

IP Phone Basic Configuration Practice Guide



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Foreword

- This course is mainly:
 - Guide how to set network on IP Phone
 - Guide how to configure IP Phone with SIP server
 - Guide how to configure DND 、 hotline and auto answer

Course Objective

Through this course
you will be able to



HOW To Access The Device



How To SET Network On IP Phone



How To Make Calls On IP Phone

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Chapter One Network Configuration

2

Chapter Two Call Related Configuration

Chapter One

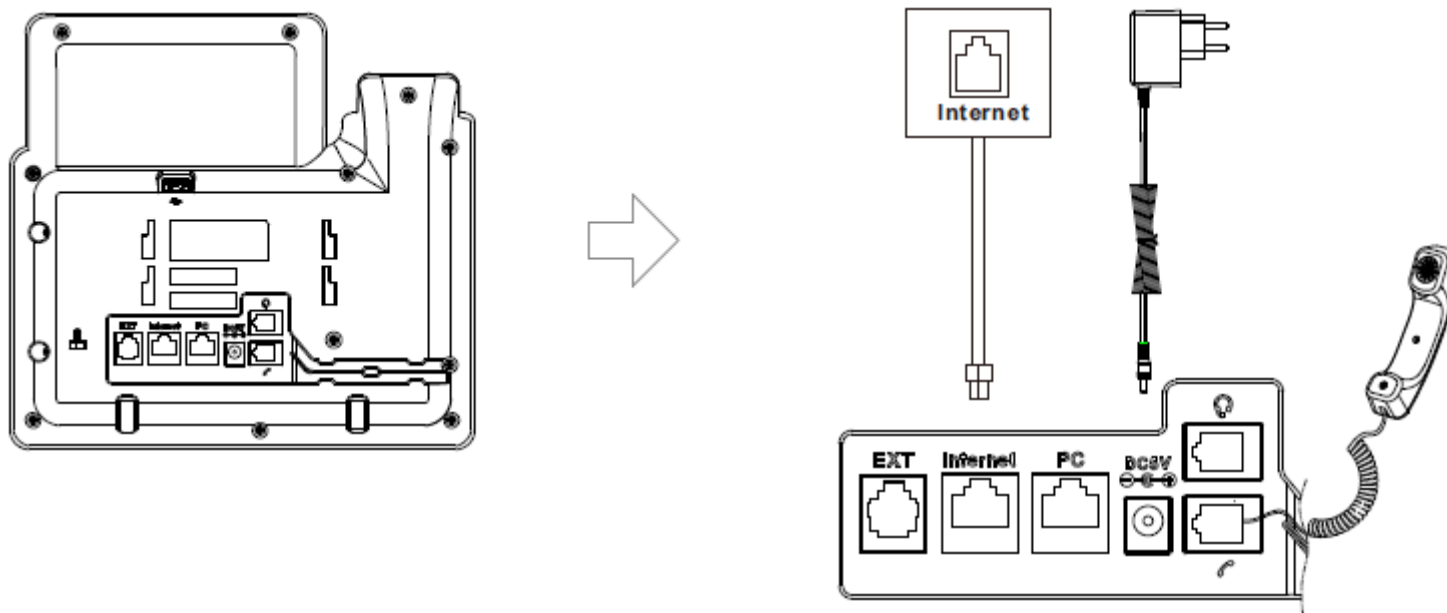
Network Configuration

01

Network Configuration-Phone Interface

- **DHCP**

The phone defaults to obtaining network configuration through DHCP server



Network Configuration-Phone Interface

- **Static IP**

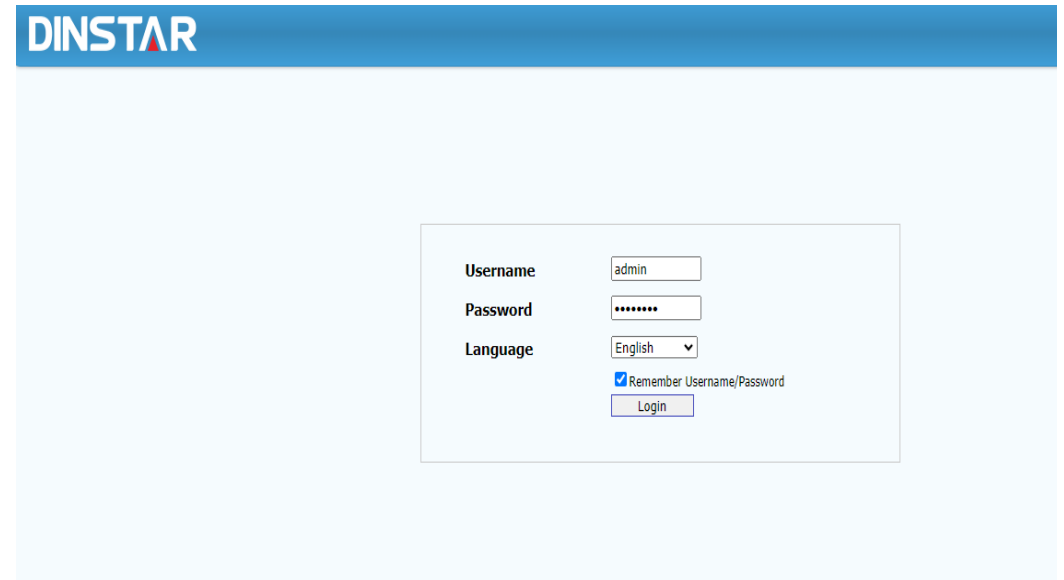
1. When the phone is idle, press the “**Menu - Settings - Advanced Settings**”, and enter the default password admin, Select “**Network-LAN Settings**” and press OK
2. selecting “**IPv4-IPv4 Static Settings**”, users need to enter the IP address, subnet mask, and gateway
3. Press the “**Save**” to complete the configuration



Network Configuration-Web

- **Access Web**

1. When the phone is idle, press “**OK**” to view the IP address of the phone
2. Enter the IP address of the phone in the address bar of the computer browser
3. Enter account and password on the login interface, and click on login(Default username/password--**admin/admin**)



