NGAF
Best Practices for Scenarios_Bandwidth Management
Version 8.0.17
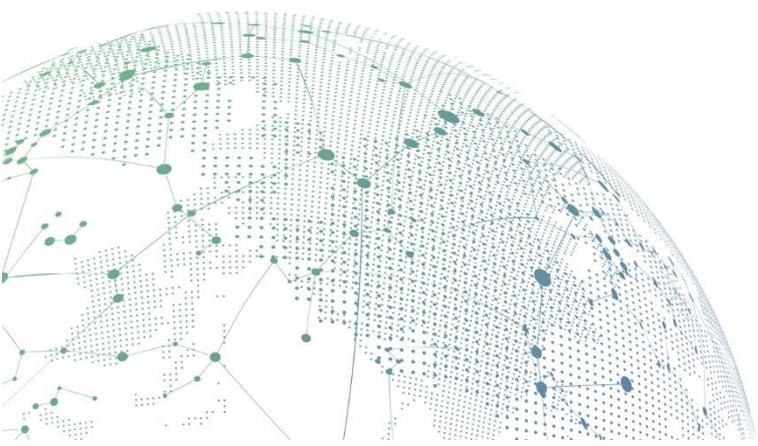
Change Log

| Date	Change Description
July 13, 2020	Version 8.0.17 document release.
May 17, 2021	Document update.

CONTENT

Chapter 1 Scenario

A small and medium-sized enterprise has limited network bandwidth, and increasing the bandwidth requires more costs. A large number of people on the network currently browse Youtube during work hours, which results in low work efficiency and at the same time online video takes up a lot of bandwidth. Customers want to optimize bandwidth use.

The difference between limited bandwidth and guaranteed bandwidth:

The guaranteed channel is based on the guaranteed minimum bandwidth value. In the case of high bandwidth usage, the priority of high bandwidth usage is guaranteed. The guaranteed bandwidth is suitable for users with high priority, such as management; or web browsing, mail, office OA and other priorities High application. Limited channel mainly limit the maximum bandwidth available to users, and are suitable for ordinary employees or low-priority applications such as downloads and p2p.

Chapter 2 Basic Configuration

1. Bandwidth management uses a database to identify application, so make sure that the database has been upgraded to the latest before configuring bandwidth management.
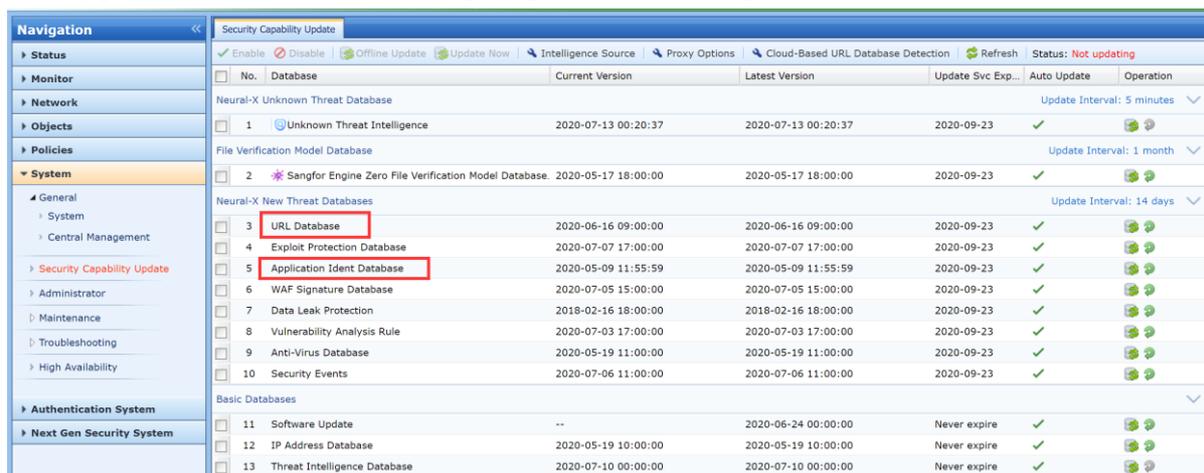

