



# AIRMATCH TROUBLESHOOTING COMMANDS

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## Troubleshooting commands:

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### Enable debugging:

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(ArubaMM) \*[mynode] #configure t

Enter Configuration commands, one per line. End with CNTL/Z

**(ArubaMM) \*[mynode] (config) #logging system level debugging**

```
(ArubaMM) *[mynode] #show log system all | include Air
```

[illegible]

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| BEFORE: oper network band 2GHz narc 4.0 conflicts 0.0

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| ... Loading DB to Topology (DONE)

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| SIZING: band 5GHz: 1 RF domains Algorithm 14

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| SIZING: band 2GHz: 1 RF domains Algorithm 14

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| PARTITION: ...

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| PARTITION: ... DONE

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| COLORING: band 5GHz: 1 RF domains (Runmode 2)

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| COLORING: ALGO CIR for site1-rfd1-hgh-part0 1 radios 5GHz CBW20

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| COLORING: ALGO CIR for site1-rfd1-hgh-part0 1 radios 5GHz CBW40

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| CBW20 band 5GHz (capacity: 1.0/conflicts: 0.0/narc: 4.0), CBW40 band 5GHz (capacity: 2.0/conflicts: 0.0/narc: 2.0),

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| COLORING: band 2GHz: 1 RF domains (Runmode 2)

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| COLORING: ALGO CIR for site1-rfd1-hgh-part0 1 radios 2GHz CBW20

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| CBW20 band 2GHz (capacity: 1.0/conflicts: 0.0/narc: 4.0),

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| AFTER: solution band 5GHz narc 2.0 conflicts 0.0

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| AFTER: solution band 2GHz narc 4.0 conflicts 0.0

Dec 14 03:15:24 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| ... MCELL Solver (Done)

Dec 14 03:15:34 AirMatch[6258]: <356303> <6258> <DEBUG> |AirMatch| CLI CMD PASS: airmatch ap set ap-name AP-115 band 5GHz eirp 21

### How to check the airmatch history for an AP?

**(ArubaMM) \*[mynode] (config) #show airmatch debug history ap-name AP-115**

2GHz radio mac 18:64:72:ab:e6:40 ap name AP-115

```
-----
Time of Change   Chan      Bandwidth  EIRP(dBm)  Mode   Source
-----
2017-12-14 02:52:13  6->  11  20->  20  120-> 12  AP->AP  Solver
2017-12-14 02:51:03  1->   6  20->  20  120-> 12  AP->AP  Solver
2017-12-13 05:01:15  1->   1  20->  20  120-> 12  AP->AP  Solver
2017-12-12 05:01:17  1->   1  20->  20  120-> 12  AP->AP  Solver
2017-12-11 13:01:13  1->   1  20->  20  80-> 12  AP->AP  Solver
2017-11-20 13:01:45  1->   1  20->  20  9->  8  AP->AP  Solver
2017-11-19 13:01:46  1->   1  20->  20  8->  9  AP->AP  Solver
2017-11-13 13:01:28  1->   1  20->  20  7->  8  AP->AP  Solver
2017-11-11 13:01:28  1->   1  20->  20  8->  7  AP->AP  Solver
2017-11-09 13:01:19  11->  1  20->  20  12->  8  AP->AP  Solver
2017-11-09 05:01:16  6->  11  20->  20  9->  12  AP->AP  Solver
2017-10-27 05:01:15  6->   6  20->  20  25->  9  AP->AP  Solver
```

5GHz radio mac 18:64:72:ab:e6:50 ap name AP-115

```
-----
Time of Change   Chan      Bandwidth  EIRP(dBm)  Mode   Source
-----
2017-12-14 02:51:13  44->  44  40->  40  210-> 21  AP->AP  Solver
2017-12-14 02:50:03  40->  44  40->  40  210-> 21  AP->AP  Solver
2017-12-13 05:00:15  40->  40  40->  40  210-> 21  AP->AP  Solver
2017-12-12 05:00:17  40->  40  40->  40  210-> 21  AP->AP  Solver
```

```

2017-12-11 13:00:13  40->  40  40->  40  150-> 21  AP ->AP  Solver
2017-11-21 08:31:56  36->  40  40->  40   15-> 15  AP ->AP  Solver
2017-11-13 13:00:28  36->  36  40->  40   16-> 15  AP ->AP  Solver
2017-11-12 13:00:28  36->  36  40->  40   15-> 16  AP ->AP  Solver
2017-11-10 13:00:19  36->  36  40->  40   16-> 15  AP ->AP  Solver
2017-11-09 13:00:19  64->  36  40->  40   21-> 16  AP ->AP  Solver
2017-11-09 05:00:16  64->  64  40->  40   18-> 21  AP ->AP  Solver
2017-10-27 05:00:15  64->  64  40->  40   22-> 18  AP ->AP  Solver

