

SE150 IP PBX

Quick Start Guide, document 96-00712-04

1 Verify Shipment Contents

Check the “Packing List (SE150)” document enclosed with the SE150 IP PBX to confirm that you have received all the items listed. If you suspect that there are discrepancies with the items or that the equipment is not fully functional, contact your Zed-3 sales representative immediately.

2 Hardware installation

- 2.1 Place the SE150 IP PBX on a sturdy table or mount it securely to a rack. The SE150 IP PBX requires space on both sides for ample air flow.
- 2.2 Connect the power cord to the power port located on the back and the power plug to an outlet.
- 2.3 Connect one end of the ethernet cable to the WAN port located on the back and the other end to the network.
- 2.4 Insert the T1/E1, FXO, or FXS module into an empty slot and tighten the screws by hand.

Warning Take great care to prevent damaging the module with ESD.

- 2.5 Turn on the power switch located on the back to power on the SE150 IP PBX. Verify the LCD display on the front panel turns on and displays information such as the IP address and version.

Warning Never install or remove a module when power is turned on the GS8 modular gateway

3 Initial Login

By factory default, the SE150 IP PBX is assigned the WAN IP address 192.168.0.100. Read the current WAN IP address setting on the LCD display located on the front panel. For most applications we recommend assigning a static IP address to the WAN port on the SE150 IP PBX. You can reset the IP address to the factory default by pushing the **Reset** button located on the back for 6 seconds with power on.

Warning The Reset button resets all configurations to default, not only the IP address.

- 3.1 You cannot login to the SE150 Administration UI if the PC IP address does not belong to the same network segment as the SE150 IP PBX. We recommend temporarily changing the PC IP address to the same network segment so you can login and setup the SE150 IP address as described in Section 4. At that point you can change the PC IP address back to its original setting.
- 3.2 On your PC, start the Internet Explorer web browser.¹
- 3.3 Enter **http://192.168.0.100** in the address field.
- 3.4 Enter the user name and password to login. The default user name and password are **admin**.

4 Configuring the Network Settings

- 4.1 Select [Administration | Network | WAN Settings](#).
- 4.2 **Work Mode**: Set to **Static**.
- 4.3 **IP Address**: Enter the IP address of the SE150 IP PBX.
- 4.4 **Netmask**: Enter the subnet mask of your network.
- 4.5 **Default Gateway**: Enter the IP address of your network's default gateway.
- 4.6 **DNS Server**: Enter the IP address of your DNS server.
- 4.7 Click **Set**. You may lose the network connection to the SE150 IP PBX after changing its IP address; if so, change the PC IP address back to the original setting and login again to the SE150 IP PBX using its new IP address.
- 4.8 Select [Administration | Network | WAN Access Type](#).
- 4.9 **IP Accessibility**: If the SE150 IP PBX has a public IP address, set to **Public IP Address**. If the SE150 IP PBX is behind a NAT router, set to **Private IP w/ Port Forwarding** and enter the public IP address in the **Public IP Address** entry field. If your router is not SIP aware, you will need to configure port forwarding for the SIP and RTP ports or configure IP mapping correctly on the router or firewall. To configure the SIP and RTP ports on the SE150 IP PBX, select [Maintenance | VoIP | SIP Settings](#) and [Maintenance | VoIP | RTP Settings](#).

5 Updating the Firmware

- 5.1 Select [Monitor | Information | System Info](#) or check the LCD display located on the front of the SE150 IP PBX to find the installed firmware version.
- 5.2 Compare the installed firmware version to the latest firmware version available for the SE150 IP PBX on the Zed-3 Software web page. If both versions are the same, proceed to Section 6.
- 5.3 If the firmware version on the web page is higher, download the firmware file to your PC.

1. Firefox may also work but currently Zed-3 has not ensured compatibility.

- 5.4 Select [Maintenance | Firmware Release](#).
- 5.5 Click **Browse**, navigate to the downloaded firmware file on your PC, and select it.
- 5.6 Click **Upgrade**.

Warning Do not power down the PC or the SE150 IP PBX while upgrading the firmware.

6 Installing the License

- 6.1 Select [Administration | License](#).
- 6.2 **License**: Enter the license information provided by Zed-3. You will not be able to add any SIP subscribers to the system without a valid license.
- 6.3 Click **Set**.

7 Configuring Subscribers

- 7.1 Select [Provision | Subscriber](#).
- 7.2 **Extension Type**: Set to **SIP**.
- 7.3 **Phone Extension**: Enter the extension of the subscriber.
- 7.4 **Display Name**: Enter the name of the subscriber.
- 7.5 **Auth Passwd**: Enter the password of the subscriber if necessary, it is not required.
- 7.6 Click **Add**.
- 7.7 Repeat steps 7.2 to 7.6 to add more SIP subscribers.
- 7.8 Test the new subscriber accounts by configuring SIP phones to register as these subscribers and making test calls.

