

Dramatically simplifying voice and data networking



# edgeboxx

## HOW-TO GUIDE

Bundle Quick Start Guide



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# Scope of the Quick-Start Guide

*This document has been developed to assist in installing, configuring and testing the edgeBOX quickly, with the primary focus of enabling VOIP services. Complementary accessories such as IP Phones and a switch are also required for VOIP services, and setting up these devices is also detailed in this document. Note: The edgeBOX can also be purchased as a bundle with a Power Over Ethernet (PoE) switch and IP Phones.*

*The edgeBOX comes with a free SIP account (for 30 days) that will enable the users to make free test calls.*

*This document is being continually reviewed and refined. We welcome any suggestions; please write us at: [info@critical-links.com](mailto:info@critical-links.com)*

## edgeBOX bundles

### edgeBOX Office Ready for 10 users

This bundle comes with the following components:

- 1 edgeBOX Office appliance
- 9 Linksys SPA922 phones
- 1 Linksys SPA942 operator phone
- 1 Ethernet switch 24 ports
- 1 edgeExchange
- 1 year software updates

The edgeBOX already comes set up with a default configuration, which should support most commonly deployed user scenarios.

### edgeBOX Office Ready for 24 users

This bundle comes with the following components:

- 1 edgeBOX Office appliance
- 23 Linksys SPA922 phones
- 1 Linksys SPA942 operator phone
- 1 Ethernet switch 24 ports
- 1 edgeExchange

- 1 year software updates

The edgeBOX already comes set up with a default configuration, which should support most commonly deployed user scenarios.

## edgeBOX Business Ready for 40 phones and 55 users

This bundle comes with the following components:

- 1 edgeBOX Business appliance
- 39 Linksys SPA922 phones
- 1 Linksys SPA942 operator phone
- 2 Ethernet switch 24 ports
- 1 edgeExchange
- 1 year software updates

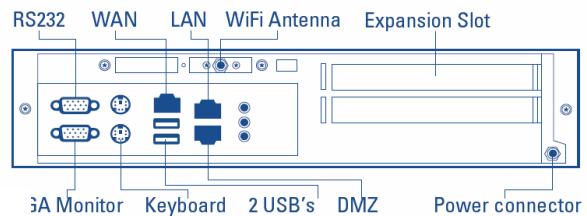
The edgeBOX already comes set up with a default configuration, which should support most commonly deployed user scenarios.

