

TR1804 - Overview

Not secure | 59.144.128.177/cgi-bin/luci/stok=6b21e897275afb8b12e9339288d236ac/admin/status/overview

Techroutes TR-1804-4G Wireless Cellular Router/Modem

UNSAVED CHANGES 1 | AUTO REFRESH ON

Status

Overview

Network

Firewall

Routes

System Log

Kernel Log

Reboot Log

Realtime Graphs

VPN

System

Services

Network

Logout

Status

System

Hostname	TR1804
SN	04461540006AA907
Firmware Version	3.2.225
Kernel Version	3.18.29
Local Time	Mon Mar 16 11:27:42 2020
Uptime	0h 16m 8s
Load Average	0.84, 0.79, 0.62

Mobile 1

Cellular Status	Up / Up
IP Address	Primary 125.22.210.121/255.255.255.252; Secondary 10.39.248.1/255.255.255.255
DNS 1	10.0.8.89
DNS 2	10.0.8.92
Cell Modem	SLM730_SLM750 (65C6_F601)
IMEI/ESN	863879041675961
Sim Status	SIM Ready
Strength	17 / 31, dBm: -79
Selected Network	LTE_BAND1
Registered Network	Registered on Home network: "IND Airtel", 7.

TR1804 - Operation Mode

Not secure | 59.144.128.177/cgi-bin/luci/stok=6b21e897275afb8b12e9339288d236ac/admin/network/opermode

Techroutes TR-1804-4G Wireless Cellular Router/Modem

Operation mode configuration

You may configure the operation mode suitable for you environment.

Operation mode

- Bridge mode
All ethernet and wireless interfaces are bridged into a single bridge interface.
- Gateway mode
The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.
- AP client mode
The wireless ap client interface is treated as WAN port.

Wired-WAN port role

- Wired-WAN port acts as WAN
- Wired-WAN port acts as LAN

NAT enable

Save & Apply Save Reset

SIM APN configuration:-

The screenshot displays the 'Mobile Configuration' page for SIM 1. The left sidebar contains a navigation menu with categories: System, Services, Network, Operation Mode, Mobile, LAN, Wired WAN, WAN IPv6, Interfaces, Wi-Fi, Firewall, Switch, DHCP and DNS, Diagnostics, Loopback Interface, Hostnames, Dynamic Routing, Guest LAN(Guest WiFi), Static Routes, QoS, and Logout. The main configuration area includes the following settings:

- Enable:
- Mobile connection: DHCP mode
- IPv4v6: IPv4 only
- IP Passthrough:
- PIN code: [Empty]
- Dialing number: *99#
- APN: airtelconnect.com
- Authentication method: PAP
- Username: test1234g.com@lab.com
- Password: [Masked]
- Dual APN support:
- Two APNs online:
- Equal weightage:
- Second APN: mpls-fgmg.com
- Second Authentication method: None
- Network Type: LTE_BAND1
- MTU: 1500
- Online mode: Keep Alive
- Metric: 0
- IPv4 netmask: [Empty]
- Default route:

At the bottom of the configuration area, there are three buttons: 'Save & Apply', 'Save', and 'Reset'. The browser's address bar shows the URL: 59.144.128.177/cgi-bin/luci/stok=6b21e897275afb8b12e9339288d236ac/admin/network/mobile. The system tray at the bottom right shows the time as 11:51 and the date as 16-03-2020.

Network ----LAN interface ---General setup---Ipv4 address Ipv4 netmask---

The screenshot shows the 'Interfaces - LAN' configuration page for a Technroutes TR-1804-4G router. The page is titled 'Interfaces - LAN' and includes a sub-header 'Common Configuration' with tabs for 'General Setup', 'Advanced Settings', 'Physical Settings', and 'Firewall Settings'. The 'General Setup' tab is active. The interface displays the following information and settings:

- Status:** br-lan
- Uptime:** 0h 16m 50s
- MAC Address:** 5C:CC:FF:0B:00:74
- RX:** 899 21 KB (11307 Pkts)
- TX:** 1 611 MB (6782 Pkts)
- IPv4:** 59.144.128.177/29
- IPv6:** f6d2:7ab:2945::1/60

The configuration fields are as follows:

- Protocol:** Static address
- Really switch protocol?:** Switch protocol
- IPv4 address:** 59.144.128.177
- IPv4 netmask:** 255.255.255.248
- IPv4 gateway:** (empty)
- IPv4 broadcast:** (empty)
- Use custom DNS servers:**
- IPv6 assignment length:** 60
- IPv6 assignment hint:** (empty)

The left sidebar contains a navigation menu with categories: Status, System, Services, Network, Operation Mode, Mobile, LAN, Wired WAN, WAN IPv6, Interfaces, Wi-Fi, Firewall, Switch, DHCP and DNS, Diagnostics, Loopback Interface, Hostnames, Dynamic Routing, Guest LAN (Guest WiFi), Static Routes, QoS, and Logout. The 'Loopback Interface' option is highlighted in the menu.

Network -----loopback interface---

The screenshot shows the 'Loopback Interface Configuration' page for a Technroutes TR-1804-4G router. The page is titled 'Loopback Interface Configuration' and includes the following configuration fields:

- IP address:** 125.17.40.66
- Netmask:** 255.255.255.255
- IP address 2:** (empty)
- Netmask 2:** (empty)

At the bottom of the configuration area, there are three buttons: 'Save & Apply', 'Save', and 'Reset'. The left sidebar is identical to the previous screenshot, with 'Loopback Interface' highlighted in the navigation menu.

Network -----Wan interface -----

The screenshot displays the web management interface for a Technroutes TR-1804-4G Wireless Cellular Router/Modem. The browser address bar shows the URL: 59.144.128.177/cgi-bin/luci/stok=6b21e897275afb8b12e9339288d236ac/admin/network/network/wan. The page title is "TR-1804-4G Wireless Cellular Router/Modem".

