How to Create a VPN Tunnel with the VPN GTI Editor

https://campus.barracuda.com/doc/46209454/

VPN services on the Barracuda NextGen Control Center are organized in VPN groups. VPN tunnels can be created and configured for all VPN services by drag and drop connections between the individual services.

In this article:

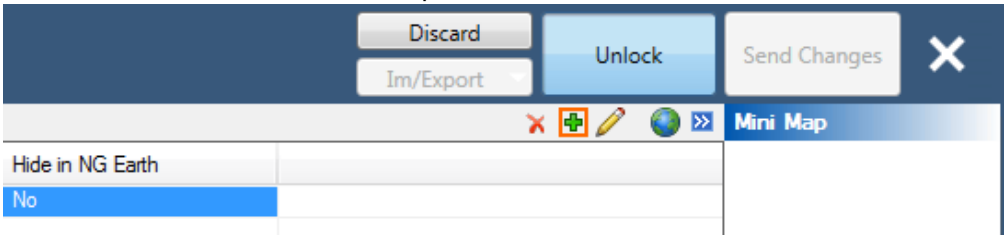
Before you Begin

- To use the GTI Editor on the range or cluster level, enable **Own VPN GTI Editor** in the range or cluster **Property Settings**.
- Configure the GTI Settings for the VPN services on the managed F-Series Firewalls For more information, see How to Configure VPN GTI Settings for a VPN Service.
- To use Dyn Mesh go to the **VPN Settings** and verify that **Disable Dyn Mesh** is set to **no** for each VPN service.

Step 1. Create a VPN Group

VPN Groups contain the default setting for all VPN tunnels in the group and the list of VPN services used to create the tunnels.

1. Go to **CONFIGURATION > Configuration Tree > Multi-Range > Global Settings > VPN GTI Editor**.
2. Click **Lock**.
3. Click **+** to add a new VPN Group

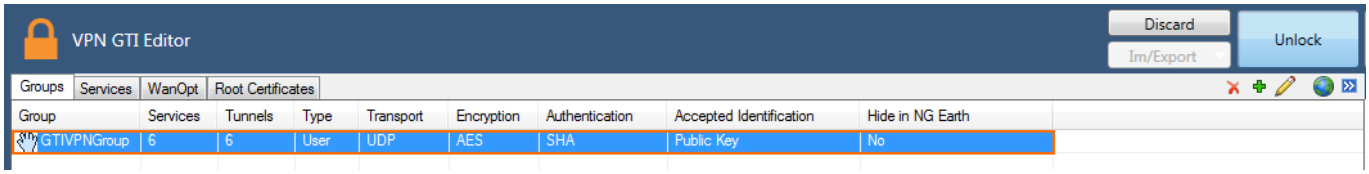


4. Enter the **Name**.
5. Click **OK**. The **Group** window opens.
6. Edit the default **TINA** settings**.**
7. Configure the following optional settings:
    - **Dynamic Mesh** – Set to **yes** to use allow the VPN services to create on-demand VPN

tunnels. For more information, see How to Configure a Dynamic Mesh VPN with the GTI Editor.
- **Dynamic Mesh Timeout** – Enter the number of seconds before a dynamic tunnel is
- **WANOpt Policy** – If you want to use WAN Optimization, select one of the policies from the dropdown.
- **Hide in Barracuda Earth** – Set to **yes** to not display these tunnels in Barracuda Earth. This also disables the tunnel icon on the Control Center status page.
- **Meshed** – Set to **yes** to automatically create a static fully meshed VPN network.
- **Hub for this Group** – If you already added VPN services to the Group, select the VPN hub.
- **Service Placement** – Select **Classic circular** to automatically arrange all VPN services in a circular pattern. If one service is selected as the VPN hub, it is placed in the center of the circle. **User** allows the user to arrange the VPN services.

8. (optional) Click **Edit IPSec** and edit the default **IPsec** settings.
9. Click **OK**.
10. Click **Send Changes** and **Activate**.

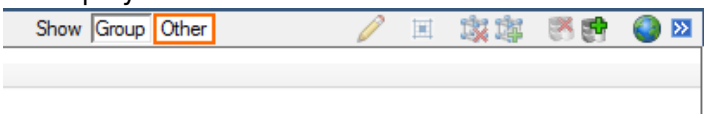
The VPN group is now listed in the **Groups** tab.



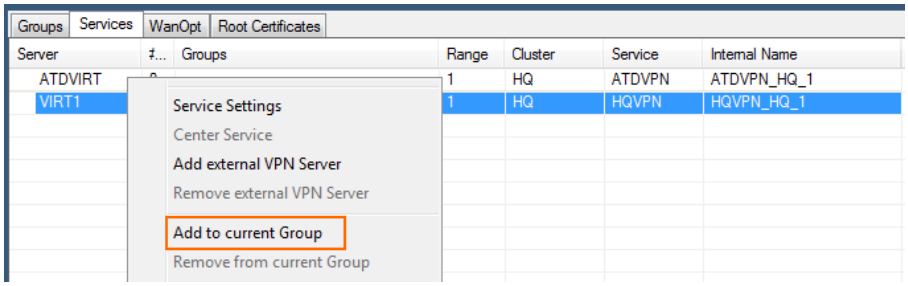
Step 2. Add VPN Services to the VPN group

Add the VPN services to the VPN group. If you are using the GTI editor on the range or cluster level, only add VPN services from the range or cluster you are in to the VPN group.

