Sangfor NGAF

Bandwidth Management Configuration Guide

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Change Log

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1 Introduction

1.1 Abbreviations and conventions

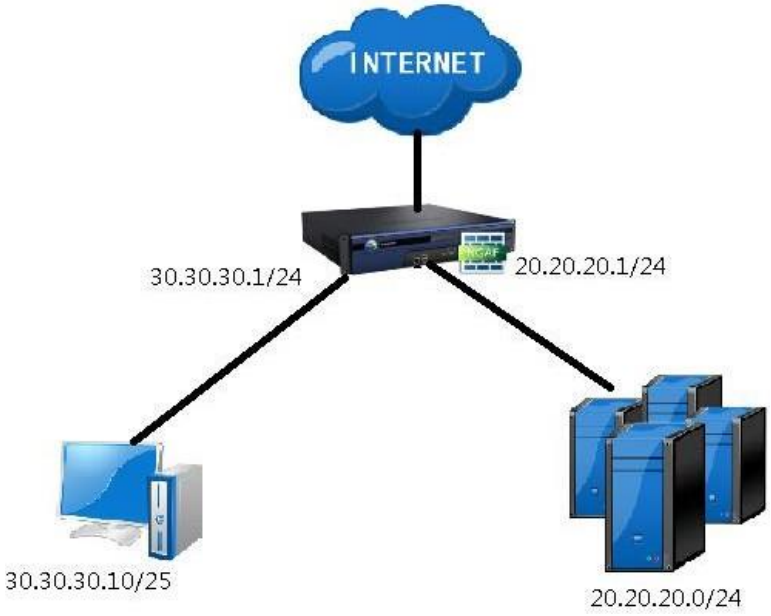
NGAF in this article refers to the SANGFOR NGAF device.

1.2 Feedback

If you find any questions about this document, please feel free to give us feedback, email: tech.support@sangfor.com.

2 Application Scenario

To prevent thunder downloaders in LAN, the application that occupies the highest bandwidth is video browsing. If the bandwidth has been occupied by video browsing it may cause another user who needs Internet access to have very little bandwidth. Usually, this is used to control the traffic in a LAN. The following diagram is the topology to test bandwidth management:



Configuration Step:

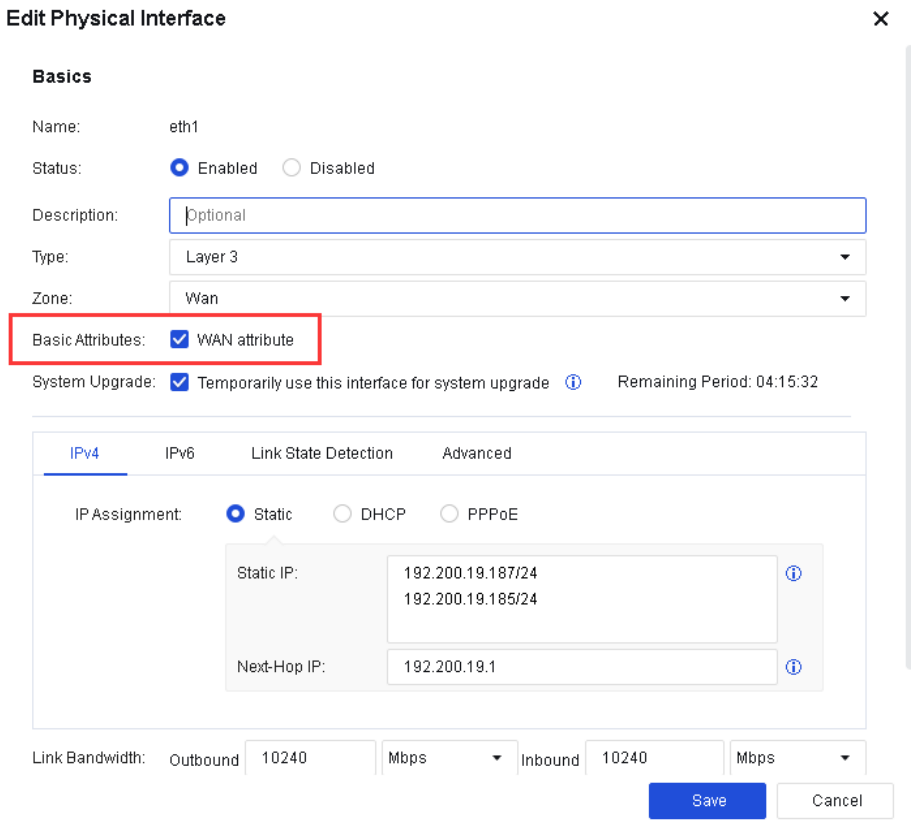
(1) Set the corresponding external interface as the WAN attribute.

