



SANGFOR

WAN Optimization (WANO)

**Troubleshooting guide for no acceleration effect for
Optimized traffic**



Change Log

Date	Change Description
May 14, 2019	Troubleshooting guide for no acceleration effect for Optimized traffic

CONTENT

1. Document Description	4
2. Applicable Version	4
3. Problem Scenario	4
4. Troubleshooting Guide	5
4.1 General Scenario Troubleshooting Step	5
4.2 Incorrect configuration of Policy Group	5
4.3 Transmission speed remain the same after Optimized	6
4.4 SSL-based traffic	7
5. Collect Information	7
6. Request Articles	7

1. Document Description

The purpose of this document is to provide guidance for troubleshooting on the no acceleration effect for optimized traffic.

2. Applicable Version

This document is applicable for the no acceleration effect for Optimized traffic on all WANO version.

The version included WANO 7.0 onwards to latest version.

3. Problem Scenario

No acceleration effect for Optimized traffic in this document is referring to the scenario that both Server side and Branch side Sangfor WANO has already built-up Acceleration Tunnel, has no acceleration effect although “Traffic Type” shows “Optimized”.



The screenshot shows the WANO WAN Optimization Controller interface. The 'Throughput' tab is selected. A table displays traffic flows with columns for Source IP, Source Port, Destination IP, Destination Port, Bandwidth Channel, Line, Protocol, App Category, Application, Traffic Type, and Details. The second row shows a flow with Source IP 192.168.20.3, Source Port 49240, Destination IP 192.168.10.3, Destination Port 21, and Traffic Type 'Optimized' (highlighted with a red box). The first row shows a flow with Source IP 192.168.20.3, Source Port 49246, Destination IP 192.168.10.2, Destination Port 443, and Traffic Type 'Pass-through'.

	Source IP	Source Port	Destination IP	Destination Port	Bandwidth Cha...	Line	Protocol	App Category	Application	Traffic Type	Details
1	192.168.20.3	49246	192.168.10.2	443	↑ - ↓ -	↑ Line1 ↓ Line1	TCP			Pass-through	Details
2	192.168.20.3	49240	192.168.10.3	21	↑ - ↓ -	↑ Line1 ↓ Line1	TCP	FTP	FTP_Download	Optimized	Details

No acceleration effect for Optimized traffic mainly divided into the following scenarios:

- SSL-based traffic
- Incorrect configuration of Policy Group
- Transmission speed remains the same after Optimized

4. Troubleshooting Guide

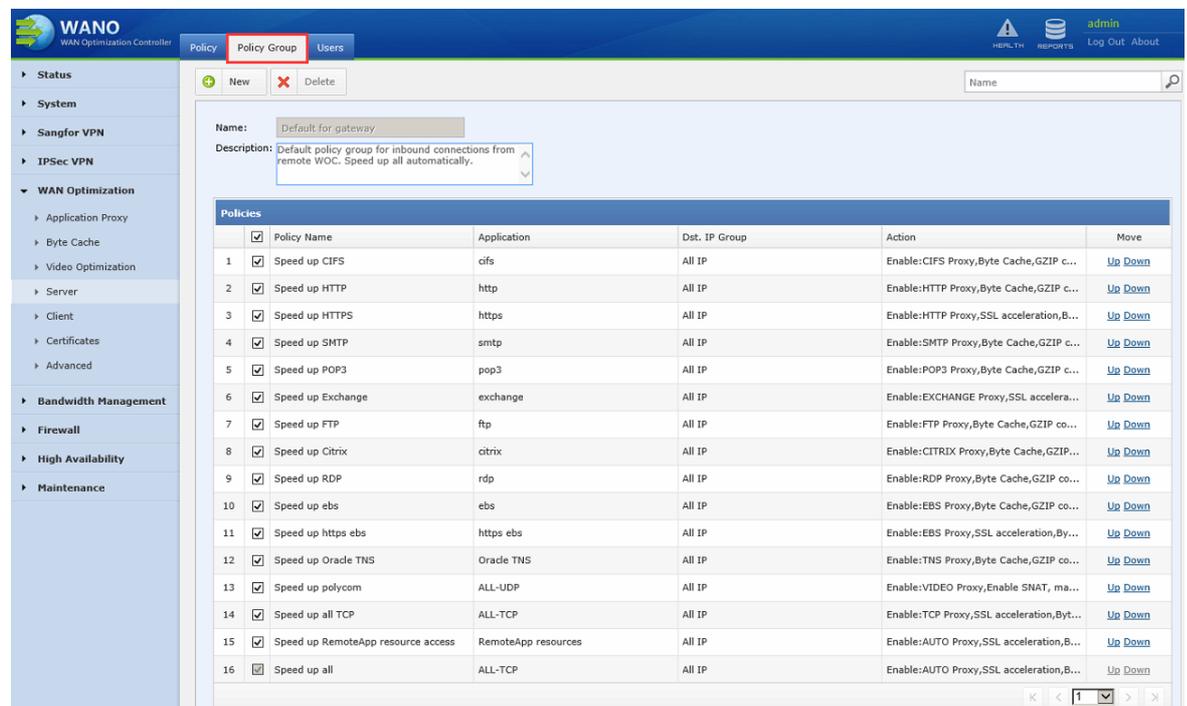
4.1 General Scenario Troubleshooting Step

The following basic information need to be confirmed when no acceleration effect for Optimized traffic:

1. Make sure both Sangfor side and Client side are able to ping to each other.
 - i. Navigate to [Maintenance] > [Web Console]
 - ii. Ping to peer side device IP
 - iii. Ensure it is able to Ping to each other
2. Make sure the Acceleration Tunnel is connected.

