

Configuring and Validating Radio Channel and Bandwidth

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Configuring Operating Channel from CLI

To configure operating channel, use the following CLI command.

- Configure the wireless device with radio interface number < 1 or 2 > Device# configure dot11Radio <interface>
- 2. Set the operating channel id between 1 to 256.

Device# configure dot11Radio <interface> channel <channel id>

3. End of configuration mode.

Device (configure dot11Radio <interface> channel <channel id>) # end

Example:

```
Device# configure dot11Radio [1|2] channel <1 to 256>
```

Configuring Channel Bandwidth from CLI

To configure channel bandwidth, use the following CLI commands and procedure.

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

Device# configure dot11Radio <interface>

 Set channel bandwidth in MHz and currently supported bandwidth values are 20, 40, 80, 160 MHz. Radio 1 supports 20, 40 and 80 MHz bandwidths (example: configure dot11Radio 1 band-width). Radio 2 supports 20, 40, 80, and 160 MHz bandwidths (example: configure dot11Radio 2 band-width). Device# configure dot11Radio <interface> band-width [20|40|80|160]

3. End of configuration mode.

Device (configure dot11Radio <interface> band-width [20|40|80|160])# end Example: Device# configure dot11Radio [1|2] band-width [20|40|80|160]

Validating Operating Channel and Bandwidth from CLI

To validate radio channel and bandwidth, use the following show commands.

Device# show dot11Radio <interface> config

Example:

```
Device# show dotl1Radio 1 config
Interface : enabled
Mode : fluidmax secondary
Frequency : 5180 MHz
Channel : 36
Channel width : 40 MHz
```

Device# show dotl1Radio 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 from GUI, set operating channel ID, radio mode as Fluidity or fixed infrastructure and set radio frequency range and bandwidth (supported bandwidth values are 20, 40, 80, 160 MHz) in MHz.

The below images show the configuration of radio channel and bandwidth.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco 5.	URWB IW9167EH Configurator 21.201.88 - MESH POINT MODE
IOTOD IW Offline	WIRELESS RADIO	
W-MONITOR Disabled		Wireless Settings
GENERAL SETTINGS - general mode	"Shared Passphrase" is an alphanu §[dollar] =[equal] (backslash) and w the same for all the Cisco URWB ur	meric string or special characters excluding '[apex] "[double apex] ' [backt whitespace (e.g. "mysecurecammet") that indentifies your network. It MUS1 nits belonging to the same network.
- wireless radio	Shared Passphrase:	CiscoURWB
- antenna alignment and stats	In order to establish a wireless conr	pertion between Cisco LIRWB units, they need to be operating on the same
NETWORK CONTROL	frequency.	rection between class or we drinks, they need to be operating on the same
- advanced tools		Radio 1 Settings
ADVANCED SETTINGS	Data	Fixed
advanced radio settings	Role:	Fixed
static routes	Frequency (MHz):	5260
allowlist / blocklist		
- snmp	Channel Width (MHz):	20
- radius		Padio 2 Sottings
- ntp		Radio 2 Settings
- ethernet filter	Role:	Fixed
- I2tp configuration		
- vlan settings	Frequency (MHz):	5180
- Fluidity	Channel Width (MHz):	80
- misc settings	channel Widdi (initz).	00
MANAGEMENT SETTINGS		
firmware upgrade		Reset Save
etatue		
configuration settings		
reset factory default		
reboot		
logout		

The below image shows the status of radio channel and bandwidth configuration and specific information of each wireless interface.