(2) Create a new line policy.

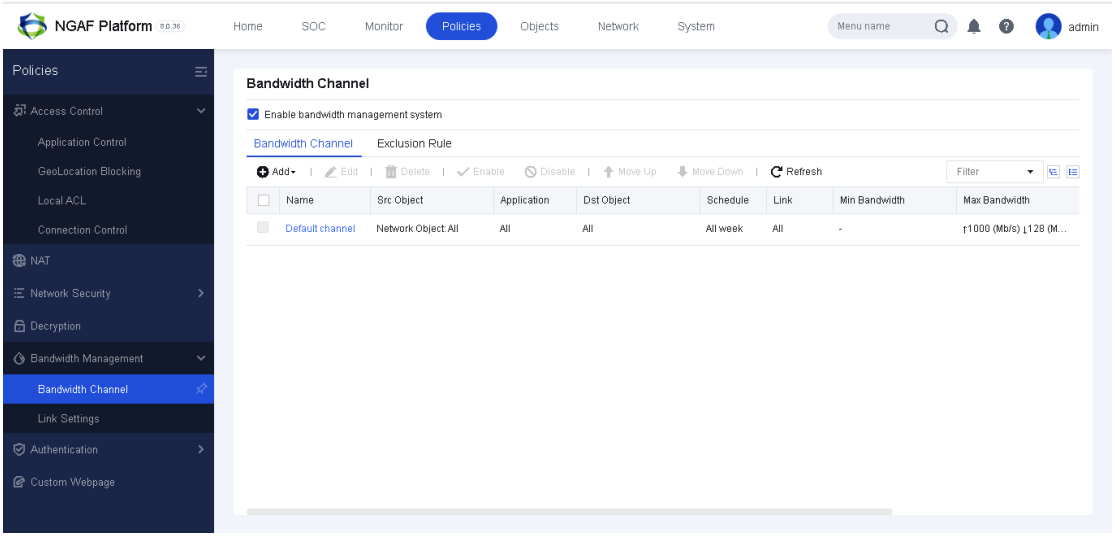
(3) Configure the bandwidth channel and select the corresponding application.

3 Configuration Method

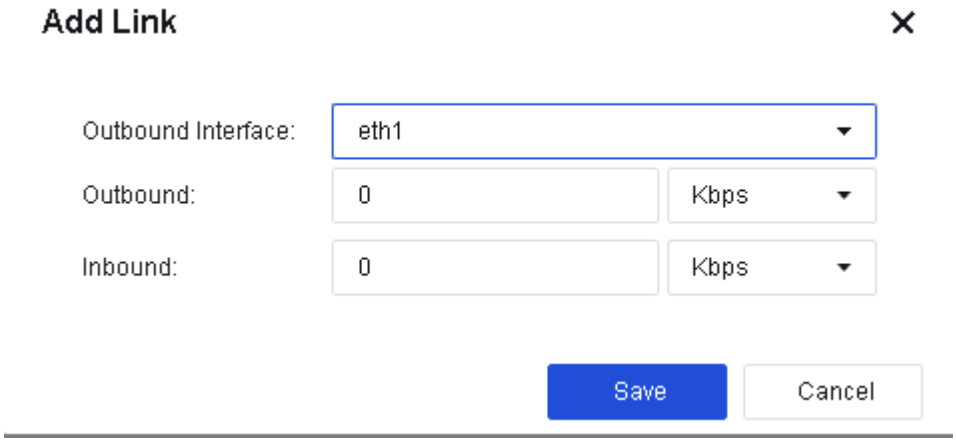
Step 1. Go to **Network** > **Interfaces** to check which interface is the WAN attribute.