8 Configuring the Voice Mail Extension

Voice mail service requires a CF (compact flash) card for voice mail storage. Insert a CF card into the CF slot located on the back of the SE150 IP PBX.

- 8.1 Select [Provision | Subscribers](#).
- 8.2 **Extension Type**: Set to **Voice Mail**.
- 8.3 **Voice Mail Number**: Enter the voice mail extension.
- 8.4 Click **Add**.

- 8.5 Make test calls to the voice mail server to verify connection. The default voice mail box password for all subscribers is **0000**.

9 Configuring the Auto Attendant

- 9.1 Select [Provision](#) | [Subscribers](#).
- 9.2 [Extension Type](#): Set to **IVR**.
- 9.3 [IVR Number](#): Enter the extension for the auto attendant.
- 9.4 Click **Add**.
- 9.5 Select [Service](#) | [Attendant](#) | [Upload Office Hour Greeting Message](#).
- 9.6 Click **Browse** and navigate to the greeting message encoded in either G.711, G.723.1, or G.729.
- 9.7 Click **Upload**.
- 9.8 Select [Service](#) | [Attendant](#) | [Upload After Hour Greeting Message](#).
- 9.9 Click **Browse** and navigate to the greeting message encoded in either G.711, G.723.1, or G.729.
- 9.10 Click **Upload**.
- 9.11 Select [Service](#) | [Attendant](#) | [Upload Voice Menu](#).
- 9.12 Click **Browse** and navigate to the voice menu message encoded in either G.711, G.723.1, or G.729.
- 9.13 Click **Upload**.
- 9.14 Select [Service](#) | [Attendant](#) | [Set Office Hours](#) to specify the office hours for the auto attendant.
- 9.15 Make test calls to the auto attendant to verify the greeting messages.

10 Configuring the IP Trunk

- 10.1 Select [Provision](#) | [Trunk](#) | [Trunk](#).
- 10.2 [Trunk ID](#): Enter an unused number greater than 32.
- 10.3 [Type](#): Set to **IP**.
- 10.4 [Numbering Plan Name](#): Set to **Not Use Numbering Plan**.
- 10.5 [Max Concurrent Call](#): Enter the maximum number of simultaneous sessions over this IP trunk.
- 10.6 [Phone Number](#): Enter the phone number used for authentication over this IP trunk. In most cases this has the same value as [Auth ID](#) if the [Auth ID](#) is a phone number.

- 10.7 **Proxy Address:** Enter the IP address or Fully Qualified Domain Name (FQDN) and port number of the proxy server, for example **10.100.0.10:5060** or **sip.zed-3.com**.
- 10.8 **Register Address:** Enter the IP address or FQDN and port number of the registrar server. In most cases this has the same IP address as the Proxy Server.
- 10.9 **Auth Required:** Check the box if authentication is required.
- 10.10 **Auth ID:** Enter the ID or user name assigned to the SE150 for authentication. In most cases this has the same value as the phone number.
- 10.11 **Auth Password:** Enter the password for this Auth ID.
- 10.12 **Registration Expiry (sec):** This parameter determines how often the SE150 registers with the proxy server. 60 seconds or less should be entered for this field if the SE150 is behind a NAT router.
- 10.13 Click **Add**.

11 Configuring Routes

- 11.1 Select **Provision | Subscriber Group** and verify the outgoing trunks are listed in the subscriber group's Egress Trunk List.
- 11.2 Select **Provision | Route**.
- 11.3 **Sub Group ID:** Select the subscriber group for this routing rule.
- 11.4 **Digit Pattern:** Enter the dialing digit pattern used by this route. The pattern comprises digits N (2 to 9), Z (1 to 9), X (0 to 9), and + (any number of digits following the number).
- 11.5 **Description:** Enter an optional text description of this route.
- 11.6 **Trunk List:** Select trunk IDs to add to the **Used** field. Multiple trunk IDs can be added.
- 11.7 **Strip:** The number of digits, starting from the left, to strip off from the dialled number. For example, suppose you entered **4** for this field and you dialled 1-408-587-9333. The dialled number will translate to 587-9333.
- 11.8 **Prepend:** The number to add in front of the dialled number. For example, suppose you entered **1408** for this field and you dialled 587-9333. The dialled number will translate to 1-408-587-9333.
- 11.9 **Append:** The number to add after the dialled number.
- 11.10 Click **Add**.

Make incoming and outgoing test calls to verify the SE150 IP PBX has been correctly configured.

Please reference the SE System Exchange User's Manual for complete details of the configurations.