The interface is divided into a left sidebar and a main content area. The sidebar contains navigation menus for Status, System, Services, Network, Operation Mode, Mobile, LAN, Wired WAN, WAN IP-V6, Interfaces, Wi-Fi, Firewall, Switch, DHCP and DNS, Diagnostics, Loopback Interface, Hostnames, Dynamic Routing, Guest LAN(Guest WiFi), Static Routes, QoS, and Logout. The "Wired WAN" section is currently selected.

The main content area is titled "Interfaces - WAN" and includes a sub-section for "Common Configuration". It features several tabs: General Setup, Advanced Settings (selected), Physical Settings, and Firewall Settings. The configuration is for the "eth1" interface, which is currently in a "Status" state. Key configuration details include:

- Uptime: 0h 24m 16s
- MAC-Address: 5C:CC:FF:8B:00:75
- RX: 1.85 MB (18923 Pkts)
- TX: 3.83 MB (35268 Pkts)
- IPv4: 125.19.76.142/29

The configuration fields are as follows:

- Protocol: Static address
- IPv4 address: 125.19.76.142
- IPv4 netmask: 255.255.255.240
- IPv4 gateway: 125.19.76.141
- IPv4 broadcast: (empty)
- Use custom DNS servers: (empty)
- IPv6 assignment length: disabled
- IPv6 address: (empty)
- IPv6 gateway: (empty)
- IPv6 routed prefix: (empty)

The Windows taskbar at the bottom shows the system time as 13:06 on 16-03-2020.

Seviceces----- failover----- primary wired-wan ,secondary cell

The screenshot displays the failover configuration interface for a Technicolor TR-1804-4G Wireless Cellular Router/Modem. The interface is organized into several sections:

- Failover Settings:** Includes checkboxes for 'Enable' and 'Back To High priority', both of which are checked. The 'Current interface' is set to 'primary'.
- Primary Configuration:** The 'Primary' interface is set to 'Wired_wan'. The 'Host1 to ping' is 125.19.76.141. Other fields for Host2 to ping, Ping timeout (1), Max Retries (2), Interval between ping (10), and NAT (Default) are also present.
- Secondary Configuration:** The 'Secondary' interface is set to 'Cell_mobile'. Fields for Host1 to ping, Host2 to ping, Ping timeout (1), Max Retries (2), Interval between ping (30), and NAT (Default) are visible.
- Third Configuration:** The 'Third' interface is set to 'None'. Fields for Host1 to ping, Host2 to ping, Ping timeout (1), Max Retries (10), Interval between ping (30), and NAT (Default) are visible.

At the bottom of the configuration area, there are buttons for 'Save & Apply', 'Save', and 'Reset'. The browser address bar shows the URL: 59.144.128.177/cgi-bin/luci/stok=6b21e897275afb8b12e9339288d236ac/admin/services/failover. The system tray at the bottom indicates the time is 13:08 on 16-03-2020.

Services -----failover ---advance----cellstandby-----Dataconnect---- save & Apply

The screenshot displays the web management interface for a Techroutes TR-1804-4G Wireless Cellular Router/Modem. The browser address bar shows the URL: `59.144.128.177/cgi-bin/luci/stok=6b21e897275afb8b12e9339288d236ac/admin/services/failover/advanced/`. The page title is "TR-1804-4G Wireless Cellular Router/Modem".

The interface features a left-hand navigation menu with the following items: Status, System, Services, ICMP Check, VRRP, Failover (highlighted), DTU, SNMP, CWMP, GPS, SMS, VPN, DDNS, Connect Radio Module, NMS, Captive Portal, WEB Filter, Network, and Logout.

The main content area is titled "Failover Advanced Configuration" and includes a sub-section "Failover Settings". Under this section, there are two dropdown menus: "Cell Standby" is set to "Data connect" and "SMS Alarm" is set to "No alarm".

At the bottom of the configuration area, there are three buttons: "Save & Apply", "Save", and "Reset".

The Windows taskbar at the bottom of the screen shows the search bar with "Type here to search", several application icons, and the system tray displaying the time as 13:09 and the date as 16-03-2020.

Network ----Dynamic Routing -----zebra –enable-----bgp enable--- save& Apply

The screenshot shows the 'Dynamic Routing' configuration page for a Technroutes TR-1804-4G Wireless Cellular Router/Modem. The page is divided into several sections for different routing protocols:

- Zebra:** Enable . Password: [masked]
- OSPF:** Enable . Password: [masked]
- OSPF6:** Enable . Password: [masked]
- RIP:** Enable . Password: [masked]
- RIPng:** Enable . Password: [masked]
- BGP:** Enable . Password: [masked]

At the bottom of the configuration area, there are three buttons: 'Save & Apply', 'Save', and 'Reset'.

Firewall----traffic-rule -----Open BGP port 179 on Router----Add

The screenshot shows the 'Open ports on router' configuration page. It features a table with columns for Name, Protocol, and External port. A new entry has been added:

Name	Protocol	External port
BGP	TCP+UDP	179

An 'Add' button is visible next to the new entry.