4.2 Incorrect configuration of Policy Group

Path: WAN Optimization > Server > Policy Group



The screenshot shows the WANO WAN Optimization Controller interface. The 'Policy Group' tab is selected, and the 'Policies' table is visible. The table lists 16 policies, all of which are checked. The policies include 'Speed up CIFS', 'Speed up HTTP', 'Speed up HTTPS', 'Speed up SMTP', 'Speed up POP3', 'Speed up Exchange', 'Speed up FTP', 'Speed up Citrix', 'Speed up RDP', 'Speed up ebs', 'Speed up https ebs', 'Speed up Oracle TNS', 'Speed up polycom', 'Speed up all TCP', 'Speed up RemoteApp resource access', and 'Speed up all'. The 'Speed up Exchange' policy is highlighted, indicating it is selected.

	<input checked="" type="checkbox"/>	Policy Name	Application	Dst. IP Group	Action	Move
1	<input checked="" type="checkbox"/>	Speed up CIFS	cifs	All IP	Enable:CIFS Proxy,Byte Cache,GZIP c...	Up Down
2	<input checked="" type="checkbox"/>	Speed up HTTP	http	All IP	Enable:HTTP Proxy,Byte Cache,GZIP c...	Up Down
3	<input checked="" type="checkbox"/>	Speed up HTTPS	https	All IP	Enable:HTTP Proxy,SSL acceleration,B...	Up Down
4	<input checked="" type="checkbox"/>	Speed up SMTP	smtp	All IP	Enable:SMTP Proxy,Byte Cache,GZIP c...	Up Down
5	<input checked="" type="checkbox"/>	Speed up POP3	pop3	All IP	Enable:POP3 Proxy,Byte Cache,GZIP c...	Up Down
6	<input checked="" type="checkbox"/>	Speed up Exchange	exchange	All IP	Enable:EXCHANGE Proxy,SSL accelera...	Up Down
7	<input checked="" type="checkbox"/>	Speed up FTP	ftp	All IP	Enable:FTP Proxy,Byte Cache,GZIP co...	Up Down
8	<input checked="" type="checkbox"/>	Speed up Citrix	citrix	All IP	Enable:CITRIX Proxy,Byte Cache,GZIP...	Up Down
9	<input checked="" type="checkbox"/>	Speed up RDP	rdp	All IP	Enable:RDP Proxy,Byte Cache,GZIP co...	Up Down
10	<input checked="" type="checkbox"/>	Speed up ebs	ebs	All IP	Enable:EBS Proxy,Byte Cache,GZIP co...	Up Down
11	<input checked="" type="checkbox"/>	Speed up https ebs	https ebs	All IP	Enable:EBS Proxy,SSL acceleration,By...	Up Down
12	<input checked="" type="checkbox"/>	Speed up Oracle TNS	Oracle TNS	All IP	Enable:TNS Proxy,Byte Cache,GZIP co...	Up Down
13	<input checked="" type="checkbox"/>	Speed up polycom	ALL-UDP	All IP	Enable:VIDEO Proxy,Enable SNAT, ma...	Up Down
14	<input checked="" type="checkbox"/>	Speed up all TCP	ALL-TCP	All IP	Enable:TCP Proxy,SSL acceleration,Byt...	Up Down
15	<input checked="" type="checkbox"/>	Speed up RemoteApp resource access	RemoteApp resources	All IP	Enable:AUTO Proxy,SSL acceleration,B...	Up Down
16	<input checked="" type="checkbox"/>	Speed up all	ALL-TCP	All IP	Enable:AUTO Proxy,SSL acceleration,B...	Up Down

Usually happens when user select all of the policies. User wants to optimize Exchange mail traffic. If user is using Outlook Anywhere, the traffic will match with the HTTPS policy instead of Exchange policy due to the service port 443. Therefore it causes the traffic unable to be accelerated. Suggest to select the necessary policies only.

4.3 Transmission speed remain the same after Optimized

Transmission speed for FTP and CIFS remain the same after optimized.

1. Ensure the Speed and Duplex is match with the peer device that Sangfor WANO connected to. Data transmission speed is based on this interface speed. If it gets 100Mbps Full Duplex, then the data transmission speed will to up to 100Mbps only.

2. Speed test:

Place the file into the Server and a PC in order to test the maximum transmission speed.



