layer {2|3}] [
radio-off {fluidity | fixed}]
```

**4.** End of configuration.

```
Device# (configure modeconfig mode { meshpoint | meshend | gateway } [layer {2|3}] [
radio-off {fluidity | fixed}])# end
```

Device# wr

Example:

Configure modeconfig mode meshend radio-off fluidity Configure modeconfig mode meshend radio-off fixed

## **Configuring Fluidity Role from CLI**

To configure Fluidity role (infra or client) use the following Fluidity CLI commands and procedure.

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

Device# configure fluidity id

2. Configure Fluidity id mode

```
Device# configure fluidity id {mode}
Mode will be 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.** End of configuration .

Device (configure fluidity id {mode}) # end

Device# wr

Example:

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

#### Configuring Radio Mode for Cisco URWB from CLI

To configure Radio mode for Cisco URWB, use the following CLI commands and procedure.

The below CLI commands used to select the operating function of the wireless interface also mixed Fluidity and fixed infrastructure combinations for different interfaces are allowed.

1. Configure the wireless with radio interface number <1 or 2>.

Device# configure dot11Radio <interface>

2. Configure an operating mode for the specified interface.

Device# configure dot11Radio <interface>mode {fixed|fluidity|fluidmax}

Fluidity - This interface will operate in Fluidity mode, either as a mobility infrastructure or a vehice unit.

Fixed - This interface will operated in fixed infrastructure mode (no Fluidity).

Fluidmax - This interface will operate in Fluidmax P2MP mode. Additional parameters can be specified to configure the Fluidmax operating features (e.g., Primary/Secondary role, cluster ID).

3. Set fluidmax role for Fluidmax interface mode.

Device# configure dot11Radio <interface>mode {fixed|fluidity|fluidmax} {primary |
secondary}

Primary - set Fluidmax role to primary

Secondary - set Fluidmax role to secondary

4. End of configuration.

```
Device (configure dot11Radio <interface>mode{fixed|fluidity|fluidmax}) # end
Device# wr
```

**Note** When at least one interface is set to Fluidity mode, the unit will globally operate in Fluidity mode. If all interfaces are set to fixed, Fluidity will be disabled.

## **Configuring AMPDU from CLI**

To configure an ampdu (Aggregated MAC Protocol Data Unit) length and priority, use the following CLI commands.

Device# configure dot11radio <interface> ampdu length <length>

length: <0-255> integer number – microseconds.

Device# configure dotllradio <interface> ampdu priority {enable | disable}

enable: enable ampdu tx priority.

disable: disble ampdu tx priority.

Device# configure dot11radio <interface> ampdu priority [enable]

0: ampdu tx priority for index 0.

- 1: ampdu tx priority for index 1.
- 2: ampdu tx priority for index 2.
- 3: ampdu tx priority for index 3.
- 4: ampdu tx priority for index 4.
- 5: ampdu tx priority for index 5.
- 6: ampdu tx priority for index 6.
- 7: ampdu tx priority for index 7.

all all

## **Configuring Frequency from CLI**

To configure an operating frequency, use the following CLI commands.

Device# configure dotl1radio <interface> frequency <frequency>

frequency: <0-7125> Operating frequency in MHz.

### Configuring Maximum MCS Index from CLI

To configure maximum MCS (modulation coding scheme) index, use the following CLI commands:

Set maximum MCS index in integer or string "AUTO". For "AUTO", the background process will automatically configure the maxmcs.

Device# configure dot11radio <interface> mcs <maxmcs>

maxmcs values:

< 0-11 > Maximum mcs index 0 - 11.

WORD AUTO.



```
Note
```

The maximum MCS can be set between 0 to 9 if High Efficiency mode is disbled and maximum MCS can be set as 10 and 11 if High Efficiency mode is enabled.

## Configuring Maximum NSS (Number of Spatial Streams) Index from CLI

To configure maximum NSS (Number of Spatial Streams) index, use the following CLI commands:

Set maximum spatial stream number in integer or string "AUTO".

For "AUTO", the background process will automatically configure the maxnss.

