

# 使用無線調試分析器進行故障排除

## 目錄

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[簡介](#)

[背景資訊](#)

[存取](#)

[儀表板](#)

[1. 控制面板檢視](#)

[2. Client Session Details \( 滾動到頁面底部 \)](#)

[3. 詳細客戶端會話 — 序列圖](#)

[從C9800 Web介面訪問工具](#)

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## 簡介

本文檔介紹在cisco.com上託管的最常用的無線調試分析工具之一 — 無線調試分析器。 [無線調試分析器](#)解析AireOS和Cat9800無線LAN控制器的調試日誌檔案。它可以更輕鬆地解決無線客戶端關聯、身份驗證、漫遊和連線問題。

## 背景資訊

此工具旨在根據日誌序列提供邏輯分析，以便與已知問題相匹配。對於AireOS，該工具還可以透過「debug client <mac1> <mac2> ...」的輸出以及「debug aaa/webauth/mdns」的某些部分進行分析。若是Catalyst 9800 WLC，此工具可以透過從WLC產生的永遠連線追蹤和無線電作用中追蹤記錄進行分析。對於9800 RA跟蹤，有一個新新增的高級洞察儀表板。

9800 Advanced Debug Insights是一個新的深入分析控制面板，可快速分析RA跟蹤。它提供每個WLAN ( 成功與失敗 ) 的客戶端漫遊狀態、入網時間、刪除原因和客戶端會話數的快速摘要。它還提供所有客戶端連線嘗試的高級別表檢視，其中包含開始、每個會話的結束時間戳、刪除原因、身份驗證方法和AP名稱，並且還可以檢視序列圖中客戶端、AP、WLC之間的所有事務的詳細資訊。

標準無線調試會產生大量資訊，這些資訊需要很長時間才能收集、分析並最終確定原因。

大約35%的SR ( 卷 ) 用於解決客戶端問題 ( 丟棄、斷開和漫遊故障 )。手動分析它們是耗時和頻寬。手動分析容易出錯。控制面板提供全域性檢視和詳細檢視。

## 存取

可從以下網址訪問獨立工具：<https://cway.cisco.com/wireless-debug-analyzer/>

步驟：

1. 上傳調試檔案

2.按一下「分析」按鈕 (表檢視)

3.按一下「顯示高級調試見解」 (僅適用於C9800 RA跟蹤)

## 儀表板

該工具提供了各種儀表板檢視以幫助分析。

The screenshot shows the 'Wireless Debug Analyzer' web interface. At the top, there is a header with the tool's name and a brief description. Below the header, there is a file upload area with a file named 'sample2.log.txt' (757.9 KB) and a callout bubble pointing to it that says 'Upload AireOS debug or C9800 RA trace'. Below the upload area, there is a 'Parse' button and a callout bubble pointing to it that says 'Advanced Insights for C9800 RA traces only'. Below the 'Parse' button, there is a 'Show Advanced Debug Insights' button with a lightning bolt icon and a callout bubble pointing to it that says 'Debug Summary'. Below the 'Show Advanced Debug Insights' button, there is a dropdown menu for selecting a client MAC address, currently showing '7c21.0dc7.7cf0'. Below the dropdown menu, there are several checkboxes for filtering the results: 'Show Time', 'Show Task', 'Show Translated', 'Show Original', 'Show Prior First Connection', and 'Show All'. Below the checkboxes, there is a table with columns 'Time', 'Task', and 'Translated'. The table contains several rows of log entries, including 'Connection attempt #1', 'client-orch-sm', 'dot11', 'radius', and 'client-orch-sm'. At the bottom right of the interface, there is a 'Download CSV' link and a pagination control showing 'Lines 1-50 of 205'.

Wireless Debug Analyzer

This tool parses debug log files for AireOS (WLC 5500/2500/8500/7500/WISM1-2/vWLC) and Cat9800 Wireless LAN Controllers. It makes it easier to troubleshoot issues with wireless client association, authentication, roaming, and connectivity issues.

This tool aims to provide logical analysis based on log sequence matching against existing issues. For AireOS the tool can also parse through output of "debug client <mac1> <mac2> ..." as well as some portions of "debug aaa/webauth/mdns". For Catalyst 9800 WLC, the tool can parse through always-on traces and radio-active trace logs generated from WLC.

sample2.log.txt  
757.9 KB

Upload AireOS debug or C9800 RA trace

Group by client MAC

Parse

Show Advanced Debug Insights

Advanced Insights for C9800 RA traces only

Select a client MAC Address and connection to see logs.

