

# Release Notes MLTG-360

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### 1. Issue Fixed

- Power interruption during boot up process will not make the device bricked anymore.
- In Bridge Mode, the data traffic from LAN side devices and from the LAN side devices of other MLTG-360 or MLTG-CN via 60GHz radio can be forwarded to the Internet correctly now.
- Fix the issue that sometime the 60GHz radio would not be initialized correctly.
- In Bridge Mode, the deleted link will not appear in link status table in dashboard now.

#### 2. Known Issue

- The WMI can only be accessed via management port.
- When using Terragraph mode local controller, it requires to assign a smaller "Terragraph LAN Prefix Length" on POP to make sure all the nodes can get OpenR IP address. For example, if there are total six nodes in the network (including MLTG-360 and MLTG-CN), Terragraph LAN Prefix Length requires to be smaller than 60.
- When MLTG-360 setups PtMP links with other MLTG-360 and MLTG-CN **on the same radio**, it should follow the rules below to make sure the links can be established.
  - (1) Only enable GPS Sync on the first MLTG-360
  - (2) Setup MLTG-360 to MLTG-CN links before setup MLTG-360 to MLTG-360 link.
- After "Terragraph LAN IP" changes, it requires a reboot to make VXLAN tunnel established.

#### 3. Example Setup to Avoid Known Issues

In this section, a setup flow to avoid the known issues above will be demonstrated. Below is the network topology for the example setup.



- Step 1: Accessing the web interface via management port, upgrade the latest software for DN1, CN2, and DN3.
- Step 2: After upgrade and reboot, reset the three nodes to factory default.
- Step 3: Set DN1 as POP node, enable local controller and configure the related configurations. Note that "Terragraph LAN Prefix Length" should be smaller than 61. Save the changes.

	≡	
🔁 DASHBOARD	OPERATION MODE	
COPERATION MODE	Operation Mode	Terragraph Mode 🗢
	Enable GPS Sync Check	
Node setting IINK SETTING	Set as POP Node	
SYSTEM >	Enable Local Controller	
	Terragraph WAN Address	2001:B030:200B:05A1::B2
	Gateway Address	2001:B030:200B:05A1::1 *GW_ADDR
	Terragraph LAN Prefix	2001:B030:200B:05B8:: *e2e-network-prefix
	Terragraph LAN Prefix Length	60
	NMS Ctrl Interface	Uplink Lan4 🗢 POP_IFACE
	NMS Ctrl Address	2001:B030:200B:05A1::B22 *POP_ADDR

#### Step 4: Reboot DN1 (POP).

#### Step 5: On DN1, access TOPOLOGY > NODE SETTING page. Add CN2 and DN3.

	≡							<b>ሆ</b> Logou
🕰 DASHBOARD	TOPOLOGY N	ODES						
🚝 MANAGEMENT								
COPERATION MODE								Add
TOPOLOGY							POP	
"" NODE SETTING	Name	Туре	Node MAC	Radio MACs			Node	Action
LINK SETTING	POP	DN 🗢	34:ef:b6:c6:e7:ab	Radio A	Radio B	Radio C		<b>T</b>
SYSTEM				04:ce:14:fc:ba:e6	04:ce:14:fe:a4:e2	04:ce:14:fe:a4:c3		
				Radio D				
				04:ce:14:fc:b1:ca				
	CN2	CN 🗢	34:ef:b6:58:7e:d9	Radio A				m
				34:ef:b6:58:7e:db				12
	-			Radio A	Radio B	Radio C		
	DN3	DN 🗢	34:ef:b6:c6:e9:0d	04:ce:14:fc:b9:15	04:ce:14:fe:9f:60	04:ce:14:fe:c6:7d		
				Radio D				
				04:ce:14:fe:a4:71				

Step 6: Access TOPOLOGY > LINK SETTING page. Add CN2-POP link first, then add DN3-POP link.

	≡				<b>്</b> Logout
🕢 DASHBOARD	TOPOLOGY LINKS				
					_
COPERATION MODE					Add
TOPOLOGY		P	Channel	6.11. · ·	
<b>'ဣ')</b> NODE SETTING	link CN2 POP	reer	Channel	Action	Status
LINK SETTING	IIIK-CN2-FOF	POP	3 🜩		S <sup>1</sup>
SYSTEM		Node-2			
		CN2 💠 radioA - 34:ef:b6:58:7e:db 🗢			
	link-DN3-POP	Node-1	2 🗢	<b>ā 2</b>	S
		POP \$ radioC - 04:ce:14:fe:a4:c3 \$			
		Node-2			
		DN3 🗢 radioC - 04:ce:14:fe:c6:7d 🗢			

Step 7: Check Link Status (DASHBOARD > Link) on POP node. The two links should be established

	succe	essfully.									
		≡									<b>ധ</b> Logout
2 DASHBOARD		DASHBOARD									
		System Network Li	nk								
<b>OPERATION MODE</b>		Link Status									
TOPOLOGY											
('A') NODE SETTING		Self Mac	Peer Mac	RSSI	MCS	Channel	Tx Power	PER	RX Beam Idx	TX Beam Idx	
LINK SETTING		04:ce:14:fc:b1:ca	34:ef:b6:58:7e:db	-58	9	3 (62640 MHz) @ 2160 MHz	6	0	27	26	
SYSTEM		04:ce:14:fe:a4:c3	04:ce:14:fe:c6:7d	-49	9	2 (60480 MHz) @ 2160 MHz	6	0	5	5	

Step 8: Check Network Status (DASHBOARD > Network) on POP and DN3, different IPv6 addresses should be assigned to the Terragraph LAN Interface, respectively.

ASHBOARD						
System Network Link						
Interface IP						
MANAGEMENT INTERFACE						
IPv4 Address	10.131.5.140					
IPv4 Mask	255.255.0.0 10.131.1.254					
IPv4 Gateway						
IPv6 Link-Local Address	fe80::36ef:b6ff:fec6:e7ab/64					
IPv6 Global Address	2001:b030:200b:5a1:36ef:b6ff:fec6:e7ab/64					
NMS CTRL INTERFACE						
IPv6 Link-Local Address	fe80::36ef:b6ff:fec6:12ab/64					
IPv6 Global Address	2001:b030:200b:5a1::b22/64					
	2001:b030:200b:5a1:36ef:b6ff:fec6:12ab/64					
TERRAGRAPH LAN INTERFAC	<u>E</u>					
IPv6 Address	2001:b030:200b:5b5::1/128					

Step 9: Check "uplink status" on STATUS > Overview page of CN2, the assigned IPv6 address should be different from POP or DN3.

UPLINK STATUS							
Туре	openr						
IPv6 Addres	2001:b030:200b:5bb::1/128						