Configurazione e risoluzione dei problemi di registrazione di telefoni IP wireless

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Introduzione

In questo documento viene descritto come configurare e risolvere i problemi relativi alla registrazione di telefoni IP wireless in Cisco Unified Communications Manager (CUCM).

I telefoni IP wireless Cisco sono adattabili agli utenti che devono poter scollegare la connessione alla rete cablata e rimanere connessi.

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Prerequisiti

Requisiti

Cisco raccomanda la conoscenza dei seguenti argomenti:

- Architettura wireless
- Configurazione di telefoni IP wireless
- Configurazione base CUCM

Componenti usati

- Cisco Unified Communications Manager 8.6 o versioni successive
- Modelli di telefoni IP wireless (792X, 9971, 8821)

La guida seguente è basata sul modello di telefono IP Cisco Unified 9971. La configurazione può variare a seconda del modello di telefono IP.

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

Configurazione

Cisco Unified Wireless LAN Controller e Access Point

Impostazioni WLAN (Wireless Local Area Network)

Èconsigliabile disporre di un SSID (Service Set Identifier) distinto per il telefono IP. Tuttavia, se esiste già un SSID configurato per supportare endpoint LAN wireless Cisco con funzionalità voce, è possibile utilizzare tale WLAN.

L'SSID che deve essere utilizzato dal telefono IP può essere configurato per essere applicato solo a un determinato tipo di radio 802.11.

Si consiglia di far funzionare il telefono IP sulla banda dei 5 GHz in quanto ha molti canali disponibili e non così tanti interferitori come la banda dei 2.4 GHz.

accertarsi che l'SSID selezionato non sia utilizzato da altre LAN wireless in quanto potrebbe causare guasti all'accensione o durante il roaming; in particolare se viene utilizzato un tipo di protezione diverso.

ululu cisco	MONITOR WLANS CON	TROLLER WIRELESS	SECURITY MANAGEMEN	IT COMMANDS	HELP FEEDBACK
WLANs	WLANs > Edit 'voice'				
 WLANS WLANS Advanced 	General Security Profile Name Type SSID	QoS Policy-Map	ping Advanced		
	Status Security Policies	Enabled [WPA2][Auth(802.1X (Modifications done under	+ CCKM)] r security tab will appear after	applying the changes.)
	Radio Policy Interface/Interface Group(G) Multicast Vlan Feature Broadcast SSID NAS-ID	802.11a only ÷ rtp-9 voice ÷ Enabled ✓ Enabled WLC5508-1			

Per utilizzare la funzionalità Cisco Centralized Key Management (CCKM), abilitare la policy Wi-Fi Protected Access (WPA) 2 con la crittografia AES (Advanced Encryption Standard) e la crittografia 802.1x + CCKM per il tipo di gestione delle chiavi autenticate quando il telefono IP esegue la versione firmware 9.1(1) o successive, al fine di abilitare il roaming veloce e sicuro.

cisco		VLANS CON	ITROLLER	WIRELESS	SECURITY MANAG	GEMENT COMMANDS	HELP FEEDBAG	ск
WLANs	WLANs > E	dit 'voice						
WLANS	General	Security	QoS	Policy-Mapp	ing Advanced			
Advanced	Layer 2	Layer 3	AAA Se	rvers				
	Layer 2	Security 6	WPA+WPA2)			
	Fast Trans Fast Transit Protected	Mition tion Management	AC Filtering ²	0				
	PMF		Disat	ed :				
	WPA+WP/	A2 Parameter	rs					
	WPA Po WPA2 P WPA2 E	licy olicy ncryption	⊂ ⊄ eaes	TKIP				
	Authentica	ation Key Mar	nagement	8				
	802.1X CCKM	2 E	nable nable					

Se sul telefono IP è in esecuzione una versione firmware precedente alla 9.1(1), abilitare la policy WPA con crittografia TKIP (Temporal Key Integrity Protocol) e 802.1x + CCKM per il tipo di gestione delle chiavi autenticate per consentire un roaming veloce e sicuro.

uluulu cisco	MONITOR WLANS CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK
WLANs	WLANs > Edit 'voice'
WLANS	General Security QoS Policy-Mapping Advanced
Advanced	Layer 2 Layer 3 AAA Servers
	Layer 2 Security É WPA+WPA2 ‡
	WPA+WPA2 Parameters
	WPA Policy
	WPA Encryption AES STKIP
	WPA2 Policy
	Authentication Key Management
	802.1X 🗹 Enable
	CCKM 🗹 Enable
	PSK Enable
	WPA gtk-randomize State Disable \$

Il criterio Wi-Fi Multimedia (WMM) deve essere impostato su "Obbligatorio" solo se il telefono IP o altri telefoni abilitati per WMM utilizzeranno questo SSID. Se nella WLAN non sono presenti client WMM, si consiglia di collocarli su un altro SSID/WLAN. Se client WMM diversi devono utilizzare lo stesso SSID del telefono IP, verificare che il criterio WMM sia impostato su "Consentito".

Abilitare 7920 Access Point (AP) Call Admission Control (CAC) per annunciare QoS Basic Service Set (QoS) al client.

սիսիս cisco	MONITOR WLANS CONT	FROLLER WIRE	LESS <u>S</u> ECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP	FEEDBACK
WLANs	WLANs > Edit 'voice'						
WLANS	General Security	QoS Polic	y-Mapping Ad	lvanced			
Advanced	Quality of Service (QoS) Application Visibility	Platinum (v	oice) ‡				
	AVC Profile	none	÷				
	Netflow Monitor	none ÷					
	Override Per-User Bar	ndwidth Contra	acts (kbps) 16				
	Average Data Rate	DownStream	Opstream				
	Burst Data Rate	0	0				
	Average Real-Time Rate	0	0				
	Burst Real-Time Rate	0	0				
	Clear						
	Override Per-SSID Ba	ndwidth Contr	acts (kbps) 16				
		DownStream	UpStream				
	Average Data Rate	0	0				
	Burst Data Bata	0	0				

սիսիս cisco	MONITOR WLANS CONT	ROLLER WIRE	LESS SEC	JRITY MANA	GEMENT	COMMANDS	HELP	FEEDBACK
WLANs	WLANs > Edit 'voice'							
WLANs WLANs Advanced	General Security Burst Real-Time Rate Clear	QoS Polic	y-Mapping 0	Advanced				
	Override Per-SSID Bar	DownStream	UpStream) 10				
	Average Data Rate	0	0					
	Burst Data Rate	0	0					
	Average Real-Time Rate	0	0					
	Burst Real-Time Rate	0	0					
	WMM							
	WMM Policy	Required ÷						
	7920 AP CAC	Enabled						
	7920 Client CAC	Enabled						
	Media Stream							
	Multicast Direct	Enabled						

Configurare Abilita timeout sessione in base alle proprie esigenze.

