



SNEAK PEEK

Cisco Support Community Expert Series Webcast

How to use Wireless Controller Configuration Analyzer (WLCCA)?

April 17th, 2018

with Javier Contreras

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<http://bit.ly/webcat-wlcca-april2018>



Agenda

- What is the Wireless LAN Controller Configuration Analyzer (WLCCA)
- Functions and features
- RF analysis
- What is Configuration Analyzer Express
- How to use the tool
- Demonstration

Features

- Validating Configuration

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

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 All
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
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
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 courts, 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 courts, 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

RF Analysis

- RF peer AP group/Flex group Statistics

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

File Edit Find RF Analysis Report Center View Settings Windows Help

Device Data AP Nearby Info Global Messages AP Messages Parsing Errors

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

RF Stats AP Groups - 2.4 GHz Band

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_L5	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

Controllers

Access Points

RF Stats

Band 2.4 GHz

AP Groups

CP_Bei805B

CP_L1_L5

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

RF Health

Wireless Configuration 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 Action: Controller is running deferred or not recommended code and should be upgraded. Refer http://www.cisco.com/c/en/us/support/docs/wireless/wireless-lan-controller-software/200046-TAC-Recommended-AireOS.html
30008	General: Controller with high temperature: +67 C Action: 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 Action: 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 Action: 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

How to use it?

- Go to: <https://cway.cisco.com/tools/WirelessAnalyzer/>

The screenshot shows the Cisco TAC Tool interface. At the top left is the Cisco logo and the text "Tools Catalog / Beta Tool" and "Cisco TAC Tool". At the top right is the user name "JAVIER CONTRERAS ALBESA" and three circular icons: a speaker, a refresh symbol, and a question mark. The main content area is titled "Wireless Config Analyzer Express BETA" with a "Contributors" link on the right. Below the title is a section labeled "Input Parameters" with an upward arrow icon. Underneath is a large dashed box for file upload, containing the text "Add File" at the top left, a horizontal line, an upward arrow icon, and the text "Click or drop files here" in the center. At the bottom left of the interface is a "Run" button.

RF Health WLC/AP Groups/Flex Groups

General Evaluation Total ratio peer level

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

Individual metrics

Check out some additional information on Cisco Catalyst Switches on the Cisco Support Community or Cisco.com

What is WLCCA?

<https://supportforums.cisco.com/t5/wireless-lan-controller-config/what-is-wlcca/td-p/2703251>

New WLCCA version 4.4.6

<https://supportforums.cisco.com/t5/wireless-lan-controller-config/new-wlcca-version-4-4-6/td-p/3361212>

If you are not yet a registered user on the community, [Click here](#) to register and become an active participant on the community.



Hope you enjoyed this little peek into the webcast.
Remember it was just a peek. April 17th you get a chance to see the whole thing.



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At the webcast you will be able to learn so much more and get a chance to submit questions for the expert to answer during the broadcast.
We'll see you there!