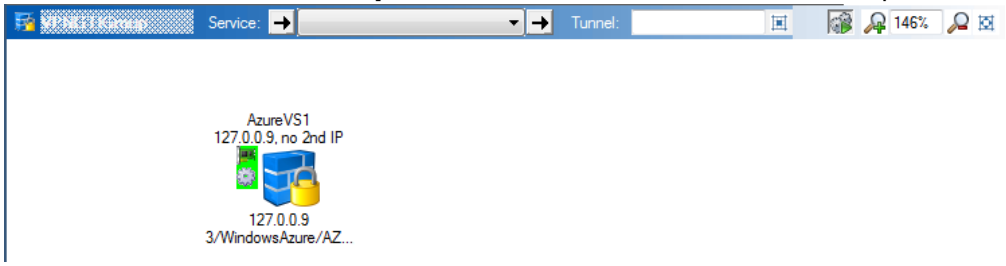
1. Go to **CONFIGURATION > Configuration Tree > Multi-Range > Global Settings > VPN GTI Editor**.
2. Click **Lock**.
3. In the **Group** tab click on the VPN group. The VPN group name is displayed in the top status bar of the GTI map.


4. Click on the **Services** tab.
5. To display the available VPN services click **Other** on the top right.


6. For each VPN service you want to add to the VPN group:
    1. Right click on the VPN service



2. Click **Add to current Group**. The VPN service is added to the map area below.

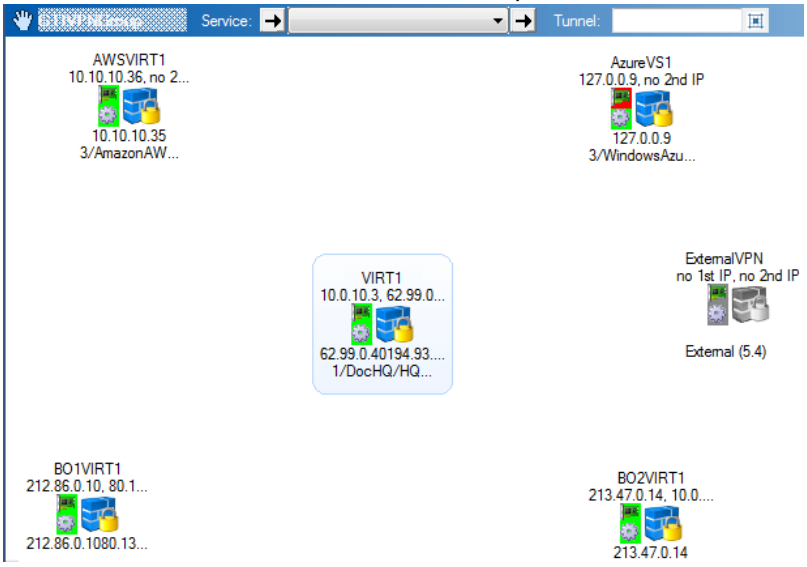


7. Click **Send Changes** and **Activate**.

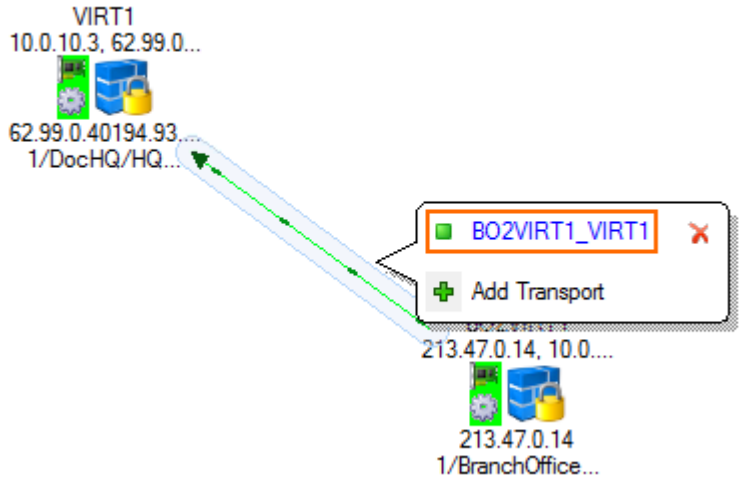
Step 3. Create a VPN Tunnel

Create VPN tunnels by drag and dropping connections from one VPN service to the other. Per default the VPN service you start with is the active unit, the destination the passive unit. This can be changed in the tunnel configuration settings.