Si consiglia di disattivare il timeout della sessione o di estenderlo (ad esempio, 24 ore / 86400 secondi) per evitare possibili interruzioni durante le chiamate audio. Se disabilitata, evita qualsiasi

potenziale interruzione, ma il timeout della sessione può aiutare a riconvalidare periodicamente le credenziali del client per garantire che il client utilizzi credenziali valide.

Ènecessario disabilitare l'azione di blocco Enable Aironet Extensions (Aironet IE) e Peer to Peer (P2P). Configurare l'esclusione del client in base alle esigenze, è possibile impostare il posticipo scansione off-channel per posticipare la scansione di determinate code e il tempo di posticipo della scansione.

Èpossibile configurare il numero massimo di client consentiti per radio AP in base alle esigenze.

L'assegnazione degli indirizzi DHCP (Dynamic Host Configuration Protocol) richiesta deve essere disabilitata.

Management Frame Protection deve essere impostato su "Optimal" o "Disabled".

Per prestazioni ottimali della batteria e qualità ottimale, utilizzare un periodo DTIM (Delivery Traffic Indication Message) di 2 con un periodo di beacon di 100 ms.

Assicurarsi che le opzioni Bilanciamento carico e Selezione banda client siano disattivate.

սիսիս cisco	MONITOR WLANS CONTROLLER WIRELESS SECURITY MANAGEMENT	COMMANDS HELP FEEDBACK
WLANs	WLANs > Edit 'voice'	
WLANS WLANS	General Security QoS Policy-Mapping Advanced	
Advanced	Allow AAA Override Enabled Coverage Hole Detection Coverage Hole Detection	DHCP Override
	Enable Session Timeout Session Timeout (secs)	DHCP Addr. Assignment 🛛 Required
	Aironet IE Diagnostic Channel Enabled Dispreide Interface ACI IBud None IBuf None IBuf None	OEAP Split Tunnel (Printers) Enabled
	Layer2 Acl None +	Management Frame Protection (MFP)
	P2P Blocking Action Disabled + Client Exclusion P Enabled	MFP Client Protection 4 Optional +
	Maximum Allowed Clients	802.11a/n (1 - 255) 2
	Wi-Fi Direct Clients Policy Disabled	802.11b/g/n (1 - 255) 2
	Maximum Allowed Clients 20 Per AP Radio	NAC State None +
	Class HatCoat	Load Balancing and Band Select

սիսիս cisco	MONITOR WLANS CONTROLLER WIRELESS SECURITY MANAGEMENT	C <u>o</u> mmands He <u>l</u> p <u>F</u> eedback
WLANs	WLANs > Edit 'voice'	
VLANs	General Security QoS Policy-Mapping Advanced	
Advanced	Clear HotSpot	Load Balancing and Band Select
	Configuration	Client Load Balancing
	Client user idle timeout(15-100000)	Client Band Select
	Client user idle threshold	Passive Client
	(0-1000000)	Passive Client
	Off Channel Scanning Defer	Voice
	Scan Defer Priority 0 1 2 3 4 5 6 7	Media Session Snooping Enabled
		Re-anchor Roamed Voice Clients 📃 Enabled
	Scan Defer Time(msecs) 100	KTS based CAC Policy Enabled
	FlexConnect	Radius Client Profiling
	FlexConnect Local	DHCP Profiling
	Switching 2	HTTP Profiling
	FlexConnect Local Auth 12 Enabled	Local Client Profiling
	Learn Client IP Address 💈 🗹 Enabled	DHCP Profiling
	Vian based Central	HTTP Profiling
	Switching 44	PMIP

Impostazioni controller

Verificare che il nome host del controller Cisco Unified Wireless LAN sia configurato correttamente.

Abilitare il LAG (Link Aggregation) se si utilizzano più porte sul Cisco Unified Wireless LAN Controller.

Configurare la modalità multicast AP desiderata. Nelle versioni precedenti alla 6.0, il bilanciamento del carico aggressivo era configurato nelle impostazioni del controller generale. Nella versione 6.0

e successive, questo processo è noto come bilanciamento del carico del client ed è configurabile nella configurazione WLAN (impostazioni SSID).

uluili. cisco	MONITOR WLANS	CONTROLLER	WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP	FEEDBACK
Controller	General							
General Inventory Interfaces Interface Groups Multicast Network Routes Redundancy Redundancy Internal DHCP Server Mobility Management Ports NTP CDP PMIPv6 PMIPv6 PMIPv5 Advanced	Name 802.3x Flow Control LAG Mode on next r Broadcast Forwardin AP Multicast Mode 1 AP Fallback Fast SSID change Default Mobility Don RF Group Name User Idle Timeout (secon Web Radius Autheni Operating Environm Internal Temp Alam WebAuth Proxy Red	Mode eboot ng nain Name seconds) ds) tication ent n Limits irection Mode irection Port	WLC5508-1 Disabled ‡ Disabled ‡ Unicast ‡ Enabled ‡ Disabled ‡ Disabled ‡ VTG-VoWLAN VTG-VoWLAN 300 PAP Commercial (0 0 to 65 C Disabled ‡)))) 0 to 40 C)	(LAG N	fode is currently	enabled).	
	Maximum Allowed A Global IPv6 Config HA SKU secondary to 1. Multicast is not si	Ps ≤ init upported with Flex(Enabled + Disabled + Connect on this) platform.				
	2. Value zero implie	s there is no restric	tion on maximu	im allowed APs	S.			

Impostazioni di rete 802.11

Se si utilizzano 5 GHz, verificare che lo stato della rete 802.11a sia "Abilitato". Impostare il periodo beacon su 100 ms.

Verificare che il supporto DTPC (Dynamic Transmit Power Control) sia abilitato. Se si utilizzano punti di accesso Cisco 802.11n, verificare che ClientLink sia abilitato. Nelle versioni correnti è possibile configurare il numero massimo di client autorizzati.

si consiglia di impostare 12 Mbps come velocità obbligatoria (di base) e 18 - 24 o 18 - 54 Mbps come velocità supportata (opzionale); tuttavia, alcuni ambienti potrebbero richiedere l'attivazione di 6 Mbps come obbligatorio (standard). 36 - 54 Mbps può essere disabilitato, se non vi sono applicazioni che possono beneficiare di queste velocità (ad esempio video).

Abilitare CCX Location Measurement.