Save& apply after add BGP port

TR1804 - Traffic Rules

59.144.128.177/cgi-bin/luci/stok=6b21e897275afb8b12e9339288d236ac/admin/network/firewall/rules/

Action	Protocol	Source	Destination	Target	Limit	Buttons
Allow-Ping-WAN	IPv4-ICMP	From any host in wan	To any router IP on this device	type echo-request	Accept input	✓ [Edit] [Delete]
Allow-IGMP	IPv4-IGMP	From any host in wan	To any router IP on this device		Accept input	✓ [Edit] [Delete]
Allow-DHCPv6	IPv6-UDP	From IP range fe80::/10 in wan with source port 547	To IP range fe80::/10 at port 546 on this device		Accept input	✓ [Edit] [Delete]
Allow-MLD	IPv6-ICMP	From IP range fe80::/10 in wan	To any router IP on this device	with types 1300, 1310, 1320, 1430	Accept input	✓ [Edit] [Delete]
Allow-ICMPv6-Input	IPv6-ICMP	From any host in wan	To any router IP on this device	with types echo-request, echo-reply, destination-unreachable, packet-too-big, time-exceeded, bad-header, unknown-header-type, router-solicitation, neighbour-advertisement, neighbour-advertisement	Accept input and limit to 1000 pkts. per second	✓ [Edit] [Delete]
Allow-ICMPv6-Forward	IPv6-ICMP	From any host in wan	To any router IP on this device	with types echo-request, echo-reply, destination-unreachable, packet-too-big, time-exceeded, bad-header, unknown-header-type	Accept forward and limit to 1000 pkts. per second	✓ [Edit] [Delete]
BGP	Any TCP, UDP	From any host in wan	To any router IP at port 179 on this device		Accept input	✓ [Edit] [Delete]

Open ports on router:

Name	Protocol	External port
New input rule	TCP+UDP	

New forward rule:

Name	Source zone	Destination zone
New forward rule	lan	wan

[Save & Apply] [Save] [Reset]

Security Telnet enable

TR1804 - Security

59.144.128.177/cgi-bin/luci/stok=6b21e897275afb8b12e9339288d236ac/admin/network/firewall/security/

Techroutes NETWORK TR-1804-4G Wireless Cellular Router/Modem

General Settings | Port Forwards | Traffic Rules | Source NAT | DMZ | Security | MAC Filter

System Security Configuration

SSH access from WAN: Allow

Ping from WAN to LAN: Allow

Enable telnet:

HTTPS Access

HTTPS port: 443

HTTPS access from WAN: Allow

Remote network: Any IP address

HTTP Access

HTTP port: 80

HTTP access from WAN: Allow

Remote network: Any IP address

RFC1918 filter:

Access Whitelist

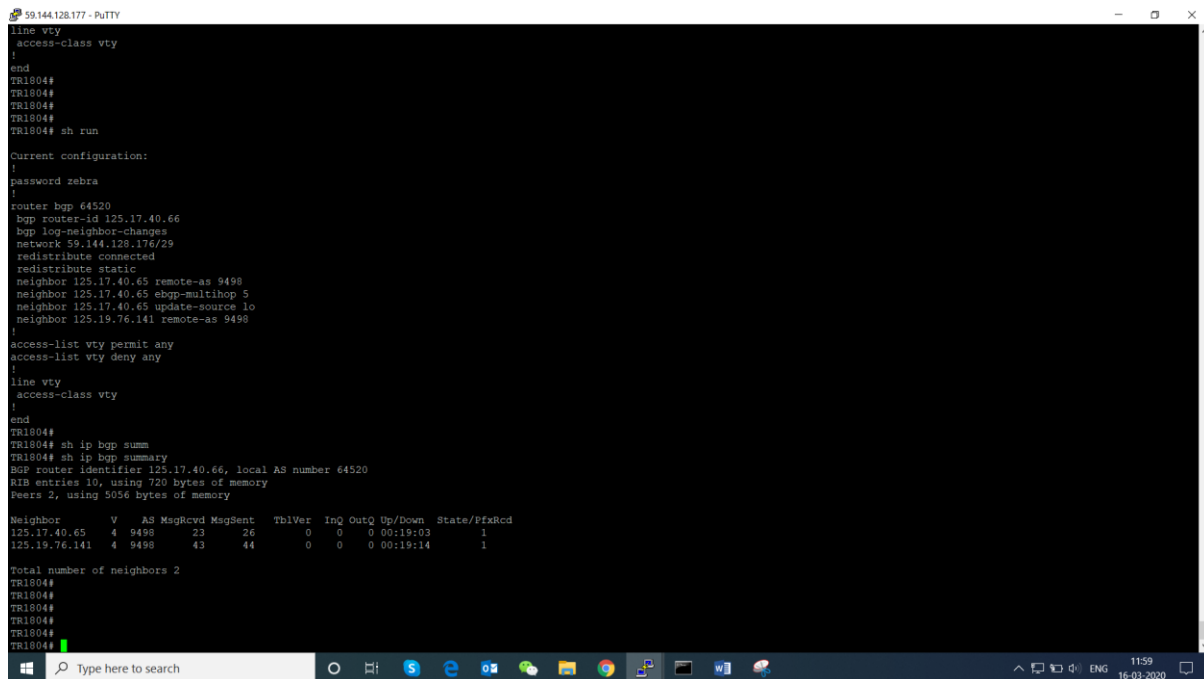
Allow the whitelist to access devices, others will be blocked

BGP configuration :