Step 2. Identify the requirement of the bandwidth control to a specific application of the LAN which includes guaranteed bandwidth. Then configure bandwidth according to requirement.



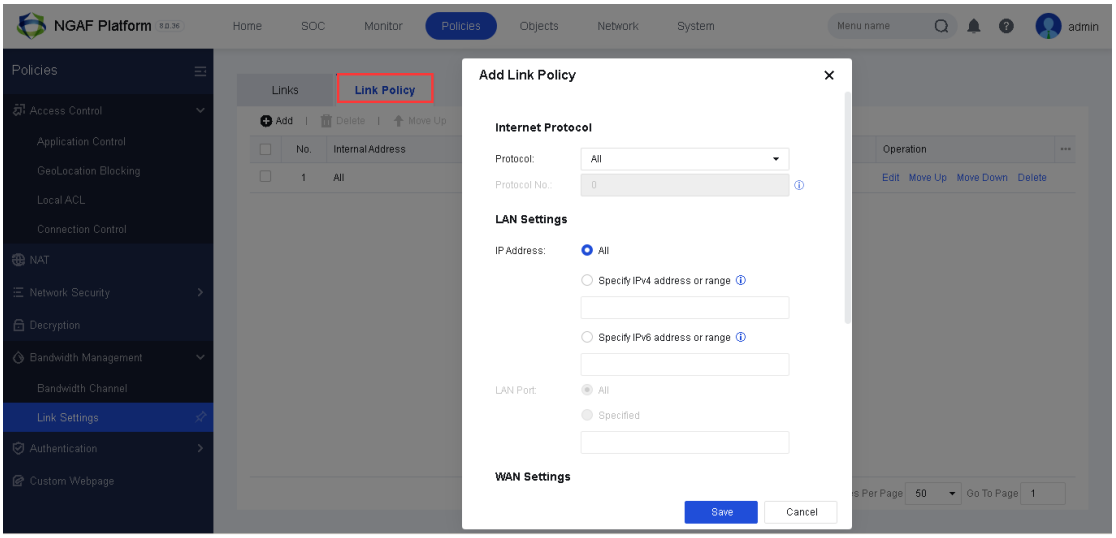
Step 3. Go to **Policies** > **Bandwidth Management** > **Link Settings**, click lines and add a new line and the interface as egress interface and configure the outbound and inbound bandwidth.