ı. cısco	MONITOR WLANS CONTR	OLLER WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP	FEEDBACK
Wireless	802.11a Global Paramete	ers					
Access Points All APs Padios	General			Data Rates**			
802.11a/n/ac	802.11a Network Status	Enabled		6 Mbps	Di	sabled	•
802.11b/g/n	Beacon Period (millisecs)	100		9 Mbps	Di	sabled	•
Global Configuration	Fragmentation Threshold (bytes)	2346		12 Mbps	Ma	andatory	\$
Advanced	DTPC Support.	C Enabled		18 Mbps	Su	pported	+
Mesh	Maximum Allowed Clients	200		24 Mbps	Su	pported	•
RF Profiles	RSSI Low Check	Enabled		36 Mbps	Su	pported	+
FlexConnect Groups	RSSI Threshold (-60 to -90	-80		48 Mbps	Su	pported	•
FlexConnect ACLs	dBm)			54 Mbps	Su	pported	:
▼ 802.11a/n/ac	802.11a Band Status			CCV Location	Mancurama		_
RRM	Low Band	Enabled		CCX Location Measur		rement	
RF Grouping	Mid Band	Enabled		Mode	⋈ (Inabled	
TPC DCA	High Band	Enabled		Interval (secon	ds) 60		

Configurazione di Cisco Unified 9971 IP Phone

Per configurare le impostazioni Wi - Fi sul telefono IP, usare il tastierino e lo schermo tattile per selezionare Applications Button > Administrator Settings > Network Setup > WLAN Setup.

Impostazioni LAN wireless

Per configurare il profilo LAN wireless, attenersi alle seguenti linee guida.

- Assicurarsi che Wireless sia impostato su "On".
- L'opzione Accesso WLAN può essere impostata su On per fornire l'accesso rapido nel menu Applications per aggiornare il nome utente o la password.

• Immettere l'SSID per la LAN wireless vocale, che fa distinzione tra maiuscole e minuscole. Cisco Unified 9971 IP Phone supporta un singolo profilo LAN wireless che consente un singolo SSID.

Sono disponibili tre diverse modalità 802.11.

- Auto
- 802.11a
- 802.11b/g

La modalità automatica esegue la scansione dei canali a 2,4 e 5 GHz e tenta di associare il punto di accesso con un segnale a 5 GHz se la rete configurata è disponibile.

La modalità 802.11a esegue la scansione solo dei canali a 5 GHz e la modalità 802.11b/g esegue la scansione solo dei canali a 2,4 GHz; quindi, se la rete configurata è disponibile, tenta di associarsi a un punto di accesso.

Configurare il telefono IP in modo che utilizzi Apri con WEP (Wired Equivalent Privacy) o Chiave condivisa per la modalità di protezione, immettere le informazioni della chiave WEP statica che corrispondono alla configurazione del punto di accesso.

- Nella configurazione IPv4, selezionare se usare DHCP o configurare le informazioni IP statiche.
- Se le opzioni 150 o 66 non sono configurate per fornire l'indirizzo IP del server Trivial File Transfer Protocol (TFTP) tramite l'ambito DHCP della rete, impostare Alternate TFTP su "Sì" e immettere l'indirizzo IP del server TFTP.



Configurazione di Cisco Unified Communications Manager

Passaggio 1. Configurare il modello del pulsante Telefono appropriato per il telefono IP.

tton Templa	te Name * Cisco 7925G	
	,	
utton Infor	mation —	
Button		Feature
	Line **	
	Line	×
	Speed Dial	
	Line	
	Privacy Service UDI	
	Speed Dial BLF	
	Call Park BLF	
	Intercom	
	Mobility	
	Do Not Disturb	
	None	

Passaggio 2. Aggiungere il telefono IP a CUCM.

Passaggio 3. Completare i campi obbligatori.

Passaggio 4. Assegnare il nuovo modello di pulsante telefonico e il nuovo modello di tasto softkey.

Passaggio 5. Utilizzare un profilo non sicuro per il telefono IP.

I profili di sicurezza possono essere utilizzati per abilitare la modalità autenticata o crittografata, in cui la segnalazione, i supporti e la crittografia dei file di configurazione sono abilitati. La funzione CAPF (Certification Authority Proxy Function) deve essere operativa per utilizzare un certificato con firma locale (LSC, Locally Signed Certificate) con un profilo di sicurezza. I Cisco Unified 7925G, 7925G - E X e 7926 G dispongono di un certificato di fabbricazione installato (MIC), che può essere utilizzato anche con un profilo di sicurezza.

Verifica

Raccogliere i registri della console dal telefono IP. Vediamo i diversi messaggi scambiati tra il telefono IP e il punto di accesso.

Il telefono IP avvia la ricerca di un SSID disponibile nel supporto.

```
09039 08-10 09:33:32.750 649 668 INF wlanmgr : [1298@wm_drv_mrvl.c] State change(1542),
DISCONNECTED -> SCANNING
09040 08-10 09:33:32.750 685 2805 DEB LibWifi : wifi_wait_for_event(CTRL-EVENT-STATE-CHANGE id=0
state=3)
09041 08-10 09:33:32.750 685 2805 DEB LibWifi : wifi_wait_for_event()
09042 08-10 09:33:35.390 1063 2652 INF Unknown : VVMService: Waiting for 39961 ms before
attempting to reconnect.
09043 08-10 09:33:35.468 685 807 DEB StateMachine: handleMessage: E msg.what=401431
09044 08-10 09:33:35.468 685 807 DEB StateMachine: processMsg: AdapterConnectedState
09045 08-10 09:33:35.468 685 807 VBS EthernetStateMachine: AdapterConnectedState{ what=401431
when=-1ms }
09046 08-10 09:33:35.468 685 807 DEB StateMachine: handleMessage: X
09047 08-10 09:33:36.617 649 664 INF wlanmgr : [1298@wm_drv_mrvl.c] State change(1559), SCANNING
-> INACTIVE
09048 08-10 09:33:36.617 210 313 INF SWMAN : nl_ipThrd():recvmsg() len=56
09049 08-10 09:33:36.617 210 313 INF SWMAN : NL event: 16 found; device idx:6 flag :0x1002
```

09050 08-10 09:33:36.617 210 313 INF SWMAN : Got a messge NEW_LINK message!!! 09051 08-10 09:33:36.617 685 2805 DEB LibWifi : wifi_wait_for_event(CTRL-EVENT-STATE-CHANGE id=0 state=2) 09052 08-10 09:33:36.617 685 2805 DEB LibWifi : wifi_wait_for_event() 09053 08-10 09:33:36.617 685 804 DEB EthernetStateMachine: Interface mlan0 LinkStateChanged: down

Il telefono IP inizia l'associazione con il SSID.