2. Check the network port configuration, determine which port is the WAN port and check whether the "WAN attribute" is checked. When configuring the line for bandwidth management, you **can only select** network ports with "WAN attribute".
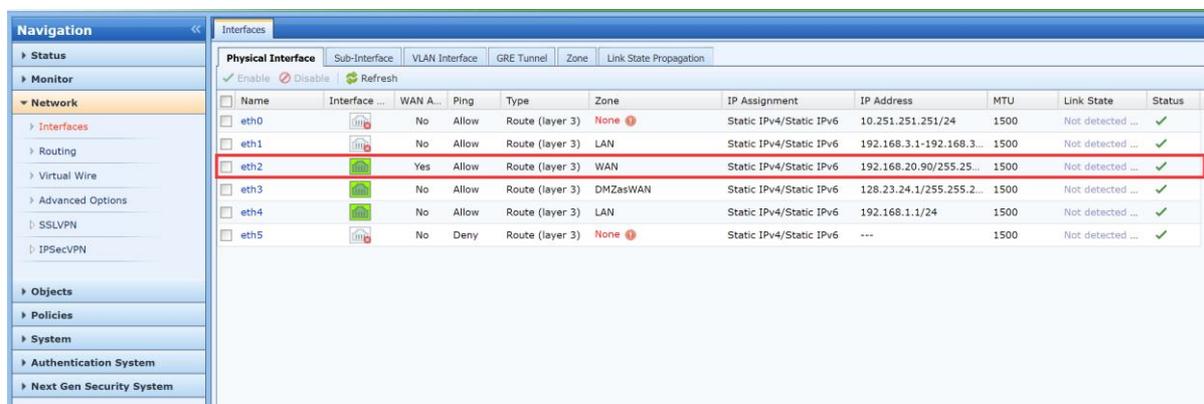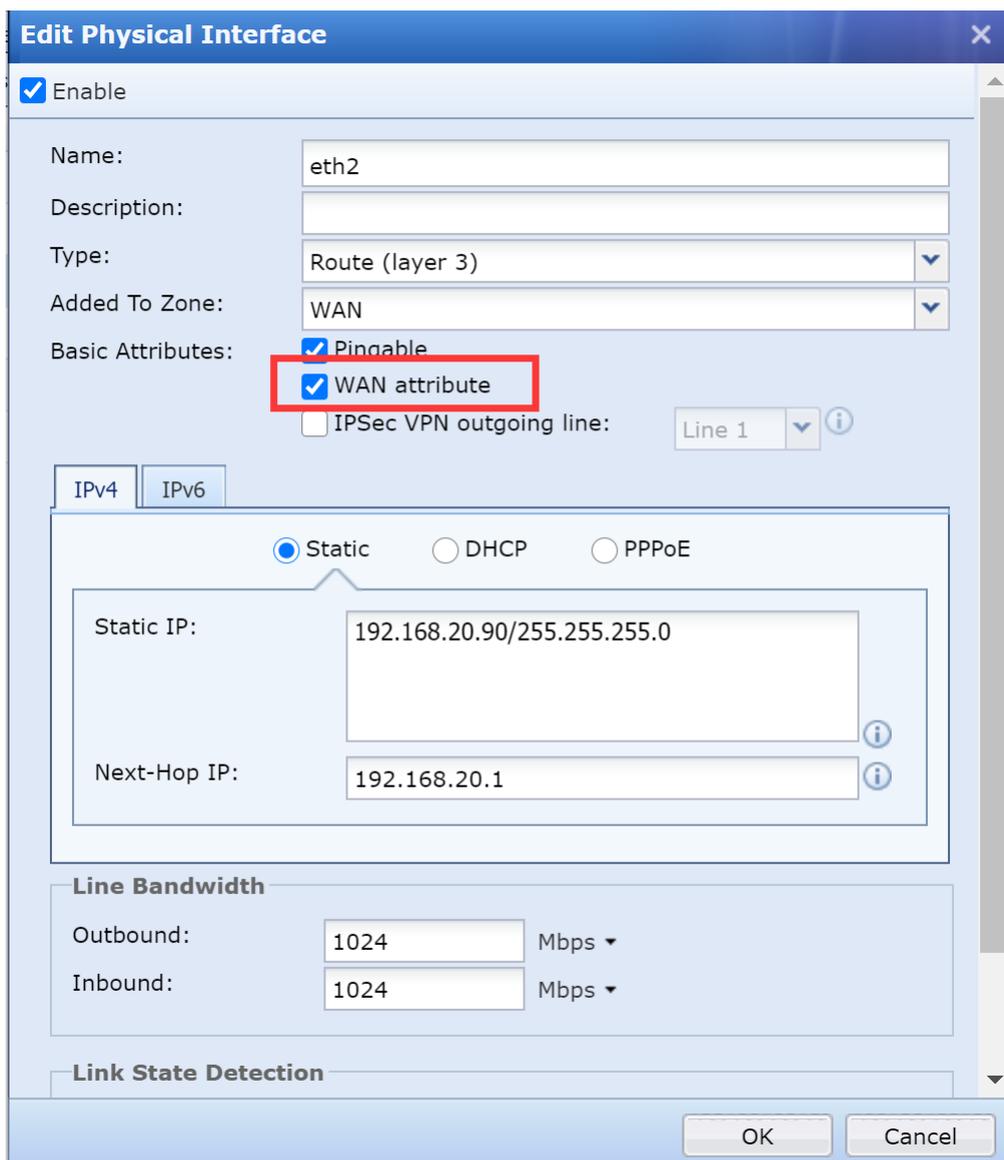