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CISCO.	Cisco URWB IW9167EH Configurator
ULTRA RELIABLE	5.21.201.88 - MESH POINT MODE
WIRELESS BACKHAUL	
	AND ALL TY LOVER ADD A
	Operating Mode: Mesh Point
IOTOD IW Offline	Uptime: 4 days, 16:23 (hh:mm)
	Firmware version: 8.8.1.10
	DEVICE SETTINGS
	IP: 10 115 11 118
GENERAL SETTINGS	Netmask: 255.255.255.0
- general mode	MAC address: 40:36:5a:15:c9:58
- wireless radio	Configured MTU: 1530
- antenna alignment and stats	WIREDO
NETWORK CONTROL	Speed: 1000 Mb/s
- advanced tools	Duplex: full
- auvanceu toviš	MTU: 1530
ADVANCED SETTINGS	WIRED1
 advanced radio settings 	Status: down
- static routes	WIRELESS SETTINGS
- allowlist / blocklist	Passphrase: CiscoURWB-118
- somo	Operating region: B
- only	Dadia 4
- radius	Interface: enabled
- ntp	Mode: fixed infrastructure
- ethernet filter	Frequency: 5260 MHz
- I2tp configuration	Channel: 52
- vlan settings	Current ty nower: 25 dBm
- Eluidity	Current tx power level: 1
mine estimate	Antenna gain: not selected
- misc settings	Antenna number: 2
MANAGEMENT SETTINGS	Radio Mode: csma/ca
- remote access	Maximum link length: 3 km
- firmware upgrade	Radio 2
- status	Interface: disabled
- configuration settings	Mode: fixed infrastructure
- configuration octango	Channel: 36
- reset factory default	Channel Width: 80 MHz
- repoot	Current tx power: 19 dBm
- logout	Current tx power level: 1
	Antenna gain: not selected
	Radio Mode: csma/ca
	Maximum link length: 3 km
	DIAGNOSTIC TOOL
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Configuring Fluidity from GUI

To configure a Fluidity mode from GUI, follow the below scenarios. Set the radio role to Fluidity, as shown in the diagram below.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco L 5.2	IRWB IW9167I 21.201.72 - MESH	EH Configurator	
OTOD IW Offline	WIRELESS RADIO			
-M-QUADRO		Wireless Set	tings	
SENERAL SETTINGS	"Shared Passphrase" is an alphanum \$[dollar] =[equal] \[backslash] and whi the same for all the Cisco URWB unit	eric string or special cha tespace (e.g. "mysecur a belonging to the same	aracters excluding '(apex) *(double apex) ecamnet*) that indentifies your network. I network.	'(backtick t MUST b
wireless radio	Shared Passphrase:	PASSWORD		
antenna alignment and stats	In order to establish a wireless conner frequency	tion between Cisco UR	KWB units, they need to be operating on t	the same
advanced tools	in a quanta ju	Radio 1 Sett	lings	
advanced radio settings	Role:	luidity	\checkmark	
allowlist / blocklist	Frequency (MHz):	5180 ~		
multicast	Channel Width (MHz):	30 ×		
radius		Radio 2 Sett	tings	
ntp I2tp configuration	Role:	Disabled	V	
vlan settings Fluidity misc settings		Reset	Save	
ANAGEMENT SETTINGS				
firmware upgrade				
status				
configuration settings				
reset factory default				
logout				