## The edgeBOX

### FRONT VIEW



### REAR VIEW

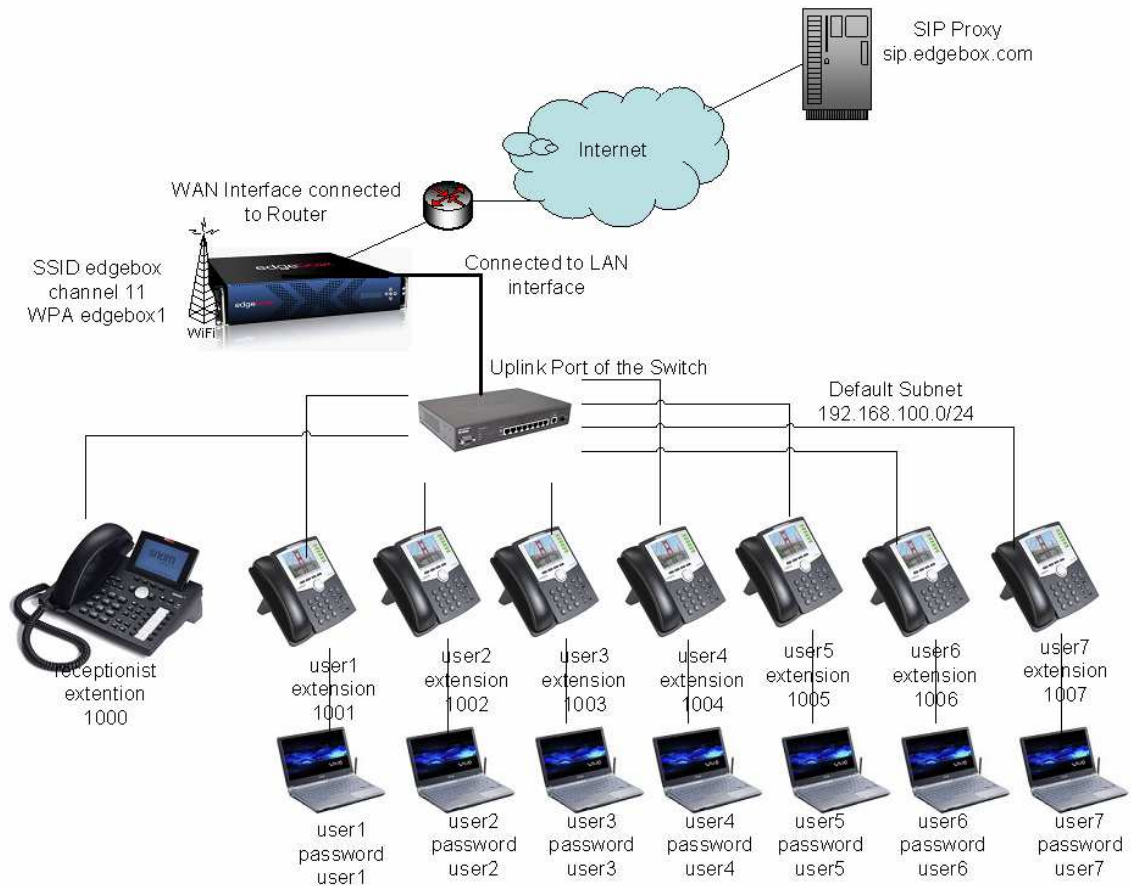


The edgeBOX front and rear are shown in the figure above. The power switch is in the front of the box, while all connections are made at the rear of the box; there are various interface ports that are available. A standard AC adapter/cable is included to power up the edgeBOX.

In order to provision the edgeBOX, a standard computer with a web browser is required. An Internet connection is also assumed to exist to enable using the edgeBOX to use voice and data services beyond the LAN.

# The default deployment configuration

The default deployment assumes the following network configuration:



## Connecting to the Wide Area Network (WAN) or Internet

The WAN connection is used to connect the edgeBOX to the Internet. Connect the WAN port on the edgeBOX to a router or your office network.

## Connecting to the Local Area Network (LAN)

The LAN connection is used to connect the edgeBOX to your internal office network. Connect the LAN port of the edgeBOX to uplink port on the D-Link network switch. By default, the LAN address of edgeBOX is 192.168.100.254. By default the edgeBOX acts as a DHCP server for the LAN.

## Enabling the Phones Auto-configuration

The Phone Auto Configuration allows you to configure VoIP phones directly on the edgeBOX, avoiding the configuration on the phone itself. Each phone downloads a configuration file from the TFTP service. To start phones Autoconfiguration go through the following steps:

- Connect and power up EdgeBOX. To switch on the appliance, press the power button located on the front panel. A blue light will then be visible, indicating the box is properly powered. It takes approximately three minutes for the edgeBOX to complete the power-on self test and bootup process.
- Connect and power up PoE switch. Uplink port of the switch should be connected to the LAN interface of edgeBOX.
- Connect a phone to one of the PoE ports, that will trigger DHCP request from the phone and in turn will start Autoconfiguration from edgeBOX, no additional actions required from.
- It takes approximately 5-10 minutes to finish Autoconfiguration
- Default Configuration will be downloaded to the phones. Please refer to the default configuration parameters from “Default Configuration Setting”
- At the end of the configuration process on a phone LCD phone's extension will be displayed and the phone will be ready to operate.

