

Airtune

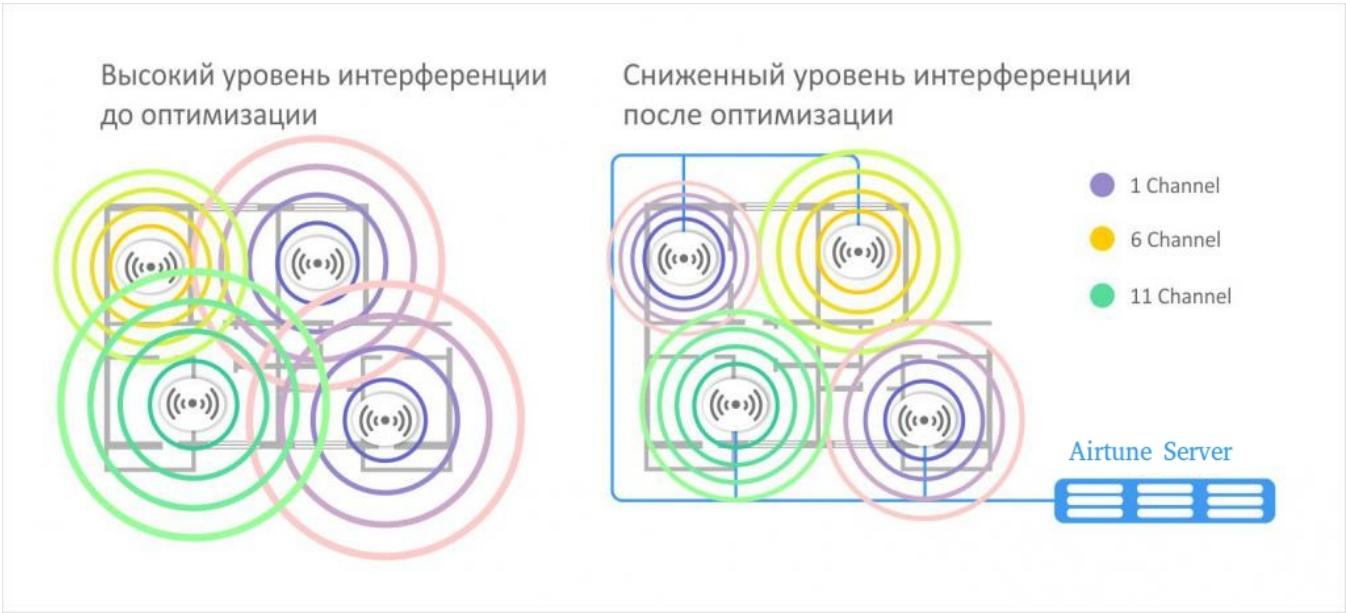
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Enterprise&High-Density Wi-Fi Airtune, Radio Resource Management (RRM).
Radio Resource Management . RRM , , .








- : – Airtune.
(ActionFrame) - . , " " , .
- :
- Dynamic Channel Assignment (DCA)-
 - Transmit Power Control (TPC) - " " ,
 - Load Balancing - , , .

- :
- ;
 - (");
 - ;
 - « » ;
 - ;
 - " " ;
 - " " « ».


(DCA+TPC):




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	service eltex-rrm-service status	<div> eltex-rrm-service is running with pid <pid></div>
		<div> eltex-rrm-service is not running</div>
	service eltex-rrm-service start	<div> Starting eltex-rrm-service ... eltex-rrm-service started</div>
		<div> eltex-rrm-service is already running</div>
	service eltex-rrm-service stop	<div> Stopping eltex-rrm-service ... eltex-rrm-service stopped</div>
		<div> , ... eltex-rrm-service is not running rm: cannot remove '/var/run/eltex-rrm-service.pid': No such file or directory</div>
	service eltex-rrm-service restart	<div> Stopping eltex-rrm-service ... eltex-rrm-service stopped Starting eltex-rrm-service ... eltex-rrm-service started</div>

Airtune

 1.14.0.140 Airtune 1.0.0.35

 , Limit channels .

- 2.4 : 1, 6, 11.
- 5: 36,40,44,48,52,56,60,64.



TPC,DCA,Load Balancing .

, - , , (, , , .

GUI EMS / CLI.