Device# configure dotl1radio <interface> spatial-stream <maxnss>

maxnss values:

< 1-4 > Maximum nss number 1 to 4.

WORD AUTO.

## **Configuring Rx-SOP Threshold from CLI**

To configure Rx-SOP (Receiver Start of Packet) threshold, use the following CLI commands. Device# configure dotllradio <interface> rx-sop-threshold <0 - 91> Enter rx-sop- threshold (0: AUTO, VALUE: -VALUE dBi).

## **Configuring RTS Mode from CLI**

To configure RTS (Ready to Send) mode, use the following CLI commands. To disable RTS, use the following CLI command. Device# configure dotllradio <interface> rts <disable> disable: disable rts protection. To enable RTS with threshold value, use the following CLI commands. Device# configure dotllradio <interface> rts enable <threshold> threshold: threshold range <0 - 2346>.

## **Configuring WMM Mode from CLI**

To configure a WMM mode (wireless multimedia), use the following CLI commands. Device# configure dotllradio <interface> wmm [bk|be|vi|vo] [bk|be|vi|vo] represents the class-of-service (CoS) parameters. be: best-effort traffic queue (CS0 and CS3). bk: background traffic queue (CS1 and CS2). vi: video traffic queue (CS4 and CS5). vo: voice traffic queue (CS6 and CS7). To clear wireless stats counters, use the following CLI command. Device# configure dotllRadio <interface> wifistats <clear> clear: clear wireless stats counters.

## **Configuring NTP Enhancement from CLI**

To configure a NTP (Network Time Protocol) server address, use the following CLI command.

Device# configure ntp server <string>

String - IP address or domain name.

Example:

Device# configure ntp server 192.168.216.201

To configure a NTP authentication, use the following CLI command.

Device# configure ntp authentication none Device# configure ntp authentication md5 <password> <keyid> Device# configure ntp authentication shal <password> <keyid>

none - disable NTP authentication md5|sha1 - authentication method.

Example:

Device# #configure ntp authentication md5 test1234 65535

Note Optional, md5 password and keyid should match NTP server's md5 password and keyid.

password must be between 8 and 20 characters.

The following special characters are not allowed: ' [apex] " [double apex] ` [backtick] \$ [dollar] = [equal] \ [backslash] # [number sign] and whitespace

To enable or disable NTP service, use the following CLI command.

Device# configure ntp { enable|disable }

To configure NTP timezone, use the following CLI command.

Device# Configure ntp timezone <string>

Example:

Device# configure ntp timezone Asia/Shanghai

To validate NTP configuration and status, use the following show commands.

```
Device# show ntp config
NTP status: enabled
NTP server: 192.168.216.201
authentication: MD5
password: test123
keyid: 5
timezone: Asia/Shanghai
```

```
Device# #show ntp (Using this command to check if device can sync up time with NTP server)
Stratum Version Last Received Delay Offset Jitter NTP server
1 4 9sec ago 1.840ms -0.845ms 0.124ms 192.168.216.201
```

## **Configuring NTP Enhancement from GUI**

The following image shows the Web UI of NTP enhancement.

CISCO. ULTRA RELIABLE	Cisco URWB IW9167EH Configurator 5.212.77.232 - MESH END MODE
WIRELESS BACKHAUL	NTP time is not synchronized
IOTOD IW Offline	NTP - Network Time Protocol
FM-QUADRO	NTP
GENERAL SETTINGS	Enable NTP: 🗹
- general mode - wireless radio	NTP server hostname: 192.168.216.201
- antenna alignment and stats	NTP authentication: MD5 V
NETWORK CONTROL - advanced tools	NTP password: •••••••
ADVANCED SETTINGS	Select Timezone: Asia/Shanghai
- advanced radio settings - static routes - allowlist / blocklist	WARNING: NTP time is not synchronize
- multicast	Reset
- snmp - radius	Reset
- ntp	

## Validating Radio Mode for Cisco URWB

To validate radio mode, use the following show commands.

Device# show dot11Radio <interface> config

Example:

```
Device# show dotl1Radio 1 config
Interface : enabled
Mode : fluidity
Frequency : 5785 MHz
Channel : 157
Channel width : 40 MHz
```

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

If need to change radio mode of vehicle AP (mobility client) to fixed or fluidmax, need to configure fluidity role as infrastructure by CLI "configure fluidity id infrastructure".