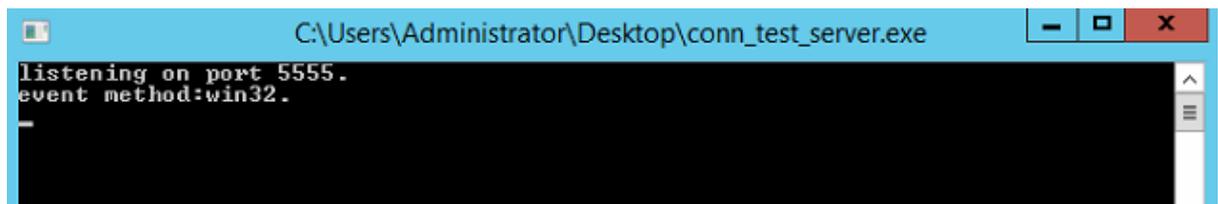
conn_test_client.exe



conn_test_server.exe

Server side:

Double-click the file to execute it. Result will be as below,

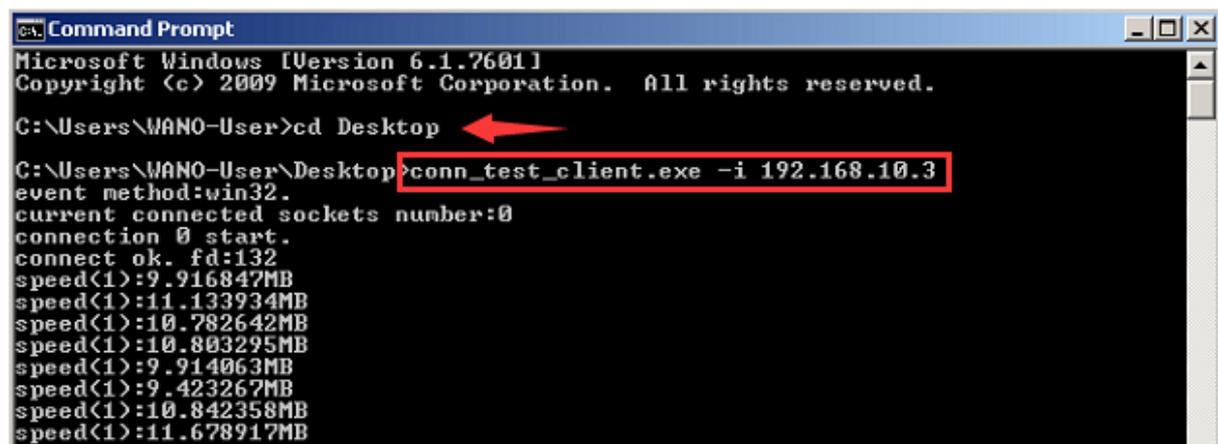


```
C:\Users\Administrator\Desktop\conn_test_server.exe
listening on port 5555.
event method:win32.
-
```

Client side:

Execute Command Prompt, and navigate to the folder where the conn_test_client.exe placed.

Run the file with the command: conn_test_client.exe -i **Server IP**



```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\WANO-User>cd Desktop
C:\Users\WANO-User\Desktop>conn_test_client.exe -i 192.168.10.3
event method:win32.
current connected sockets number:0
connection 0 start.
connect ok. fd:132
speed(1):9.916847MB
speed(1):11.133934MB
speed(1):10.782642MB
speed(1):10.803295MB
speed(1):9.914063MB
speed(1):9.423267MB
speed(1):10.842358MB
speed(1):11.678917MB
```

3. Ensure sufficient bandwidth:

Before perform any testing, ensure the user environment has sufficient bandwidth. Data transmission speed is slow could be due to the total bandwidth was consumed by other users or servers that has higher priority. Therefore, it is suggested to perform testing with below options:

1. Test during low user traffic/idle time
2. Configure a guarantee channel for the test server and client

4.4 SSL-based traffic

SSL-based traffic is encrypted, Sangfor WANO unable to cache and compress it and therefore SSL traffic will not have any acceleration affect even the Traffic Type shows *Optimized*. In order to optimize SSL traffic, Server certificate must be imported into Server side WANO.

5. Collect Information

If the problem still unable to be resolve through the troubleshooting steps above, you can collect the below information and escalate the problem to Sangfor Technical Support with the Community Open a Case feature. Technical Engineer will contact you to provide assistance on resolving the issue.

Information need to be collect:

- i. Server Model and both sides firmware version.
- ii. Screenshot of the System Logs for both sides.
- iii. What troubleshooting step you had gone through.

Open a support case access link:

<http://community.sangfor.com/plugin.php?id=service:case>

6. Request Articles

If you have new document requirement, you can feedback to us with the feedback link below. We will provide the troubleshooting guide document based on the feedback.

Feedback Link

CMS: <http://192.200.19.22/request-articles/>

Sangfor Community: <http://community.sangfor.com/plugin.php?id=service:feedback>



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