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Chapter 1 Commands for AirMatch Configuration

1.1 agetime air-match <0-300>

Command: agetime air-match <0-300>

no agetime air-match

Function: Configure the agetime of the AirMatch terminal table entry.

Parameters: <0-300>: 0: it does not age; 1-300: the agetime of the AirMatch terminal table entry, the unit is minute.

Default: 60 minutes.

Command Mode: Wireless Configuration Mode.

Usage Guide: Configure the agetime of the AirMatch terminal table entry. When the optimal candidate AP is still not updated after the agetime, this terminal information will be deleted, and the same time, the message of deleting the white list will be issued to the optimal candidate AP of the terminal. The command of show wireless agetime can be used to show the configured agetime.

Example: Configure the agetime of the AirMatch terminal table entry as 30 minutes. And use the command of show wireless agetime to view the configured agetime. (Air-Match Client Age Time is 30)

```
AC(config-wireless)#agetime air-match 30
```

```
AC(config-wireless)#show wireless agetime
```

```
Ad Hoc Client Status Age (hours)..... 24
```

```
AP Failure Status Age (hours)..... 24
```

```
RF Scan Status Age (hours)..... 24
```

```
Detected Clients Age (hours)..... 24
```

```
AP Provisioning Database Age Time (hours)..... 72
```

```
Spectral Scan Status Age Time (minutes)..... 15
```

```
WDS List Age Time (minutes)..... 60
```

```
Air-Match Client Age Time (minutes)..... 30
```

1.2 ap air-match template <1-16>

Command: ap air-match template <1-16>

no ap air-match template

Function: Create/delete the AirMatch template.

Parameters: <1-16>: the ID number of the configured template.

Default: The template 1 exists as default and it cannot be deleted.

Command Mode: Wireless Configuration Mode.

Usage Guide: If the current configured template does not exist, create it of this ID. Otherwise, enter into the AirMatch template mode. After configured the template, the command of air-match template <1-16> can be used to associate the template with the AP profile under the AP profile config mode. The no command deletes the appointed template. If the template is being used, it cannot be deleted.

Example: Create the AirMatch template 2.

```
AC(config-wireless)#ap air-match template 2
```

```
AC(config-air-match)#
```

1.3 air-match ap-deny-client

Command: air-match ap-deny-client

no air-match ap-deny-client

Function: Enable/disable the function that AP denies the association request of the client which is not in the white list three times in 30 seconds.

Parameters: None.

Default: Disable.

Command Mode: AirMatch Template Mode.

Usage Guide: After enabled AirMatch, the AP which is not the optimal AP will not reply probe to the terminal which is not in the white list. The terminal will not choose to associate with this AP. For some special terminals, they will be tried for association. For these terminals, this command can be used to configure the function that AP denies the association request of the client which is not in the white list three times in 30 seconds. The no command disables this function.

Example: Enable the function that AP denies the association request of the client which is not in the white list three times in 30 seconds.

```
AC(config-wireless)#ap air-match template 1
```

```
AC(config-air-match)#air-match ap-deny-client
```

1.4 air-match ap-force-deauth-client

Command: air-match ap-force-deauth-client

no air-match ap-force-deauth-client

Function: Enable/disable the function that AP forces to reauthenticate with the terminal which is not in the white list.

Parameters: None.

Default: Disable.

Command Mode: AirMatch Template Mode.

Usage Guide: This command can be used to configure the function that AP forces to reauthenticate with the terminal which is not in the white list. After enabled this function, AP will reauthenticate with the terminal if it is not in the white list of the associated AP when the signal of the associated AP is lower than -70dbm. The no command disables this function.

Example: Enable the function that AP forces to reauthenticate with the terminal which is not in the white list.

```
AC(config-wireless)#ap air-match template 1
```

```
AC(config-air-match)#air-match ap-force-deauth-client
```

1.5 air-match ap-report-interval <1-60>

Command: air-match ap-report-interval <1-60>

no air-match ap-report-interval

Function: Configure the interval of AP reporting on the appointed AirMatch template.

Parameters: <1-60>: the interval of AP reporting, the unit is second.

Default: 15 seconds.

Command Mode: AirMatch Template Mode.

Usage Guide: Configure the interval of AP reporting on the appointed AirMatch template. The reported information includes work channel, channel usage, average data rate. The no command recovers it to be the default value of 15.

