Basic Configuration

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Chapter 1 **Terminal Configuration**

1.1 VTY Configuration Introduction

The system uses the **line** command to configure terminal parameters. Through the command, you can configure the width and height that the terminal displays.

1.2 Configuration Task

The system has four types of lines: console, aid, asynchronous and virtual terminal. Different systems have different numbers of lines of these types. Refer to the following software and hardware configuration guide for the proper configuration.

Line Type	Interface	Description	Numbering
CON(CTY)	Console	To log in to the system for configuration.	0
VTY	Virtual and asynchronous	To connect Telnet, X.25 PAD, HTTP and Rlogin of synchronous ports (such as Ethernet and serial port) on the system	32 numbers starting from 1

1.3 VTY Configuration Example

It shows how to cancel the limit of the line number per screen for all VTYs without **more** prompt:

```
Switch(config)# line vty length 0
```

Chapter 2 **Maintenance and Debugging**

2.1 Troubleshooting

2.1.1 DEBUG configuration

1. Display debug information

Run the show command to display the system debug information.

Command	Purpose
show debug	Displays all debugs currently open on the system.

2. Disable all debugs

Run the no command to disable all debugs.

Command	Purpose
no debug all	Disables all debugs

CHAPTER 3 **SSH Configuration Commands**

3.1 Introduction

3.1.1 SSH server

A scure and encrypted communication connection can be created between SSH client and the device through SSH server. The connection has telnet-like functions.

3.1.2 SSH client

SSH client is an application running under the ssh protocol. SSH client can provide authentication and encryption, so SSH client gurantees secure communication between communication devices or devices supporting SSH server even if these devices run in unsafe network conditions.

3.2 Configuration Tasks

3.2.1 Enabling SSH server

SSH server is disabled by default. When SSH server is enabled, the device will generate a rsa password pair, and then listen connection requests from the client.

Run the following command in global configuration mode to enable SSH server:

Command	Purpose
Ip sshd enable	Enables SSH server.

3.2.2 SSH Maximum Connections Control

Run the following command to set the maximum number of ssh logins that can be logged at the same time.

Command	Purpose
ip sshd connections <1-64>	Sets SSH Maximum Connections Control

3.2.3 SSH Monitoring Port Control

Run the following command to set SSH Monitoring Port Control

Command	Purpose
ip sshd port <22,1025-65535>	Sets the port number on which the ssh service monitors.

3.3 SSH server Configuration Example

The following configuration enables the ssh service, and sets the maximum number of ssh connections to 10 and the listening port number to 3040.

3.3.1 Global configuration

```
ip sshd port 3040
ip sshd connections 10
ip sshd enable
```