09054 08-10 09:33:36.718 649 668 INF wlanmgr : [1293@wm_drv_mrvl.c] State change(2221), "", INACTIVE -> ASSOCIATING 09055 08-10 09:33:36.718 649 668 INF wlanmgr : [2226@wm_drv_mrvl.c] Connecting to "lcorream Wireless", a0:55:4f:c2:ec:eb, chan 56, rssi -56, load 4 09056 08-10 09:33:36.718 685 2805 DEB LibWifi : wifi_wait_for_event(CTRL-EVENT-STATE-CHANGE id=-1 state=5) 09057 08-10 09:33:36.718 685 2805 DEB LibWifi : wifi_wait_for_event() 09058 08-10 09:33:36.734 2348 2348 VBS Settings.AccessPoint: refresh: for SSID lcorream Wireless 09059 08-10 09:33:36.734 2348 2348 VBS Settings.CiscoWifiModifiable: Translating Wifi modifiable state 0 for SSID: "lcorream Wireless"

Il telefono IP viene associato correttamente al punto di accesso.

```
09093 08-10 09:33:38.835 649 664 INF wlanmgr : [1293@wm_drv_mrvl.c] State change(2479),
"lcorream Wireless", ASSOCIATING -> ASSOCIATED
09094 08-10 09:33:38.835 210 313 INF SWMAN : nl_ipThrd():recvmsg() len=112
09095 08-10 09:33:38.835 210 313 INF SWMAN : NL event: 16 found; device idx:6 flag :0x1003
09096 08-10 09:33:38.835 210 313 INF SWMAN : Got a messge NEW_LINK message!!!
09097 08-10 09:33:38.835 210 313 INF SWMAN : nl_ipThrd():recvmsg() len=80
09098 08-10 09:33:38.835 210 313 INF SWMAN : NL event: 16 found; device idx:6 flag :0x1003
09099 08-10 09:33:38.835 210 313 INF SWMAN : Got a messge NEW_LINK message!!!
09100 08-10 09:33:38.835 210 313 INF SWMAN : nl_ipThrd():recvmsg() len=80
09101 08-10 09:33:38.835 210 313 INF SWMAN : NL event: 16 found; device idx:6 flag :0x1003
09102 08-10 09:33:38.835 210 313 INF SWMAN : Got a messge NEW_LINK message!!!
09103 08-10 09:33:38.835 210 313 INF SWMAN : nl_ipThrd():recvmsg() len=132
09104 08-10 09:33:38.835 210 313 INF SWMAN : NL event: 16 found; device idx:6 flag :0x1003
09105 08-10 09:33:38.835 210 313 INF SWMAN : Got a messge NEW_LINK message!!!
09106 08-10 09:33:38.835 210 313 INF SWMAN : nl_ipThrd():recvmsg() len=68
09107 08-10 09:33:38.835 210 313 INF SWMAN : NL event: 16 found; device idx:6 flag :0x1003
09108 08-10 09:33:38.835 210 313 INF SWMAN : Got a messge NEW_LINK message!!!
09109 08-10 09:33:38.835 685 804 DEB EthernetStateMachine: Interface mlan0 LinkStateChanged:
down
09110 08-10 09:33:38.843 685 804 DEB EthernetStateMachine: Interface mlan0 LinkStateChanged:
down
09111 08-10 09:33:38.843 685 2805 DEB LibWifi : wifi_wait_for_event(CTRL-EVENT-STATE-CHANGE id=1
state=6)
09112 08-10 09:33:38.843 685 804 DEB EthernetStateMachine: Interface mlan0 LinkStateChanged:
down
```

Il telefono IP avvia l'autenticazione estesa.

09146 08-10 09:33:39.039 649 664 INF wlanmgr : [3492@wm_drv_mrvl.c] Supplicant event: EAP-STARTED EAP authentication started 09147 08-10 09:33:39.039 649 664 INF wlanmgr : [3492@wm_drv_mrvl.c] Supplicant event: EAP-PROPOSED-METHOD vendor=0 method=25 09148 08-10 09:33:39.039 649 664 INF wlanmgr : [3492@wm_drv_mrvl.c] Supplicant event: EAP-METHOD EAP vendor 0 method 25 (PEAP) selected 09149 08-10 09:33:39.046 225 225 INF PAE : paeGetPort(): recvd macAddress: a0:55:4f:c2:ec:eb 09150 08-10 09:33:39.046 210 749 INF SWMAN : mdk_get_source_port(): mac = a0:55:4f:c2:ec:eb 09151 08-10 09:33:39.046 210 749 INF SWMAN : get_source_port(): START, MAC=0xa0554fc2eceb 09152 08-10 09:33:39.054 210 749 INF SWMAN : get_source_port(): DONE, cdk_port = -1, port = -1, index = 2

09230 08-10 09:33:39.320 649 664 INF wlanmgr : [1293@wm_drv_mrvl.c] State change(2592), "lcorream Wireless", ASSOCIATED -> CONNECTED 09231 08-10 09:33:39.320 210 749 INF SWMAN : get_source_port(): DONE, cdk_port = -1, port = -1, index = 209232 08-10 09:33:39.320 649 664 INF wlanmgr : [56@wm_util.c] Wifi connected[lcorream Wireless]: a0:55:4f:c2:ec:eb, co-cucm, Ch: 56, RSSI: -57 09233 08-10 09:33:39.320 210 749 INF SWMAN : mdk_get_source_port(): rc = 0, port = -1 09234 08-10 09:33:39.320 225 225 INF PAE : paeGetPort(): 340 bytes rcvd from SWMAN, rcvLen: 340 09235 08-10 09:33:39.320 225 225 INF PAE : paeGetPort(): port obtained = -1 09236 08-10 09:33:39.320 225 225 WRN PAE : PAE rcv: msg received from unknown port, drop... 09237 08-10 09:33:39.320 225 225 INF PAE : paeGetPort(): recvd macAddress: a0:55:4f:c2:ec:eb 09238 08-10 09:33:39.320 685 804 DEB EthernetStateMachine: Interface mlan0 LinkStateChanged: up 09239 08-10 09:33:39.320 210 313 INF SWMAN : nl_ipThrd():recvmsg() len=1012 09240 08-10 09:33:39.320 210 313 INF SWMAN : NL event: 16 found; device idx:6 flag :0x11043

Connessione riuscita.

