SANGFOR_NGAF_v7.4_
Connection Control Configuration

SANGFOR Technologies Inc.

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1 Introduction

1.1 Abbreviations and conventions

AF in this article refers to the SANGFOR NGAF device.

1.2 Feedback

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

2 Scenario

Connection control is used to specify the maximum number of connection for each IP address. The connection control is divided into *Source IP-based connection control*, *Destination IP-based connection control* and *Bidirectional IP-based connection control.*

i. **Source IP-based connection control**: When an intranet user downloads content in P2P mode or a computer on the intranet is infected by a virus, there may be many connections set up in a short period. This will affect the device performance. Henceforth, set the Source IP-based connection control to limit the maximum number of connections allowed for each IP address which can help to reduce network resource usage.

ii. **Destination IP-based connection control: It specifies the maximum number of connection allowed for each destination IP address.**

iii. **Bidirectional IP-based connection control: It specifies the maximum number of connection allowed for both source and destination IP address.**
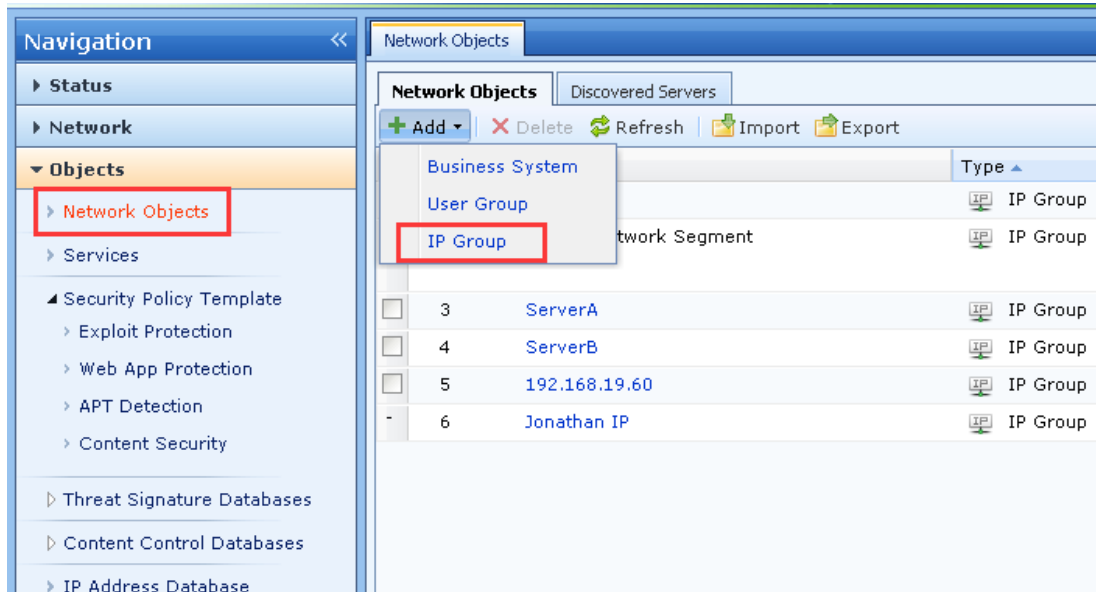
3 Configuration Steps

i. In **Object > Network Object > Add > IP Group** to create a new IP group.

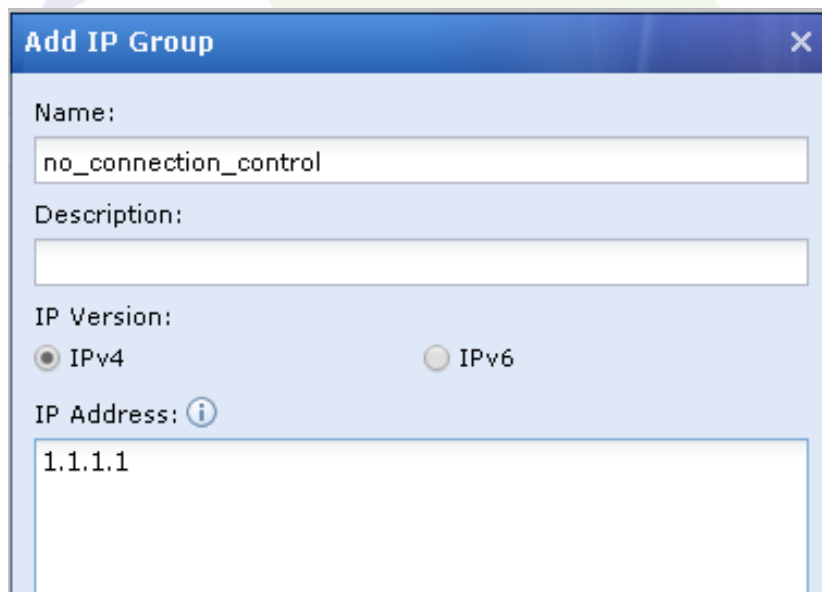ii.   Enter IP address which is needed to control into *IP Group* and save the configuration.
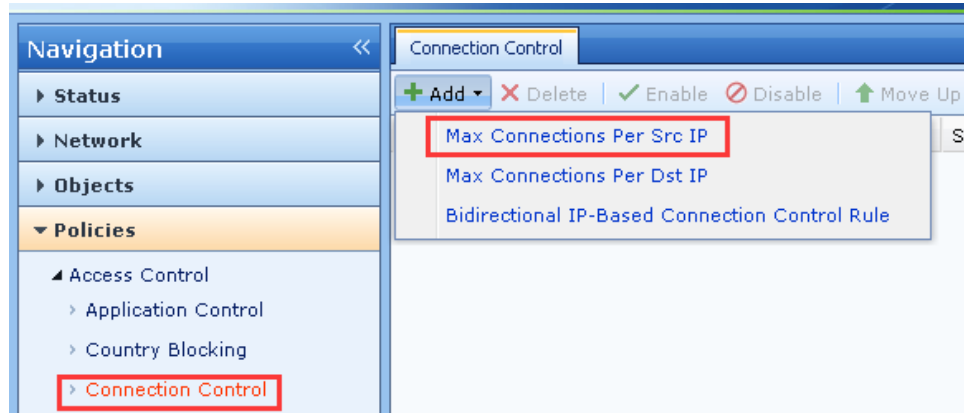