After setting radio role as Fluidity, make unit role as one of following mode that is infrastructure, infrastructure (wireless relay) and Vehicle. Vehicle ID must be a unique among all the mobile units installed on the same Vehicle and if unit installed on different vehicles must use different Vehicles ID's. Vehicle ID set automatically for mobile units if automatic vehicle ID enabled.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE	
OTOD IW Offline	FLUIDITY	
M-QUADRO	Fluidity Settings	
	The unit can operate in 3 modes: Infrastructure, Infrastructure (wireless relay), Vehicle.	
GENERAL SETTINGS	The unit must be set as Infrastructure when it acts as the entry point of the infrastructure for the mobile vehic and it is connected to a wind network (backbone) which possible includes other infrastructure order. The unit	les
general mode	must be set as Infrastructure (wireless relay) ONLY when it is used as a wireless relay agent to other	
wireless radio	Intrastructure units. In this operating mode, the unit MUST NOT be connected to the wired network backbon it will use the wireless connection to relay the data coming form the mobile units.	e as
antenna alignment and stats	The unit must be set as Vehicle when it is mobile. Vehicle ID must be set ONLY when the unit is configured a Vehicle. Specifically, Vehicle ID must be a unique among all the mobile units installed on the same vehicle. U	is Init
NETWORK CONTROL	installed on different vehicles must use different Vehicle IDs. The Network Type filed must be set according to the general network architecture. Choose Flat if the mesh a	nd
	the infrastructure networks belong to a single layer-2 broadcast domain. Use Multiple Subnets if they are	110
advanced settings	organized as different layer-3 routing domains.	
- static routes	Unit Role: Vehicle V	
allowlist / blocklist	Automatic Vehicle ID: Enable	
- multicast	Vehicle ID: 1234	
- snmp		
- radius	Network Type: Flat	
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
· iztp configuration	doing. The Handoff Logic controls the algorithm used by a mobile radio to select the best infractivities point to some	nect
- vian settings	to. In Normal mode, the point providing the strongest signal is selected. In Load Balancing mode, the mobile	
misc settings	racio preters the point which provides the best balance between signal strength and amount of traffic carried	
- smart license	Handoff Logic: Standard	
MANAGEMENT SETTINGS		
- remote access	Peret Save	
- firmware upgrade	Reset	
- status		
- configuration settings		
 reset factory default 		
- reboot		
- logout		
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ULTRA RELIABLE WIRELESS BACKHAUL	© 2022 Cisco and/or its affiliates. All rights reserved. Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE	
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ILITIA RELABLE UITA RELABLE WIRELESS BACKHAUL NOTOD IW FM-QUADRO	6 2022 Claco and/or the affiliates. All rights reserved. Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE FLUIDITY Fluidity Settings	
UITA RELIAILE WIRELESS BACKHAUL INTOD IN CHILD FM-QUADRO	6 2022 Clisco and/or fits affiliates. All rights reserved. Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE FLUIDITY Fluidity Settings The unit can operate in 3 modes: Infrastructure, Infrastructure (index), Webda, The unit can evaluate and the analysis of the providence and the models and the providence and the provide	hicles
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UTTA RELABLE WIRELESS BACKHAUL WIRELESS BACKHAUL OTOD IW FM-QUADRO GENERAL SETTINGS - general mode wireless radio - antenna alignment and stats	6 2222 Clace and/or the affiliates. All rights reserved.	hicles unit xne as d as
UTRA RELARLE UIRELESS BACKHAUL UIRELESS BACKHAUL UIRELESS BACKHAUL UIRELESS BACKHAUL UIRELESS BACKHAUL MIRELESS BACKHAUL EMERALL SETTINGS extrafess radio - wireless radio - wireless radio - wireless radio	e 2022 Clicce andier in adfiliates. All rights reserved.	nicles unit me as d as Unit
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UTRA RELARLE ULTRA RELARLE WRELESS BACKHAUL WRELESS BACKHAUL COTO IW CMMCQUADRO CMMCQUADRO Several settings - wreless radio - antenna alignment and stats - edvanced tools ADVANCED SETTINGS - advanced taols settings	2 222 Clicce and/or in adfiliates. All rights reserved. Clicco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE FLUIDTY FLUIDTY Multiple States and additional additadditadditional additional additional additional additional additi	nicles unit me as d as Unit a and
