Configuración de fluidez punto a punto y de capa 2 en puntos de acceso inalámbricos industriales (IW)

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Introducción

Este documento describe la configuración de un link punto a punto en un IW AP que se ejecuta en el modo CURWB junto con la configuración de Fluidez de capa 2.

Componentes Utilizados

Hay cuatro tipos de hardware:

- Cisco Catalyst IW9167
- Cisco Catalyst IW9165D
- Cisco Catalyst IW9165E

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Antecedentes

El hardware CURWB proporciona red de retorno inalámbrica en arquitecturas fijas y de movilidad. Este documento describe la configuración de un link punto a punto en un punto de acceso inalámbrico industrial (IW AP) que se ejecuta en modo CURWB junto con la configuración de Fluidity layer 2.

Configuración de un enlace punto a punto con IW9165D

- 1. Las radios se pueden configurar desde el panel de operaciones de loT (IoT OD) o manualmente desde la interfaz web del punto de acceso. En este artículo, configuramos todas las radios manualmente.
- 2. Durante la configuración inicial, es posible que se requiera acceso a la consola. Para conectarse a la consola, utilice una velocidad en baudios de 115200, si la versión del software es 17.12.1 o posterior.
- 3. De forma predeterminada, todas las radios están en modo en línea IOT-OD. Ejecute este comando para verificar el estado del AP.

show iotod-iw status

Cisco-137.250.148#show iotod-iw status IOTOD IW mode: Offline Cisco-137.250.148#

Utilice este comando para cambiar el modo en el AP a offline si está configurado para comunicarse con IoT OD.

configure iotod-iw offline

```
Cisco-137.250.148#configure iotod-iw
offline Set up IOTOD IW mode to offline
online Set up IOTOD IW mode to online. The device can be managed from the
IOTOD IW Cloud Server (if it is connected to the Internet)
Cisco-137.250.148#configure iotod-iw
```

- 4. Una vez que la radio está configurada para estar en modo sin conexión, se puede acceder a la GUI web mediante la dirección IP predeterminada 192.168.0.10.
- 5. Desde la GUI, configure el link punto a punto con las radios desde la página General Settings > General Mode.

Modo general

- El modo de radio (el terminal (que está conectado a la infraestructura con cables) debe

configurarse como terminal de malla y el terminal remoto como punto de malla)

-IP Address

- Máscara de subred y gateway

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW91 5.137.250.148 - M	65DH Configurator ESH END MODE
IOTOD IW Offline IW-MONITOR Enabled	Configuration contains changes. Apply these changes	ges? Discard Review Apply
FM-QUADRO	GENERAL MODE	
GENERAL SETTINGS	Genera	l Mode
- general mode	Select MESH END mode if you are installing this Cisco IC connecting this unit to a wired network (i.e. LAN).	OT IW9165DH Series Access Point at the head end and
- antenna alignment and stats		O mesh point
NETWORK CONTROL	Mode:	• mesh end
- advanced tools ADVANCED SETTINGS		◯ gateway
- advanced radio settings	Radio-off:	Π
- static routes - allowlist / blocklist		
- multicast	LAN Par	ameters
- snmp	Local IP:	10.122.136.9
- ntp	Local Netmask:	255.255.255.192
- ethernet filter	Default Cateway	10 122 136 1
- I2tp configuration - vlan settings	Delault Galeway.	10.122.130.1
- Fluidity	Local Dns 1:	
- misc settings - smart license	Local Dns 2:	
MANAGEMENT SETTINGS		
- remote access	Reset	Save
- status		
- configuration settings		
- reset factory default - reboot		
- logout		
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Una vez configurados los parámetros, guarde los parámetros.

Radio inalámbrica

- Normalmente, para un IW9165, Radio 1 se configura para un link de red de retorno punto a punto, ya que se trata de una antena interna direccional. Para el uso exclusivo de aplicaciones punto a punto, debe desactivarse el segundo radio.
- Ambas radios deben configurarse con la misma frase de paso compartida, frecuencia y ancho de canal.

