

## WellSIP 6500 Series Redundant Setup Procedure

### Target Objective:

WellSIP 65xx Telephony Server can support fully redundant to provide 24\*7 running. It provides 1+1 active/ standby redundant architecture. The active one will sync all status to standby one to ensure the seamless failover. No any impacts to your customers during the fail over period. This application note describes the required steps to setup your WellSIP 65xx redundant.

First of all, you need to make sure you get the HA license key from Welltech. The following steps will guide you to setup:

### IP Required:

3 public IP address for WAN:

192.168.19.71 is the virtual IP address (for providing service).

192.168.19.79 is the maintenance IP for 6500-1.

192.168.19.72 is the maintenance IP for 6500-2.

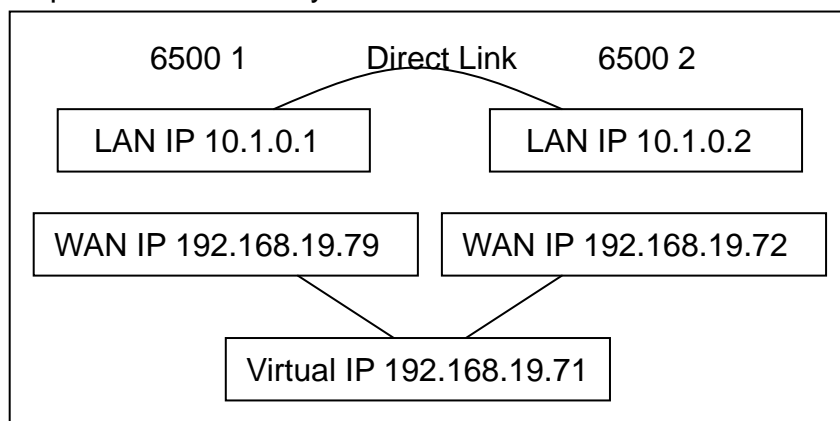
Connect both 2 WAN to 1 or 2 Ethernet switch.

2 private IP for LAN: (mainly for redundant status sync)

10.1.0.1 is the private IP address for 6500-1.

10.1.0.2 is the private IP address for 6500-2.

Use an Ethernet Cable to connect 10.1.0.1 and 10.1.0.2 together to ensure the two proxies' status is sync.



## WellSIP 6500 1 Network Interface Setup:

Click **Control > Network > WAN Interface** to set the IP address and the figure as figure 1-1:

**Network Control**

Use fixed IP address

IP Address : 192.168.19.79

IP Netmask : 255.255.255.0

IP Gateway : 192.168.19.254

**DNS Setup**

Primary DNS Server : 168.95.1.1

Secondary DNS Server : . . .

Host name : HA6500\_1

Domain name :

Dynamic DNS Registration :  Yes  No

Apply Cancel Back

Figure 1-1

### Required Parameters:

IP Address: 192.168.19.79  
IP Netmask: 255.255.255.0  
IP Gateway: 192.168.19.254  
Host Name: HA6500\_1

Click **Configuration -> HA** to setup the redundant cluster settings:

**HA Configuration**

IP Address: 192.168.19.79

IP Netmask: 255.255.255.0

IP Gateway: 192.168.19.254

VIP: 192.168.19.71

Cluster: HA6500

Preferred Role: Manager

Host ID: 0

Modify Apply Cancel Switch Sync

Figure 1-2

### Required Parameters:

VIP: 192.168.19.71  
Cluster: HA6500

Preferred Role: Manager

Host ID: 0

**Reboot WellSIP 6500 1**

## WellSIP 6500 2 Network Interface Setup:

Click **Control > Network > WAN Interface** to set the IP address and the figure as figure 1-3:

**Network Control**

Use fixed IP address

IP Address : 192.168.19.72

IP Netmask : 255.255.255.0

IP Gateway : 192.168.19.254

**DNS Setup**

Primary DNS Server : 168.95.1.1

Secondary DNS Server : . . .