Only network ports configured with WAN attributes can be selected.
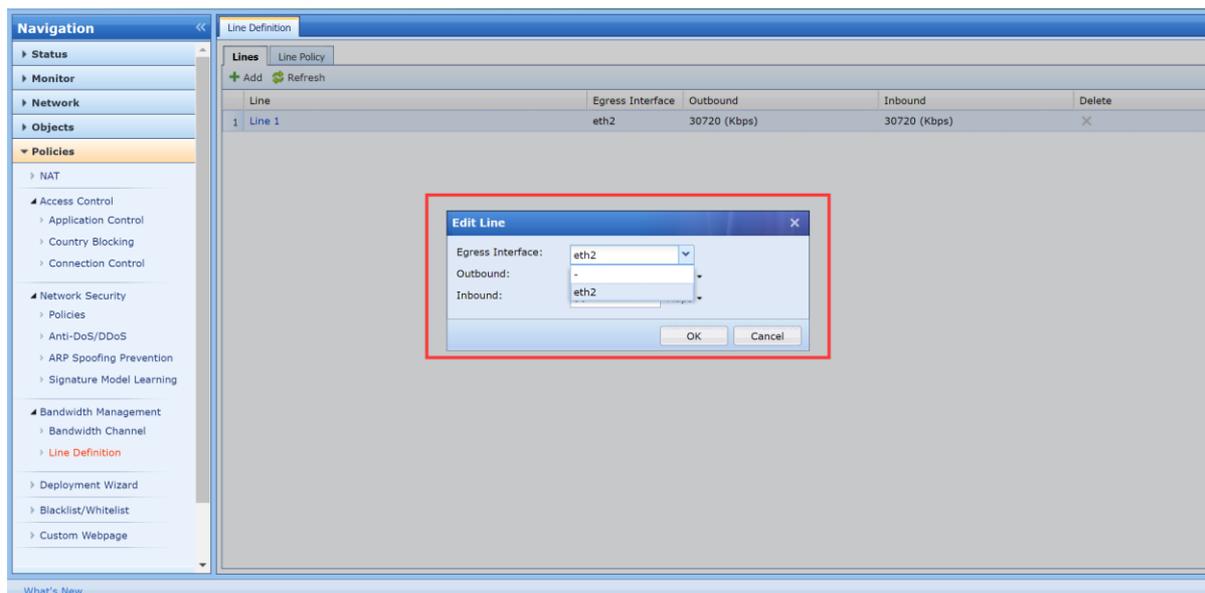
3. After the line is created, you need to configure the line policy to define the line.
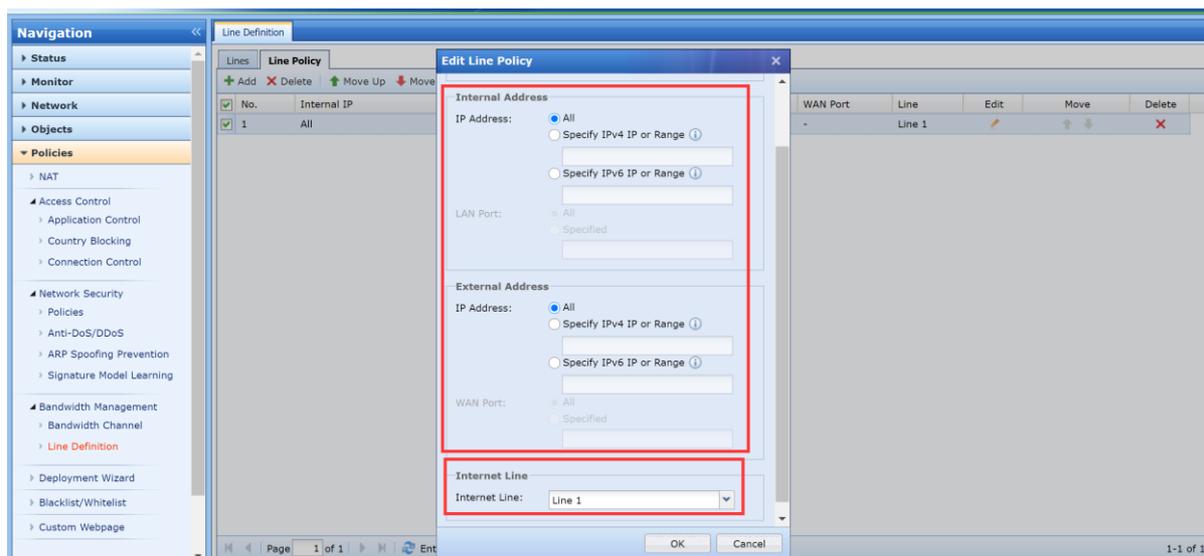
Chapter 3 Advanced Configuration