09226 08-10 09:33:39.312 649 664 INF wlanmgr : [3492@wm_drv_mrvl.c] Supplicant event: EAP-SUCCESS EAP authentication completed successfully 09227 08-10 09:33:39.312 210 749 INF SWMAN : mdk_get_source_port(): mac = a0:55:4f:c2:ec:eb 09228 08-10 09:33:39.312 210 749 INF SWMAN : get_source_port(): START, MAC=0xa0554fc2eceb 09229 08-10 09:33:39.320 649 664 INF wlanmgr : [3492@wm_drv_mrvl.c] Supplicant event: CONNECTED - Connection to a0:55:4f:c2:ec:eb completed (auth) [id=0 id_str=]

Passaggio autenticazione estesa completato.

state 0 for SSID: "lcorream Wireless"

09163 08-10 09:33:39.132 649 664 INF wlanmgr : [3492@wm_drv_mrvl.c] Supplicant event: EAP-PEER-CERT depth=0 subject='/CN=CUCM-Srv-01.cucm.cotac.com' 09164 08-10 09:33:39.132 210 749 INF SWMAN : get_source_port(): DONE, cdk_port = -1, port = -1, index = 209165 08-10 09:33:39.132 649 664 INF wlanmgr : [3492@wm_drv_mrvl.c] Supplicant event: EAP-PEER-CERT depth=0 subject='/CN=CUCM-Srv-01.cucm.cotac.com' 09166 08-10 09:33:39.132 210 749 INF SWMAN : mdk_get_source_port(): rc = 0, port = -1 09167 08-10 09:33:39.132 225 225 INF PAE : paeGetPort(): 340 bytes rcvd from SWMAN, rcvLen: 340 09168 08-10 09:33:39.132 225 225 INF PAE : paeGetPort(): port obtained = -1 09169 08-10 09:33:39.132 225 225 WRN PAE : PAE rcv: msg received from unknown port, drop... 09170 08-10 09:33:39.132 225 225 INF PAE : paeGetPort(): recvd macAddress: a0:55:4f:c2:ec:eb 09171 08-10 09:33:39.132 649 664 INF wlanmgr : [3492@wm_drv_mrvl.c] Supplicant event: EAP-PEER-CERT depth=0 subject='/CN=CUCM-Srv-01.cucm.cotac.com' 09172 08-10 09:33:39.140 210 749 INF SWMAN : mdk_get_source_port(): mac = a0:55:4f:c2:ec:eb 09173 08-10 09:33:39.140 210 749 INF SWMAN : get_source_port(): START, MAC=0xa0554fc2eceb 09174 08-10 09:33:39.148 210 749 INF SWMAN : get_source_port(): DONE, cdk_port = -1, port = -1, index = 209175 08-10 09:33:39.148 210 749 INF SWMAN : mdk_get_source_port(): rc = 0, port = -1 09176 08-10 09:33:39.148 225 225 INF PAE : paeGetPort(): 340 bytes rcvd from SWMAN, rcvLen: 340 09177 08-10 09:33:39.148 225 225 INF PAE : paeGetPort(): port obtained = -1

Il telefono IP controlla il certificato del server per PEAP.

09160 08-10 09:33:39.125 2348 2348 VBS Settings.CiscoWifiModifiable: wifi configuration modifiable state value= 0 internal string value: local 09161 08-10 09:33:39.125 210 749 INF SWMAN : mdk_get_source_port(): mac = a0:55:4f:c2:ec:eb 09162 08-10 09:33:39.125 210 749 INF SWMAN : get_source_port(): START, MAC=0xa0554fc2eceb

09158 08-10 09:33:39.125 2348 2348 VBS Settings.AccessPoint: refresh: for SSID lcorream Wireless

09153 08-10 09:33:39.054 210 749 INF SWMAN : mdk_get_source_port(): rc = 0, port = -1 09154 08-10 09:33:39.054 225 225 INF PAE : paeGetPort(): 340 bytes rcvd from SWMAN, rcvLen: 340 09155 08-10 09:33:39.054 225 225 INF PAE : paeGetPort(): port obtained = -1 09156 08-10 09:33:39.054 225 225 WRN PAE : PAE rcv: msg received from unknown port, drop... 09157 08-10 09:33:39.125 225 225 INF PAE : paeGetPort(): recvd macAddress: a0:55:4f:c2:ec:eb

09159 08-10 09:33:39.125 2348 2348 VBS Settings.CiscoWifiModifiable: Translating Wifi modifiable

09241 08-10 09:33:39.320 210 313 INF SWMAN : Got a messge NEW_LINK message!!! Il telefono IP cerca un lease DHCP.

09588 08-10 09:33:39.703 3246 3246 DEB dhcpcd : broadcasting for a lease of 192.168.110.236 09589 08-10 09:33:39.703 3246 3246 DEB dhcpcd : Starting to send message numberof message=0 09590 08-10 09:33:39.703 3246 3246 DEB dhcpcd : REQUESTING SENT 09591 08-10 09:33:39.703 3246 3246 DEB dhcpcd : STATE_RENEWING STATE_REBINDING mlan0 09592 08-10 09:33:39.703 3246 3246 DEB dhcpcd : *sending DHCP_REQUEST with xid 0xc89244e9, next in 3.57 seconds 09593 08-10 09:33:39.703 3246 3246 DEB dhcpcd : get_tos_byte() = 96 09594 08-10 09:33:39.703 3246 3246 DEB dhcpcd : Set ToS byte for DHCP to configured value of [96] 09595 08-10 09:33:39.703 2348 2348 VBS Settings.AccessPoint: onBindView: [lcorream Wireless] modifiable state was empty, setting visibility to gone 09596 08-10 09:33:39.710 2348 2348 VBS Settings.AccessPoint: onBindView: [lcorream Wireless] modifiable state was empty, setting visibility to gone 09597 08-10 09:33:39.718 2348 2348 VBS Settings.AccessPoint: onBindView: [lcorream Wireless] modifiable state was empty, setting visibility to gone 09598 08-10 09:33:39.726 2348 2348 VBS Settings.AccessPoint: onBindView: [CUCM-PEAP] modifiable state was empty, setting visibility to gone 09599 08-10 09:33:39.734 2348 2348 VBS Settings.AccessPoint: onBindView: [CUCM-LAB] modifiable state was empty, setting visibility to gone 09600 08-10 09:33:39.742 2348 2348 VBS Settings.AccessPoint: onBindView: [Kemirand] modifiable state was empty, setting visibility to gone 09601 08-10 09:33:39.750 2348 2348 VBS Settings.AccessPoint: onBindView: [Flex_Guest] modifiable state was empty, setting visibility to gone 09603 08-10 09:33:39.765 2348 2348 VBS Settings.AccessPoint: onBindView: [ASA5506W-A] modifiable state was empty, setting visibility to gone 09604 08-10 09:33:39.906 3246 3246 DEB dhcpcd : in handle_dhcp_packet... 09604 08-10 09:33:39.906 3246 3246 DEB dhcpcd : 09605 08-10 09:33:39.906 3246 3246 DEB dhcpcd : in handle_dhcp

Il telefono IP riceve una risposta dal server DHCP.

