# Quick Installation Guide

☑ DAG1000-4S4O

☑ DAG2000-8S8O

# Thanks for Choosing Dinstar's VolP Gateway!

Please read this guide carefully before installing the gateway. If you need any technical support, please contact us.

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### 1 Product Model & Number of Ports

Port Type Model	WAN	LAN	FXS	FXO
DAG1000-4S40	1	3	4	4
DAG2000-8S8O	0	4	8	8

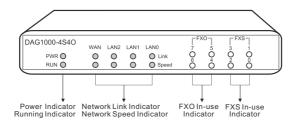
Please check the model of your gateway before installation, and then refer to corresponding installation instructions.

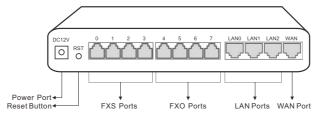
# 2 Description of Indicators

Indicator	Definition	Status	Description
PWR		On	The gateway is powered on
	Power Indicator	Off	The gateway has no power input or power supply is abnormal
RUN	Running Indicator	Slow Flashing	The gateway is running properly
		Fast Flashing	SIP account is registered successfully
		Off	The gateway is running improperly
FXS	Telephone In-use Indicator	On	FXS port is currently occupied by a call
		Off	FXS port is idle or faulty
FXO F	EVO la mandadicata	On	FXO Port is currently occupied
	FXO In-use Indicator	Off	FXO Port is idle or faulty
WAN/LAN_		Flashing	The gateway is properly connected to network
	Link (Green)	Off	The gateway is not connected to network or network connection is improper
	Speed	On	Work at 100Mbps
	Speed	Off	Work at 10Mbps

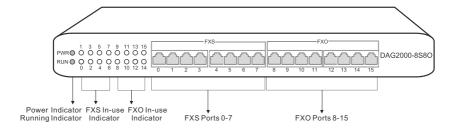
### 3 Indicators & Interfaces

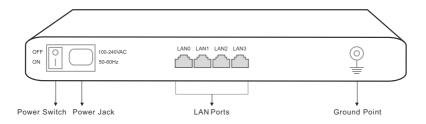
#### ▶ DAG1000-4S4O





#### ▶ DAG2000-8S8O



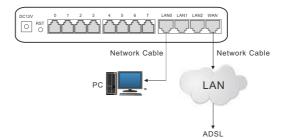


### 4 Installation Attentions

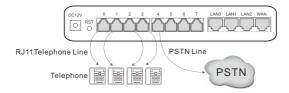
- ◆ Product model: please check the model of your gateway before installation;
- Anti-jamming: to reduce interference, it's highly recommended that telephone lines and PSTN lines connected to the gateway should be placed away from power cables;
- Power supply: DAG1000-4S4O is equipped with 12VDC power adapter, while DAG2000-8S8O accepts AC input voltage of 100-240V. Please ensure safe and stable power supply;
- Network bandwidth: please ensure there is enough network bandwidth so as to guarantee stabilized running of the gateway;
- Ventilation: to avoid overheating, please do not pile up the gateway with other devices and make sure the gateway has good ventilation around;
- Temperature and humidity: to avoid any accident that might cause malfunction, it's advised to install the gateway in an equipment room where temperature and humidity are appropriate;
- ◆ Mechanical load: It's highly advised to horizontally place the gateway on a flat surface or a cabinet.

### 5 Installation Instructions

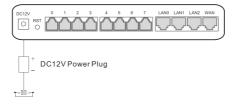
- ► Connection Diagram for DAG1000-4S40
- · Connect gateway with network



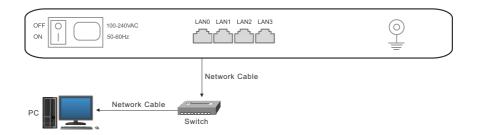
 Connect FXS port with Telephone line Connect FXO port with PSTN line



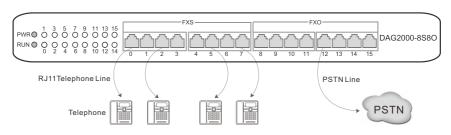
· Connect gateway with power input



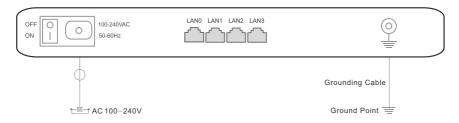
- ► Connection Diagram for DAG2000-8S8O
- Connect gateway with network



 Connect FXS port with Telephone line Connect FXO port with PSTN line



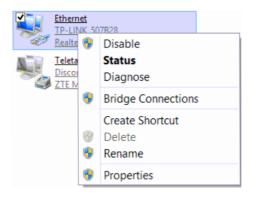
• Connect gateway with power input



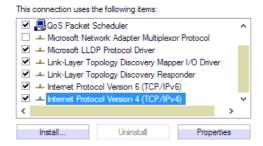
# 6 Modify PC's IPAddress

To log in the Web Management System of the gateway, you need to modify the IP address of PC first to make it at the same network segment with the gateway.