1. Now some websites use the QUIC protocol, and the current device cannot decrypt the QUIC protocol or even recognize the URL in the data packet, so it is recommended to block the QUIC protocol during testing. After deny the QUIC protocol, the browser will automatically negotiate to use the https protocol for data interaction.
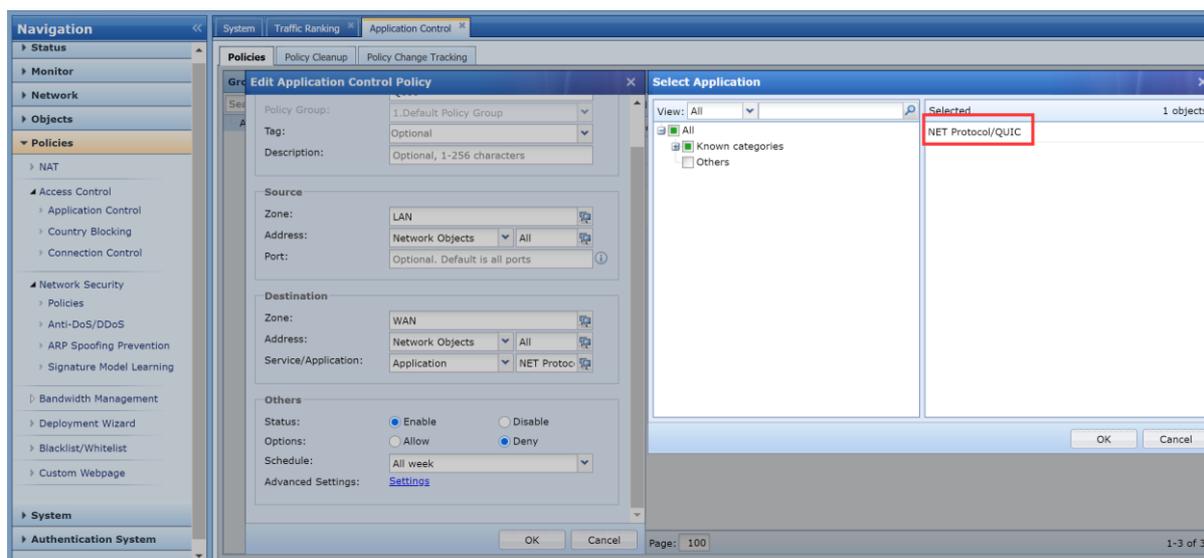