## **Configuring Radio-off Mode from GUI**

To configure a Radio-off mode, choose a fixed or fluidity mode as shown in the below image. Select a mesh end mode if you are installing the Cisco IOT IW9167E Heavy Duty Access Point at the head end and connecting this unit to a wired network such as LAN.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW91 5.21.201.72 - ME	
IOTOD IW Offline	GENERAL MODE	
FM-QUADRO	Genera	I Mode
GENERAL SETTINGS	Select MESH END mode if you are installing this Cisco C end and connecting this unit to a wired network (i.e. LAN	
- general mode		O mesh point
- wireless radio	Mode	mesh end
- antenna alignment and stats	mode.	O gateway
NETWORK CONTROL		O galeway
- advanced tools		
ADVANCED SETTINGS	Radio-off:	Fixed V
<ul> <li>advanced radio settings</li> </ul>	LAN Par	
- static routes	LAN Par	ameters
- allowlist / blocklist - multicast	Local IR:	10.115.11.117
- multicast - snmp	Local IP:	10.115.11.117
- radius	Local Netmask:	255.255.255.0
- ntp		
- 12tp configuration	Default Gateway:	10.115.11.1
- vlan settings	Local Dns 1:	0000
- Fluidity	Local Dris 1.	0.0.0.0
- misc settings	Local Dns 2:	
- smart license		
MANAGEMENT SETTINGS		
- remote access	Reset	Save
- firmware upgrade		
- status		
- configuration settings		
- reset factory default		
- reboot		
- logout		
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## **Configuring Radio Mode from GUI**

To configure a radio mode from GUI, use the following procedures.

1. To establish a wireless connection the operating frequency should be same between Cisco URWB units. To configure a Radio mode from GUI, set the operating mode for specified radio (Radio1 and Radio2) interface as below diagram.

ULTRA RELIABLE WIRELESS BACKHAU	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE
OTOD IW OF	WIRELESS RADIO
-M-QUADRO	Wireless Settings
GENERAL SETTINGS	"Shared Peapshrate" is an abherunments string or special characters excluding "(special "disorble aport) "(backtick) §Solidu - Jequal (Backtick) and writespecial or (a), "mysocurrentment") that indentifies your network. It MUST be the same for all the Cisco URVB units belonging to the same network.
wireless radio	Shared Passphrase: PASSWORD
entenna alignment and setwork CONTROL	tats 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 radio settings	Role: Fixed V
static routes	
allowlist / blocklist	Frequency (MHz): 5180 V
multicast	Channel Width (MHz): 80 V
snmp	
radius	Radio 2 Settings
ntp	Role: Disabled
12tp configuration	Note. Disabled
vlan settings	
Fluidity	Reset Save
misc settings	
smart license	
IANAGEMENT SETTINGS	
remote access	
firmware upgrade status	
configuration settings	
reset factory default	
reboot	

2. Set Radio 1 operating mode(role) as a Fluidmax Primary with FluidMAX Cluster ID. In this case the frequency selection on the Primary will be enabled and Secondary will be disabled. Select the maximum power level (power level 1 sets the highest transmit power) and Cisco URWB transmission power control (TPC) will automatically select the optimum transmission power.



Note In Europe TPC is automatically enabled.