The screenshot displays the DINSTAR web configuration interface. At the top, there is a blue header bar with the DINSTAR logo. Below the header, the main content area is light blue. In the center-right of this area, there is a white login form box. The form contains the following fields and options:

- Username:** A text input field with the value "admin".
- Password:** A text input field with masked characters "*****".
- Language:** A dropdown menu currently set to "English".
- ☒ **Remember Username/Password**
- Login:** A button to submit the login information.

Network Configuration-Web

- **Static IP**

1. Select "**Network - Basic**"
2. Select "**LAN Port IPv4-Static IP**", and enter the IP address, subnet mask, and gateway
3. Click **submit**

The screenshot displays the DINSTAR Network Configuration Web interface. The top navigation bar includes links for Status, Account, Network, Phone, PhoneBook, Upgrade, and Security. The left sidebar shows a menu with 'Basic' (highlighted with a red box and a circled '1'), Advanced, TR069, SNMP, NMS, VLAN&QoS, 802.1X, and Diagnosis. The main content area is titled 'LAN Port Mode' and shows 'Mode(IPv4/IPv6)' set to 'IPv4'. Below this, the 'LAN Port IPv4' section is active, with 'Static IP' selected (circled with a red box and a circled '2'). The configuration fields for Static IP are: IP Address (172.28.51.101), Subnet Mask (255.255.255.0), Default Gateway (172.28.1.1), Static DNS (ON), DNS1 v4 (8.8.8.8), and DNS2 v4 (empty). The 'LAN Port IPv6' section shows 'DHCP' selected. The 'LAN PPPoE' section shows 'PPPoE' selected with empty fields for Username and Password. At the bottom, the 'Speed and Duplex' section shows 'LAN port' and 'PC port' both set to 'Auto Negotiation'. 'Submit' and 'Cancel' buttons are at the bottom right.