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LICENCE CONTROL ULTER RELABLE WIRELESS BACKHAUL WIRELESS BACKHAUL WIRELESS BACKHAUL COTOD IW CMINO C	<section-header> 2 222 Class andirist in adfiliates. All rights reserved. Ciasco UCRWB IW9167EH Configurator 5.21.201.72 - MESH END MODE ELUDITY Turul can operate in Amadox infrastructure, infrastructure (wheelses relaty), point of the distructure for the service of the service</section-header>	nicles unit ene as d as Unit a and
UTTAN RELIABLE ULTAN RELIABLE WRELESS BACKHAUL WRELESS BACKHAUL NOTOD IW GMMCD STINUS Seneral node - wreless radio - antenna sligmment and stats - advanced tools - advanced tools - advanced tools settings - static routes - alowinet / blocklist - multicast - mom	e 2222 Clace andier in adfiliates. All rights reserved. Claceco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE FLUIDTY Pluiding Settings Model and Model and Model And Model and Model and Model and Model And Model Model and Model And	nicles unit ane as d as Unit a and
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UTRA RELIANCE ULTRA RELIANCE URELESS BACKHAUL URELESS BACKHAUL URELESS BACKHAUL COMMEN MALENESS MALENESS MALENESS - Wrieless radio - wrieless - wrieles	<section-header></section-header>	hicles unit a and d as Unit a and ic cu are ponnect le
UTTON RELABLE WIRELESS BACKHAUL UTTON RELABLE WIRELESS BACKHAUL OTOD IW CMUESS MACHAUACO OTOD IW CMUESS MACHAUACO OCHEMAL SETTINGS - antenna alignment and stats wireless ratio - antenna alignment and stats - advanced ratio settings - advanced ratio settings - static routes - advanced ratio settings - intip - 12tp configuration - vian settings - Fluidity - wins settings - smart license	<section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	icles unit d as d as Unit a and unit a and ic c u are onnect le ed.
UTCOD IN OTTICE WIRELESS BACKHAUL UTCOD IN OTTICE FM-QUADRO SENERAL SETTINGS - antenna alignment and stats - antenna alignment and stats - advanced tors - advanced tors - advanced tors - advanced settings - advanced settings - advanced settings - advanced settings - advanced settings - intp - fulcity - Fuicity - Fuicity - Fuicity - smart license - ManAGEMENT SETTINGS	<section-header></section-header>	icles unit unit d as Unit a and ic onnect le ed.
UTTAN APELIANCE UTTAN APELIANCE UTTAN APELIANCE UTTAN APELIANCE UTTAN APELIANCE UTTAN APELIANCE UTTAN APELIANCE APELIA SETTINGS - ganeral mode - antenna aligoment and stats - advanced radio settings - advanced radio settings - static routes - advanced radio settings - static routes - advanced radio settings - static routes - alovinet / blocklist - inulicast - ingi - itig configuration - Vian settings - ingis settings	<section-header></section-header>	ic unit and ic units and ic unit
UTTOR NELVADEL UITRA RELVADE WIRELESS BACKHAUL UITRA RELVADE WIRELESS BACKHAUL OTOD IW EM-QUADRO OBMERAL SETTINGS general mode wireless ratio advanced ratio advanced ratio advanced ratio advanced ratio advanced ratio advanced ratio settings static routes advanced ratio advanced ratio advanced ratio advanced ratio settings static routes advanced ratio settings Fluidity misc settings Fluidity misc settings semant license MANAGEMENT SETTINGS remote access remote access remote access remote access remote access	<text><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></text>	hicles unit me as d as Unit u Unit u are onnect le ed.
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UTTAN AFFLINDE URTEALESS BACKHAUL UTTAN AFFLINDE URTEALESS BACKHAUL COTOD IW CMINE MALLANDO COTION MARCHAUSSEN SACKHAUSSEN SAC	<text><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></text>	icles unit unit das Unit a and ic uu are onnect le ed.
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UTTAN RELIABLE UREALESS BACKHAUL UTTAN RELIABLE UREALESS BACKHAUL UTTAN RELIABLE GOMMONIC STINES OPENAL SETTINES - advanced tools - advanced t	<text><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></text>	icles unit unit unit a and ic unit a and ic unit ic unit a and ic unit unit