1. Go to **CONFIGURATION > Configuration Tree > Multi-Range > Global Settings > VPN GTI Editor**.
2. Click **Lock**.
3. In the **Group** tab click on the VPN group. The VPN group name is displayed in the top status bar of the GTI map.
4. Click on the **Server** tab. In the GTI map area the VPN services icons in the VPN are displayed.



5. Create a VPN tunnel by drag and drop from the active VPN service to the passive VPN service. A line is displayed between the VPN services.
6. Click on the connection between the two VPN services and click on the transport you want to edit. Per default TINA VPN tunnels are created with one transport.



7. You can now modify the VPN tunnel as needed:
   - **Direction** – You can create VPN tunnels using the following modes: **active-active**, **active-passive**, **on-demand**.
   - **Transport Source IP/Interface** – If needed you can modify the transport source IP. Per default the IP address.
   - **Transport Listening IP/Interface** – If needed you can modify the transport listening IP.
   - **Local Network** – If needed modify the networks that are available through this VPN tunnel.
8. Click **Send Changes** and **Activate.**

You can view the collective state of all GTI VPN tunnel of a NextGen Firewall F-Series on the Status page of the Control Center.

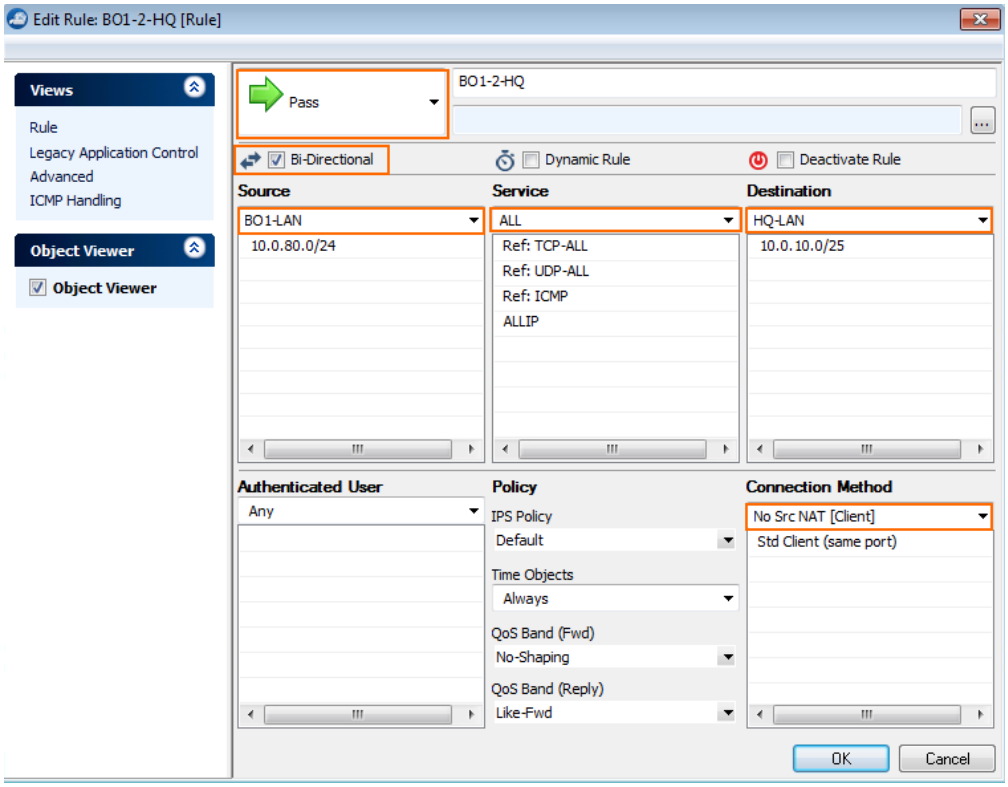
Step 4. Create Access Rules to Allow VPN Traffic

You must create access rules on both firewalls involved in the VPN tunnel to allow traffic in and out of

the VPN tunnel.

Example Access Rule for a VPN tunnel from Branch Office 1 (BO1) to the Headquarters (HQ). The access rules need to be added to the BO1 and HQ forwarding firewall:

- **Action** – Select **PASS**.
- **Bi-Directional** – Enable bidirectional.
- **Source** – Select the network object for the **BO1 LAN.**
- **Service** – Select **ALL**.
- **Destination** – Select the network object for the **HQ LAN.**
- **Connection Method** – Select **No Src NAT [Client]**.



Next Steps

- You can use the GTI editor to configure a Dynamic Mesh. For more information, see How to Configure a Dynamic Mesh VPN with the GTI Editor.
- You can use the GTI editor to configure additional transports using Traffic Intelligence. For more information, see How to Configure Traffic Intelligence Using the VPN GTI Editor.
- You can use the GTI editor to configure Traffic Shaping for the VPN tunnels. For more information, see Traffic Shaping.

Figures

1. gti_groups01.png
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