IAM

Best Practices for Scenarios_Bandwidth Management

Version 12.0.42

Change Log

Date	Change Description
Sept 21, 2020	Version 12.0.42 document release.
May 17, 2021	Version 12.0.42 document update.

CONTENT

Chapter 1 Scenario

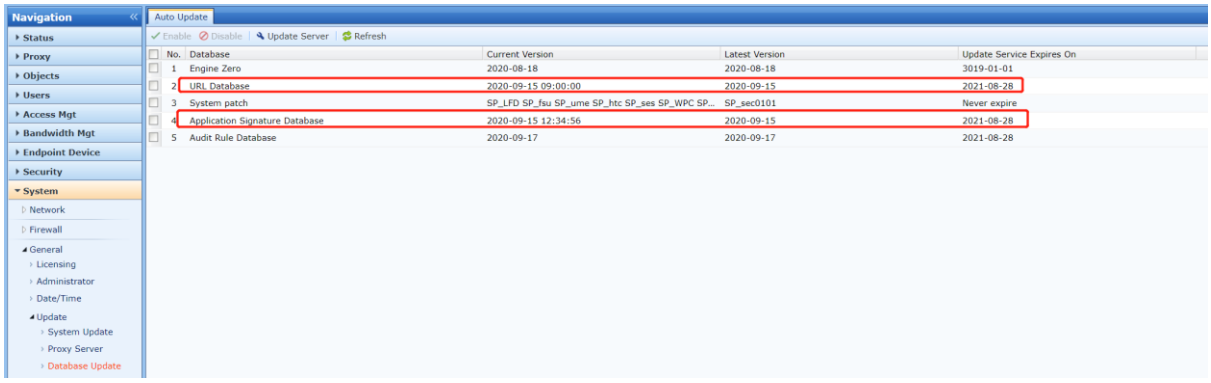
A small and medium-sized enterprise has limited network bandwidth, and increasing the bandwidth requires more costs. A large number of people on the network currently browse Youtube during work hours, which results in low work efficiency and at the same time online video takes up a lot of bandwidth.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

The difference between limited bandwidth and guaranteed bandwidth:

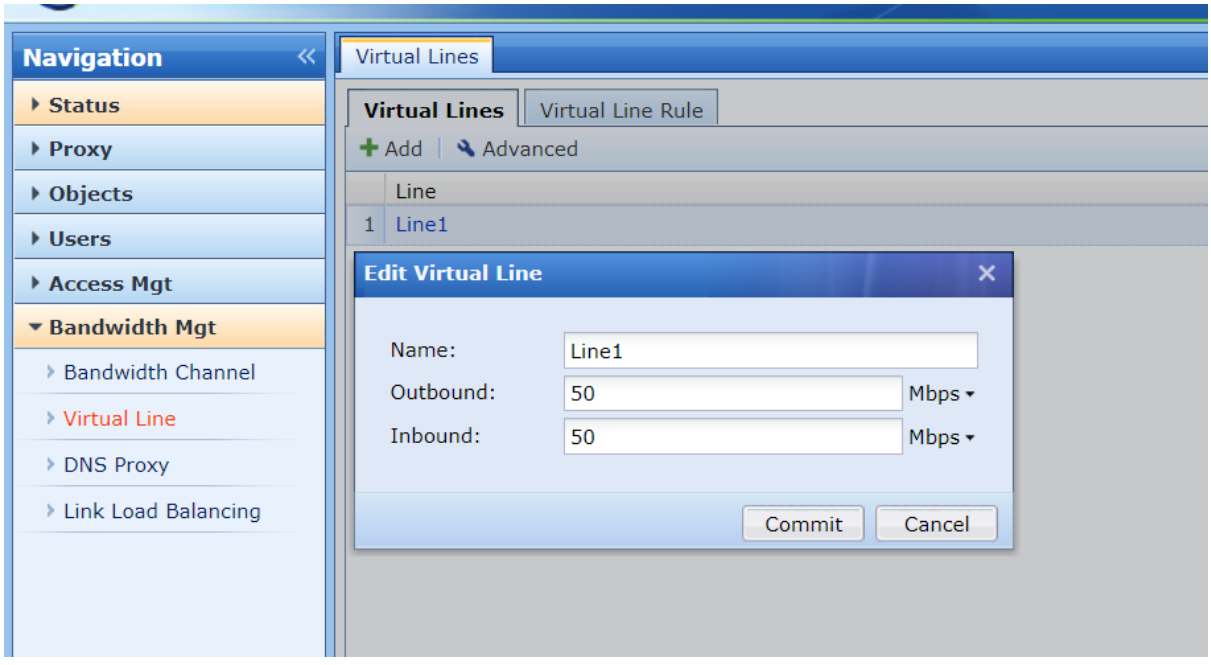
The guaranteed channel is based on the guaranteed minimum bandwidth value. In the case of high bandwidth usage, the priority of high bandwidth usage is guaranteed. The guaranteed bandwidth is suitable for users with high priority, such as management; or web browsing, mail, office OA and other priorities 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.