09606 08-10 09:33:39.906 3246 3246 DEB dhcpcd : acknowledged 192.168.110.236 from 192.168.110.122. 09607 08-10 09:33:39.906 3246 3246 DEB dhcpcd : cont_init_retry = OLD:0 NEW:0 09608 08-10 09:33:39.976 3246 3246 DEB dhcpcd : handle_timeout:ifname mlan0 state: 9 09609 08-10 09:33:40.046 3246 3246 DEB dhcpcd : checking 192.168.110.236 is available on attached networks 09610 08-10 09:33:40.046 3246 3246 DEB dhcpcd : DBG:checking 192.168.110.236 is available on attached networks

Il telefono IP invia un ARP gratuito per confermare che il IP è effettivamente disponibile.

09611 08-10 09:33:40.046 3246 3246 DEB dhcpcd : sending ARP probe (1 of 2), next in 1.94 seconds 09612 08-10 09:33:40.468 685 807 DEB StateMachine: handleMessage: E msg.what=401431 09613 08-10 09:33:40.468 685 807 DEB StateMachine: processMsg: AdapterConnectedState 09614 08-10 09:33:40.468 685 807 DEB StateMachine: AdapterConnectedState{ what=401431 when=-5ms } 09615 08-10 09:33:40.468 685 807 DEB StateMachine: handleMessage: X 09616 08-10 09:33:41.992 3246 3246 DEB dhcpcd : handle_timeout:ifname mlan0 state: 9 09617 08-10 09:33:41.992 3246 3246 DEB dhcpcd : sending ARP probe (2 of 2), next in 2.00 seconds 09618 08-10 09:33:43.992 3246 3246 DEB dhcpcd : handle_timeout:ifname mlan0 state: 9 09619 08-10 09:33:43.992 3246 3246 DEB dhcpcd : binding the DHCP IP address Probe=2 09620 08-10 09:33:43.992 3246 3246 DEB dhcpcd : startup 0 lease of 600 09621 08-10 09:33:43.992 3246 3246 DEB dhcpcd : get_option2addr: 2054072512 09622 08-10 09:33:43.992 3246 3246 DEB dhcpcd : get_option2addr: 134744072 09623 08-10 09:33:43.992 3246 3246 DEB dhcpcd : leased 192.168.110.122 for 600 seconds....server 192.168.110.122 09624 08-10 09:33:43.992 3246 3246 DEB dhcpcd : Check values : state=3 mlan0 192.168.110.122 300/600 192.168.110.236 09625 08-10 09:33:43.992 3246 3246 DEB dhcpcd : executing `/system/etc/dhcpcd/dhcpcd-run-hooks', reason BOUND 09626 08-10 09:33:43.992 3246 3246 DEB dhcpcd : Enterning configure_env.... II telefono IP riceve un messaggio di opzioni DHCP.

09627 08-10 09:33:43.992 3246 3246 DEB dhcpcd : option 1*: new_subnet_mask=255.255.255.0 09628 08-10 09:33:43.992 3246 3246 DEB dhcpcd : option 150*: new_cisco_tftp_server=192.168.110.86 09629 08-10 09:33:43.992 3246 3246 DEB dhcpcd : option 3*: new_routers=192.168.110.1 09630 08-10 09:33:43.992 3246 3246 DEB dhcpcd : option 6*: new_domain_name_servers=192.168.110.122 8.8.8.8 09631 08-10 09:33:43.992 3246 3246 DEB dhcpcd : option 15*: new_domain_name=cucm.cotac.com 09632 08-10 09:33:43.992 3246 3246 DEB dhcpcd : option 51*: new_dhcp_lease_time=600 09633 08-10 09:33:43.992 3246 3246 DEB dhcpcd : option 53*: new_dhcp_message_type=5 09634 08-10 09:33:43.992 3246 3246 DEB dhcpcd : option 54*: new dhcp server identifier=192.168.110.122 09635 08-10 09:33:44.257 3246 3246 DEB dhcpcd : configure: mlan0 adding IP address 192.168.110.236 09636 08-10 09:33:44.265 3246 3246 DEB dhcpcd : adding route to 0.0.0.0/0 via 192.168.110.1 09637 08-10 09:33:44.265 3246 3246 DEB dhcpcd : Writing lease file: /dataRoot/.system/misc/dhcp/dhcpcd-mlan0.lease 09638 08-10 09:33:44.265 3246 3246 DEB dhcpcd : executing `/system/etc/dhcpcd/dhcpcd-run-hooks', reason BOUND 09639 08-10 09:33:44.265 3246 3246 DEB dhcpcd : Enterning configure_env.... 09640 08-10 09:33:44.265 3246 3246 DEB dhcpcd : option 1*: new_subnet_mask=255.255.255.0 09641 08-10 09:33:44.265 3246 3246 DEB dhcpcd : option 150*: new_cisco_tftp_server=192.168.110.86 09642 08-10 09:33:44.265 3246 3246 DEB dhcpcd : option 3*: new_routers=192.168.110.1 09643 08-10 09:33:44.265 3246 3246 DEB dhcpcd : option 6*: new_domain_name_servers=192.168.110.122 8.8.8.8 09644 08-10 09:33:44.265 3246 3246 DEB dhcpcd : option 15*: new_domain_name=cucm.cotac.com 09645 08-10 09:33:44.265 3246 3246 DEB dhcpcd : option 51*: new_dhcp_lease_time=600 09646 08-10 09:33:44.265 3246 3246 DEB dhcpcd : option 53*: new_dhcp_message_type=5 09647 08-10 09:33:44.265 3246 3246 DEB dhcpcd : option 54*: new_dhcp_server_identifier=192.168.110.122 09648 08-10 09:33:44.265 214 241 INF NETSD : nl_ipThrd():recvmsg() len=60 09649 08-10 09:33:44.265 210 313 INF SWMAN : nl_ipThrd():recvmsq() len=56 09650 08-10 09:33:44.265 210 313 INF SWMAN : NL event: 16 found; device idx:6 flag :0x11043 09651 08-10 09:33:44.265 210 313 INF SWMAN : Got a messge NEW_LINK message!!! 09652 08-10 09:33:44.265 685 2805 DEB LibWifi : wifi_wait_for_event(CTRL-EVENT-SCAN-RESULTS Readv) 09653 08-10 09:33:44.265 685 2805 DEB LibWifi : wifi_wait_for_event() 09654 08-10 09:33:44.265 685 804 DEB EthernetStateMachine: Interface mlan0 LinkStateChanged: up 09655 08-10 09:33:44.398 685 3245 INF dhcp_utils: DHCP is started OK 09656 08-10 09:33:44.398 685 3245 DEB NetUtils: android_net_utils_runDhcpCommon() Ipver:4 IP address = 192.168.110.23609657 08-10 09:33:44.398 685 3245 DEB NetUtils: android_net_utils_runDhcpCommon() Ipver:4 Gateway = 192.168.110.109658 08-10 09:33:44.398 685 3245 DEB NetUtils: android_net_utils_runDhcpCommon() Ipver:4 DNS 1 = 192.168.110.12209659 08-10 09:33:44.398 685 3245 DEB NetUtils: android_net_utils_runDhcpCommon() Ipver:4 DNS 2 = 8.8.8.8 09660 08-10 09:33:44.398 685 3245 DEB NetUtils: android_net_utils_runDhcpCommon() Ipver:4 Server Address = 192.168.110.122 09661 08-10 09:33:44.398 685 3245 DEB NetUtils: android_net_utils_runDhcpCommon() Ipver:4 Vendor Info = 09662 08-10 09:33:44.398 685 3245 DEB NetUtils: android_net_utils_runDhcpCommon() Ipver:4 Domain Name = cucm.cotac.com 09663 08-10 09:33:44.398 685 3245 DEB NetUtils: android_net_utils_runDhcpCommon() Ipver:4 TFTP 1 = 192.168.110.86