IOTOD IW Offlice IW-MONITOR Enabled FM-QUADRO Enabled GENERAL SETTINGS -general mode - wireless radio -antenna alignment and stats NETWORK CONTROL -advanced tools Advanced tools Shared Passphrase: - advanced tools Show passphrase: - advanced tools Radio 1 Settings - static routes - allowlist / blocklist - antig Frequency (MHz): - radius - frequency (MHz): - ntip - chernet filter - tib configuration - kas settings - fluidity - multicast - ntip - fuery settings - fluidity - multicast - ntip - fuery settings - fluidity - multicast - ntip - fuery settings - fluidity - fuery settings - fluidity - fuery settings - fluidity - fuery settings	x] `[backtick] It MUST be
IW-MONITOR Enabled Wireless Settings FM-QUADRO "Shared Passphrase" is an alphanumeric string or special characters excluding "apex," "[double aper \$[dollar] = [equal] (backslash] and whitespace (e.g. "mysecurecament") that indentifies your network GENERAL SETTINGS - general mode - wireless radio - antenna alignment and stats NETWORK CONTROL - advanced tools ADVANCED SETTINGS - advanced radio settings - static routes - aliowlist / blocklist - multicast Channel Width (MHz): - ethernet filter - itztp configuration - vian settings - Reset - fluidity - musticast	x] `[backtick] It MUST be
FM-QUADRO GENERAL SETTINGS - general mode - wireless radio - antenna alignment and stats NETWORK CONTROL - advanced tools ADVANCED SETTINGS - advanced radio settings - static routes - allowlist / blocklist - multicast - snmp - radius - ntp - ethernet filter - li2tp configuration - vian settings - Fluidity	x] `[backtick] It MUST be
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 general mode wireless radio antenna alignment and stats NETWORK CONTROL advanced tools ADVANCED SETTINGS advanced radio settings static routes allowlist / blocklist multicast radius rtp radius ntp ethernet filter I2tp configuration vlan settings Fluidity misc settings 	
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- advanced tools Radio 1 Settings ADVANCED SETTINGS Role: Fixed - advanced radio settings Role: Fixed - static routes Frequency (MHz): 5180 - allowlist / blocklist Channel Width (MHz): 20 - multicast Channel Width (MHz): 20 - snmp Radio 2 Settings - ridius Role: Disabled - ntp Role: Disabled - ethernet filter Reset Save - I2tp configuration Reset Save - Fluidity misc settings Save	n the same
ADVANCED SETTINGS - advanced radio settings - static routes - allowlist / blocklist - multicast - snmp - radius - ntp - ethernet filter - l2tp configuration - vlan settings - Fluidity - misc settings	
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 static routes allowlist / blocklist multicast snmp radius ntp ethernet filter I2tp configuration vlan settings Fluidity misc settings 	
 allowlist / blocklist multicast snmp radius radius ntp ethernet filter I2tp configuration vlan settings Fluidity misc settings 	
 multicast snmp radius ntp ethernet filter l2tp configuration vlan settings Fluidity misc settings 	
 - snmp - radius - ntp - ethernet filter - l2tp configuration - vlan settings - Fluidity - misc settings 	
 - radius - ntp - ethernet filter - l2tp configuration - vlan settings - Fluidity - misc settings 	
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- ethernet filter - I2tp configuration - vlan settings - Fluidity - misc settings	
- vlan settings - Fluidity - misc settings	
- Fluidity - misc settings	
- misc settings	
- smart license	
MANAGEMENT SETTINGS	
- remote access	
- firmware upgrade	
- status	
- configuration settings	
- reset factory default	
- reboot	
- logout	
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Una vez configurada la página, guarde los parámetros en ambas radios y aplique los cambios. Esto reinicia las radios y luego se aplican los cambios.

Supervisión de la conectividad

Una vez que las radios vuelven, se puede comprobar la potencia de la señal de la página de alineación de la antena. La potencia de la señal recomendada está entre -45 dBm y -70 dBm.

Es importante validar que la potencia de la señal de ambos extremos del link punto a punto tiene valores RSSI muy cercanos.



Supervisión desde FM Quadro

Puede obtener más información sobre el rendimiento del enlace en la página FM-Quadro. Esto proporciona la calidad en tiempo real del enlace, incluida la tasa de error de enlace (LER), la tasa de error de paquete (PER), RSSI, MCS de rendimiento, flujo espacial, frecuencia de funcionamiento, etc.

th Cisco URWB IW9165DH - 5.1 × 4초 Cisco FM-QUADRO ×	##: Cisco URWB IW9165DH - 5.1: × +	•
← → C O Not Secure https://192.168.0.11/fmquadro/topolo	gy_view ☆	⊕ Ď □ ▲ :
o QUADRO		altala cisco
	@ @ @ @ @ @	
	MP - 192,168,0.19	
	(g' 5180 R2	
Aggr. Throughput 0.05 Mbps Frequency 5180 MHz (R1) 192 168.0.10 ↔ (R1) 192 168.0.11	·	
LPLINK → Throughout LER RER. RSSI MCS Rate 0.01 Mbps 0% 0% -32 dBm 9/2 SGI @80 MHz 780 Mbps		
DOWNLRNK ← Thresuphort LER PER. RSSI MCS Rate 0.04 Mbps 0% 0% -31 dBm 0/0 SGI @20 MHz 0 Mbps		
Ohannel utilization Others Free of		

Fluidez

La arquitectura de red Cisco Fluidity (anteriormente Fluidmesh Fluidity) se basa en Prodigy 2.0. Se trata de una tecnología basada en switching de etiquetas multiprotocolo (MPLS) que se utiliza para proporcionar datos encapsulados por IP.