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Call related configurations

02

Register to SIP Server

- **Phone Interface**

1. When the phone is idle, press the “**Menu - Settings - Advanced Settings**”, and enter the default password admin, Select “**Account**” and press OK
2. Select one of the accounts to configure the Register Name, Username, password and the IP / Port of the SIP Server
3. Press the “**Save**” to complete the configuration



Register to SIP Server

- **Web**

1. Select **"Account - Basic"**
2. Select one of the accounts to configure the Register Name, Username, password and the IP / Port of the SIP Server
3. Click **submit**

The screenshot displays the DINSTAR web interface for configuring SIP accounts. The top navigation bar includes links for Status, Account, Network, Phone, PhoneBook, Upgrade, and Security. The left sidebar shows the 'Basic' tab selected, indicated by a red box and a circled '1'. The main configuration area is titled 'SIP Account' and shows settings for 'Account2: 8002'. A red box highlights the 'Active' status, 'Display Label', 'Display Name', 'Register Name', 'Username', and 'Password' fields, with a circled '2' next to it. Below this, there are sections for 'SIP Server 1', 'SIP Server 2', and 'SIP Server 3', each with fields for 'Server IP', 'Port', and 'Registration Expires'. At the bottom, there is a 'Registration Params' section with 'Registration Type' and 'Registration Fallback' dropdowns. On the right side, there is a 'Help' section with a 'Description', 'Warning', and 'Field Description'. At the bottom right, there is a 'Submit Shortcut' section with 'Submit' and 'Cancel' buttons, with a circled '3' next to the 'Submit' button.

Call without Registration

- **Phone Interface**

1. Select **"Account - Basic"**, Configure account information and SIP Server IP / port
2. Select **"Account - SIP Param"**, Select the created account , Configure the min and max local SIP port to be the same and select Call without Registration is enable

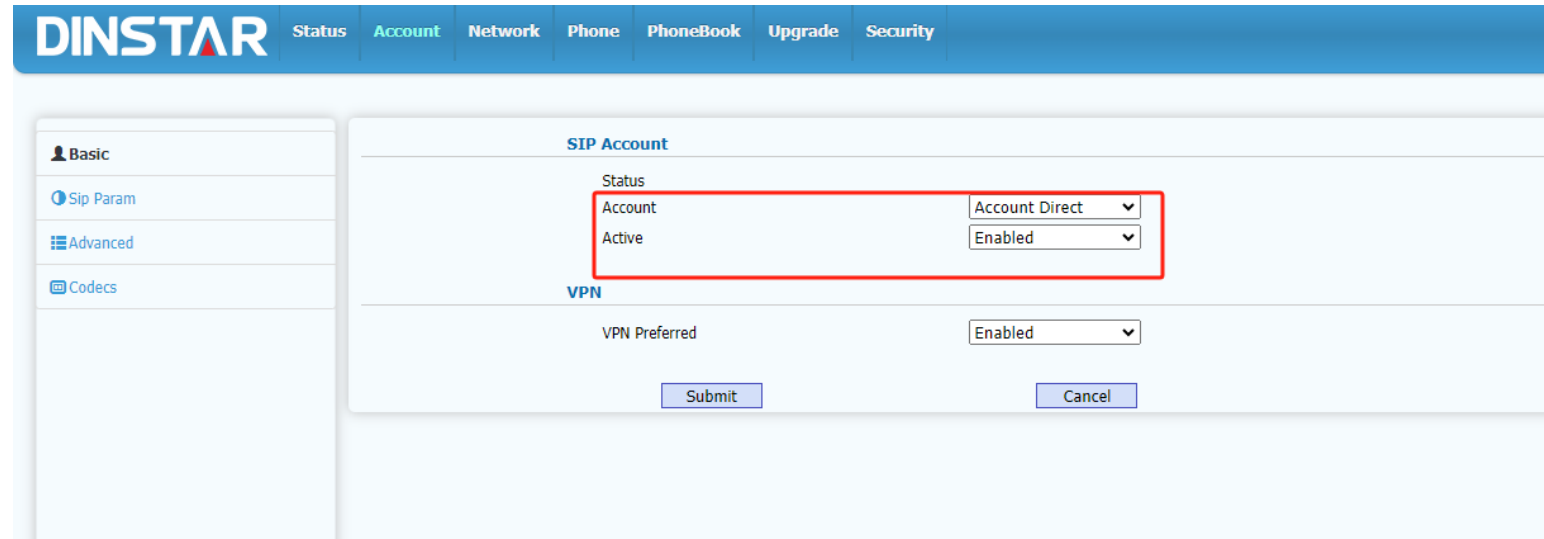
The screenshot shows the DINSTAR web interface with the 'SIP Account' configuration page. The 'Account' tab is selected, and the 'Service Param' section is expanded. The 'Account' dropdown is set to 'Account3: 1000'. The 'Min Local SIP Port' and 'Max Local SIP Port' are both set to 20600. The 'Call without Registration' checkbox is checked. Other settings include 'Use New SIP Port When Registration Fail' (Enabled), 'MWI Subscribe' (Disabled), 'MWI Subscribe Period' (1800), 'Voice Mail Number' (*170*2#), 'BLF Expire' (1800), 'ACD Expire' (1800), 'Caller ID Header' (FROM), 'Auto Answer' (Disabled), 'Ringtones' (Default), 'PTime' (20), 'Anonymous Call' (Disabled), 'Anonymous Call Rejection' (Disabled), 'Rejection Code for Anonymous Call' (433), 'Privacy Number' (None), 'Missed Call Display on LCD' (Enabled), and 'Trust SIP Server Only' (Disabled).