## Making your first phone call using the edgeBOX

After connecting and configuring your phones the default configuration of edgeBOX allows users to make a phones calls using SIP proxy for free (available only for 30 days evaluation period). These are the steps to start using your phones:

1. Connect you laptop or workstation to PC connector of the IP phone or a switch
2. Check from your laptop that you have access to Internet
3. Check that the phone is auto configured , phone's extension should be displayed on LCD
4. Check your external IP address. If you don't know your external IP, use your browser to find it out. To find your external IP go to <http://whatismyip.com/>



5. Connect to the edgeBOX to configure your external IP.  
To connect to the user interface and begin customizing the configuration of your edgeBOX, you may either connect your computer to the LAN using an ethernet cable, or via Wi-Fi. The edgeBOX Wi-Fi SSID is “edgebox” and the WPA personal key is “edgebox1”

To access the edgeBOX GUI, point your web browser to <http://192.168.100.254:8010> or <http://myedgebox.com>.

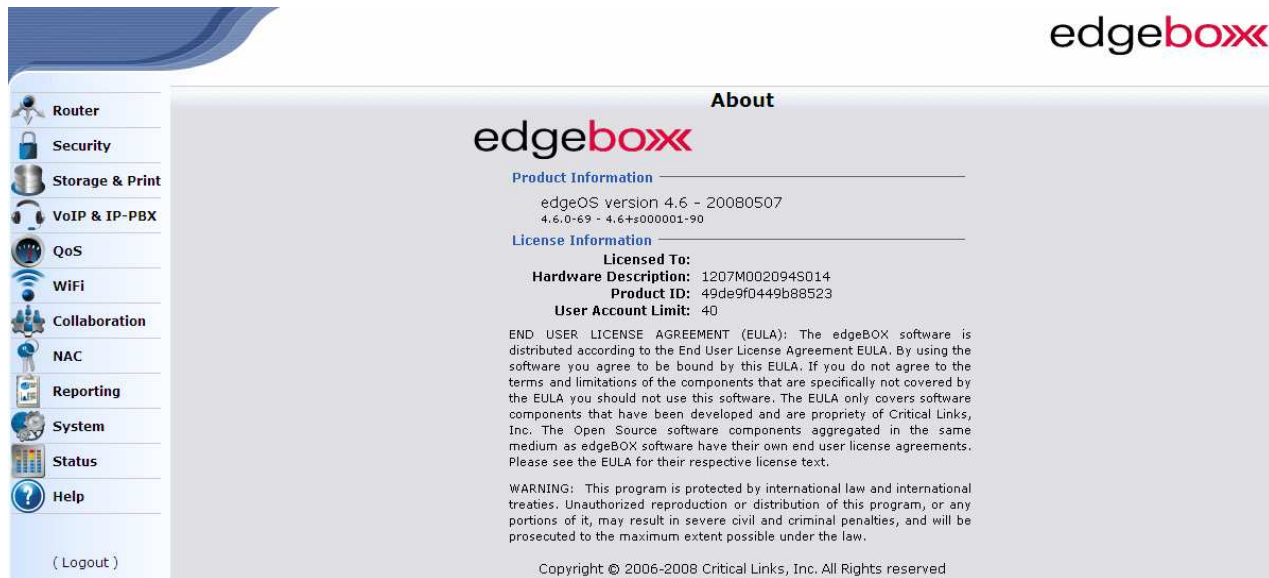
Log in using the username “**admin**” and the password “**root**”

Newer versions of Microsoft Internet Explorer may indicate a problem with the web site’s security certificate. Choose “Continue to this website.” You should be presented with the login screen as shown below.



