

Failover Example – WiFi Client as Primary and Mobile as Secondary

1. Set mobile connection.

Status	General Data Limitation	
System		4
Services	Mobile Configurat	tion
Network	SIM 1	
Operation Mode	Enable	9
Mobile	Enable	<u>«</u>
LAN	Mobile connection	pppd mode 🔻
Wired WAN	ADN	Sanet
WAN IPv6	AFN	Jyner
Interfaces	PIN code	
Wi-Fi		
Firewall	Dialing number	*99#
Static Routes	Authentication method	None •
Switch		
DHCP and DNS	Network Type	automatic •
Diagnostics	MTU	1500
Loopback Interface		
Hostnames	Online mode	Keep Alive
Dynamic Routing		
QoS		
Logout		

2. Check the mobile connection status at status page, make sure the status is up.

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Status	Status	
Overview	System	
Network	oysem	
Firewall	Hostname	Cell_Router
Routes	SN	860400153A00005B
System Log	Firmware Version	3.2.24
Kernel Log	Kernel Version	3.18.29
Reboot Log Realtime Graphs	Local Time	Sat Sep 10 03:20:56 2016
VPN	Uptime	0h 32m 0s
System	Load Average	0.43, 0.26, 0.20
Services		
Network	Mobile 1	
Logout	Celluar Status	Up
	IP Address	10.211.108.98/255.255.255.255
	DNS 1	119.6.6.6
	DNS 2	
	Cell Modem	Ericsson_F5321_HP (03F0_3D1D)
	IMEI/ESN	359166048969170
	Sim Status	SIM Ready

3. Open Wi-Fi page and click button "AP Client", then waiting wireless scanning finish.

Status	radio0: Master "Cell_AP_0002b2"			
System				
Services	WI-FI Overview			
Network	(init) Generic MAC80211 802.11bgn (radio0)			
Operation Mode	Channel: 11 (2.462 GHz) Bitrate: ? Mbit/s			
Mobile	SSID: Cell_AP_0002b2 Mode: Master			
LAN				
Wired WAN	Associated Stations			
WAN IPv6				
Interfaces	SSID MAC-Address IPv4-Address Signal Noise RX Rate TX Rate			
Wi-Fi				
Firewall	No information available			
Static Routes				
Switch				
DHCP and DNS				
Diagnostics				
Loopback Interface				
Hostnames				
Dynamic Routing				
QoS				

4. If the Wi-Fi you want to join is not in the list, Click button "Repeat scan" to scan it again. If it is in the list, click button "Join Network" accordingly.

Status	Join Network: Wireless Scan	
System Services	42% Tenda_3091F0 Channel: 8 Mode: Master BSSID: C8:3A:35:30:91:F0 Encryption: mixed WPA/WPA2 - PSK	Join Network
Network	37% cisco_denty Channel: 7 Mode: Master BSSID: 64:9E:F3:87:0D:58 Encryption: mixed WPA/WPA2 - PSK	Join Network
	34% TP-LINK_AEE4 Channel: 11 Mode: Master BSSID: EC:26:CA:01:AE:E4 Encryption: mixed WPA/WPA2 - PSK	Join Network
	34% 2703 Channel: 1 Mode: Master BSSID: D8:15:0D:7B:FB:DC Encryption: mixed WPA/WPA2 - PSK	Join Network
	34% bcs-Iq-home 2.4 Channel: 6 Mode: Master BSSID: 80:89:17:AC:10:7B Encryption: mixed WPA/WPA2 - PSK	Join Network
	Tenda_301800 Channel: 8 Mode: Master BSSID: C8:3A:35:30:18:00 Encryption: <u>WPA - PSK</u>	Doin Network
	31% AQS-777 Channel: 9 Mode: Master BSSID: D4:EE:07:1D:78:68 Encryption: mixed WPA/WPA2 - PSK	Join Network
	25% dong Channel: 11 Mode: Master BSSID: EC:26:CA:EF:19:E4 Encryption: mixed WPA/WPA2 - PSK	Join Network
	26% ChinaNet-xFsW Channel: 2 Mode: Master BSSID: 64:5D:92:A1:7E:69 Encryption: mixed WPA/WPA2 - PSK	Din Network
	Back to overview Q Repeat scan	

5. After click button "Join Network", this settings page is shown. Input the password of the wireless device you selected, and click button "Submit"

Status	Join Network: Set	tings	
System	Replace wireless configuration	×	
Services	WDA passphrasa		
Network	WPA passpillase		
Logout			
		[Submit Back to scan results

6. Make sure the ESSID/BSSID are not empty, and the Mode shall be "Client". Don't change Operating frequency. Then click button "Save & Apply".