2. The **most important point** is to see which rules the application traffic is recognized by NGAF. Only then can the application rules be selected in the bandwidth management policy.

Bandwidth Management
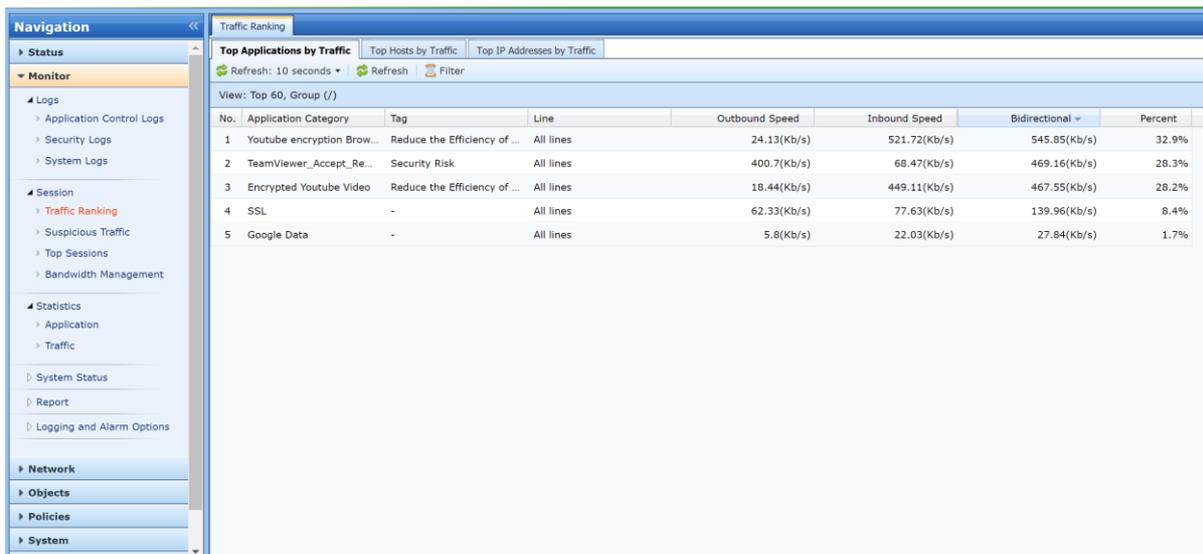
Select the corresponding application rule in the bandwidth management policy.
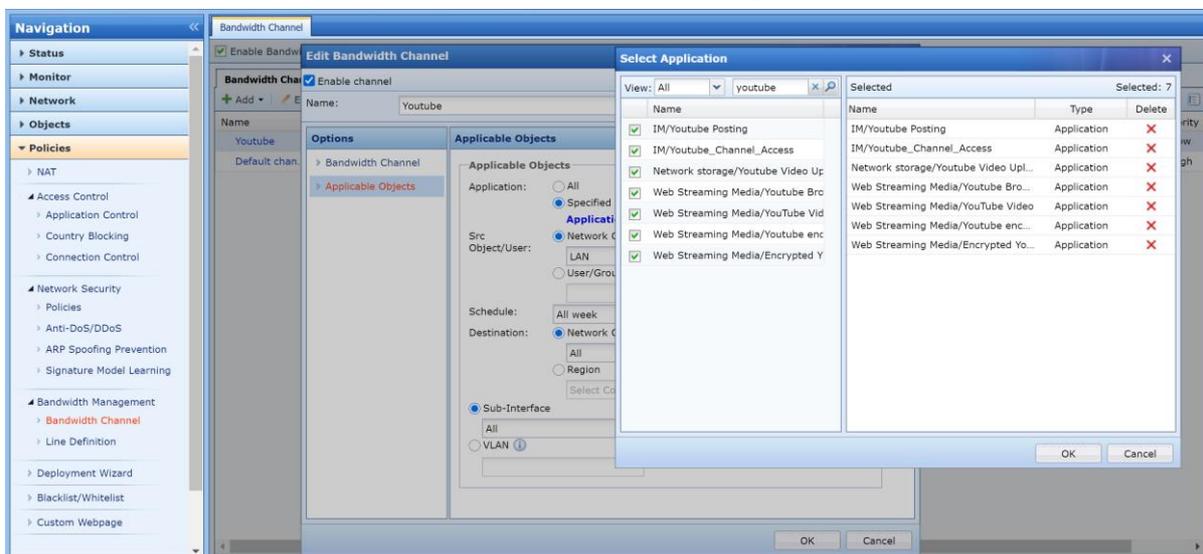
Then check the traffic status to see if the traffic has entered the flow control channel corresponding to the bandwidth management policy.

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