TR1804# sh run

Current configuration:

```
!  
password zebra  
!  
router bgp 64520  
  bgp router-id 125.17.40.66  
  bgp log-neighbor-changes  
  network 59.144.128.176/29  
  redistribute connected  
  redistribute static  
  neighbor 125.17.40.65 remote-as 9498  
  neighbor 125.17.40.65 ebgp-multihop 5  
  neighbor 125.17.40.65 update-source lo  
  neighbor 125.19.76.141 remote-as 9498
```



```
59.144.128.177 - PUTTY  
line vty  
  access-class vty  
  !  
end  
TR1804#  
TR1804#  
TR1804#  
TR1804# sh run  
Current configuration:  
!  
password zebra  
!  
router bgp 64520  
  bgp router-id 125.17.40.66  
  bgp log-neighbor-changes  
  network 59.144.128.176/29  
  redistribute connected  
  redistribute static  
  neighbor 125.17.40.65 remote-as 9498  
  neighbor 125.17.40.65 ebgp-multihop 5  
  neighbor 125.17.40.65 update-source lo  
  neighbor 125.19.76.141 remote-as 9498  
!  
access-list vty permit any  
access-list vty deny any  
!  
line vty  
  access-class vty  
  !  
end  
TR1804#  
TR1804# sh ip bgp summ  
TR1804# sh ip bgp summary  
BGP router identifier 125.17.40.66, local AS number 64520  
RIB entries 10, using 720 bytes of memory  
Peers 2, using 5056 bytes of memory  
  
Neighbor      V    AS MsgRcvd MsgSent  TblVer  InQ OutQ Up/Down State/PfxRcd  
125.17.40.65  4  9498    23    26      0   0  0:00:19:03  1  
125.19.76.141  4  9498    43    44      0   0  0:00:19:14  1  
  
Total number of neighbors 2  
TR1804#  
TR1804#  
TR1804#  
TR1804#  
TR1804#
```

```
59144128177 - PuTTY
TR18044# sh ip bgp ne
TR18044# sh ip bgp neighbors
BGP neighbor is 125.17.40.65, remote AS 9498, local AS 64520, external link
BGP version 4, remote router ID 202.123.42.245
BGP state = Established, up for 00:19:31
Last read 00:00:03, hold time is 180, keepalive interval is 60 seconds
Neighbor capabilities:
 4 Byte AS: advertised and received
Route refresh: advertised and received(old & new)
Address family IPv4 Unicast: advertised and received
Graceful Restart Capability: received
Remote Restart timer is 120 seconds
Address families by peer:
  IPv4 Unicast(not preserved)
Graceful restart informations:
End-of-RIB send: IPv4 Unicast
End-of-RIB received: IPv4 Unicast
Message statistics:
Inq depth is 0
Outq depth is 0
      Sent      Rcvd
Opens:          1          0
Notifications: 0          0
Updates:        4          2
Keepalives:     21         22
Route Refresh:  0          0
Capability:     0          0
Total:          26         24
Minimum time between advertisement runs is 30 seconds
Update source is lo

For address family: IPv4 Unicast
Community attribute sent to this neighbor(both)
1 accepted prefixes

Connections established 1; dropped 0
Last reset never
External BGP neighbor may be up to 5 hops away.
Local host: 125.17.40.66, Local port: 179
Foreign host: 125.17.40.65, Foreign port: 50838
Nexthop: 125.17.40.66
Nexthop global: ::1
Nexthop local: ::
BGP connection: non shared network
Read thread: on Write thread: off
```

```
BGP neighbor is 125.19.76.141, remote AS 9498, local AS 64520, external link
BGP version 4, remote router ID 203.101.07.204
BGP state = Established, up for 00:19:42
Last read 00:00:04, hold time is 90, keepalive interval is 30 seconds
```

```
Neighbor capabilities:
 4 Byte AS: advertised and received
Route refresh: advertised and received(old & new)
Address family IPv4 Unicast: advertised and received
Graceful Restart Capability: received
Remote Restart timer is 120 seconds
Address families by peer:
  IPv4 Unicast(preserved)
Graceful restart informations:
End-of-RIB send: IPv4 Unicast
End-of-RIB received:
Message statistics:
Inq depth is 0
Outq depth is 0
      Sent      Rcvd
Opens:          1          1
Notifications: 0          0
Updates:        3          1
Keepalives:     41         42
Route Refresh:  0          0
Capability:     0          0
Total:          45         44
Minimum time between advertisement runs is 30 seconds

For address family: IPv4 Unicast
Community attribute sent to this neighbor(both)
1 accepted prefixes

Connections established 1; dropped 0
Last reset never
Local host: 125.19.76.142, Local port: 37434
Foreign host: 125.19.76.141, Foreign port: 179
Nexthop: 125.19.76.142
Nexthop global: fe80::5ecc:ffff:fe0b:75
Nexthop local: ::
BGP connection: non shared network
Read thread: on Write thread: off
```

```
TR18044#
TR18044#
```

```
59144128177 - PuTTY
Nexthop: 125.17.40.66
Nexthop global: ::1
Nexthop local: ::
BGP connection: non shared network
Read thread: on Write thread: off

BGP neighbor is 125.19.76.141, remote AS 9498, local AS 64520, external link
BGP version 4, remote router ID 203.101.07.204
BGP state = Established, up for 00:19:42
Last read 00:00:04, hold time is 90, keepalive interval is 30 seconds
Neighbor capabilities:
 4 Byte AS: advertised and received
Route refresh: advertised and received(old & new)
Address family IPv4 Unicast: advertised and received
Graceful Restart Capability: received
Remote Restart timer is 120 seconds
Address families by peer:
  IPv4 Unicast(preserved)
Graceful restart informations:
End-of-RIB send: IPv4 Unicast
End-of-RIB received:
Message statistics:
Inq depth is 0
Outq depth is 0
      Sent      Rcvd
Opens:          1          1
Notifications: 0          0
Updates:        3          1
Keepalives:     41         42
Route Refresh:  0          0
Capability:     0          0
Total:          45         44
Minimum time between advertisement runs is 30 seconds

For address family: IPv4 Unicast
Community attribute sent to this neighbor(both)
1 accepted prefixes

Connections established 1; dropped 0
Last reset never
Local host: 125.19.76.142, Local port: 37434
Foreign host: 125.19.76.141, Foreign port: 179
Nexthop: 125.19.76.142
Nexthop global: fe80::5ecc:ffff:fe0b:75
Nexthop local: ::
BGP connection: non shared network
Read thread: on Write thread: off

TR18044#
TR18044#
```