3.1   Source IP-based Connection Control

i.   In Policies > Connection Control > Max Connections Per Src IP to add a new source IP-based connection control.

- **Source Zone**: Select the corresponding zone for limiting.

- **Network Objects**: Select the target object.

- **Max Concurrent Connections Per IP**: Set up the maximum number of concurrent connection for each IP address.

3.2 Destination IP-Based Connection Control

i. In **Policies > Connection Control > Max Connections Per Dst IP** to add a new destination IP-based connection control.
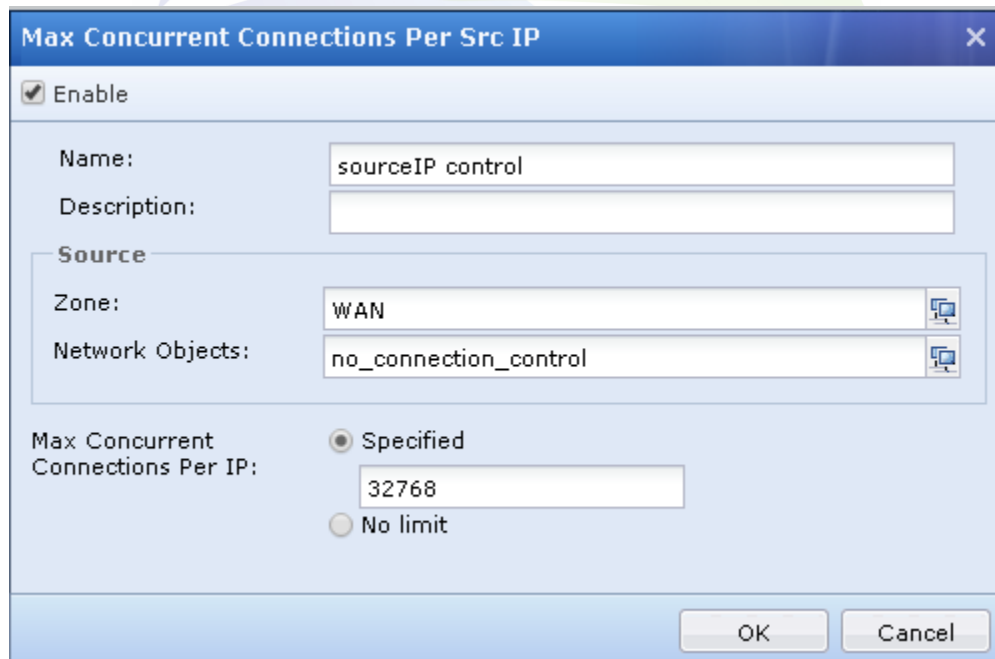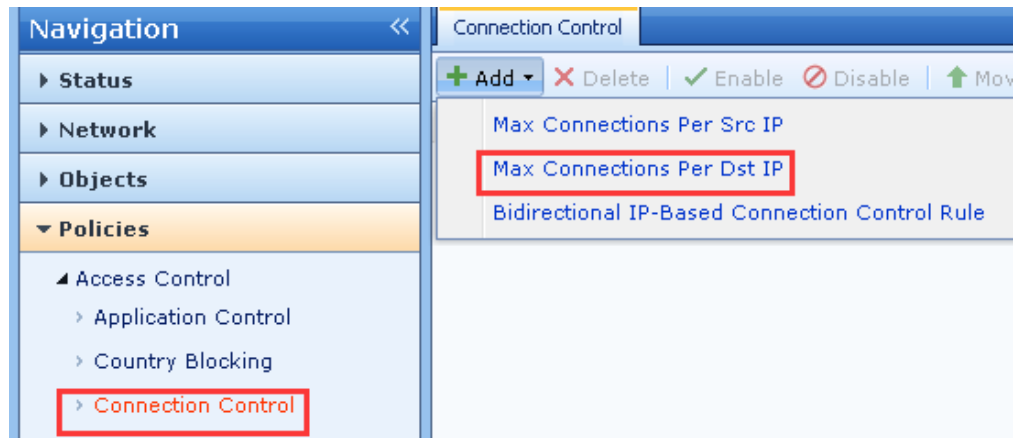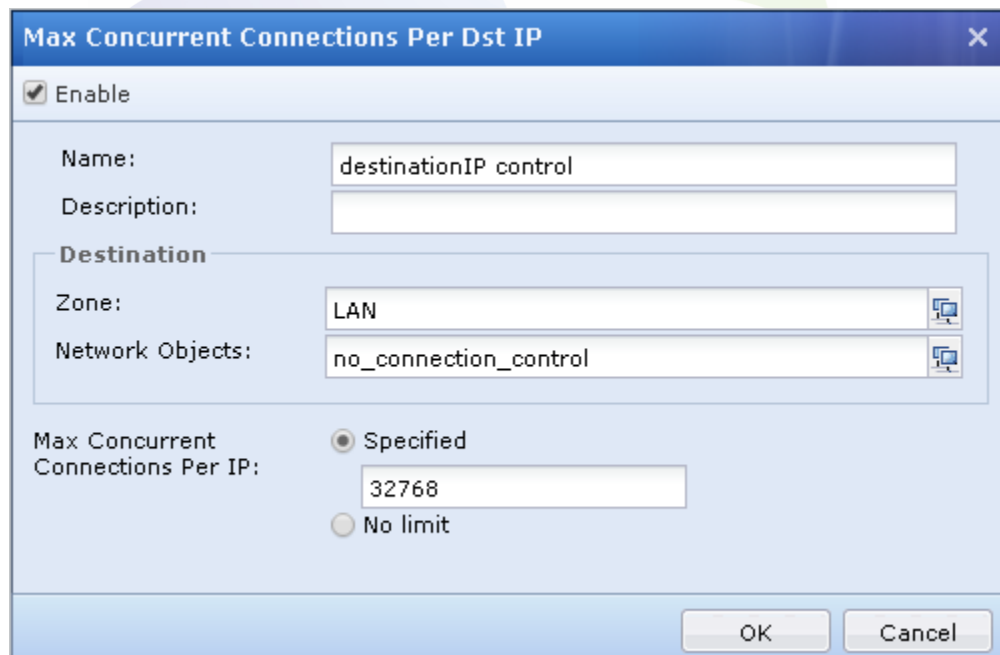
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- **Destination Zone**: Select the corresponding zone for limiting.