```

### Checking neighbor information.

```
=====
```

```

(ArubaMM) *[mynode] (config) #show airmatch debug nbr ap-name AP-115 | begin 5GHz
5GHz  radio mac 18:64:72:ab:e6:50 ap name AP-115

```

```

-----
Nbr Mac      Is Friend Path Loss(dB) Channel    Last Update    AP Name
-----
ac:a3:1e:00:a6:90  *      40        60  2017-12-14 02:53:13
84:d4:7e:bd:91:10  *      84        36  2017-12-14 02:53:13
84:d4:7e:d3:61:b0      59       108  2017-12-14 02:53:13
ac:a3:1e:57:48:d0      60       149  2017-12-12 06:17:56
34:fc:b9:2b:10:50      61       161  2017-12-14 02:53:13
18:64:72:a0:73:b0      63        36  2017-12-14 02:53:13
18:64:72:ab:e9:70      63        56  2017-12-14 02:53:13
40:e3:d6:5e:51:f0      63        36  2017-12-14 02:53:13

```

**Check the last optimization:**

**(ArubaMM) \*[mynode] #show airmatch debug optimization last**

# 2017-12-14\_03:15:16 Quick

# 5GHz network cost/solution cost/improvement: 2/2/0%

# 2.4GHz network cost/solution cost/improvement: 4/4/0%

#	Band	Radio	RF	Dom	Part	Chan	CBW	EIRP(dBm)	APName
		ID			ID				

-----

2GHz	18:64:72:ab:e6:40	001	000	6	20	12	AP-115
------	-------------------	-----	-----	---	----	----	--------

5GHz	18:64:72:ab:e6:50	001	000	44	40	21	AP-115
------	-------------------	-----	-----	----	----	----	--------

[\*] regarded frozen | [i] channel ignored because insufficient quality increase

(ArubaMM) \*[mynode] #

**How to check static radios:**

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(ArubaMM) \*[mynode] #show airmatch debug static-radios

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db-dump complete. File name is 'airmatch\_db\_dump.tgz'

```
-rw-r--r-- 1 root   root    74245 Dec 11 04:17 AUDITTRAIL-HISTORY.log
-rw-r--r-- 1 root   root   19536 Dec 11 04:17 AUDITTRAIL-LOGIN_OUT-HISTORY.log
-rw-r--r-- 1 root   root  2181979 Dec 14 03:12 airmatch_db_dump.tgz
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
drwxr-sr-x 4 root   root     4096 Sep 15 06:15 archives
```

```
(ArubaMM) *[mynode] #show airmatch debug feasibility ap-name AP-115
```

Field	Value
-----	-----
Mac	18:64:72:ab:e6:40
Last Update	2017-12-14 03:38:18
Chan 20MHz	1,6,11



Chan 40MHz

Chan 80MHz

Chan 160MHz

Bandwidth 20MHz

Config BW range(MHz) 20 - 20

Hardware BW range(MHz) 20 - 40

EIRP(dBm) 6 - 12

Config EIRP range(dBm) 6 - 12

Hardware EIRP range(dBm) 3 - 25

EIRP Offset(dB) 0

Update Reason Periodic Update

Field Value

-----

Mac 18:64:72:ab:e6:50

Last Update 2017-12-14 03:38:17

Chan 20MHz 36,40,44,48,52,56,60,64,149,153,157,161,165

Chan 40MHz 36,44,52,60,149,157

Chan 80MHz

Chan 160MHz

Bandwidth 20MHz,40MHz

Config BW range(MHz) 20 - 80

Hardware BW range(MHz) 20 - 40

EIRP(dBm) 15 - 21

Config EIRP range(dBm) 15 - 21

Hardware EIRP range(dBm) 4 - 22

EIRP Offset(dB) 0

Update Reason Periodic Update

**END**