Remove wired wan link default route learn via eth2 (cell interface) and bgp session established with SIM

```

root@TR1804:~# route -n
Kernel IP routing table
MicroDestination Gateway Genmask Flags Metric Ref Use Iface
(c) 200.0.0.0 125.19.76.141 0.0.0.0 DG 0 0 0 eth1
C:\Use10.64.64.64 0.0.0.0 255.255.255.255 UH 0 0 0 3g-lfmbob
C:\Use59.144.128.176 0.0.0.0 255.255.255.248 U 0 0 0 0 br-lan
C:\Use125.19.76.136 0.0.0.0 255.255.255.248 U 0 0 0 0 eth1
C:\Use125.22.210.120 0.0.0.0 255.255.255.252 U 0 0 0 0 eth2
Trac125.22.210.122 0.0.0.0 255.255.255.255 UH 0 0 0 0 eth2

root@TR1804:~#
1 root@TR1804:~#
2 root@TR1804:~#
3 root@TR1804:~#
4 root@TR1804:~#
5 root@TR1804:~#
Trace root@TR1804:~#
root@TR1804:~# route -n
UserKernel IP routing table
MicroDestination Gateway Genmask Flags Metric Ref Use Iface
(c) 0.0.0.0 125.22.210.122 0.0.0.0 DG 0 0 0 eth2
Trac10.64.64.64 0.0.0.0 255.255.255.255 UH 0 0 0 0 3g-lfmbob
ile_1
1 59.144.128.176 0.0.0.0 255.255.255.248 U 0 0 0 0 br-lan
2 125.19.76.136 0.0.0.0 255.255.255.248 U 0 0 0 0 eth1
3 125.22.210.120 0.0.0.0 255.255.255.252 U 0 0 0 0 eth2
4 125.22.210.122 0.0.0.0 255.255.255.255 UH 0 0 0 0 eth2
5 root@TR1804:~#
6 Password:
TR1804>
TR1804> ena
C:\Use1804#
Trace TR1804# sh ip bgp summ
TR1804# sh ip bgp summary
BGP router identifier 125.17.40.66, local AS number 64520
RIB entries 10, using 720 bytes of memory
Peers 2, using 5056 bytes of memory

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd
125.17.40.65 4 9498 4 7 0 0 0 00:01:07 0
125.19.76.141 4 9498 0 0 0 0 0 never Active

Total number of neighbors 2
TR1804#
TR1804#

```

Ping and Traceroute result get via LNS

```

C:\Users\Acce>
C:\Users\Acce>
C:\Users\Acce> traceroute -d 8.8.8.8

Tracing route to 8.8.8.8 over a maximum of 30 hops
  0  ms  <ms>  <ms>  <ms>  59.144.128.177
  1  2  ms  <ms>  <ms>  <ms>  59.144.128.177
  2  39  ms  40  ms  28  ms  202.123.42.245
  3  61  ms  31  ms  44  ms  182.79.198.202
  4  50  ms  49  ms  38  ms  182.79.198.201
  5  49  ms  63  ms  73  ms  118.119.42.123
  6  56  ms  39  ms  49  ms  72.14.243.8
  7  80  ms  65  ms  42  ms  74.125.244.193
  8  59  ms  38  ms  51  ms  172.253.67.99
  9  86  ms  42  ms  62  ms  8.8.8.8

Trace complete.

C:\Users\Acce>
RIB entries 10, using 720 bytes of memory
Peers 2, using 5056 bytes of memory

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd
125.17.40.65 4 9498 4 7 0 0 0 00:01:07 0
125.19.76.141 4 9498 0 0 0 0 0 never Active

Total number of neighbors 2
TR1804#
TR1804#
TR1804# sh ip bgp summary
BGP router identifier 125.17.40.66, local AS number 64520
RIB entries 10, using 720 bytes of memory
Peers 2, using 5056 bytes of memory

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd
125.17.40.65 4 9498 6 8 0 0 0 00:02:55 0
125.19.76.141 4 9498 0 0 0 0 0 never Active

Total number of neighbors 2
TR1804#
TR1804#

```

Reconnect wired-wan default route via wired and BGP session established with wired

```

C:\WINDOWS\system32\cmd.exe - ping 4.2.2.1
Reply from 4.2.2.2: bytes=32 time=145ms TTL=56
Reply from 4.2.2.2: bytes=32 time=123ms TTL=56
Reply from 4.2.2.2: bytes=32 time=132ms TTL=56
Request timed out.
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60

C:\WINDOWS\system32\cmd.exe - ping 125.19.76.141
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=2ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=2ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=2ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63

C:\WINDOWS\system32\cmd.exe - ping 8.8.8.8
Reply from 8.8.8.8: bytes=32 time=3ms TTL=57
Reply from 8.8.8.8: bytes=32 time=3ms TTL=57
Reply from 8.8.8.8: bytes=32 time=3ms TTL=57
Reply from 8.8.8.8: bytes=32 time=3ms TTL=57
Reply from 8.8.8.8: bytes=32 time=2ms TTL=57

C:\WINDOWS\system32\cmd.exe - ping 61.65.233.34
Request timed out.
Reply from 61.65.233.34: bytes=32 time=349ms TTL=46
Reply from 61.65.233.34: bytes=32 time=259ms TTL=50
Reply from 61.65.233.34: bytes=32 time=255ms TTL=50
Reply from 61.65.233.34: bytes=32 time=257ms TTL=50
Reply from 61.65.233.34: bytes=32 time=255ms TTL=50
Reply from 61.65.233.34: bytes=32 time=257ms TTL=50
Reply from 61.65.233.34: bytes=32 time=255ms TTL=50

59.144.128.177 - PuTTY
9 58 ms 42 ms 37 ms 8.8.8.8
Trace complete.
C:\Users\Acer>
C:\Users\Acer>
C:\Users\Acer>tracert -d 8.8.8.8
Tracing route to 8.8.8.8 over a maximum of 30 hops
  0  <1 ms  <1 ms  <1 ms  59.144.128.177
  1  <1 ms  <1 ms  <1 ms  125.19.76.141
  2  <1 ms  <1 ms  <1 ms  116.119.90.143
  3  <1 ms  <1 ms  <1 ms  72.14.243.8
  4  2 ms  11 ms  2 ms  74.125.244.193
  5  3 ms  3 ms  3 ms  172.253.67.85
  6  4 ms  4 ms  3 ms  8.8.8.8
  7  3 ms  2 ms  2 ms  8.8.8.8
Trace complete.
C:\Users\Acer>
TR1804# sh ip bgp summary
BGP router identifier 125.17.40.66, local AS number 64520
RIB entries 10, using 720 bytes of memory
Peers 2, using 5056 bytes of memory

Neighbor      V   AS  MsgRcvd  MsgSent   TblVer  InQ  OutQ  Up/Down   State/PfxRcd
125.17.40.65  4  9498      8        10         0    0    0 00:04:47      0
125.19.76.141 4  9498      0         0         0    0    0 00:00:00      0
Total number of neighbors 2
TR1804#
TR1804# sh ip bgp summary
BGP router identifier 125.17.40.66, local AS number 64520
RIB entries 10, using 720 bytes of memory
Peers 2, using 5056 bytes of memory

Neighbor      V   AS  MsgRcvd  MsgSent   TblVer  InQ  OutQ  Up/Down   State/PfxRcd
125.17.40.65  4  9498      8        10         0    0    0 00:04:49      0
125.19.76.141 4  9498      1         3         0    0    0 00:00:01      0
Total number of neighbors 2
TR1804#
TR1804#