Parameter	Value
Account	Account3: 1000
Min Local SIP Port	20600 (1024~65535)
Max Local SIP Port	20600 (1024~65535)
Use New SIP Port When Registration Fail	Enabled
Call without Registration	Enabled
MWI Subscribe	Disabled
MWI Subscribe Period	1800 (120~65535s)
Voice Mail Number	*170*2#
BLF Expire	1800 (120~65535s)
ACD Expire	1800 (120~65535s)
Caller ID Header	FROM
Auto Answer	Disabled
Ringtones	Default
PTime	20
Anonymous Call	Disabled
Anonymous Call Rejection	Disabled
Rejection Code for Anonymous Call	433 (Anonymity Dis)
Privacy Number	None
Missed Call Display on LCD	Enabled
Trust SIP Server Only	Disabled

Account Direct

- **Phone Interface**

1. Select **"Account – Basic"**
2. Select Account is Account Direct,
Active Select Enable



The screenshot displays the DINSTAR web interface for configuring a SIP Account. The top navigation bar includes tabs for Status, Account, Network, Phone, PhoneBook, Upgrade, and Security. The left sidebar shows a menu with options: Basic, Sip Param, Advanced, and Codecs. The main content area is titled 'SIP Account' and contains the following configuration options:

- Status:**
 - Account: Account Direct (dropdown menu)
 - Active: Enabled (dropdown menu)
- VPN:**
 - VPN Preferred: Enabled (dropdown menu)

At the bottom of the configuration area, there are two buttons: 'Submit' and 'Cancel'.

Hotline

- **Application scenarios**

setting the hotline number on the phone, the phone will automatically call the hotline number

- **Configuration-Phone Interface**

Press the keys one by one : **Menu ->Settings ->Advanced Settings ->Account**, Then configure the hotline

- **Configuration-Web**

1. Select **Account – Advanced**
2. Select the account ,Configure hotline number and delay time

The screenshot displays the DINSTAR web interface for configuring a SIP account. The top navigation bar includes links for Status, Account, Network, Phone, PhoneBook, Upgrade, and Security. The left sidebar shows a menu with Basic, Sip Param, Advanced, and Codecs. The 'Advanced' tab is selected, and the 'SIP Account' section is active. Within this section, the 'Hotline' sub-section is highlighted with a red box. It contains three fields: 'Active' (a dropdown menu set to 'Enabled'), 'Number' (a text input field containing '1001'), and 'Delay Time' (a text input field containing '2' with a unit of '(0~5s)'). The 'Account' field is also highlighted with a red box, showing 'Account3: 1000' with a dropdown arrow. The 'Keep Alive' section is visible below the 'Hotline' section.