7c21.0dc7.7cf0

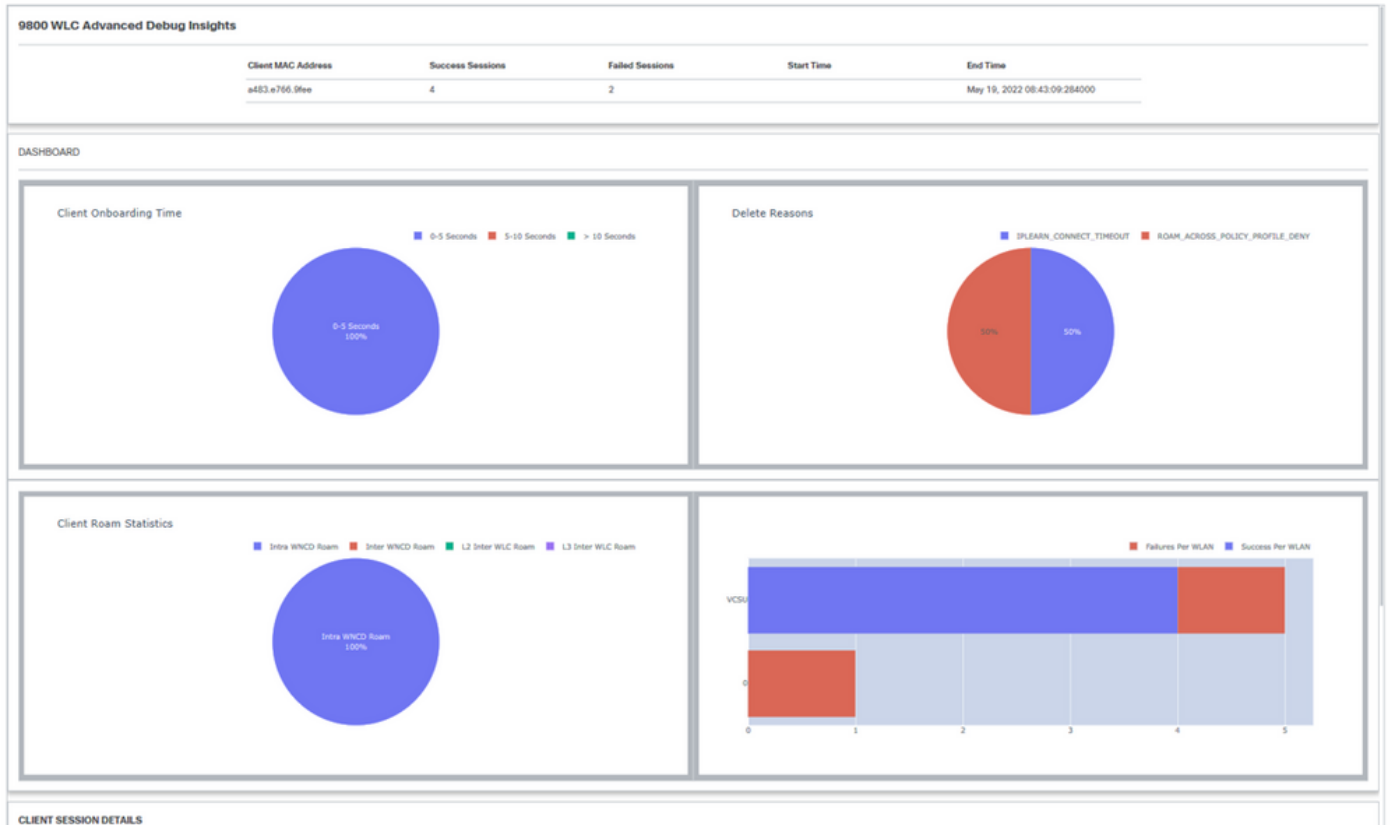
Download CSV

Lines 1-50 of 205

Show Time  Show Task  Show Translated  Show Original  Show Prior First Connection  Show All

Time	Task	Translated
Connection attempt #1		
2020/03/06 16:31:29.328	client-orch-sm	Client roamed to a new AP/BSSID: BSSID 4c71.0db5.ef42, old BSSID 4c71.0db5.ef4d, WLAN SH_VOIP, Slot 0 AP 4c71.0db5.ef40, BES_HEALTH
2020/03/06 16:31:29.328	dot11	Client moved to MAB authentication state
2020/03/06 16:31:29.329	radius	Sending Accounting Request to AAA server: 10.10.2.109 with port 1813, request id: 0/141
2020/03/06 16:31:29.329	radius	Authentication/Accounting user: 7C-21-0D-C7-7C-F0
2020/03/06 16:31:29.329	client-orch-sm	Client successfully authenticated using MAB