**3.** Set Radio 1 operating mode(role) as a Fluidmax Secondary with FluidMAX Cluster ID. If the FluidMAX Autoscan is enabled, the secondary units will scan the frequencies to associate with the Primary with the same Cluster ID. In this case the frequency selection on the Secondary will be disabled. Select the maximum power level (power level 1 sets the highest transmit power) and Cisco URWB transmission power control (TPC) will automatically select the optimum transmission power.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE
IOTOD IW Offline	ADVANCED RADIO SETTINGS
FM-QUADRO	Radio 1
GENERAL SETTINGS	FluidMAX Management
- general mode - wireless radio - antenna alignment and stats	Force the FluidMX operating mode of this unit. If the operating mode is PrimaryBacondary a FluidMX Cluster ID can be set if the FluidMX Autoscian its enables, the Secondary units will scan the frequencies to associate with the Primary with the same Cluster ID. In this case, the frequency selection on the Secondarys will be diabled.
NETWORK CONTROL  - advanced tools	Radio Mode: SECONDARY
ADVANCED SETTINGS - advanced radio settings	FluidMAX Cluster ID: CiscoURWB
- static routes - allowlist / blocklist	FluidMAX Autoscan: 🗹
- multicast	Max TX Power
- snmp - radius - ntp	Select the max power level that the radio shall use to transmit (power level 1 sets the highest transmit power). The Cisco URWB TPC (Transmit Power Centrol) will automatically select the optimum transmission power according to the channel condition while not exceeding the MAX TX Power parameter. Note: In Europe TPC is automatically enabled.
- I2tp configuration - vlan settings	Select TX Max Power: 1 V
- Fluidity	Antenna Configuration
- misc settings - smart license	Select radio 1 antenna gain and antenna number.
MANAGEMENT SETTINGS - remote access	Select Antenna Gain: UNSELECTED V
- firmware upgrade - status	Antenna number: ab-antenna V
- configuration settings - reset factory default	Data Packet Encryption
- reboot	Enable AES to cypher all wireless traffic. This setting must be the same on all the Cisco URWB units.
- logout	Enable AES: Disabled
	Maximum link length
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Note In Europe TPC is automatically enabled.

4. Choose unit role as Infrastructure when it acts as the entry point of the infrastructure for the mobile vehicles or choose unit role as Infrastructure (wireless relay) only when it used as a wireless relay agent to other infrastructure unit or choose unit role as a Vehicle when it is mobile. Choose network type set according to the general network architecture and choose flat mode if the network belongs single layer-2 broadcast domain or choose multiple subnets if the network belongs single layer-3 broadcast domain.

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	"Shared Passphrase" is an alphanumeric string or special characters excluding "(apex) "(double apex) "(backlick) S(dollar) ("equal) (backslash) and whitespace (e.g., "mysecurecannet") that indentifies your network. It MUST be the same for all the Cisco UKWB units belonging to the same network.
- general mode	the same tot all the CISCO ORVED units belonging to the same network.
- wireless radio	Shared Passphrase: PASSWORD
- antenna alignment and stats	In order to establish a wireless connection between Cisco URWB units, they need to be operating on the same
NETWORK CONTROL	frequency.
- advanced tools ADVANCED SETTINGS	Radio 1 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
<ul> <li>I2tp configuration</li> <li>vlan settings</li> </ul>	
- vian settings - Fluidity	
- misc settings	Reset Save
- smart license	
MANAGEMENT SETTINGS	
- remote access	
- firmware upgrade	
- status	
<ul> <li>configuration settings</li> </ul>	
- reset factory default	
- reboot	
- logout	$\oplus$ 2022 Cisco and/or its attillates. All rights reserved.
- logout	Cisco URWB IW9167EH Configurator
ahaha	
	Cisco URWB IW9167EH Configurator
UITA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE
ULTRA RELABLE WRELESS BACKHAUL NOTOD IW FM-QUADRO	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE FLUIDITY Fluidity Settings
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE FLUIDITY Fluidity Settings
ILITA RELABLE ULTA RELABLE WRELESS BACOMAUL TOTOD IN FM-QUADRO GENERAL SETTINGS general mode	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE  FLUIDITY  Fluidity Settings The unit can operate in 3 modes: Infrastructure, Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure, Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure, Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure, Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure, Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure, Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless relay.) Vehicle. The unit can operate in 3 modes: Infrastructure (vireless r
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Iliniii     CISCO     UUTA RELABLE     WRELESS BACHAUL      WRELESS BACHAUL      OTOD IW     Offine     FM-QUADRO      SENERAL SETTINOS     general mode     wireless ratio     antenna alignment and stats     erwork control.     advanced tools	CLUCTORY BURGETED CONFIGURATION C.1.2.0.1.2.2.4.MESH END MODE FLUIDTS MINING AND
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