DND

- **Application scenarios**



When the DND is enabled, the phone will automatically reject all incoming calls, and the caller will hear a busy tone. The phone's LCD interface will also display missed calls

- **Configuration-Phone Interface**

Menu - Features – DND

- **Configuration-Web**

1. Select **Phone – Forward & DND**
2. Select the account and enable DND

The screenshot shows the DINSTAR web configuration interface. The top navigation bar includes links for Status, Account, Network, Phone, PhoneBook, Upgrade, and Security. The left sidebar contains a menu with options: Basic, Time&Date, Call Feature, Voice, Key, Ringtones, Tones, Dial Plan, Action URL, Multicast, **Forward&DND** (highlighted with a red box), Intercom, ACD, and Power LED. The main content area is titled 'Sync Feature Code' and contains several sections. The 'Forward Transfer' section includes fields for Account (Account3: 1000), Always Forward (Disabled), Target Number, On Code, Off Code, Busy Forward (Disabled), Target Number, On Code, Off Code, No Answer Forward (Disabled), No Answer Ring Time (30), Target Number, On Code, and Off Code. The 'DND' section, also highlighted with a red box, includes fields for Account (Account3: 1000), DND (Enabled), Return Code When DND (486 (Busy Here)), DND On Code, DND Off Code, DND Timer Enable (Disabled), DND Timer 1 (0 Hour 0 Min -- 23 Hour 59 Min), and DND Timer 2 (0 Hour 0 Min -- 23 Hour 59 Min).

Auto Answer

- **Application scenarios**



Automatic answering of incoming calls

- **Configuration-Phone Interface**

Press the keys one by one : **Menu ->Settings ->Advanced Settings ->Account**, Then enable the Auto Answer

- **Configuration-Web**

1. Select **Phone – SIP Param**
2. Select the account and enable Auto Answer

The screenshot displays the DINSTAR web interface for configuring a SIP account. The top navigation bar includes links for Status, Account, Network, Phone, PhoneBook, Upgrade, and Security. The left sidebar shows a menu with 'Basic', 'SIP Param' (highlighted with a red box), 'Advanced', and 'Codecs'. The main content area is titled 'SIP Account' and contains two sections: 'SIP Account' and 'Service Param'. In the 'SIP Account' section, the 'Account' dropdown is set to 'Account3: 1000' (highlighted with a red box). In the 'Service Param' section, the 'Auto Answer' option is set to 'Enabled' (highlighted with a red box). Other settings visible include Min Local SIP Port, Max Local SIP Port, Use New SIP Port When Registration Fail, Call without Registration, MWI Subscribe, MWI Subscribe Period, Voice Mail Number, BLF Expire, ACD Expire, Caller ID Header, Ringtones, PTime, Anonymous Call, Anonymous Call Rejection, Rejection Code for Anonymous Call, Privacy Number, Missed Call Display on LCD, Trust SIP Server Only, DNS Query Mode, DNS Cache, and DNS Cache Time.

Parameter	Value	Range/Unit
Min Local SIP Port	20600	(1024~65535)
Max Local SIP Port	20600	(1024~65535)
Use New SIP Port When Registration Fail	Enabled	
Call without Registration	Enabled	
MWI Subscribe	Disabled	
MWI Subscribe Period	1800	(120~65535s)
Voice Mail Number	*170*2#	
BLF Expire	1800	(120~65535s)
ACD Expire	1800	(120~65535s)
Caller ID Header	FROM	
Auto Answer	Enabled	
Ringtones	Default	
PTime	20	
Anonymous Call	Disabled	
Anonymous Call Rejection	Disabled	
Rejection Code for Anonymous Call	433 (Anonymity Di	
Privacy Number	None	
Missed Call Display on LCD	Enabled	
Trust SIP Server Only	Disabled	
DNS Query Mode	A/AAAA	
DNS Cache	Enabled	
DNS Cache Time(0:Not Refresh)	0	(0~3600s)



THANKS



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