



VISTAZO AL EVENTO

# Comunidad de Soporte de Cisco - Webcast con el Experto

Cómo utilizar el Wireless LAN Controller Config Analyzer (WLCCA)

20 de Febrero 2018

con Javier Contreras

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# Agenda

- Introducción
- Cómo utilizar WLCCA
- Análisis RF
- Trucos y trampas
- Demo

# Características

- Validaciones de configuración

WLC Config Analyzer - 20180116-214046176\_01-15\_Default.txt

File Edit Find RF Analysis Report Center View Settings Windows Help

Config Set# 1 File: C:\Users\jacontre\Desktop\Customers\WLCCA\20180116-214046176\_01-15\_Default.txt

Device Data AP Nearby Info Global Messages AP Messages Parsing Errors

Type	Object	Category	Warning
Controller	haier-cp	Config Error	30005.General: Interface has 0.0.0.0, incorrect configuration: service-port
Controller	haier-cp	Best Practices	30084.General: Virtual Gateway IP is not on 192.0.2.0/24 , 198.51.100.0/24 , 203.0.113.0/24 networks, change to recommended to avoid overlapping with Internet Alk
Controller	haier-cp	Informational	30002.General: Controller with APs with AP-Group in use
Controller	haier-cp	Best Practices	30057.General: Disabling low data rates/11b can help to optimize the channel utilization on the 2.4 band. Depending on RF coverage, or if using legacy clients, this may
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Controller	haier-cp	Config Error	30107.General: DHCP enabled on the interface, but DHCP IP is not configured.. Interface.management
Controller	haier-cp	Best Practices	30064.General: EAPoL request timeout larger than 400ms. EAP key requests may benefit for faster recovery, and better behavior on bad RF, by using higher counts, low
Controller	haier-cp	Best Practices	30065.General: EAP request retries lower than 3. EAP requests may benefit for faster recovery, and better behavior on bad RF, by using higher counts, lower retry timeo
Controller	haier-cp	Best Practices	30067.General: Minimum Rogue RSSI detection threshold should be set to -80 or higher, unless mandated by your security policies. Current Value: -90
Controller	haier-cp	Best Practices	30076.General: Controller without time source, please configure a valid NTP server. Not synched NTP server found
Controller	haier-cp	Best Practices	30077.General: Controller with telnet enabled, this is not advisable for security issues
Controller	haier-cp	Best Practices	30092.General: For enterprise environments, it is recommended to use DCA with 40 MHz channel width or Best setting, except for High Density deployment scenarios
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Controller	haier-cp	Best Practices	30098.General: ED-RRM is not in use. It is recommended to enable for enterprise environments. Band: 2.4 GHz
Controller	haier-cp	Best Practices	30098.General: ED-RRM is not in use. It is recommended to enable for enterprise environments. Band: 5 GHz
Controller	haier-cp	Best Practices	30101.General: Detected channels on band 100-140 as not in use for DCA. If country regulations allows it, it is advisable to enable to improve channel distribution on 80
Controller	haier-cp	Best Practices	120003.Security: It is recommended to monitor all channels for rogue detection. Band 5 GHz
Controller	haier-cp	Best Practices	120003.Security: It is recommended to monitor all channels for rogue detection. Band 2.4 GHz
Controller	haier-cp	Best Practices	120009.Security: it is recommended to set a CPU ACL, to control the management access to the controller
Controller	haier-cp	Best Practices	120015.Security: HTTP access to management is enabled, it is recommended to only allow https for security reasons
Controller	haier-cp	Best Practices	120016.Security: High encryption for management is not enabled
Controller	haier-cp	Best Practices	120001.Security: it is recommended to disable Management over wireless for security reasons

# Análisis RF

- Estadísticas RF por AP group/Flex group

The screenshot shows the WLC Config Analyzer application window. The title bar indicates the file path: "C:\Users\jacontre\Desktop\Customers\WLCCA\20180116-214046176\_01-15\_Default.txt". The menu bar includes File, Edit, Find, RF Analysis, Report Center, View, Settings, Windows, and Help. The toolbar contains icons for file operations and a search box.

The main window displays "Device Data" with tabs for "AP Nearby Info", "Global Messages", "AP Messages", and "Parsing Errors". On the left, a tree view shows the network structure under "Access Points" > "RF Stats" > "Band 2.4 GHz" > "AP Groups". The tree includes sub-items like CP\_Bei805B, CP\_L1\_LL5, CP\_L6\_L9, CP\_Zhong101, CP\_Zhong118, GE-caigou, Haier\_Lab\_Test, default-group, Client Distribution, Neighbor List, Channel View, All APs, Band 5 GHz, and RF Health.

The main area displays a table titled "RF Stats AP Groups - 2.4 GHz Band". The table has the following columns: Group Name, Total Clients, Clients High SNR, Clients Low SNR, Total APs, APs with High Cochannel Interf., APs with High Noise, APs with High Utilization, APs with Auto Channel, APs with Manual Channel, and APs with Auto Power.