Failover Example

Status	radio0: Client "cisco_denty"					
System						
Services	WI-FI Network: Client "cisco_denty" (wian0)					
Network	among all defined Wi-Fi networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the data capacity of the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in					
Operation Mode	the Interface Configuration.					
Mobile	Device Configuration					
LAN	General Setup Advanced Settings					
Wired WAN						
WAN IPv6	Status Mode: Client SSID: cisco_denty					
Interfaces	Channel: 11 (2.462 GHz) Tx-Power: 20 dBm					
Wi-Fi	Signal: 0 dBm Noise: 0 dBm Bitrate: 0 0 Mbit/s Country: 00					
Firewall						
Static Routes						
Switch	WI-FI IIelwork is enabled					
DHCP and DNS	Mode Channel Width					
Diagnostics	Operating requency					
Loopback Interface	Transmit Power 20 dBm (100 mW) *					
Hostnames						
Dvnamic Routing						
	Interface Configuration General Setup Wireless Security					
	ESSID cisco_denty					
	Mode Client v BSSID 64:9E:F3:87:0D:58					

7. Then we can the Wi-Fi client is in the Wi-Fi Overview page. Note: there is no Wi-Fi AP again, if you need a Wi-Fi AP, click button "Add" to add one.

Back to Overview

Network

1

lan: 🕎

wan: 🕎

wan6: 🕎

wwan: 🧕

create:

Save & Apply

Save Reset

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Status	radio0	: Client "cisco_	denty"						
System		•							
Services	WI-F	Overvi	ew						
Network		Generic	MAC80211 802.11	oan (radio0)			D Wife Poctart	AB Client	to Add
Operation Mode		Channel:	7 (2.442 GHz) Bitrate	1 Mbit/s			I Win Restart	AF Client	Add
Mobile		42% BSSID: 0	cisco_denty Mode: Cli	ent	DRK (NONE	、 、	🔞 Disable 🛛 🖉	Edit	Remove
LAN		BSSID	64.9E.F3.87.0D.38 E	incryption: WPA2	PSK (NUNE)			
Wired WAN	Asso	ciated S	Stations						
WAN IPv6									
Interfaces		SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate	
Wi-Fi	li.	cisco_denty	64:9E:F3:87:0D:58	?	-80 dBm	0 dBm	1.0 Mbit/s, MCS 0, 20MHz	1.0 Mbit/s	, MCS 0, 20MH
Firewall									
Static Routes									
Switch									
DHCP and DNS									
Diagnostics									
Loopback Interface									
Hostnames									
Dynamic Routing									
QoS									

8. Open "Failover" configuration page, click checkbox "Enable", set Primary to Wifi_client, set Secondary to "Cell_mobile", set Thrid to "None". (Note: if the third one is real needed, we can set it to "Wired_wan", it cannot be same as Primary or Secondary.). Click button "Save & Apply".

Status	Failover Configrat	tion
System	Failover Settings	
Services	Enable	
ICMP Check		
VRRP	Back to High priority	×
Failover		
SNMP	Primary Configuration	
DTU	Primary	Wifi client 🔹
GPS		
SMS	Host1 to ping	192.168.20.1
VPN	Host2 to ping	
DDNS	nostz to ping	
Connect Radio Module	Ping timeout	1
Network	Mau Datria	10
Logout	Max Retries	10
	Interval between ping	30



Secondary Configuration			
Secondary	Cell_mobile v		
Host1 to ping	10.64.64.64		
Host2 to ping			
Ping timeout	1		
Max Retries	10		
Interval between ping	30		

Third Configuration

Third	None 🔻
Host1 to ping	
Host2 to ping	
Ping timeout	1
Max Retries	10

9. If mobile connection is up, after enabling failover, mobile connection will be set to down automatically, and the Wi-Fi client acts as WAN port.

Manual Check If The Settings Is Working Or Not

1) Set Wi-Fi client to disable manually, router WAN port will switch to Mobile after 10 *30 (Max Retries * Interval Between ping) seconds.

Failover Example



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2) After mobile connected, set Wi-Fi client to enable, Wi-Fi client will acts as WAN port and mobile will be down in 30 seconds(Interval between ping).