```

```

C:\WINDOWS\system32\cmd.exe - ping 4.2.2.1
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=71ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=71ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60
Reply from 4.2.2.2: bytes=32 time=70ms TTL=60

C:\WINDOWS\system32\cmd.exe - ping 125.19.76.141
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=0ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63
Reply from 125.19.76.141: bytes=32 time=2ms TTL=63
Reply from 125.19.76.141: bytes=32 time=1ms TTL=63

C:\WINDOWS\system32\cmd.exe - ping 8.8.8.8
Reply from 8.8.8.8: bytes=32 time=3ms TTL=57
Reply from 8.8.8.8: bytes=32 time=3ms TTL=57
Reply from 8.8.8.8: bytes=32 time=3ms TTL=57
Reply from 8.8.8.8: bytes=32 time=3ms TTL=57
Reply from 8.8.8.8: bytes=32 time=3ms TTL=57
Reply from 8.8.8.8: bytes=32 time=2ms TTL=57

C:\WINDOWS\system32\cmd.exe - ping 61.65.233.34
Reply from 61.65.233.34: bytes=32 time=244ms TTL=50
Reply from 61.65.233.34: bytes=32 time=247ms TTL=50
Reply from 61.65.233.34: bytes=32 time=245ms TTL=50
Reply from 61.65.233.34: bytes=32 time=245ms TTL=50
Reply from 61.65.233.34: bytes=32 time=247ms TTL=50
Reply from 61.65.233.34: bytes=32 time=247ms TTL=50
Reply from 61.65.233.34: bytes=32 time=245ms TTL=50
Reply from 61.65.233.34: bytes=32 time=244ms TTL=50

59.144.128.177 - PuTTY
root@TR1804:~#
root@TR1804:~#
root@TR1804:~#
root@TR1804:~# route -n
Kernel IP routing table
Destination Gateway         Genmask         Flags Metric Ref    Use Iface
0.0.0.0     125.19.76.141  0.0.0.0         UG    0     0    0    eth1
10.64.64.64 0.0.0.0         255.255.255.255 UH    0     0    0    3g-1fmob
lie 1
59.144.128.176 0.0.0.0         255.255.255.248 U    0     0    0    0 br-lan
125.19.76.136 0.0.0.0         255.255.255.248 U    0     0    0    0 eth1
125.22.210.120 0.0.0.0         255.255.255.252 U    0     0    0    0 eth2
125.22.210.122 0.0.0.0         255.255.255.255 UH    0     0    0    0 eth2
root@TR1804:~#
root@TR1804:~# telnet 59.144.128.177 2605

Entering character mode
Escape character is '^]'.

Hello, this is Quanga (version 0.99.22.4).
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User Access Verification

Password:
TR1804>
TR1804> ena
TR1804#
TR1804# sh ip bgp summ
BGP router identifier 125.17.40.66, local AS number 64520
RIB entries 10, using 720 bytes of memory
Peers 2, using 5056 bytes of memory

Neighbor      V   AS  MsgRcvd  MsgSent   TblVer  InQ  OutQ  Up/Down   State/PfxRcd
125.17.40.65  4  9498      4         8         0    0    0 00:01:12      1
125.19.76.141 4  9498      5         8         0    0    0 00:01:17      1
Total number of neighbors 2
TR1804#
TR1804#