Group Name	Total Clients	Clients High SNR	Clients Low SNR	Total APs	APs with High Cochannel Interf.	APs with High Noise	APs with High Utilization	APs with Auto Channel	APs with Manual Channel	APs with Auto Power
CP_Bei805B	0	0	0	1	0	0	2	0	0	0
CP_L1_LL5	398	246	152	64	9	0	73	29	9	34
CP_L6_L9	89	65	24	50	2	0	58	0	7	7
CP_Zhong101	19	12	7	4	0	0	4	4	0	2
CP_Zhong118	19	7	12	2	0	0	2	2	0	0
GE-caigou	10	7	3	3	0	0	3	2	0	2
Haier_Lab_Test	0	0	0	1	0	0	2	0	0	0
default-group	0	0	0	5	0	0	7	0	0	0

# Wireless Config Analyzer Express

Wireless Config Analyzer Express BETA Contributors

Input Parameters ▼

Run

### Wireless Analyzer Results

- **WLC Messages**
- AP Messages Summary
- RF Stats WLC Summary
- RF Stats AP Groups Summary
- RF Stats Flex Groups Summary
- RF Health WLC Summary
- RF Health AP Groups Summary
- RF Health Flex Groups Summary
- AP Models Summary
- AP Modes Summary
- Best Practices Score
- Show All
- Hide All

**Total Unique Messages:**

Error:	28
Warning:	62
Info:	37
Parsing Errors:	0
Processing Errors:	5

**WLC Results:** wlc.customer.net

30001	General: Controller with not recommended code version:8.3.130.8 <b>Action:</b> Controller is running deferred or not recommended code and should be upgraded. Refer <a href="http://www.cisco.com/c/en/us/support/docs/wireless/wireless-lan-controller-software/200046-TAC-Recommended-AireOS.html">http://www.cisco.com/c/en/us/support/docs/wireless/wireless-lan-controller-software/200046-TAC-Recommended-AireOS.html</a>
30008	General: Controller with high temperature: +67 C <b>Action:</b> Interface created without any port assignment, incomplete config. Use config interface port command to correct this problem
30028	General: Max AP count reached on controller <b>Action:</b> WLC is running at its maximum capacity. No more APs will be able to join
30056	General: HA is active, but no vlan set on Manager interface <b>Action:</b> HA is only supported on tagged management interfaces. This is also recommended for WGB or IPv6 features, you should configure vlan on management interface. Command: config interface vlan management

# ¿Cómo se usa?

- Ir a: <https://cway.cisco.com/tools/WirelessAnalyzer/>

The screenshot shows the Cisco TAC Tool interface for the Wireless Config Analyzer Express. At the top left, the Cisco logo is displayed next to the text "Tools Catalog / Beta Tool" and "Cisco TAC Tool". On the top right, the user name "JAVIER CONTRERAS ALBESA" is shown along with three circular icons: a megaphone, a refresh symbol, and a question mark. The main header of the tool is "Wireless Config Analyzer Express" with a "BETA" badge, and a "Contributors" link is visible on the far right. Below the header is a section titled "Input Parameters" with an upward-pointing chevron icon. Underneath, there is an "Add File" label and a large dashed rectangular area containing an upward-pointing arrow and the text "Click or drop files here". At the bottom left of the interface, there is a "Run" button.

# RF Health WLC/AP Groups/Flex Groups

## Evaluación General

## Total de Radios por nivel

		RF Health WLC Level Summary					
		2.4GHz Band			5GHz Band		
Stats	<b>Total Radios:</b>	542			580		
	<b>Health Assesment:</b>	Low			High		
	<b>Lowest Metric Average:</b>	53			80		
		2.4GHz Band			5GHz Band		
		Low	Medium	High	Low	Medium	High
AP Radio Count per RF Health Metrics	<b>Co-Channel Neighbor Utilization:</b>	25	80	437	0	0	580
	<b>Co-Channel Overlapping:</b>	53	80	409	0	3	577
	<b>Side Channel Overlapping:</b>	0	0	542	0	0	580
	<b>Noise Same Channel:</b>	0	1	541	0	0	580
	<b>Noise Side Channel:</b>	1	4	537	0	0	580
	<b>Interference Same Channel:</b>	0	2	540	0	0	580
	<b>Interference Side Channel:</b>	0	0	542	0	0	580
	<b>Low SNR Clients:</b>	4	10	528	23	63	494
	<b>Radio Utilization:</b>	131	114	297	25	11	544
	<b>Cleanair Interferers:</b>	0	0	542	0	0	580

Métricas Individuales

Encuentre información adicional de **Wireless - WLCCA**  
en la Comunidad de Soporte de Cisco o en Cisco.com

Fundamentos de la comunicación inalámbrica

<https://supportforums.cisco.com/t5/wireless-mobility-blogs/fundamentos-de-la-comunicaci%C3%B3n-inal%C3%A1mbrica/ba-p/3176069/jump-to/first-unread-message>

WPA2-psk ssid on CA controllers

<https://supportforums.cisco.com/t5/wireless-mobility-videos/wpa2-psk-ssid-on-ca-controllers/ba-p/3103487/jump-to/first-unread-message>

Si aún no es un usuario registrado, de [Click Aquí](#) para registrarse y conviértase en un participante destacado de la comunidad





# Esperamos haya disfrutado del vistazo al próximo Webcast.

Recuerde ha sido sólo un adelanto. El 20 de Febrero tendrá la oportunidad de ver toda la presentación.



Regístrese ahora: <http://bit.ly/Sneak-Webcast-WLCCA>

Durante el webcast usted tendrá la oportunidad de aprender mucho más y además podrá realizar preguntas al experto, mismas que se contestarán en vivo.

¡Nos vemos en el evento!