- **Network Objects**: Select the target object.

- **Max Concurrent Connections Per IP**: Set up the maximum number of concurrent connection for each IP address.
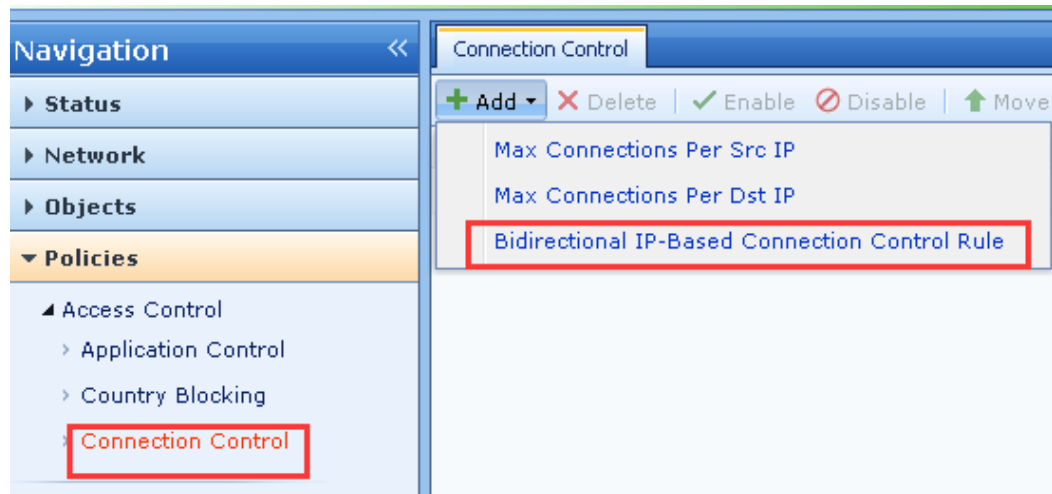

3.3   Bidirectional IP-based connection control

i.   In **Policies > Connection Control > Bidirectional IP-Based Connection Control Rule** to add a new destination IP-based connection control.

- **Source/ Destination Zone**: Select the corresponding zone for limiting.
- **Network Objects**: Select the target object.
- **Max Concurrent Connections Per IP**: Set up the maximum number of concurrent connection for each IP address.

4 Precautions

i.   Create a new IP Group can be set with single IP address like **10.10.10.1** set with multiple IP address like **10.10.10.1-10.10.10.10**, and set with network segment like **10.10.10.0/24.**

ii.   Select the "**No limit**" in **Max Concurrent Connections Per IP** represents connection control does not have effect.

iii.   NGAF connection control has effect on **TCP** connection.

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