The default username (lowercase) is: **admin**  
The default password (lowercase) is: **root**

Again, newer versions of IE indicate the page contains both secure and non-secure items. Choose yes to accept. After your login is successful, you will be presented with an About screen similar to this:



The screenshot shows the edgeBOX web interface. On the left is a navigation menu with icons and labels: Router, Security, Storage & Print, VoIP & IP-PBX, QoS, WiFi, Collaboration, NAC, Reporting, System, Status, and Help. Below the menu is a '( Logout )' link. The main content area is titled 'About' and features the edgeBOX logo. It contains sections for 'Product Information' (edgeOS version 4.6 - 20080507, 4.6.0-69 - 4.6+s000001-90) and 'License Information'. The license information includes 'Licensed To: 1207M002094S014', 'Hardware Description: 49de9f0449b88523', and 'User Account Limit: 40'. Below this is the 'END USER LICENSE AGREEMENT (EULA)' text, which states that the software is distributed according to the EULA and that users agree to be bound by its terms. A 'WARNING' section follows, stating that the program is protected by international law and that unauthorized reproduction or distribution may result in severe civil and criminal penalties. At the bottom of the page, it says 'Copyright © 2006-2008 Critical Links, Inc. All Rights reserved'.

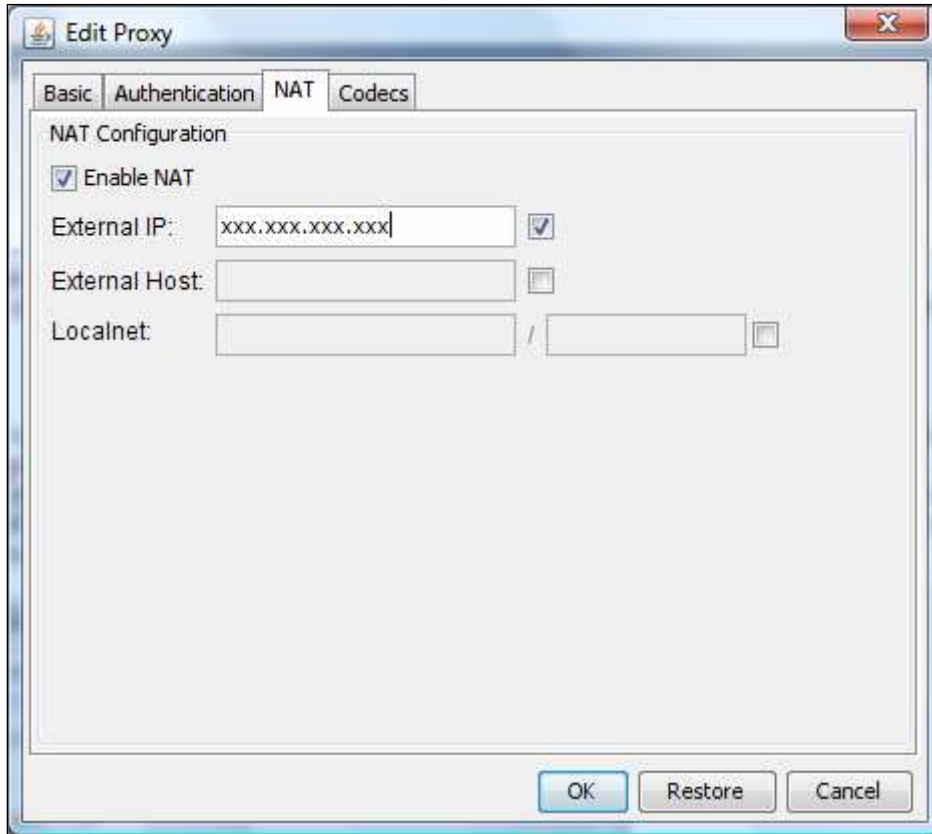
If you cannot view the screen, you may need to download the Java Runtime Environment (JRE).

This may be obtained from <http://java.sun.com/j2se/1.4.2/download.html>

Configuring this is automatic for Internet Explorer browser. The minimum JRE version supported is v1.4.2

If you cannot correct the problem, you should contact edgeBOX support:  
[edgeBOX.support@critical-links.com](mailto:edgeBOX.support@critical-links.com)

6. Navigate to **VoIP & IP-PBX** section
7. Choose **Outbound Calls** tab and then **SIP Proxies** tab
8. Select sip.edgebox.com and click on **Edit Proxy**
9. Navigate to **NAT** tab on the edit window
10. Select **Enable NAT** checkbox, select **External IP** checkbox and enter your external IP address.



