WANO
Hands-Free mode Configuration Guide

Version 9.5.6
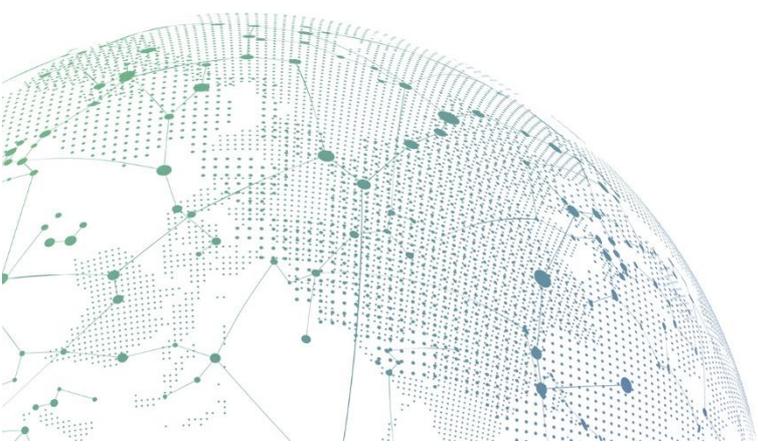
Change Log

| Date	Change Description
August 29, 2019	Version 9.5.6 document release.

CONTENT

Chapter 1 Content requirements

Note: If the whole document only has 1 chapter, this title can be omitted.

1 Document title

SANGFOR_WANO_V9.5.6_Hands-Free_Mode_Configuration_Guide_EN_20190829

2 Theory of Hands-free mode
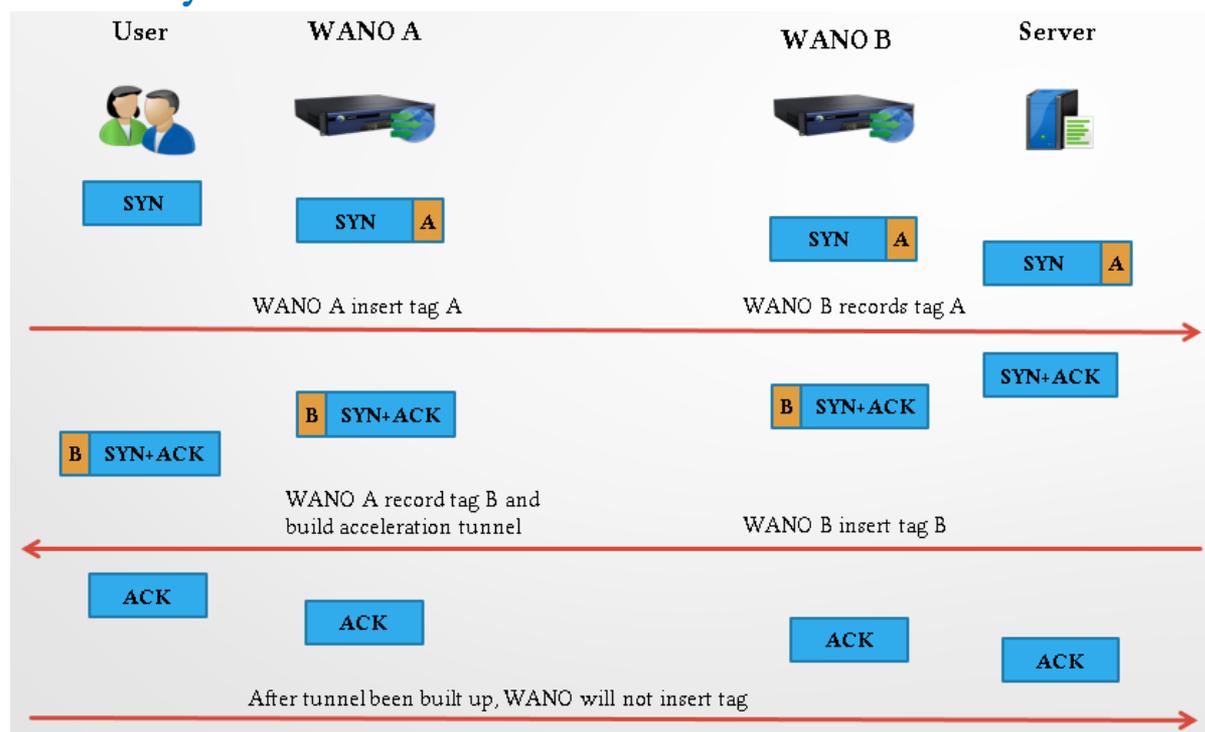
1. Both WANO A and WANO B are deployed in Bridge Hands-free mode
2. The Acceleration Tunnel is not build-up
3. When the first User wants to access to the Server, User send out SYN packet
4. When WANO A received the SYN packet for the first time, it will tag the SYN packet with tag A
5. When WANO B received the SYN packet forwarded from WANO A with the tag A, WANO B will record the tag A and forward the packet to the Server
6. Then, Server reply with SYN+ACK to the User
7. WANO B received the SYN+ACK packet from Server, it will tag the packet with tag B and forward to WANO A
8. When WANO A received the SYN+ACK packet forwarded from WANO B with the tag B, WANO A will then record the tag B.
9. Since the tag A and tag B is complete recorded in both WANO, therefore both WANO negotiate to build up Acceleration Tunnel
10. Finally, the tag is removed and the Acceleration Tunnel built-up

Note: Only traffic with proper **Three-way Handshake** able to trigger the establishment of Acceleration Tunnel, ICMP packet will NOT work.

3 Configuration Guide

3.1 Hands-Free mode without Working IP

1. Navigate to **System** > **Network** > **Deployment**

2. Select **Acceleration Only** for Service Mode
3. Select **Bridge** and **Hands-free mode** for Deployment mode
4. Change the **Manage Interface** IP Address if necessary
5. Ensure both WANO is using the same mode
6. Access any Server from the Client side to the Server side
7. Check if the Acceleration Connection is built-up

3.2 Hands-Free mode with Working IP

1. Navigate to **System** > **Network** > **Deployment**

2. Select **Acceleration Only** for Service Mode
3. Select **Bridge** and **Hands-free mode** for Deployment mode
4. Enable "**Use working IP to implement acceleration**"
5. Configure the IP address for Logic Interface with an unused LAN IP
6. Ensure both WANO is using the same mode
7. Access any Server from the Client side to the Server side
8. Check if the Acceleration Connection is built-up

4 Precautions

1. There are some configurations still need to configure manually.

    i.   Local Subnet

    ii. Bandwidth Management

    iii. Import SSL Certificate

    iv. WANO join domain

    v.   Delegate user

2. Working IP can be used to access WANO Web UI

3. "Peer IP" showed in the Acceleration Connection for Hands-free mode without working IP is the Client/Server IP that CANNOT be used to access WANO Web UI

4. Acceleration Tunnel protocol do not support to change currently. Only support High-speed TCP

5. Do not support Pre-connection

6. Do not support Video Optimization

7. Network Transparency is enabled by default

8. Hands-free mode without working IP only able to access Web UI with Manage IP

9. Hands-free mode without working IP that manage with Manage IP from different IP segment are required to configure Static Route manually

10. Only a complete flow of Three-way Handshake can trigger the establishment of Acceleration Connections

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