## 1.控制面板檢視



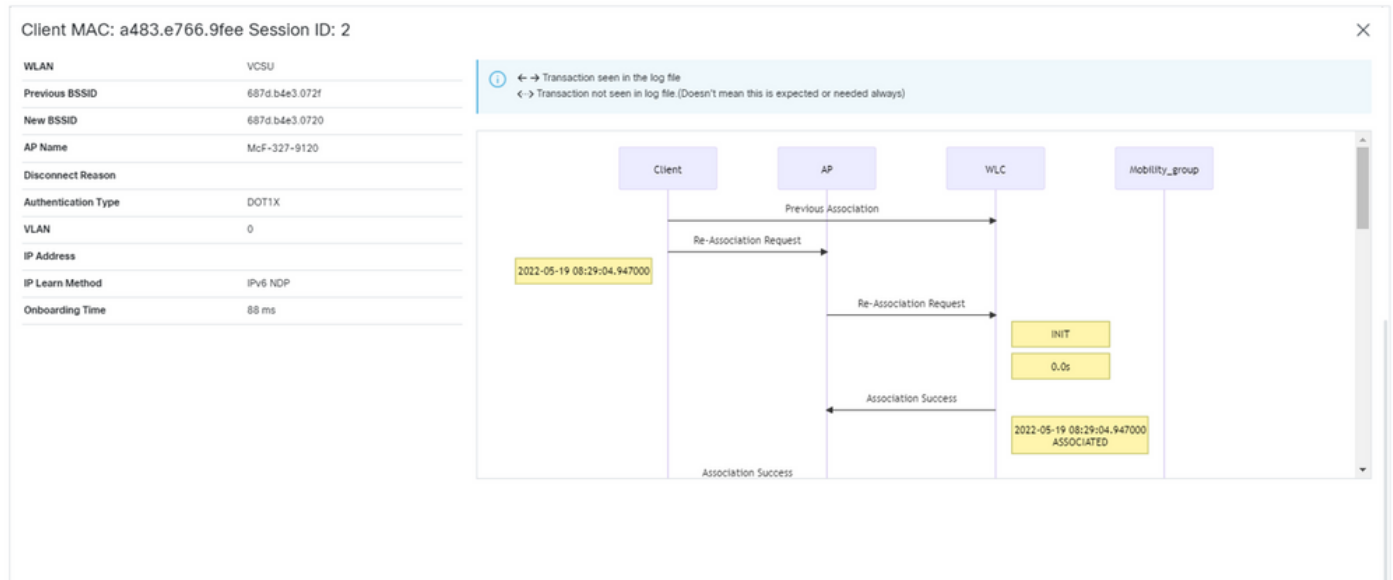
## 2. Client Session Details ( 滾動到頁面底部 )

CLIENT SESSION DETAILS

Client MAC: A483.E766.9fee

Session	State	Auth Method	AP	WLAN	Mobility Role	IP Address	Onboarding Time	Start/Run Time	Delete Reason	Delete Time
0	IPLEARN	DOT1X	unknown	0	Local-None	fe80::401:1a8e:c4d2:ae40	0 ms	/	IPLEARN_CONNECT_TIMEOUT	06:18:34:000
1	RUN	DOT1X	687d.b4e3.0720	VCSU	Local-None	fe80::401:1a8e:c4d2:ae40	3359 ms	07:14:14:192 / 07:14:17:551		
2	RUN	DOT1X	McF-327-9120	VCSU	Local-None		88 ms	08:29:04:947 / 08:29:05:035		
3	MOBILITY	DOT1X	687d.b4e3.0800	VCSU	Local-None		0 ms	08:31:50:373 /	ROAM_ACROSS_POLICY_PROFILE_DENY	08:31:50:000
4	RUN	DOT1X	687d.b4e3.0720	VCSU	Local-None	134.129.5.244	3636 ms	08:43:00:053 / 08:43:03:689		
5	RUN	DOT1X	McF-327-9120	VCSU	Local-None	2001:4930:3500:22:60f5:df68:ca9d:9708	109 ms	08:43:09:284 / 08:43:09:393		

## 3. 詳細客戶端會話 — 序列圖



## 從C9800 Web介面訪問工具

可以從C9800 WLC 「疑難排解」部分收集RA追蹤軌跡，並將其提供給調試分析器：

Cisco Catalyst 9800-CL Wireless Controller 17.3.2a

Welcome shankar

Search APs and Clients

Troubleshooting > Radioactive Trace

Conditional Debug Global State: **Stopped**

+ Add - Delete Start Stop

Wireless Debug Analyzer

MAC/IP Address	Trace file
1c1b.b523.085c	debugTrace_1c1b.b523.085c.txt

Generate

10 items per page 1 - 1 of 1 items

## 關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。