The below GUI Fluidity configuration shows wireless interface unit 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 Bassebrase" is an alphanumeric string or special characters evoluting "(appl) "(double appl)" (bad
GENERAL SETTINGS	<pre>\$[dollar] =[equal] \[backslash] and whitespace (e.g. "mysecurecamnet") that indentifies your network. It MUS</pre>
- general mode	the same for all the Cisco URWB units belonging to the same network.
- wireless radio	Sharad Pacentraca: PASSWORD
- antenna alignment and stats	Shared Passphilase. PASSWORD
NETWORK CONTROL	In order to establish a wireless connection between Cisco URWB units, they need to be operating on the sa frequency
- advanced tools	Padio 1 Sattinge
ADVANCED SETTINGS	Radio 1 Settings
- advanced radio settings	Role: Fluidity V
- static routes	
- allowlist / blocklist	Frequency (MHz): 5180 V
- multicast	
- snmp	Channel Width (MHz): 80 V
- radius	Radio 2 Settings
- ntp	
- I2to configuration	Role: Disabled V
- vlan settings	
- Fluidity	
- misc settings	Reset Save
- smart license	
MANAGEMENT SETTINGS	
- remote access	
- firmware upgrade	
- etatue	
- configuration settings	
- reset factory default	
- rebot	
- legeut	
logout	
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UTTA RELABLE WIRELESS BACKHAUL	© 2022 Cisco and/or Its affiliates. All rights reserved. Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE FLUIDITY
IIIIIII CISCO UUTA RELARLE WIRELESS BACKHAUL NOTOD IW FM-QUADRO	© 2022 Clico and/or its affiliates. All rights reserved. Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE FLUIDITY Fluidity Settings
UTTAR RELABLE WIRELESS BACKHAUL NOTOD IN Office FM-QUADRO	© 2022 Cloco and/or its affiliates. All rights reserved. Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE FLUIDITY Fluidity Settings The unit can operate in 3 modes: infrastructure, (wardess relay, Vehicle.
ULTRA RELIABLE WIRELESS BACKHAUL INTOD IW FM-QUADRO GENERAL SETTINGS	6 2022 Cloco and/or its attillates. All rights reserved. Cisco URWB IW9167EH Configurator 5.21.201.72 - MESH END MODE FLUIDITY Fluidity Settings The unit can operate in 3 modes: Infrastructure yield as a refury point of the infrastructure for the mole with and it is connected to a wird enterskic leaded on wird proably includes definition finatestructure. The test is the entry point of the infrastructure of the mole week and it is connected to a wird enterskic leaded on wird enterskic leaded onterskic leaded on wird enterskic leaded on wi
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UTTAR RELABLE ULTAR RELABLE WIRELESS BACKHAUL NOTOD IW FM-QUADRO GENERAL SETTINGS general mode - wireless radio	e 2222 Claco and/or its attillates. All rights reserved.
LITIN IIII CISCO UUTRA RELARLE WRELESS BACKHAUL WRELESS BACKHAUL OTOD IW FM-QUADRO GENERAL SETTINGS -general mode - vertensa radio - antenna alignment and stats	2 222 Clea and/or is attilizes. All rights reserved. Cisco URWB INV9167EH Configurator Catalogue Configuration of the configu
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The below GUI 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.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator 5.21.201.88 - MESH POINT MODE
OTOD IW Offline	WIRELESS RADIO
W-MONITOR Disabled	Wireless Settings
GENERAL SETTINGS	"Shared Passphrase" is an alphanumeric string or special characters excluding '[apex] "[double apex] '[backbi \$[dollar] =[equal] \backslash] and whitespace (e.g. "mysecurecamnet") that indentifies your network. It MUST
general mode	the same for all the Cisco URWB units belonging to the same network.
wireless radio	Shared Passphrase: CiscoURWB
antenna alignment and stats	In order to establish a wireless connection between Cisco URWB units, they need to be operating on the same
ETWORK CONTROL	frequency.
- advanced tools	Radio 1 Settings
advanced settings	Role: Fixed V
- static routes	
- allowlist / blocklist	Frequency (MHz): 5260
- snmp	Channel Width (MHz): 20 V
- radius	Dedia 2.0ettiana
- ntp	Radio 2 Settings
- ethernet filter	Role: Fluidity ~
- izip configuration - vlan settings	Frequency (MHz): 5500
- Fluidity	i requercy (mile).
- misc settings	Channel Width (MHz): 80 V
MANAGEMENT SETTINGS	
- remote access	
- firmware upgrade	Reset
- status	
- configuration settings	
- reboot	
- logout	
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10.1	© 2023 Cisco and/or its affiliates. All rights reserved. 5.11.118 says unit role vehicle is not compatible with radio configuration.
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10.1 CISCO ULTRA RELIABLE	0.2223 Cisco and/or Its affiliates. All rights reserved. 5.11.118 says unit role vehicle is not compatible with radio configuration. radios must be configured as fluidity for role vehicle. or
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