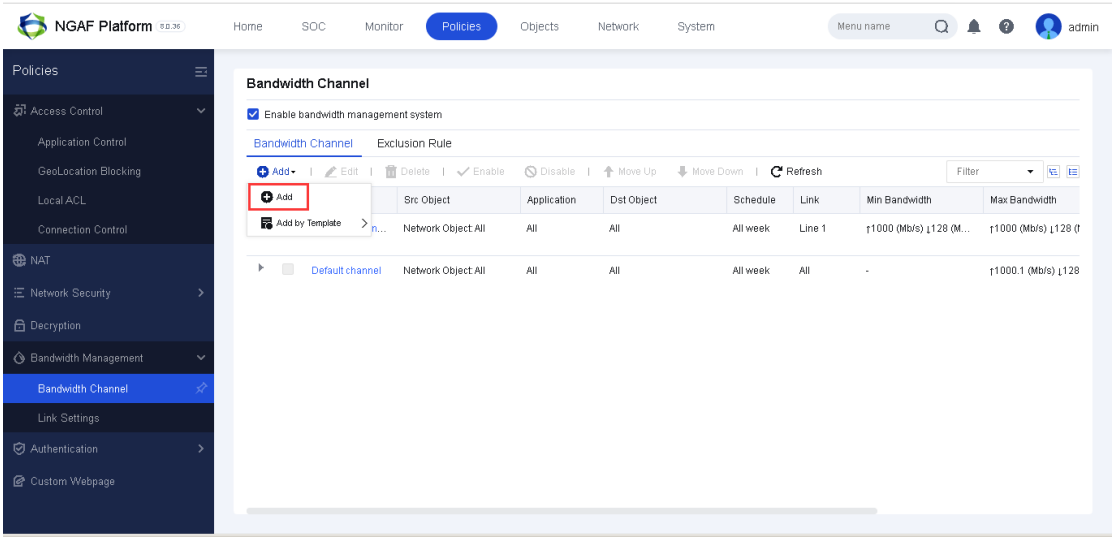
NOTICE

Outbound and inbound are recommended to fill in the actual bandwidth of the ISP. Otherwise, bandwidth control based on the bandwidth ratio may not take effect (1KB=8Kb, 1MB=8Mb).

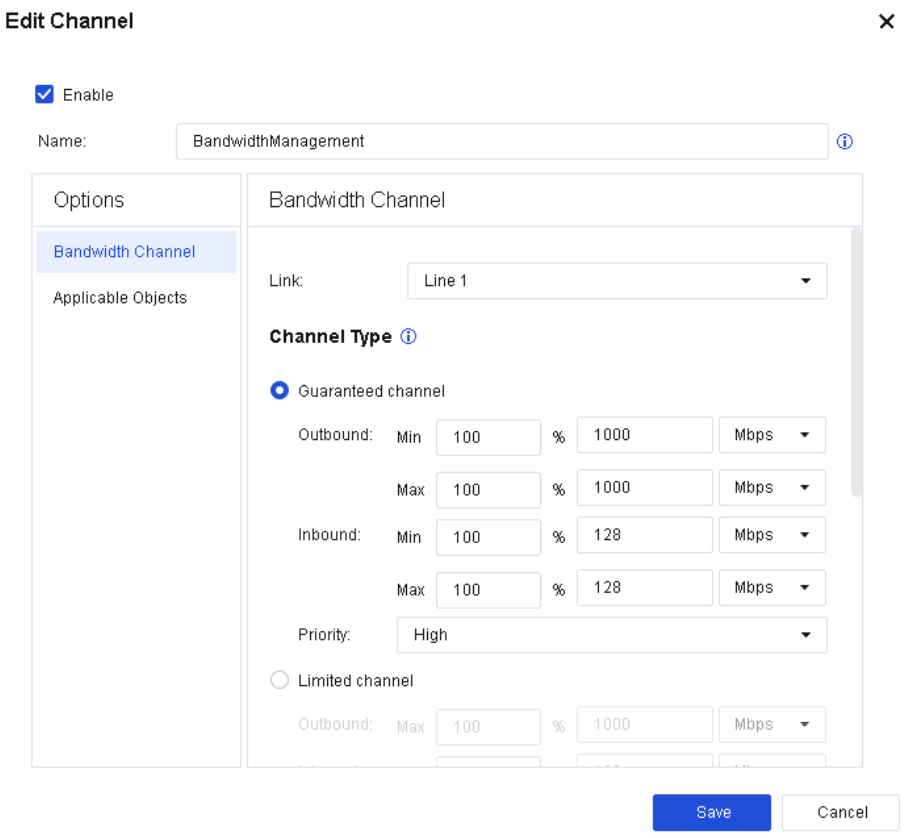
Step 4. Next click on the line policy to create a new line policy for the line that was just created.



Step 5. Go to **Policies** > **Bandwidth Management** > **Bandwidth Channel**, add a bandwidth channel.