En una situación de red de red de red de retorno inalámbrica ultrarfiable de Cisco, el proceso de transferencia puede asimilarse a un cambio de topología de red en el que se rompe un enlace existente y se crea uno nuevo. Sin embargo, los mecanismos estándar del sector para detectar el cambio y reconfigurar los nodos son demasiado lentos y consumen muchos datos como para proporcionar un rendimiento adecuado en un escenario en tiempo real limitado (como la movilidad de alta velocidad). En particular, es necesario minimizar la latencia de reconfiguración y el número de mensajes intercambiados para reducir cualquier posibilidad de que los paquetes de datos se pierdan en el proceso. Para mitigar los problemas mencionados anteriormente, Fluidity implementa una solución de transferencia rápida que proporciona una reconfiguración de trayectoria muy rápida, con una latencia del orden de un milisegundo. El mecanismo activo es una extensión del plano de control existente de la red y se basa en una técnica de manipulación específica relacionada con las tablas MPLS FIB del nodo.

El esquema de Fluidez permite que los nodos móviles y los dispositivos cliente conectados a ellos mantengan su dirección IP durante todo el proceso de movilidad. Además, todos los nodos forman parte de una red de malla de capa 2 única.

Configuración de fluidez

Topología: dos puntos de acceso IW9165D conectados a través de la red inalámbrica y el IW9167 como vehículo mediante fluidez de capa 2

- 1. Al igual que el enlace punto a punto, necesitamos configurar la página de modo General. Tenga en cuenta que el clúster de una red de fluidez CURWB L2 solo tiene un extremo de malla. Al igual que en esta red, no hay conectividad de fibra entre los dos IW9165D. Están conectados a través de un enlace de red de retorno inalámbrico punto a punto con la interfaz de radio 1. El extremo de malla para esta pequeña red de fluidez es el IW9165D que está conectado físicamente a la red principal. Todas las demás radios del grupo (incluido el vehículo) se configuran como punto de malla. En esta topología, tenemos 1 extremo de malla y 1 punto de malla que forman el link punto a punto y el IW 9167AP como vehículo (configurado como punto de malla).
- 2. La radio 1 está configurada para un enlace punto a punto y la radio 2 debe configurarse para Fluidez, tanto para las radios de tierra como para las del vehículo. En el caso de las radios de vehículos, solo se configura una interfaz con fluidez, pero la segunda radio está desactivada.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9165DH Configurator 5.137.250.148 - MESH END MODE
IOTOD IW Offline	WIRELESS RADIO
IW-MONITOR Enabled	Wireless Settings
FM-QUADRO	"Shared Passphrase" is an alphanumeric string or special characters excluding '[apex] "[double apex] `[backtick] \$[dollar] =[equal] \[backslash] and whitespace (e.g. "mysecurecamnet") that indentifies your network. It MUST be the same for all the Cisco URWB units belonging to the same network.
GENERAL SETTINGS	
- general mode	Shared Passphrase:
- wireless radio	Show passphrase:
- antenna alignment and stats	In order to establish a wireless connection between Cisco LIRWB units, they need to be operating on the same
NETWORK CONTROL	frequency.
- advanced tools	Radio 1 Settings
ADVANCED SETTINGS	Palar Fixed
- advanced radio settings	Role: Fixed V
- static routes	Frequency (MHz): 5180
- allowlist / blocklist	
- multicast	Channel Width (MHz): 20 V
- snmp	Padia 2 Sattinga
- radius	Radio 2 Settings
- ntp	Role: Fluidity V
- ethernet filter	
- I2tp configuration	Frequency (MHz): 5745
- vlan settings	
- Fluidity	
- misc settings	
	Reset
MANAGEMENT SETTINGS	Keset
- remote access	
- Inniware upgrade	
- status	
- reset factory default	
- report	
- logout	
- logour	
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 En la página Advanced Settings > Fluidity (Parámetros avanzados > Fluidez), los radios de tierra que proporcionan cobertura a los vehículos deben configurarse como Infrastructure (Infraestructura). En el otro lado, la radio del vehículo (IW 9167) debe configurarse como un vehículo.