Example: Configure the interval of AP reporting as 30 seconds.

```
AC(config-wireless)#ap air-match template 1
```

```
AC(config-air-match)#air-match ap-report-interval 30
```

1.6 air-match load-balance {session | traffic}

Command: air-match load-balance { session | traffic}

no air-match load-balance

Function: Enable the load-balance function of the AP which is configured AirMatch template. And configure the load-balance mode.

Parameters: session: the load-balance mode is session mode;

traffic: the load-balance mode is traffic mode.

Default: Disable.

Command Mode: AirMatch Template Mode.

Usage Guide: Enable the load-balance function of the AP which is configured AirMatch template. And configure the load-balance mode as session or traffic. The no command

disables the load-balance mode.

Example: Enable the load-balance function and configure the load-balance mode as traffic.

```
AC(config-wireless)#ap air-match template 1
```

```
AC(config-air-match)#air-match load-balance traffic
```

1.7 air-match load-balance session <1-256>

Command: air-match load-balance session <1-256>

no air-match load-balance session

Function: Configure the number of terminals which can be associated with AP in the load-balance session of the appointed AirMatch template.

Parameters: <1-256>: the number of terminals which can be associated with AP in the load-balance session

Default: 15.

Command Mode: AirMatch Template Mode.

Usage Guide: Configure the number of terminals which can be associated with AP in the load-balance session of the appointed AirMatch template.

Example: Enable the load-balance function and configure the load-balance mode as session, configure the threshold as 4.

```
AC(config-wireless)#ap air-match template 1
```

```
AC(config-air-match)#air-match load-balance session
```

```
AC(config-air-match)#air-match load-balance session 4
```

1.8 air-match load-balance traffic <1-100>

Command: air-match load-balance traffic <1-100>

no air-match load-balance traffic

Function: Configure the threshold of data traffic on AP in the load-balance traffic of the appointed AirMatch template.

Parameters: <1-100>: the threshold of data traffic on AP in the load-balance traffic, the unit is Mbps.

Default: 60Mbps.

Command Mode: AirMatch Template Mode.

Usage Guide: Configure the threshold of data traffic on AP in the load-balance traffic of the appointed AirMatch template.

Example: Enable the load-balance function and configure the load-balance mode as traffic, configure the threshold as 10Mbps.

```
AC(config-wireless)#ap air-match template 1
```

```
AC(config-air-match)#air-match load-balance traffic
AC(config-air-match)#air-match load-balance traffic 10
```

1.9 air-match template <1-16>

Command: air-match template <1-16>

no air-match template

Function: Configure the AirMatch template for the appointed AP profile.

Parameters: <1-16>: the ID number of the configured template.

Default: The AirMatch template is empty (AirMatch is disabled).

Command Mode: AP Profile Configuration Mode.

Usage Guide: Configure the AirMatch template for the appointed AP profile. After configured the template, all the APs under the profile will be enabled the AirMatch function. The no command disables the AirMatch function.

Example: Configure AirMatch template 1 for AP profile 1.

```
AC(config-wireless)#ap profile 1
AC(config-ap-profile)#air-match template 1
```

1.10 show wireless air-match template [<1-16>]

Command: show wireless air-match template [<1-16>]

Function: Show the parameters of the AirMatch template.

Parameters: <1-16>: the ID number of the configured template.

Default: None.

Command Mode: Admin Mode.

Usage Guide: If the template ID is not appointed in this command, only the current useful AirMatch templates and their AP reporting interval, enabled load-balance mode will be shown. If the template ID is appointed, the detailed parameters of this template will be shown.

Example: Show the detailed parameters of AirMatch template 1.

```
AC#show wireless air-match template 1
```

```
Template ID..... 1
AP report interval(seconds)..... 30
AP deny client Mode..... Enable
AP force deauth client Mode..... Enable
Load-balance..... Traffic
Session Threshold..... 4
Traffic Threshold..... 10 Mbps
```

Whitelist Valid Time..... 3 seconds
SNR Weight(percent)..... 50
Collect Duration..... 1000 millisecs

Chapter 2 Commands for AirMatch Debugging

2.1 debug wireless ap <macaddr> air-match report {trace|receive|dump}

Command: debug wireless ap <macaddr> air-match report {trace|receive|dump}
no debug wireless ap <macaddr> air-match report {trace|receive|dump}

Function: Enable/disable the debug on-off of dealing with the AirMatch report.

Parameters: macaddr: the MAC address of the AP which uploads the AirMatch report;
trace: show the trace information;
receive: show the dealing information of receiving packet;
dump: show the detailed information of the packet.

Default: Disable.

Command Mode: Admin Mode.