EMS:

RRM , Service URL =

ws://<IP RRM>:8099/apb/rrm

Описание	Пользователи Wi-Fi	Мониторинг конкурентных ТД	Мониторинг	Конфигурация
Сеть				
Беспроводной доступ				
Радио интерфейсы				
Виртуальные точки доступа				
Key holder data				
Global RADIUS				
QoS. Main				
QoS. EDCA parameters				
Client QoS. Global				
Client QoS. Class Map				
Client QoS. Policy Map				
WDS				
Captive Portal. Global				
Captive Portal. Instance				
Cluster. Main				
RRM сервис				
Системное время				
Системные события				
SNMP				
SNMP trap				
CLI/telnet				
CLI/ssh				

Обновить

Редактировать

В XML

Status Up

Service URL ws://172.16.0.134:8099/apb/rrm

<IP RRM> - Airtune (RRM), .

CLI:

```
set rrm rrm-service up
set rrm rrm-service-url ws://<IP RRM>:8099/apb/rrm
```

WEB Airtune

Radio Resource Management GUI EMS/CLI. .

RRM WEB :

http://<IP RRM>:8089

<IP RRM> - RRM, .

Global Settings

.

Main configure

Enabled

☒


Domain limit

RRM port


Apply config

Enabled	/
Domain limit	- ,
RRM port	

Domain Configurations



(ap-location)



common config

Configure 8 domains

Configure 'floor-1.building-1.root'

Search or add domain add

- common config
- floor-0.building-1.root
- floor-1.building-1.root
- floor-2.building-1.root
- floor-3.building-1.root
- floor-4.building-1.root
- floor-5.building-1.root

Connection TPC/DCA Load Balance

Use Eltex RRM scan ☒

Optimization interval, sec

TPC configure

Use TPC ☐

AP RSSI Threshold 2.4GHz, dBm

AP RSSI Threshold 5GHz, dBm

Hysteresis 2.4GHz, dBm

Hysteresis 5GHz, dBm

DCA configure

Use DCA ☒

Apply config Remove config

add	
Away timeout	. (/),
AP limit	
Use Eltex RRM scan	Action () . 1 (2.4) 36 (5) Action , (RSSI). Use Action frames Probe Request/Response. Action frames (), (Probe Response)
Optimization Interval	. 0 - 1 , /
Use TPC	/ Transmit Power Control - . ""
AP RSSI Threshold 2.4 Ghz	RSSI 2.4 . RSSI , RSSI Threshold (RSSI_ > RSSI_Threshold), (RSSI_ < RSSI_Threshold). -70dbm
AP RSSI Threshold 5Ghz	RSSI 5 . RSSI , RSSI Threshold (RSSI_ > RSSI_Threshold), (RSSI_ < RSSI_Threshold). -70dbm
RSSI Threshold Hysteresis 2.4Ghz	2.4 . "" , RSSI Threshold+-2dbm,
RSSI Threshold Hysteresis 5Ghz	5 . "" , RSSI Threshold+-2dbm,
Use DCA	/ Dynamic Channel Assignment -
Use Load Balance	/ Load Balance - , ,
Blacklist high threshold	RSSI , ""
Blacklist low threshold	RSSI , , " " . "" ,
Load balance high STA threshold	,
Load balance low STA threshold	, (,). - -

Use All AP for Load balance	. - , .(,). , .(,)
Reset APs	.(,)
Apply config	
Remove config	

Domains

RRM

Global SettingsDomain ConfigurationsSessionsDomains

Refresh data from server

6 domains

Domain name	APs	Deleted APs	Unanswered APs
floor-0.building-1.root	2	0	0
floor-1.building-1.root	3	0	0
floor-2.building-1.root	7	0	0
floor-3.building-1.root	4	0	0
floor-4.building-1.root	3	0	0
floor-5.building-1.root	2	0	0

Radio InterfacesVisible MembersRogue APs

AP: A8:F9:4B:B6:01:40

MAC	Status	Locked for TPC/DCA	Clients	Channel	Bandwidth	Power	Max. Power	Available channels
↗ A8:F9:4B:B6:01:40	1	0 / 0	2	44	20	19	19	36, 40, 44, 48, 52, 56, 60, 64,
↗ A8:F9:4B:B6:01:50	1	0 / 0	4	6	20	16	16	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,

APs 3, Domain: floor-1.building-1.root

A8:F9:4B:B6:01:40	WEP-2ac
E0:D9:E3:73:49:60	WEP-2ac Smart
E0:D9:E3:73:52:00	WEP-2ac Smart

Domain name	(AP-location). .
AP's	
Deleted AP's	(away timeout)
Unanswered AP's	,
Mac	Mac .
Status	
Locked for TPC/DCA	Airtune, WDS/Mesh
Clients	
Channel	
Bandwidth	
Power	
Max.Power	
Avaiable channels	. (Limit channels)