```

Remove wired again default route via cell and BGP session established with cell via source loopback

```
C:\WINDOWS\system32\cmd.exe - ping 4.2.2.4
Reply from 4.2.2.2: bytes=32 time=7ms TTL=60
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Reply from 125.19.76.142: Destination host unreachable.
Reply from 125.19.76.142: Destination host unreachable.
Reply from 125.19.76.142: Destination host unreachable.
Reply from 125.19.76.142: Destination host unreachable.
Reply from 125.19.76.142: Destination host unreachable.
Reply from 125.19.76.142: Destination host unreachable.
Reply from 125.19.76.142: Destination host unreachable.
Request timed out.
Reply from 4.2.2.2: bytes=32 time=309ms TTL=56
Reply from 4.2.2.2: bytes=32 time=112ms TTL=56
Reply from 4.2.2.2: bytes=32 time=95ms TTL=56
Reply from 4.2.2.2: bytes=32 time=120ms TTL=56
Reply from 4.2.2.2: bytes=32 time=115ms TTL=56
Reply from 4.2.2.2: bytes=32 time=108ms TTL=56
Reply from 4.2.2.2: bytes=32 time=117ms TTL=56
Reply from 4.2.2.2: bytes=32 time=173ms TTL=56
Reply from 4.2.2.2: bytes=32 time=147ms TTL=56
Reply from 4.2.2.2: bytes=32 time=124ms TTL=56
Reply from 4.2.2.2: bytes=32 time=128ms TTL=56
Reply from 4.2.2.2: bytes=32 time=189ms TTL=56
Reply from 4.2.2.2: bytes=32 time=115ms TTL=56
Reply from 4.2.2.2: bytes=32 time=120ms TTL=56
Reply from 4.2.2.2: bytes=32 time=138ms TTL=56
Reply from 4.2.2.2: bytes=32 time=117ms TTL=56
Reply from 4.2.2.2: bytes=32 time=108ms TTL=56
Reply from 4.2.2.2: bytes=32 time=121ms TTL=56
Reply from 4.2.2.2: bytes=32 time=120ms TTL=56
Reply from 4.2.2.2: bytes=32 time=157ms TTL=56
Reply from 4.2.2.2: bytes=32 time=117ms TTL=56
Reply from 4.2.2.2: bytes=32 time=103ms TTL=56
Reply from 4.2.2.2: bytes=32 time=109ms TTL=56
Reply from 4.2.2.2: bytes=32 time=111ms TTL=56
Reply from 4.2.2.2: bytes=32 time=114ms TTL=56
Reply from 4.2.2.2: bytes=32 time=150ms TTL=56
Reply from 4.2.2.2: bytes=32 time=108ms TTL=56
Reply from 4.2.2.2: bytes=32 time=138ms TTL=56
Reply from 4.2.2.2: bytes=32 time=114ms TTL=56
```

```
59.144.128.177 - PuTTY
root@TR1804:~#
root@TR1804:~# route -n
Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref Use Iface
0.0.0.0 125.19.76.141 0.0.0.0 UG 0 0 0 eth1
10.64.64.64 0.0.0.0 255.255.255.255 UH 0 0 0 3g-ifmobile_1
59.144.128.176 0.0.0.0 255.255.255.248 U 0 0 0 br-lan
125.19.76.136 0.0.0.0 255.255.255.248 U 0 0 0 eth1
125.22.210.120 0.0.0.0 255.255.255.252 U 0 0 0 eth2
125.22.210.122 0.0.0.0 255.255.255.255 UH 0 0 0 eth2
root@TR1804:~#
root@TR1804:~# route -n
Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref Use Iface
0.0.0.0 125.22.210.122 0.0.0.0 UG 0 0 0 eth2
10.64.64.64 0.0.0.0 255.255.255.255 UH 0 0 0 3g-ifmobile_1
59.144.128.176 0.0.0.0 255.255.255.248 U 0 0 0 br-lan
125.19.76.136 0.0.0.0 255.255.255.248 U 0 0 0 eth1
125.22.210.120 0.0.0.0 255.255.255.252 U 0 0 0 eth2
125.22.210.122 0.0.0.0 255.255.255.255 UH 0 0 0 eth2
root@TR1804:~#
root@TR1804:~# telnet 59.144.128.177 2605
Entering character mode
Escape character is '^]'.

Hello, this is Quags (version 0.99.22.4).
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User Access Verification

Password:
TR1804>
TR1804> ena
TR1804#
TR1804# sh ip bgp summ
BGP router identifier 125.17.40.66, local AS number 64520
RIB entries 9, using 648 bytes of memory
Peers 2, using 5056 bytes of memory

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd
125.17.40.65 4 9498 0 0 0 0 0 never Active
125.19.76.141 4 9498 0 0 0 0 0 never Active
