

Catalyst 9800 Event History Quick Reference Guide

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Introduction

This document describes quick references on listing historical events with the Catalyst 9800.

Structure

By leveraging the always-on logging capabilities of the 9800 platform, you can list events of a particular kind quickly and easily, provided that you know how the specific log lines looks like.

This article revolves around the use of the "**show logging profile wireless**" command mostly which goes through all the wireless related binary logs (that are always-on, even without enabling any form of active debugging).

The "start last <time period>" allows to go back until a certain period in the logs.

The command will output a lot of data on the terminal if you do not use the pipe to restrict your search, this is why all the examples use the pipe with specific events.

Client

Listing association requests received by an AP from a particular client during a specific amount of time:

```
myc9800-CL#show logging profile wireless start last 1 hour filter mac 9418.6548.6fb1 | i Association re
2024/07/30 08:55:58.981172447 {wncd_x_R0-0}{1}: [client-orch-sm] [19389]: (note): MAC: 9418.6548.6fb1 A
```

Listing clients that authenticated successfully:

```
myc9800-CL#show logging profile wireless start last 10 days | i Authentication Success
2020/09/26 16:41:21.397677 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [19680]: (note): Authentication Success.
```

```
2020/09/26 17:04:33.523999 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [19680]: (note): Authentication Success.
2020/09/26 17:21:59.892585 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [19680]: (note): Authentication Success.
2020/09/26 17:32:09.289109 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [19680]: (note): Authentication Success.
2020/09/26 17:41:58.123180 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [19680]: (note): Authentication Success.
```

Listing clients that got a successful IP address:

```
myc9800-CL#show logging profile wireless start last 10 days | i IP learn successful
2020/09/26 16:41:30.621520 {wncd_x_R0-0}{1}: [client-iplearn] [19680]: (note): MAC: 02c0.2901.34c8 Cli
2020/09/26 17:04:37.622905 {wncd_x_R0-0}{1}: [client-iplearn] [19680]: (note): MAC: d280.eb73.6044 Cli
2020/09/26 17:22:03.830465 {wncd_x_R0-0}{1}: [client-iplearn] [19680]: (note): MAC: 02c0.2901.34c8 Cli
2020/09/26 17:32:09.966598 {wncd_x_R0-0}{1}: [client-iplearn] [19680]: (note): MAC: 02c0.2901.34c8 Cli
2020/09/26 17:33:30.236544 {wncd_x_R0-0}{1}: [client-iplearn] [19680]: (note): MAC: 3cf7.a4ae.f607 Cli
```

RRM

Channel changes

```
9800# show logging profile wireless | include history-channel
2020/02/13 10:50:03.297 {wncd_x_R0-0}{2}: [radio-history-channel] [24955]: (note): Channel change for A
```

Noise and interference values

This would require to set "set platform software trace wireless chassis active r0 rrm rrm-client-dca info" in order to display the info in logs:

```
9800#show logging profile wireless start last x hours| include rrm-client-dca
2020/06/26 15:44:08.636988 {wncd_x_R0-0}{1}: [rrm-client-dca] [9853]: (info): f4bd.9e38.4200 (Radio: 80
2020/06/26 15:44:08.640828 {wncd_x_R0-0}{1}: [rrm-client-dca] [9853]: (info): f4bd.9e38.4200 (Radio: 80
2020/06/26 15:54:18.671638 {wncd_x_R0-0}{1}: [rrm-client-dca] [9853]: (info): f4bd.9e38.4200 (Radio: 80
2020/06/26 15:54:18.673055 {wncd_x_R0-0}{1}: [rrm-client-dca] [9853]: (info): f4bd.9e38.4200 (Radio: 80
```

DCA algorithm running

9800-17#show logging profile wireless start last boot | i Running DCA Algo

2020/02/14 16:23:09.177 {rrm_bg_R0-0}{1}: [rrm-mgr-dca] [22117]: (note): (Radio: 802.11a) Running DCA A