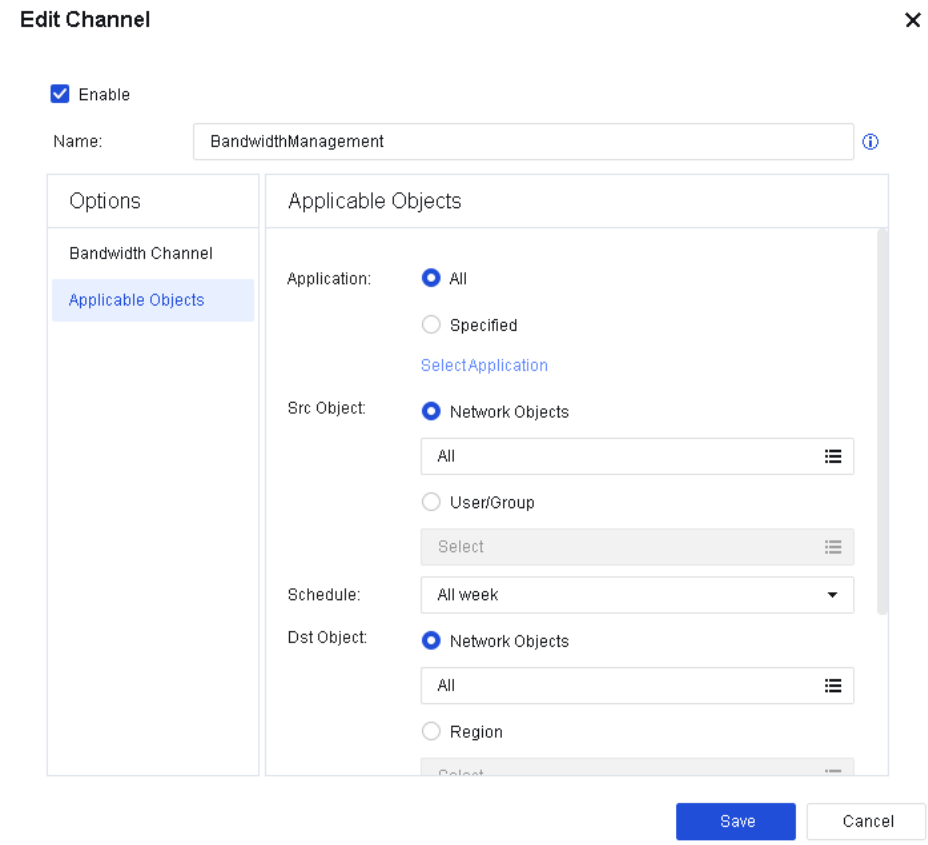


Step 6. Configure the **Guaranteed channel** or **Limited channel** accordingly, the target line is the line that you wish to control.