ULTRA RELIABLE WIRELESS BACKHAUL	C	5.137.250.148 - MESH END MODE
IOTOD IW Offline	FLUIDITY	
IW-MONITOR Enabled		Fluidity Settings
FM-QUADRO GENERAL SETTINGS - general mode - wireless radio - antenna alignment and stats NETWORK CONTROL - advanced tools	The unit can operate in 3 m The unit must be set as Infr and it is connected to a wire must be set as Infrastructur Infrastructure units. In this o it will use the wireless conn The unit must be set as Vef Vehicle. Specifically, Vehicle installed on different vehicle The Network Type filed mus the infrastructure networks organized as different layer	odes: Infrastructure, Infrastructure (wireless relay), Vehicle. astructure when it acts as the entry point of the infrastructure for the mobile vehicles ed network (backbone) which possibly includes other Infrastructure nodes. The unit e (wireless relay) ONLY when it is used as a wireless relay agent to other operating mode, the unit MUST NOT be connected to the wired network backbone as ection to relay the data coming form the mobile units. hicle when it is mobile. Vehicle ID must be set ONLY when the unit is configured as a ID must be a unique among all the mobile units installed on the same vehicle. Unit as must use different Vehicle IDs. It be set according to the general network architecture. Choose Flat if the mesh and belong to a single layer-2 broadcast domain. Use Multiple Subnets if they are -3 routing domains.
ADVANCED SETTINGS	Unit Role:	Infrastructure V
- advanced radio settings		
- static routes	Network Type:	Flat V
 allowlist / blocklist multicast snmp radius ntp ethernet filter l2tp configuration vlan settings Fluidity misc settings smart license MANAGEMENT SETTINGS remote access firmware upgrade status 	environment. Please do not doing. The Handoff Logic controls to. In Normal mode, the poi radio prefers the point whic Handoff Logic:	In the algorithm to infect the performance of the system depending on the specific alter this settings unless you have read the manual first and you know what you are the algorithm used by a mobile radio to select the best infrastructure point to connect in provides the best balance between signal strength and amount of traffic carried. Standard Image: Standard I
- configuration settings		
- reset factory default		
- reboot		
- logout		
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 static routes alowiist / blocklist singp aratius nip antent filter 12b control the advanced settings allow to fine-tune performance of the system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the specific advanced settings allow to fine-tune system depending on the	- advanced radio settings	Unit Role: Vehicle V
 - ntp - doing. - determet filter - 12tp configuration - vlan settings - Fluidity - misc settings - Fluidity - remote access - firmware upgrade - status - configuration settings - reset factory default - reboot - logout 	- static routes - allowlist / blocklist - snmp - radius	Automatic Vehicle ID: C Enable Network Type: Flat 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
 vlan settings Fluidity misc settings MANAGEMENT SETTINGS remote access firmware upgrade status configuration settings reset factory default reboot logout 	- ntp - ethernet filter - l2tp configuration	doing. The Handoff Logic controls the algorithm used by a mobile radio to select the best infrastructure point to connect to. In Normal mode, the point providing the strongest signal is selected. In Load Balancing mode, the mobile radio prefers the point which provides the best balance between signal strength and amount of traffic carried.
© 2023 Cisco and/or its affiliates. All rights reserved.	 vlan settings Fluidity misc settings MANAGEMENT SETTINGS remote access firmware upgrade status configuration settings reset factory default reboot logout 	Handoff Logic: Standard V Reset Save
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- 4. Si utiliza MIMO 2x2, seleccione el número de antena como ab-antenna.
- Para el IW 9167, si utiliza MIMO 2x2 y está utilizando la interfaz 1, utilice los puertos de antena 3 y 4. Si se configura para la interfaz 2, utilice los puertos de antena 5 y 6.

ULTRA RELIABLE WIRELESS BACKHAUL	Cisco URWB IW9167EH Configurator 5.246.2.120 - MESH POINT MODE
IOTOD IW Offline	ADVANCED RADIO SETTINGS
IW-MONITOR Enabled	Radio 1
GENERAL SETTINGS	FluidMAX Management
- general mode - wireless radio - antenna alignment and stats	Force the FluidMAX operating mode of this unit. If the operating mode is Primary/Secondary a FluidMAX Cluster ID can be set. 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 Secondarys will be disabled.
- advanced tools	Radio Mode: OFF
ADVANCED SETTINGS	Max TX Power
 advanced radio settings static routes allowlist / blocklist 	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 Control) 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.
- snmp	Select TX Max Power: 1
- radius	
- ntp - ethernet filter	Antenna Configuration
- I2tp configuration	Select radio 1 antenna gain and antenna number.
- vlan settings - Fluidity	Select Antenna Gain: UNSELECTED V
MANAGEMENT SETTINGS	Antenna number: ab-antenna V
- remote access	Data Packet Encryption
- firmware upgrade	
- status	Enable AES to cypher all wireless traffic. This setting must be the same on all the Cisco URWB units.
- reset factory default	Enable AES: Disabled \checkmark
- reboot	Maximum link length
- logout	
	Insert the length of the longest link in the net, or let the system select an optimal value.
	Distance: 3
	Unit: 💽 Km 🔿 Miles
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5. Después de configurar cada parámetro, guarde la configuración y, al final, aplique los cambios. Los AP se reinician y, una vez que las radios están nuevamente en línea, podemos verificar RSSI desde la página de alineación de la antena y monitorear la conectividad en vivo desde la página FM-Quadro.





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