Usage Guide: This command is used to enable the debug on-off of dealing with the AirMatch report. It will show the debug information of AP reporting the AirMatch. The no command disables it. The command of show debug other can be used to show the debug which is enabled by this command, the command of no debug all can be used to disable the debug.

Example: Enable the debug on-off of the dealing information that the AP whose MAC address is 00-03-0f-cc-d1-00 deals with AirMatch report and receives the packet.

AC#debug wireless ap 00-03-0f-cc-d1-00 air-match report receive

MAC:00-03-0f-cc-d1-00 packet

WD_LEVEL_WIRELESS_AIRMATCH_REPORT_PKT_RX debug is on

2.2 debug wireless ap <macaddr> air-match whitelist {trace|send|dump}

Command: debug wireless ap <macaddr> air-match whitelist {trace|send|dump}
no debug wireless ap <macaddr> air-match whitelist {trace|send|dump}

Function: Enable/disable the debug on-off of dealing with issuing the AirMatch white list.

Parameters: macaddr: the MAC address of the AP with the white list;
trace: show the trace information;
send: show the debug information of sending data packet;

dump: show the detailed information of the packet.

Default: Disable.

Command Mode: Admin Mode.

Usage Guide: This command is used to enable the debug on-off of dealing with issuing the AirMatch white list. It will show the debug information of AC issuing the AirMatch white list to AP. The no command disables it. The command of show debug other can be used to show the debug which is enabled by this command, the command of no debug all can be used to disable the debug.

Example: Enable the debug on-off of the debug information that the AP whose MAC address is 00-03-0f-cc-d1-00 deals with the issuing AirMatch white list and sends the data packet.

AC#debug wireless ap 00-03-0f-cc-d1-00 air-match whitelist send

MAC:00-03-0f-cc-d1-00 packet

WD_LEVEL_WIRELESS_AIRMATCH_WHITELIST_PKT_TX debug is on

2.3 debug wireless client <macaddr> air-match detail

Command: debug wireless client <macaddr> air-match detail

no debug wireless client <macaddr> air-match detail

Function: Enable/disable the debug on-off of dealing with calculating AirMatch white list.

Parameters: macaddr: the MAC address of the STA which calculating the optimal candidate AP.

Default: Disable.

Command Mode: Admin Mode.

Usage Guide: This command is used to enable the debug on-off of dealing with with calculating AirMatch white list. It will show the debug information of AC calculating the AirMatch white list. The no command disables it. The command of show debug other can be used to show the debug which is enabled by this command, the command of no debug all can be used to disable the debug.

Example: Enable the debug on-off of the terminal whose MAC address is 00-0d-0a-30-9a-80 calculating the white list.

AC#debug wireless client 00-0d-0a-30-9a-80 air-match detail

MAC:00-0d-0a-30-9a-80 detail WD_LEVEL_WIRELESS_AIRMATCH_DETAIL debug is on

2.4 show wireless client [<macaddr>] air-match status

Command: show wireless client [<macaddr>] air-match status

Function: Show the optimal candidate AP which is calculated by the terminal.

Parameters: macaddr: the MAC address of the terminal.

Default: None.

Command Mode: Admin Mode.

Usage Guide: Show the optimal candidate AP which is calculated by the terminal. If there is no MAC address, show the optimal candidate APs of all the terminal.

Example: Show the optimal candidate AP information of the terminal whose MAC address is 00-0d-0a-30-9a-80.

AC#show wireless client 00-0d-0a-30-9a-80 air-match status

Best AP MAC	SSID	SNR	SNRCURLevel
LastUpdatedTime			

00-01-7a-f7-05-20(1) 0xuwf801	14	1	0d:00:11:48
00-03-0f-cc-d1-00(2) xuwf802a	9	3	0d:00:00:10

2.5 show wireless client auth-client air-match status

Command: show wireless client auth-client air-match status

Function: Show the optimal candidate AP which is calculated by all the online terminals.

Parameters: None.

Default: None.

Command Mode: Admin Mode.

Usage Guide: Show the optimal candidate AP which is calculated by all the online terminals.

Example: Show the optimal candidate AP which is calculated by all the online terminals.

AC#show wireless client auth-client air-match status

Client MAC	Best AP MAC	SSID
(*) Peer Managed		
LastUpdatedTime		

98-ff-d0-3c-2d-1d 00-03-0f-cc-d1-00(1)	0test801	0d:00:43:45

ec-85-2f-6a-40-10 00-01-7a-f7-05-20(1)	0test801	0d:00:00:06
Total Associated Clients..... 2		