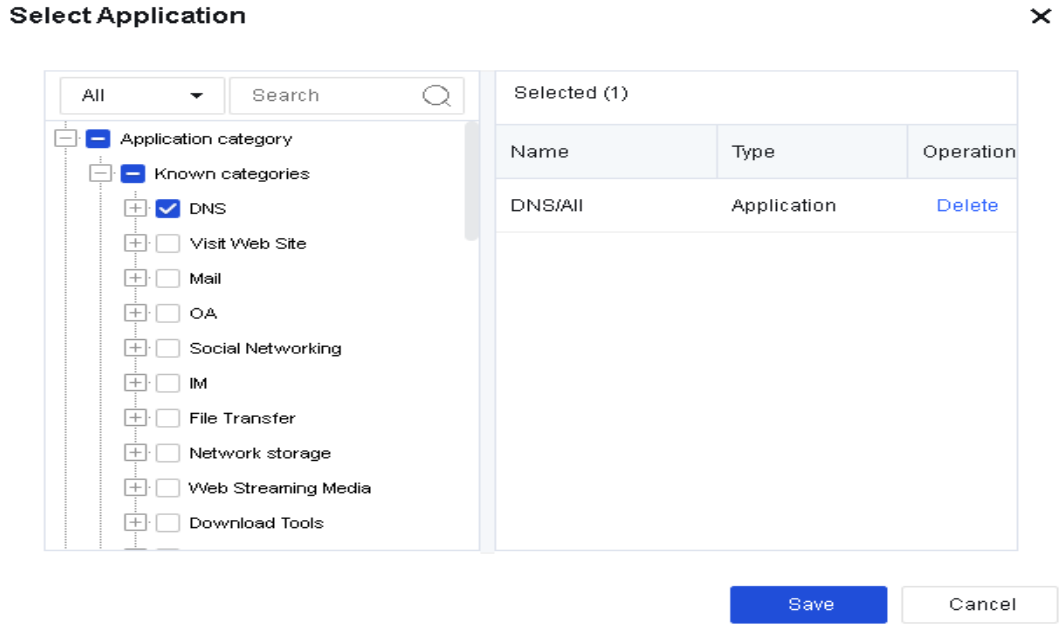


Step 7. If you wish to have bandwidth limit per-ser you may turn on Per-User Max Bandwidth.

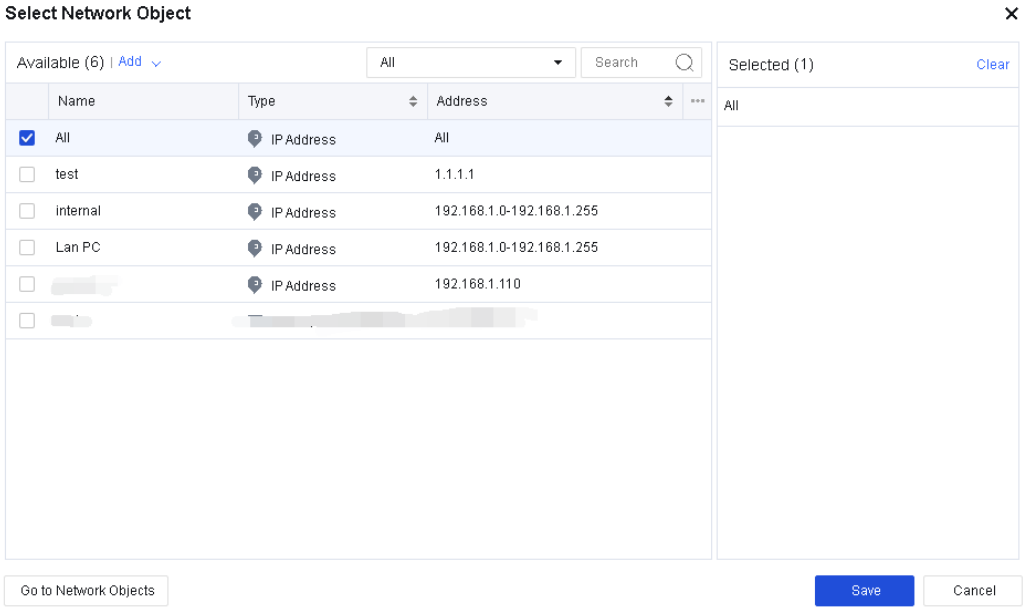
Step 8. Then click on Applicable Objects to configure the application that you wish to have applied bandwidth control.