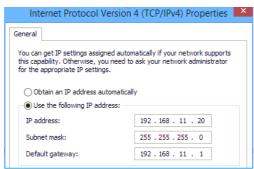
① On the PC, click 'Network (or Ethernet) → Properties'.



2 Double-click 'Internet Protocol Version 4 (TCP/IPv4)'.



Select 'Use the following IP address', and then enter an available IP address '192.168.11.XXX' which is at the same network segment with '192.168.11.1'.



# 7 Log in Web Management System

Open a web browser and enter the gateway's IP address (default IP is 192.168.11.1). Then input username and password in the displayed login GUI. Both the default username and password are admin.

# 8 Modify Gateway's IP Address

If you want to modify the IP address of the DAG gateway, please click 'Network → Local Network' in the navigation tree on the left of the Web Management System, and then input new IP address and DNS server address on the displayed interface.

# 9 Basic Configurations of FXS

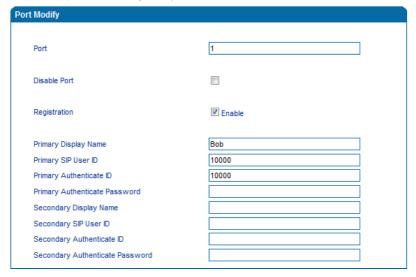
### (1) Configure SIP Server

Log in the Web Management System of the gateway, and then click **SIP Server** in the navigation tree and then enter the address of the SIP server which is to be registered. Click **Save** in the last.



### (2) Configure SIP Account Information

Click **Port** in the navigation tree on the left, and then click **Add**. Input the SIP account and authentication password assigned by the SIP server.



Click **Save** and then restart the gateway for the new configurations to take effect.

# 10 Basic Configurations of FXO

### (1) Create Port Group

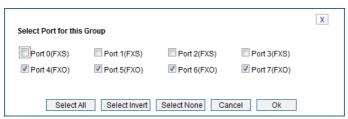
You are advised to divide PSTN lines into several groups and then distribute them to different port groups. Generally, PSTN lines belonging to a same telecom operator are distributed to a same port group.

Click Call&Routing →Port Group, and then click **Add** on the displayed interface.



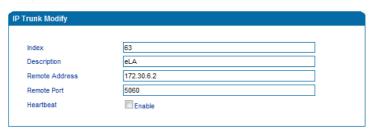
When calls come from PSTN to the gateway, the offhook auto-dial number is generally regarded as the DID (Direct-inward-dial) number or destination number of the SIP server.

Click **Click to select to select ports for this group**, and the following interface will be displayed.



### (2) Create IP Trunk

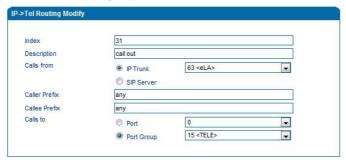
On the Call & Routing→IP Trunk interface, click **Add** to create an IP trunk which connects to a peer SIP server.



### (3) Create Outbound Route

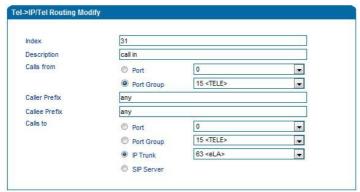
On the Call & Routing→<IP→Tel Routing> interface, click **Add** to create an outbound route for the IP trunk.

As shown in the following figure, Caller/Callee Prefix is set as 'any' and calls from IP trunk 63<eLA> are routed to port group 15<TELE>.



### (4) Create Inbound Route

On the Call & Routing -< Tel -> IP/Tel Routing > interface, click Add to create an inbound route for the IP trunk. As shown in the following figure, Caller Prefix is set as 'any' and calls from port group 15< TELE> are routed to IP trunk 63< eLA>.



# 11 Configure FXO Parameters

On the Advanced →FXS/FXO interface, configure the gateway to detect CID after ring or before ring, and enable 'Send Original CID when call from PSTN'. Format of "from" field is set as 'CID/CID' when CID is available, while format of "from" field is set as 'Display/User ID' when CID is unavailable.



# 12 Basic Operations

- ◆ Dial \*158# to guery the IP address of LAN port of the gateway;
- ◆ Dial \*159# to guery the IP address of WAN port of the gateway;
- ◆ Dial \*114# to query the telephone number of a FXS port;
- ◆ Dial \*165\*000000# to restore default IP address, username and password;
- ◆ Restore factory default settings:
  - (1) dial \*166\*000000#:
  - (2) press the **RST** button for 7 seconds; then restart by manual;
  - (3) Log in the gateway and then click 'Tools → Factory Reset', then click Apply and restart the gateway.
- ◆ Restart the gateway:
  - (1) Dial \*111# to restart the gateway.
  - (2) Log in Web Management System, click 'Tools → Restart' in the navigation tree on the left, and then click Restart on the displayed interface.

### 13 More Details

This document only provides instructions for quick installation and basic configuration, For detailed configuration and parameter explanation, please make reference to user manual or ask for online technical support.

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