11. Click **OK**
12. Click **Apply** button on the bottom right corner of the screen
13. Now you can start using phones to make phone calls. You have the ability to make some free test calls to ensure that the box/connectivity is up and running. This account will be deactivated in 30 days.

## Default Configuration Settings in the edgeBOX

The following are the default configuration settings for the various functions:

### Router Menu:

1. WAN interface is set to run as DHCP client
2. LAN Interface is configured to be on 192.168.100.0/24 subnet
3. DMZ Interface is configured to be on 192.168.200/24 subnet
4. There are 5 VLANs configured that can be used on the LAN interface
5. Default hostname and domain name configured to ebox and example.com respectively
6. DNS Server is enabled
7. DHCP server is enabled on the LAN interface with the following setting:

VLAN	Start Address	End Address
LAN w/o VLAN	192.168.100.100	192.168.100.200
LAN VLAN=2	192.168.101.100	192.168.101.200
LAN VLAN=3	192.168.102.100	192.168.102.200
LAN VLAN=4	192.168.103.100	192.168.103.200
LAN VLAN=5	192.168.104.100	192.168.104.200

**Security Menu:**

1. Firewall is enabled
2. Access to Administration GUI enabled for both LAN and WAN interfaces
3. All Services enabled for WAN and LAN interfaces

**VoIP and IP PBX Menu:**

1. One phone extension (extension name – receptionist) with the following configuration (navigate to “VoIP & IPPBX->Phones->Edit phone” )

The image shows a screenshot of the 'Edit Phone' configuration window. The window has three tabs: 'Basic', 'Advanced', and 'Codecs'. The 'Basic' tab is selected. Under 'Phone Info', there are three radio buttons: 'VoIP' (selected), 'Analog', and 'ISDN'. The 'Extension Name' field contains 'receptionist', the 'Extension Number' field contains '2000', and the 'Password' field contains '2000'. A callout bubble labeled 'Password' points to the password field. Below these fields are checkboxes for 'Publish Extension' (unchecked) and 'Active Voicemail' (unchecked). A 'Ring Time' dropdown menu is set to '20'. At the bottom, there is a 'VoiceMail' section with 'Voicemail Pin' and 'Email Address' fields. At the very bottom of the window are 'OK', 'Restore', and 'Cancel' buttons.