09664 08-10 09:33:44.398 685 3245 DEB NetUtils: android_net_utils_runDhcpCommon() Ipver:4 TFTP 2 =

09665 08-10 09:33:44.398 685 3245 DEB DhcpStateMachine: DHCP succeeded on mlan0 IPv4 09666 08-10 09:33:44.398 685 3245 DEB DhcpStateMachine: RunningState: 4 Il telefono IP inizia a richiedere i file dell'elenco di identità attendibili (ITL) e dell'elenco di certificati attendibili (CTL).

10276 08-10 09:33:47.632 3329 3329 INF dgetfile: GETXXTP [GT3329][src=CTLSEP00CCFC4ACCD2.tlv][dest=/data/data/cip.cfg/app_cip.tftp/CTLSEP00CCFC4ACCD2.tlv][serv=][serv6=][sec=0] 10277 08-10 09:33:47.632 3329 3329 INF dgetfile: In normal mode, call - > makeXXTPrequest (...) 10278 08-10 09:33:47.632 3329 3329 INF dgetfile: DTRACE [GT3329]makeXXTPrequest 10279 08-10 09:33:47.632 3329 3329 INF dgetfile: DTRACE [GT3329]parseEMCCConfig 10280 08-10 09:33:47.632 3329 3329 INF dgetfile: EMCC mode is false 10281 08-10 09:33:47.632 3329 3329 INF dgetfile: DTRACE [GT3329]parseDhcpInfoIntoTftpList 10282 08-10 09:33:47.632 3329 3329 INF dgetfile: Using WIRELESS interface for dhcp properties: ok 10283 08-10 09:33:47.632 3329 3329 INF dgetfile: cisco_tftp_server2 unavailable: 10284 08-10 09:33:47.632 927 1611 ERR SQLiteLog: (1) table 'device' already exists

Il telefono IP cerca i server CUCM attivi per la registrazione.

10361 08-10 09:33:47.640 1095 1540 INF ccservice-j: TelephonyManagerData: : fetchCallServerInfos
svrHndls[1]=1584903492 mode=CCM status=ACTIVE CallServerInfo=[192.168.110.86, CCM, ACTIVE]
10362 08-10 09:33:47.640 1095 1540 DEB ccservice: SIPCC-SIP_CC_PROV: 0x5e77b5bc,
CCAPI_DeviceInfo_getCallServerName: returned ipv4 192.168.110.84
10363 08-10 09:33:47.640 1095 1540 DEB ccservice: SIPCC-SIP_CC_PROV: 0x5e77b5bc,
CCAPI_DeviceInfo_getCallServerMode: returned 02
10364 08-10 09:33:47.640 1095 1540 DEB ccservice: SIPCC-SIP_CC_PROV: 0x5e77b5bc,
CCAPI_DeviceInfo_getCallServerStatus: returned 00
10365 08-10 09:33:47.640 1095 1540 INF ccservice-j: TelephonyManagerData: : fetchCallServerInfos
svrHndls[2]=1584903612 mode=NONCCM status=NONE CallServerInfo=[192.168.110.84, NONCCM, NONE]

Risoluzione dei problemi

Cisco Unified 9971 IP Phone fornisce informazioni sui dispositivi, tra cui stato della rete, indirizzo MAC, informazioni sulla versione, comunicazioni unificate, statistiche di flusso e statistiche WLAN. Accedere all'interfaccia Web (<u>http://x.x.x.x</u>) del telefono IP e selezionare le informazioni da controllare.

Informazioni dispositivo

Device information
Network Setup
Ethernet Statistics
Ethernet Information
Access
Network
WLAN Setup
Current AP
WLAN Statistics
Device Logs
Console Logs(Console Logs)
Core Dumps(Core Dumps)
Status Messages
WLAN Site Survey
Debug Display
Streaming Statistics
Stream 1
Stream 2
Stream 3
Stream 4
Stream 5
Stream 6

Device Information

Cisco IP Phone CP-9971 (SEP1C17D3405C6B)

Active Network Interface	WLAN
MAC Address	1C17D3405C6B
WLAN MAC Address	8843E171EEC6
Host Name	SEP1C17D3405C6B
Phone DN	89023675
Version	sip9971.9-3-2-10
Key Expansion Module 1	
Key Expansion Module 2	
Key Expansion Module 3	
Hardware Revision	9.0
Serial Number	FCH141788XX
Model Number	CP-9971
Message Waiting	No
UDI	phone
	Cisco IP Phone 9971, Global
	CP-9971
	FCH141788XX
Camera UDI	CP-CAM-G= ASK132601EF V01
Time	7:00:24p
Time Zone	America/New York
Date	05/10/13
AP MARK	THE ALL AND

Installazione della rete

Device Information Network Setup Ethernet Statistics Ethernet Information Access Network WLAN Setup Current AP WLAN Statistics Device Logs Console Logs(Console Logs) Core Dumps(Core Dumps) Status Messages WLAN Site Survey Debug Display Streaming Statistics Stream 1 Stream 2 Stream 3 Stream 4 Stream 5 Stream 6

Network Setup

Cisco IP Phone CP-9971 (SEP1C17D3405C6B)