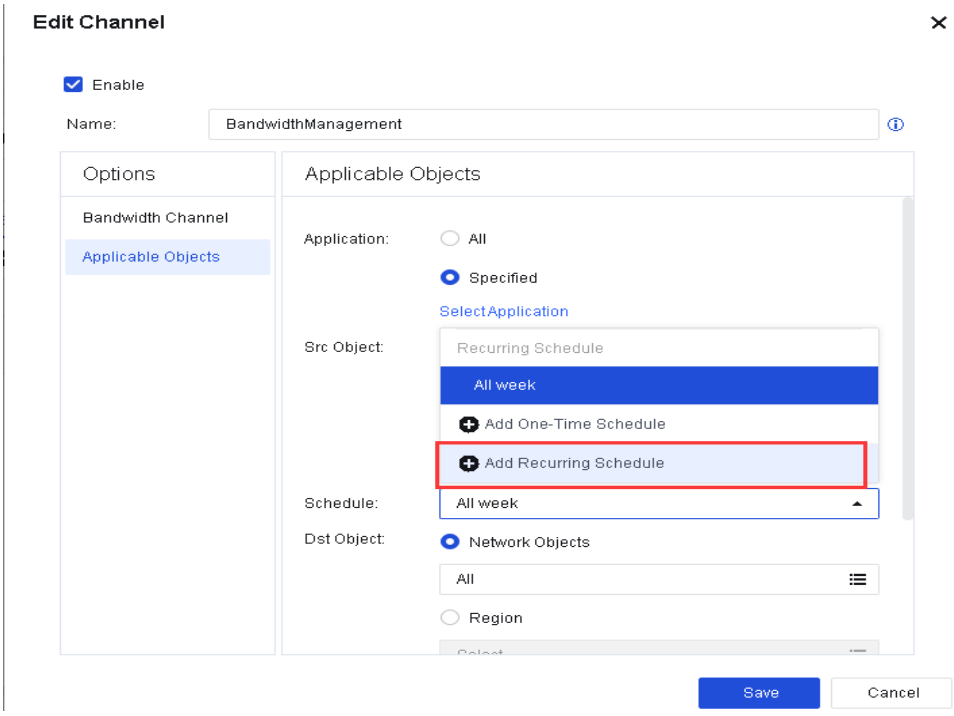
Step 9. Choose the application that you wish to apply bandwidth control.

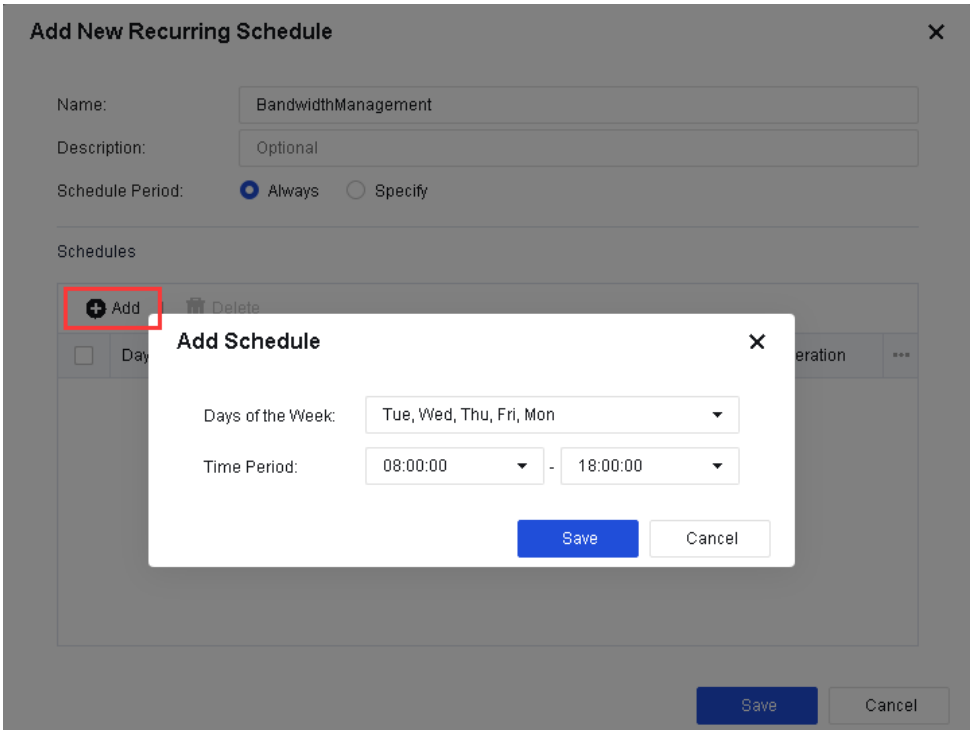


Step 10. Choose the IP group that you wish to have bandwidth control.