```

```
C:\WINDOWS\system32\cmd.exe - ping 4.2.2.4
Reply from 4.2.2.2: bytes=32 time=109ms TTL=56
Reply from 4.2.2.2: bytes=32 time=135ms TTL=56
Reply from 4.2.2.2: bytes=32 time=136ms TTL=56
Reply from 4.2.2.2: bytes=32 time=130ms TTL=56
Reply from 4.2.2.2: bytes=32 time=108ms TTL=56
Reply from 4.2.2.2: bytes=32 time=101ms TTL=56
Reply from 4.2.2.2: bytes=32 time=97ms TTL=56
Reply from 4.2.2.2: bytes=32 time=130ms TTL=56
Reply from 4.2.2.2: bytes=32 time=115ms TTL=56
Reply from 4.2.2.2: bytes=32 time=110ms TTL=56
Reply from 4.2.2.2: bytes=32 time=99ms TTL=56
Reply from 4.2.2.2: bytes=32 time=116ms TTL=56
Reply from 4.2.2.2: bytes=32 time=125ms TTL=56
Reply from 4.2.2.2: bytes=32 time=116ms TTL=56
Reply from 4.2.2.2: bytes=32 time=120ms TTL=56
Reply from 4.2.2.2: bytes=32 time=190ms TTL=56
Reply from 4.2.2.2: bytes=32 time=106ms TTL=56
Reply from 4.2.2.2: bytes=32 time=109ms TTL=56
Reply from 4.2.2.2: bytes=32 time=105ms TTL=56
Reply from 4.2.2.2: bytes=32 time=121ms TTL=56
Reply from 4.2.2.2: bytes=32 time=122ms TTL=56
Reply from 4.2.2.2: bytes=32 time=106ms TTL=56
Reply from 4.2.2.2: bytes=32 time=117ms TTL=56
Reply from 4.2.2.2: bytes=32 time=120ms TTL=56
Reply from 4.2.2.2: bytes=32 time=109ms TTL=56
Reply from 4.2.2.2: bytes=32 time=203ms TTL=56
Reply from 4.2.2.2: bytes=32 time=97ms TTL=56
Reply from 4.2.2.2: bytes=32 time=102ms TTL=56
Reply from 4.2.2.2: bytes=32 time=104ms TTL=56
Reply from 4.2.2.2: bytes=32 time=108ms TTL=56
Reply from 4.2.2.2: bytes=32 time=119ms TTL=56
Reply from 4.2.2.2: bytes=32 time=128ms TTL=56
Reply from 4.2.2.2: bytes=32 time=119ms TTL=56
Reply from 4.2.2.2: bytes=32 time=150ms TTL=56
Reply from 4.2.2.2: bytes=32 time=112ms TTL=56
Reply from 4.2.2.2: bytes=32 time=117ms TTL=56
Reply from 4.2.2.2: bytes=32 time=115ms TTL=56
Reply from 4.2.2.2: bytes=32 time=113ms TTL=56
Reply from 4.2.2.2: bytes=32 time=115ms TTL=56
Reply from 4.2.2.2: bytes=32 time=119ms TTL=56
Reply from 4.2.2.2: bytes=32 time=142ms TTL=56
Reply from 4.2.2.2: bytes=32 time=114ms TTL=56
Reply from 4.2.2.2: bytes=32 time=141ms TTL=56
Reply from 4.2.2.2: bytes=32 time=113ms TTL=56
Reply from 4.2.2.2: bytes=32 time=111ms TTL=56
Reply from 4.2.2.2: bytes=32 time=103ms TTL=56
```

```
C:\WINDOWS\system32\cmd.exe
Trace complete.
C:\Users\Acer>
C:\Users\Acer>tracert -d 8.8.8.8

Tracing route to 8.8.8.8 over a maximum of 30 hops
 0  <1 ms  <1 ms  <1 ms  59.144.128.177
 1  49 ms  43 ms  184 ms  202.123.42.245
 2  51 ms  25 ms  48 ms  182.79.198.202
 3  33 ms  37 ms  36 ms  182.79.198.201
 4  38 ms  40 ms  37 ms  116.119.42.123
 5  45 ms  46 ms  42 ms  72.14.243.0
 6  44 ms  37 ms  45 ms  74.125.244.193
 7  52 ms  44 ms  40 ms  172.253.67.99
 8  87 ms  38 ms  74 ms  8.8.8.8

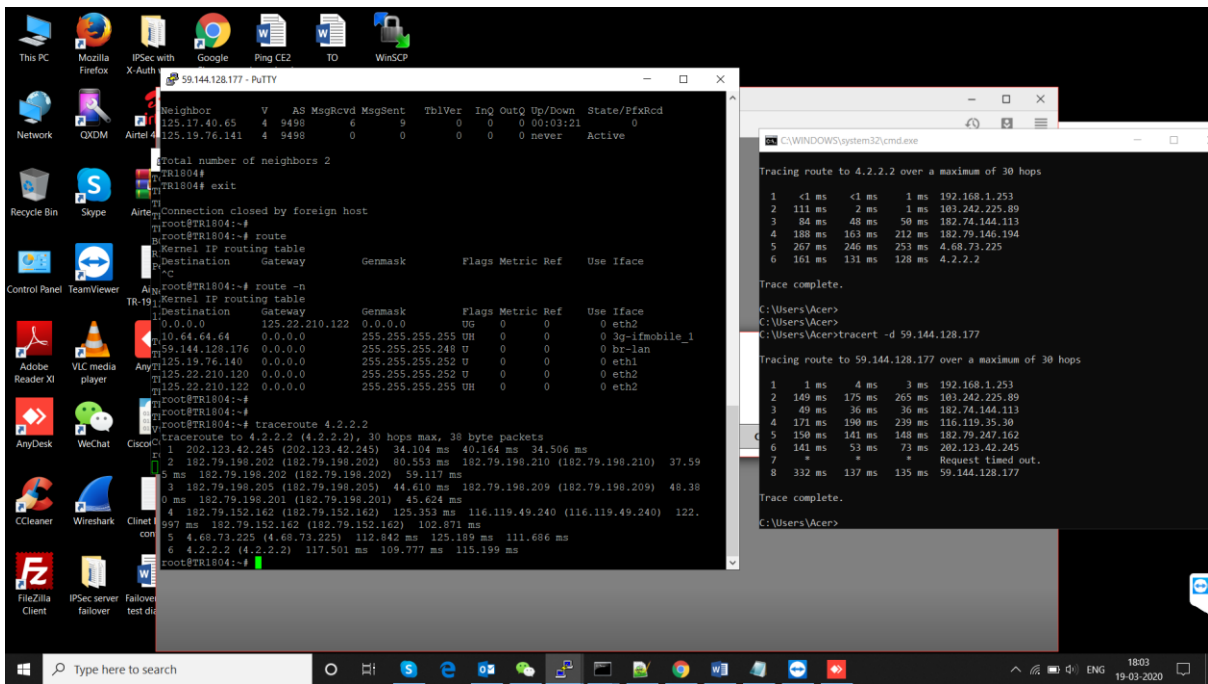
Trace complete.
C:\Users\Acer>
RIB entries 10, using 720 bytes of memory
Peers 2, using 5056 bytes of memory

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd
125.17.40.65 4 9498 0 0 0 0 0 never Active
125.19.76.141 4 9498 0 0 0 0 0 never Active

Total number of neighbors 2
TR1804#
TR1804#
TR1804#
TR1804#
TR1804# sh ip bgp summ
BGP router identifier 125.17.40.66, local AS number 64520
RIB entries 10, using 720 bytes of memory
Peers 2, using 5056 bytes of memory

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd
125.17.40.65 4 9498 4 7 0 0 0 00:01:11 0
125.19.76.141 4 9498 0 0 0 0 0 0 never Active

Total number of neighbors 2
TR1804#
TR1804#
```

Reconnect wan bgp re-established with wired

