DIGI

Drop-in Mode for Digi Cellular Solutions

This tech brief describes how to implement "drop-in mode" with Digi cellular products. In this mode, you can insert the <u>Digi cellular router</u> into the customer network between the firewall and the existing network access router to provide cellular backup and WAN bonding services without affecting the customer network architecture or firewall configuration.

Drop-in mode requires two available Ethernet ports and an Internet connection with a static IP address. The router uses the static IP address on one Ethernet port, the WAN interface, and then uses pass-through mode to pass that address through to a second Ethernet port. This second Ethernet port then connects to the WAN port on the existing customer firewall.

Figure 1 shows a configuration employing a Digi EX50 router. The original ISP gateway's static IP address is 10.251.3.1. This IP address is set up as a static IP on the Digi EX50 WAN interface, and then ETH1 connects to the ISP gateway.

A new interface, called "DIM" in the example, is configured with type *passthrough* and device *ETH2*. A high metric (10 or more) is assigned so that it does not take priority over WAN interfaces. Then ETH2 is connected to the WAN port on the firewall. Note: You must ensure ETH2 is removed from the default bridge.



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Follow these steps to configure drop-in mode as shown in Figure 1. Figure 2 shows the relevant sections from the device configuration menu.

- Inder Network → Interfaces → WAN, configure the 10.251.3.105 static IP address.
- B Under Network → Interfaces, create a new interface (named "DIM" in this example) and make the following changes:
 - Interface type: Passthrough
 - Zone: Internal
 - Device: ETH2
 - Source interfaces: WAN
 - IPv4 metric: 10 (or any high number so it doesn't take priority over the WANs)
- C Under Network → Bridges → LAN, make sure the ETH2 interface is removed from the default bridge.
- Configure WAN Bonding using the instructions provided in the Digi <u>user guide</u>.

Drop-in mode enables a Digi router to provide wireless network backup services, including seamless failover with WAN bonding, to an existing network without needing to make any changes to the firewall or network configuration.

SD-WAN			
WAN bonding			
Enable (requires DigiRM license)			
* Servers			-
* Server			
Hostname	172.233.215.86		
Host Port	443		
Channel UDP Listener Port	44343		
► Server			
		A	dd Server 🕇
unnel username	nateTest1		
unnel password			
lode	Bonding	•	
one	External	•	
letric	0		
Veight	10		
Bonding interfaces			
▼ Interfaces			
Interface	Interface: WAN1	•	
Mode	Cellular Optimized for Speed	•	***

<u>Contact your Digi representative</u> for more information on drop-in mode or any other Digi products and services.

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Figure 2. Device Menu Sections Implementing drop-in mode

- MALERIA			
* Interfaces			
+ LANI			
► LAN hotspot			
* WANI			
Enable Interface type	C)		
Zone	Ethernet		
Device	external	•	
	Device: ETM1		
► 802.1x			
+ IPv4			
Enable			
Туре	Static IP address	•	
Metric	3		
Weight	10		
Management priority	0		
МТО	1500		
Use DNS	When primary default route		
Force link	\bigcirc		
Audress	10.251.3.105/24		
Default gateway	10.251.3.1		
 DNS servers 			
DIM			
nable			
iterface type	IP Passthrough	•	
one	Internal	•	
evice	Device: ETH2	•	
Source Interfaces			
Interface			
	WANI		
			Add Interface
acket filtering	8		
ncillary addressing	00		
ncillary address/netmask			
ncillary gateway			
ncillary DNS redirect			
erver type	DHCP server	•	
► 802.1x			
v IPv4			
Enable			
Metric	10		
Weight	10		
Management priority	0		
мти	1500		
Use DNS	Abarra		
	Printy		
Bridges			
* LANI			
Enable			
	Standard	٠	
Bridge type			
Bridge type Auto MAC assignment			
Bridge type Auto MAC assignment > STP			
Auto MAC assignment STP V Devices			
Auto MAC assignment Auto MAC assignment The STP Device Device	C Rever F1H		
Auto MAC assignment STP Device Device	Device: ETH3	•	
Auto MAC assignment STP	Device: ETH3 Device: ETH4 Weil server while Plan Marrier Tri Weil server while Plan Marrier Tri	•	
Auto MAC assignment STP	Device: ETH3 Device: ETH4 WH F1 access point: Dig AP (WH F11) WH F1 access point: Dig AP (WH F11)	•	