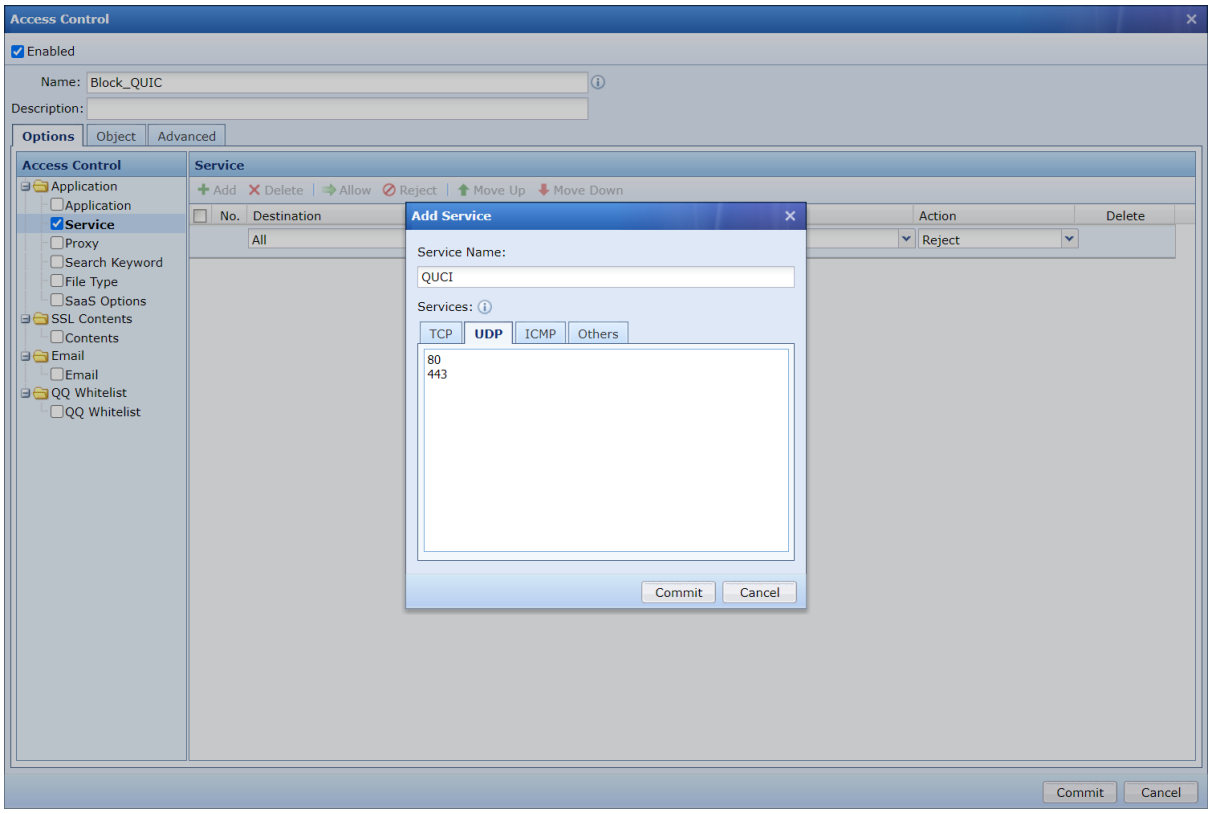


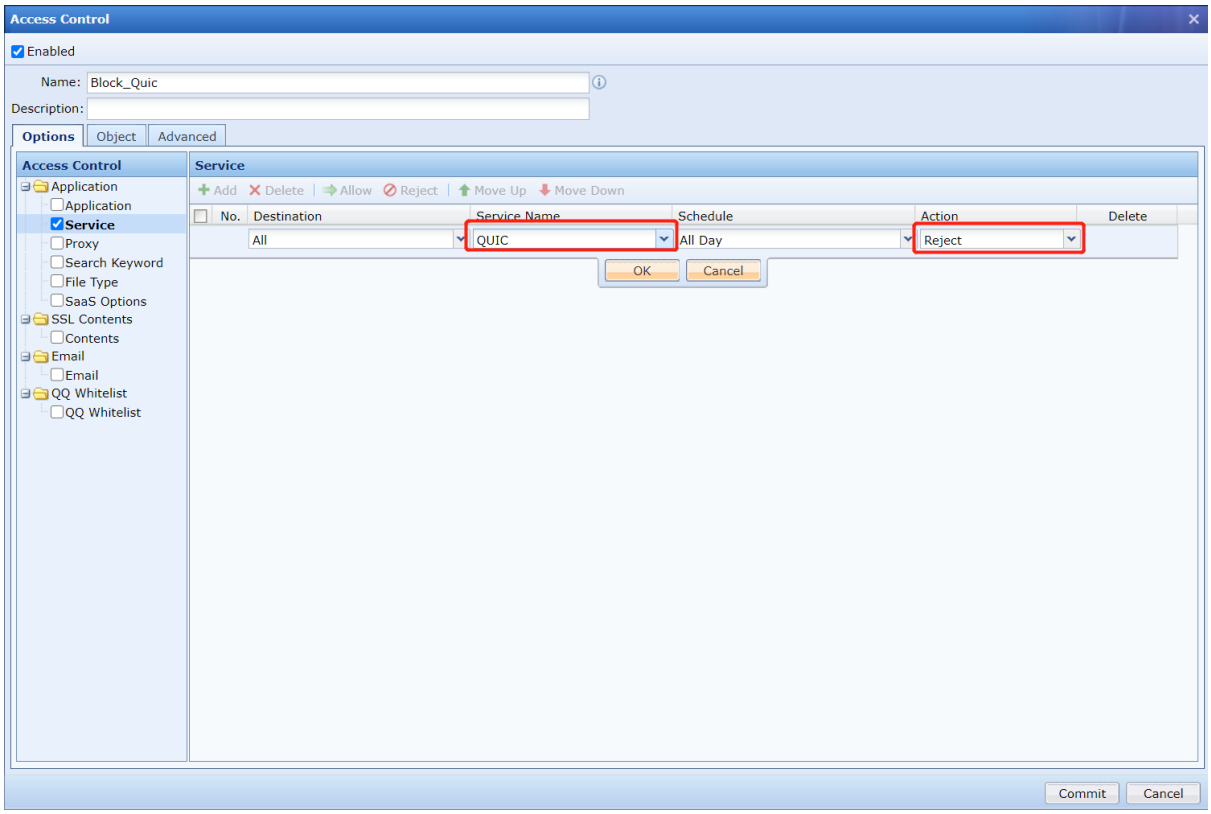
2. Please fill in the real bandwidth value, because the bandwidth management policy is based on the percentage of the total bandwidth of the line to allocate, so you need to ensure that the line bandwidth is the true bandwidth of the line. Note that the units b and B, and the actual bandwidth of the line may not reach the value provided by some ISP.