DHCP Server BOOTP Server MAC Address Host Name Domain Name IP Address Subnet Mask TFTP Server 1 Default Router DNS Server 1 DNS Server 2 DNS Server 3 Operational VLAN Id Admin, VLAN Id CUCM Server1 CUCM Server2 CUCM Server3 CUCM Server4 CUCM Server5 Information URL Directories URL Messages URL Services URL DHCP Enabled DHCP Address Released Alternate TFTP Forwarding Delay Idle URL Idle URL Time Proxy Server URL

Authentication URL

10.116.167.193 No 8843E171EEC6 SEP1C17D3405C6B cisco.com 10.116.167.197 255.255.255.240 10.35.48.106 10.116.167.193 64.102.6.247 161.44.124.122

4095 4095 gigantic-7 Active gigantic-8 Standby

https://10.35.48.106:8443/ccmcip/GetTelecasterHelpText.jsp https://10.35.48.106:8443/ccmcip/xmldirectory.jsp

https://10.35.48.106:8443/ccmcip/getservicesmenu.jsp Yes No Yes No

0

https://10.35.48.106:8443/ccmcip/authenticate.jsp

Statistiche WLAN

Device Information Network Setup Ethernet Statistics Ethernet Information Access Network WLAN Setup Current AP WLAN Statistics Device Logs Console Logs(Console Logs) Core Dumps(Core Dumps) Status Messages WLAN Site Survey Debug Display Streaming Statistics Stream 1 Stream 2 Stream 3 Stream 4 Stream 5 Stream 6

Statistiche di streaming

WLAN Statistics

Cisco IP Phone CP-9971 (SEP1C17D3405C6B)

Transmit Frames:	00106929
Directed Frames Received:	00104213
Multicast Frames Received:	00000000
Broadcast Frames Received:	00002716
Receive Errors:	00000000
Receive No Buffers:	00000000
FCS Errors:	00000000
Duplicate Frames:	00000000
Fragments Received:	00000000
Beacons Received:	08996244
Association Rejected:	00000002
Association Timeouts:	00000000
Authentication Rejects:	00000000
Authentication Timeouts:	00000000
QOS Null Frames:	00001768
Background	
QOS Data Received:	00000000
Transmit Ok:	00000000
Transmit Error:	00000000
Direct Frames Transmitted:	00000000
Multicast Frames Transmitted:	00000000
Broadcast Frames Transmitted:	00000000
RTS Failed:	00000000
ACK Failed:	00000000
Retries:	00000000
Multiple Retries:	00000000
Retry Failures:	00000000
Transmit Timeouts:	00000000
Other Failures:	00000000
Success counter:	00000000
Max Retry Failure:	00000000

Network SetupLocal Address10.116.167.197/20640Ethernet StatisticsStart Time12:08:42pEthernet InformationStream StatusNot ReadyAccessHost NameSEP1C17D3405C6BNetworkSender Packets30250WLAN SetupSender Octets4840000
Ethernet Statistics Start Time 12:08:42p Ethernet Information Stream Status Not Ready Access Host Name SEP1C17D3405C6B Network Sender Packets 30250 WLAN Setup Sender Octets 4840000
Ethernet Information Stream Status Not Ready Access Host Name SEP1C17D3405C6B Network Sender Packets 30250 WLAN Setup Sender Octets 4840000
Access Host Name SEP1C17D3405C6B Network Sender Packets 30250 WLAN Setup Sender Octets 4840000
Network Sender Packets 30250 WLAN Setup Sender Octets 4840000
WLAN Setup Sender Octets 4840000
Current AP Sender Codec G.722
WLAN Statistics Sender Reports Sent 111
Device Logs Sender Report Time Sent 12:18:46p
Console Logs(Console Revr Lost Packets 215
Logs) Avg Jitter 11
Core Damps(Core Dumps) Rcvr Codec G.722
Sintus Messages Revr Reports Sent 0
WLAN Site Survey Rcvr Report Time Sent 00:00:00
Debug Display Revr Packets 30029
Streaming Statistics Rcvr Octets 5164988
Stream 1 MOS LQK 4.3828
Stream 2 Avg MOS LQK 4.2019
Stream 3 Min MOS LQK 3.4758
Stream 4 Max MOS LQK 4.5000
Stream 5 MOS LQK Version 0.95
Stream 6 Cumulative Conceal Ratio 0.0090
Interval Conceal Ratio 0.0066
Max Conceal Ratio 0.0863
Conceal Secs 210
Severely Conceal Secs 15
Latency 149
Max Jitter 148
Sender Size 20 ms
Sender Reports Received 33
Sender Report Time Received 12:18:45p
Rcvr Size 20 ms
Revr Discarded 1

Streaming Statistics

Cisco IP Phone CP-9971 (SEP1C17D3405C6B)

Registri dispositivo

I registri della console, i dump di base, i messaggi di stato per la risoluzione dei problemi possono essere ottenuti dall'interfaccia Web del telefono IP. Selezionare l'interfaccia Web (<u>http://x.x.x.x</u>) del telefono IP, quindi selezionare le voci di menu necessarie in Registri dispositivi per visualizzare queste informazioni.

Device Information Current logs in /var/log: Network Setup messages Ethernet Statistics messages.0 Ethernet Information messages.1 Access messages.2 Network messages.3 Network messages.4 WLAN Setup messages.5
Current APArchived logs in /cisco/logsave/hourly:WLAN Statisticshourly 20130510 230102.tar.gzDevice Logshourly 20130510 220101.tar.gzConsole Logs(Consolehourly 20130510 20101.tar.gzLogs)hourly 20130510 20101.tar.gzCore Dumps(Corehourly 20130510 190101.tar.gzDumps)hourly 20130510 190101.tar.gzStatus Messageshourly 20130510 190101.tar.gzWLAN Site Surveyhourly 20130510 190101.tar.gzDebug Displayhourly 20130510 120102.tar.gzStream 1hourly 20130510 100102.tar.gzStream 2hourly 20130510 090101.tar.gzStream 3hourly 20130510 090101.tar.gzStream 4hourly 20130510 090101.tar.gzNere 1hourly 20130510 090101.tar.gzStream 5hourly 20130510 090101.tar.gzStream 5hourly 20130510 090101.tar.gzNere 1hourly 20130510 090101.tar.gzNourly 20130510 090101.tar.gzNourly 20130510 090101.tar.gzhourly 20130510 000101.tar.gzhourly 20130510 000101.tar.gz

Indicatore del segnale WLAN

a partire dalla versione 9.0(2), l'indicatore di stato WLAN sarà visibile in tutti i menu di Impostazioni amministratore. Nella versione iniziale, l'indicatore del segnale WLAN era visibile solo nel menu WLAN Setup.