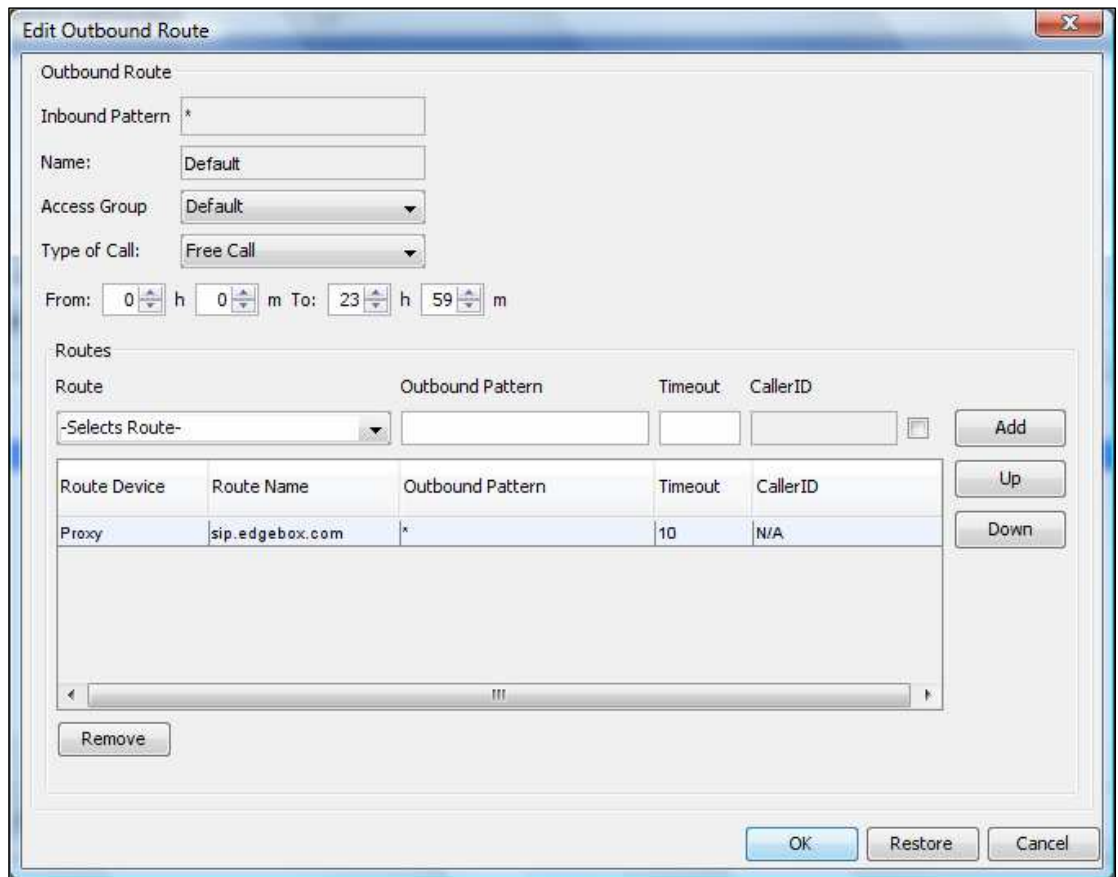
2. One Outbound SIP proxy that allows making free phone calls for 30 days trial period.  
(navigate to "VoIP & IPPBX->Outbound Calls->Edit Proxy")

The screenshot shows the 'Edit Proxy' configuration window. The 'Basic' tab is active, displaying the following fields:

- Proxy Name: sip.edgebox.com (highlighted with a callout bubble: "Free SIP proxy address")
- Host: sip.edgebox.com
- Max Calls: 3
- CallerID: (empty)
- DTMF: rfc2833
- Trusted Proxy:
- Keep Alive:

Buttons at the bottom: OK, Restore, Cancel.

3. One default LCR (Least Cost Routing) for Outbound calls where all calls set to be routed through the default SIP proxy  
(navigate to "VoIP & IPPBX->Outbound Calls->LCR->Edit Route")



4. Phone **Autoconfiguration** is **enabled**. The phones will be automatically configured as soon as they connected to the PoE switch.

**QOS Menu:**

1. QOS service is enabled. All VoIP traffic will be given a highest priority over data traffic

**WiFi Menu:**

1. WiFi Service is enabled
2. Default SSID – **edgebox**, channel – 11
3. Security type **WPA-PSK**, passphrase – **edgebox1**

**NAC Menu:**

Configured 7 default users with the following attributes

Username	First Name	Last Name	Password	Phone Extension	Authentication PIN	Extension Password
user1	user1	user1	user1	2001	2001	2001
user2	user2	user2	user2	2002	2002	2002
user3	user3	user3	user3	2003	2003	2003
user4	user4	user4	user4	2004	2004	2004
user5	user5	user5	user5	2005	2005	2005
user6	user6	user6	user6	2006	2006	2006
user6	user7	user7	user7	2007	2007	2007

Two default access profiles created

- **staff** – where all services are enabled
- **generic** – where only internet and email access enabled

Detailed information about the edgeBOX and its capabilities is provided in the User Manual (provided in the accompanying CD, and should be referred for all information). Our help desk is also available to assist you and ensure that you can leverage the numerous benefits of edgeBOX at 1-888-4-EDGEBOX