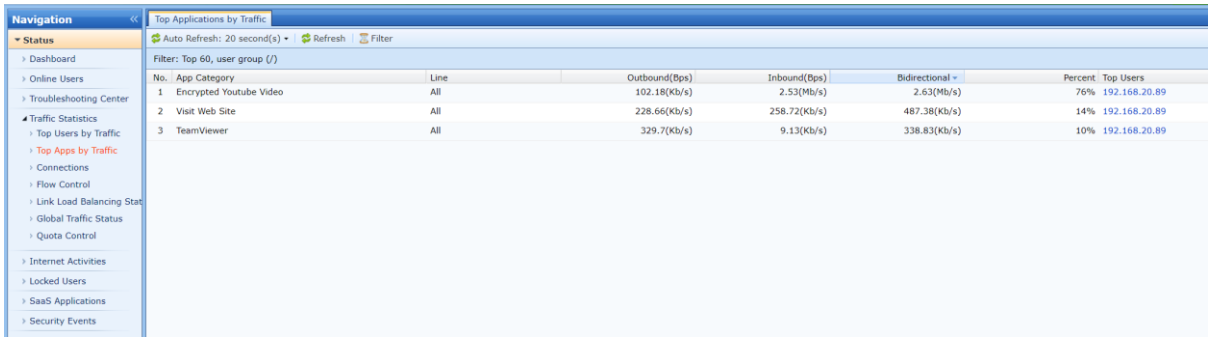
Chapter 3 Advanced Configuration

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 prohibiting the QUIC protocol, the browser will automatically negotiate to use the https protocol for data interaction.

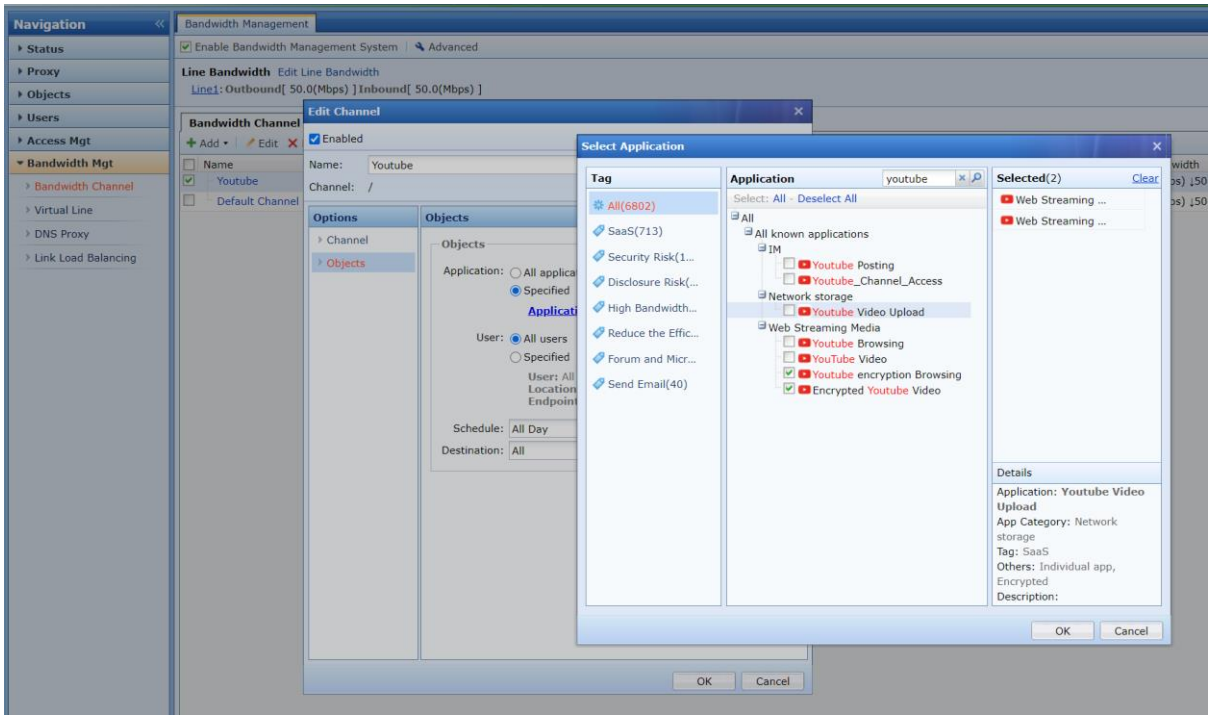




2. The **most important point** is to see which rules the application traffic is recognized by IAM. Only then can the application rules be selected in the bandwidth management policy.



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.