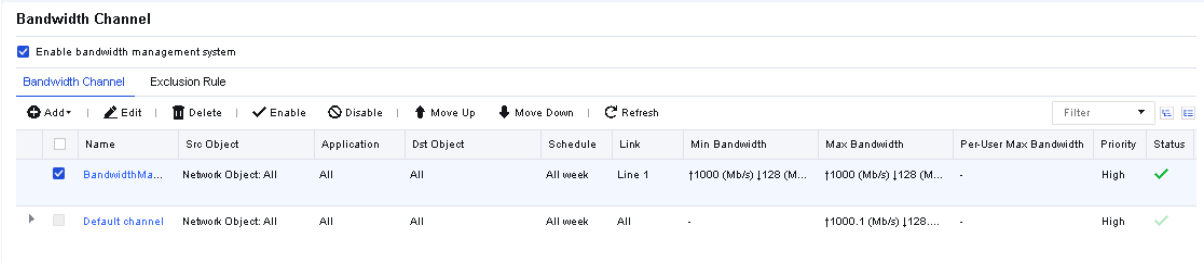


Step 11. If you wish to have a scheduled time, you can configure through **Applicable Objects** > **Schedule**. It allows you to have a one-time schedule or a recurring schedule. You can configure the time that you wish to have bandwidth control.

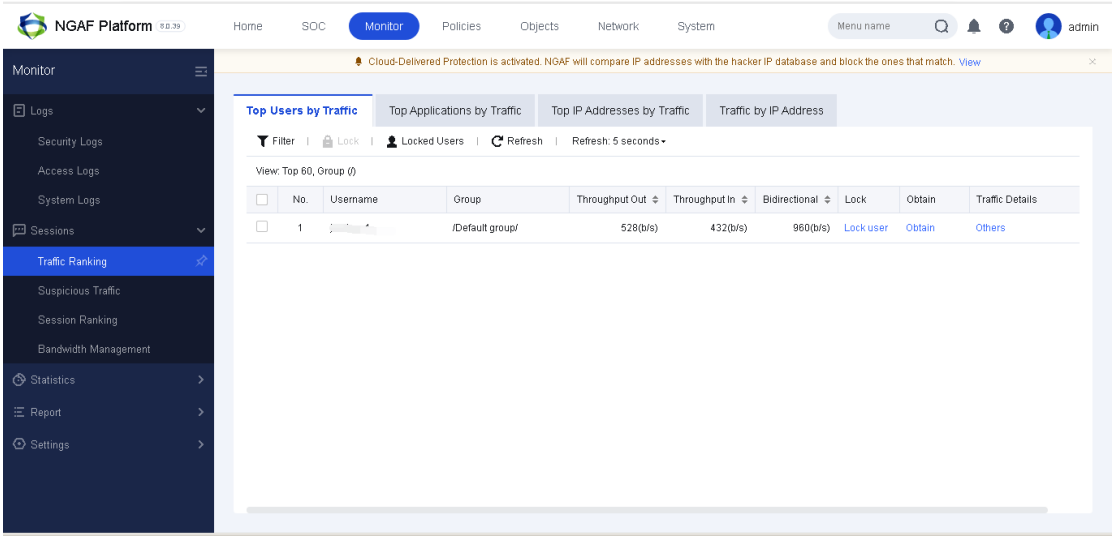




Step 12. After successfully configured the bandwidth, it should have an added bandwidth channel as the following figure.



Step 13. **Monitor** > **Sessions** > **Traffic Ranking** will show the IP that you configure in the previous step. It shows the inbound and outbound traffic flow.



4 Precautions

1. Ensure that NGAF has Internet access and the application control should be allowed.
2. LAN PC must able to access the firewall and the LAN interface.
3. When testing for bandwidth management, do not use www.sangfor.com.cn download package because it has been listed in the global whitelist.
4. To test for bandwidth management. Directly download a file to test the speed and do not use 360-speed tests because it will optimize the speed.
5. VPN does not support bandwidth management.
6. The external interface is set to the WAN attribute for bandwidth management to take effect.

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