Host name : HA6500\_2

Domain name : .

Dynamic DNS Registration :  Yes  No

Apply Cancel Back

Figure 1-3

### Required Parameters:

IP Address: 192.168.19.72  
IP Netmask: 255.255.255.0  
IP Gateway: 192.168.19.254  
Host Name: HA6500\_2

Click **Configuration -> HA** to setup the redundant cluster settings:

**HA Configuration**

IP Address: 192.168.19.72

IP Netmask: 255.255.255.0

IP Gateway: 192.168.19.254

VIP: 192.168.19.71

Cluster: HA6500

Preferred Role: Standby Manager

Host ID: 1

Modify Apply Cancel Switch Sync

Figure 1-4

### Required Parameters:

VIP: 192.168.19.71

Cluster: HA6500

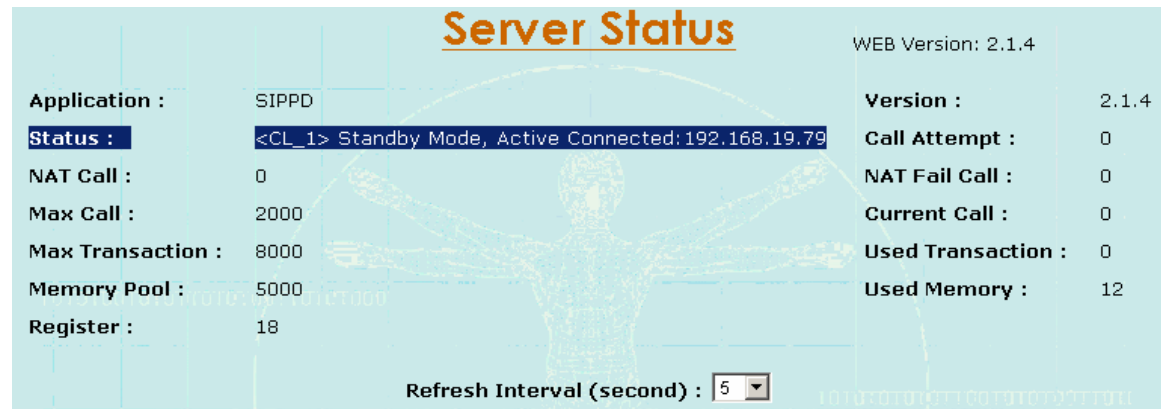
Preferred Role: Standby Manager

Host ID: 1

**Reboot WeISIP 6500 2**

## Validate the Redundant Status

Click the **Monitor > Server Status** to validate the redundant status as follows:



The screenshot displays the 'Server Status' page for a SIPPPD application. The page is titled 'Server Status' in orange text. The background features a faint image of Leonardo da Vinci's Vitruvian Man. The page is divided into two columns of information. The left column lists application parameters, and the right column lists performance metrics. A 'Status' field is highlighted with a blue background, showing '<CL\_1> Standby Mode, Active Connected: 192.168.19.79'. At the bottom, there is a 'Refresh Interval (second)' dropdown menu set to '5'.

<b>Application :</b>	SIPPPD	<b>Version :</b>	2.1.4
<b>Status :</b>	<CL_1> Standby Mode, Active Connected: 192.168.19.79	<b>Call Attempt :</b>	0
<b>NAT Call :</b>	0	<b>NAT Fail Call :</b>	0
<b>Max Call :</b>	2000	<b>Current Call :</b>	0
<b>Max Transaction :</b>	8000	<b>Used Transaction :</b>	0
<b>Memory Pool :</b>	5000	<b>Used Memory :</b>	12
<b>Register :</b>	18		

Refresh Interval (second) : 5

Figure 1-3

You should see the active one's status as follows:

<HA6500> Active Mode, Standby Connected: 192.168.19.72

For the standby one's status is:

<HA6500> Standby Mode, Active Connected: 192.168.19.79