

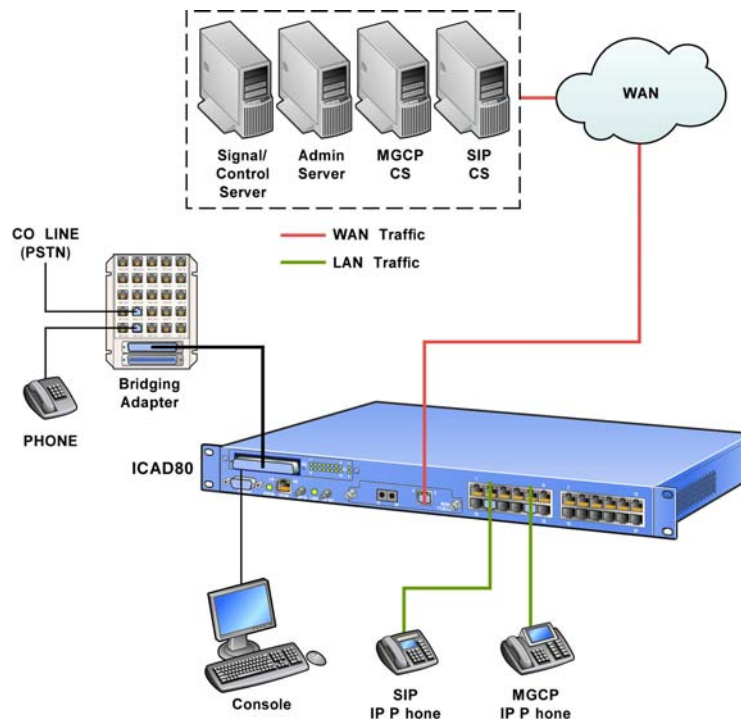
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# ICAD80 Business Gateway User Guide

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Release 2.0

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# ABOUT THIS GUIDE

This chapter provides information about the intended audience for this guide, how this guide is organized, typographical conventions, the use of notices, and related documentation.

---

## Introduction

This document provides guidelines for configuring and monitoring the ICAD80. This guide is designed for network managers, administrators, and technicians who are responsible for the management of networking equipment in Enterprise and Service Provider environments. Knowledge of Telecom technologies and standards including telephony and internet protocols is assumed.

---

## Organization

The following tables describe the content and organization of this guide.

**Table 1 Document Organization**

Chapter	Description
1	Starting With ICAD80 provides an overview of ICAD80 capabilities, default settings, and user interface.
2	Using Commands provides information about using CLI commands for online help, saving and showing configurations, and applying configurations in interactive mode.
3	User Management describes users, permissions, and groups, and provides guidelines to create, modify, and remove user access to the network.
4	Interface Configuration provides examples to configure the ICAD80 unit for ethernet access (LAN, WAN, VLAN).
5	System Configuration provides examples for system configuration (SNTP time, DNS client, watchdog).
6	Routing Configuration provides configuration examples for routing (ARP, static routing, dynamic, RIP).
7	Switching Configuration provides configuration examples for switch (port) configuration (LAN, WAN, ARL, port mirroring, VLAN, layer 2 QoS). configurations are related to <i>Chapter 4, Interface Configuration</i> .
8	Security Configuration provides examples for security configuration (Firewall, IDS, NAT, ALG).

---

**Table 1 Document Organization (continued)**

Chapter	Description
9	QoS Configuration provides configuration examples for layer 3 Quality of Service (links, quality service, security).
10	SIP Configuration provides examples to configure SIP devices (server, session controller, user agent).
11	MGCP Configuration provides configuration examples for MGCP devices (server, session controller, user agent).
12	VoIP Survivability provides configuration examples for local call routing.
13	Services Configuration provides configuration examples for services (file system, remote administration, connectivity, authentication).
14	Monitoring provides examples of tracking and monitoring system performance.
A	Upgrade Software provides examples of upgrading image and configuration software.
C	Third Party Software provides contact information for the third party software referred to in this document.
D	SSH Functionality provides information about SSH as related to user management.
B	Web UI provides examples of using the Web User Interface (monitor, configure, upgrade software).
E	CLI Commands lists the ICAD80 CLI commands for configuration, showing information, and statistics.
F	TCPdump Expressions provides detailed information about using specific tcpdump expressions (options).
G	Country Codes lists the ISO country codes.
H	Compliance lists the voice and data standards, and FCC compliance.
I	GoS Functionality provides details about <i>Guarantee of Service</i> (GoS).
J	Important Information lists copyright acknowledgements and restrictions.

---

## Typographical Conventions

This guide uses the following typographical conventions:

**Table 2 Text Conventions**

Font	Description
<i>NOTE:</i>	<i>Guidelines provided to use products more effectively.</i>
<b>IMPORTANT:</b>	Important information and/or instructions that must be followed.
CAUTION:	Guidelines provided to avoid equipment damage or faulty application.
<b>WARNING:</b>	Instructions provided to avoid personal injury.
<i>italic emphasis</i>	This font shows book titles, special terms, or emphasis.
<b>bold emphasis</b>	This font shows strong emphasis.
screen font	This font shows a screen capture: what is displayed on the monitor.
blue screen font	This font emphasizes selected items in a screen capture.



**Table 2 Text Conventions (continued)**

Font	Description
<i>italic screen font</i>	This font is used in command examples as a parameter placeholder — Replace the indicated text with the appropriate real name or value when using the command.
<b>boldface screen font</b>	This font shows commands that you enter or keyboard keys that you press.

---

## Customer Support

For customer support, please contact your equipment supplier.

# A

## UPGRADE SOFTWARE

This appendix provides information for upgrading ICAD80 software.

---

### Introduction

The software that can be upgraded or re-installed in a ICAD80 are the application (image) and the bootloader code. This process is supported by Web UI, a feature of ICAD80.

For more information about Web UI, see Appendix B, "Web UI".

### Check Boot Code

It is recommended to check the current version of bootloader code in the ICAD80. At the release of this document, version 9 (X.XX.0009) or greater should be used when upgrading software. For instructions to check the version of bootloader code, see "View Bootloader Code" on page 306.

If the bootloader code must be upgraded, see "Upgrading Software Via Web UI" on page 303.

**Table 144** *File Names*

File Type	File Name
Image	app.bin
Bootloader	boot.bin

### Images

Two images can be stored in ICAD80 in locations slot 1 and slot 2 on the compact flash. This feature allows you to save an image when upgrading the application software.

Only one image can be primary (default): the image that is used to run ICAD80. The other image is secondary: an alternate image that you can select to run, should it be necessary. For instructions to select which image is default, see "Change Default Application Image" on page 306.

---

### Upgrading Software Via Web UI

This section provides instructions to upgrade the application or bootloader software of the ICAD80. Your workstation can access the ICAD80 through the Internet or a LAN connection.

This procedure assumes the ICAD80 has been physically installed in the network and is operational.

### Requirements

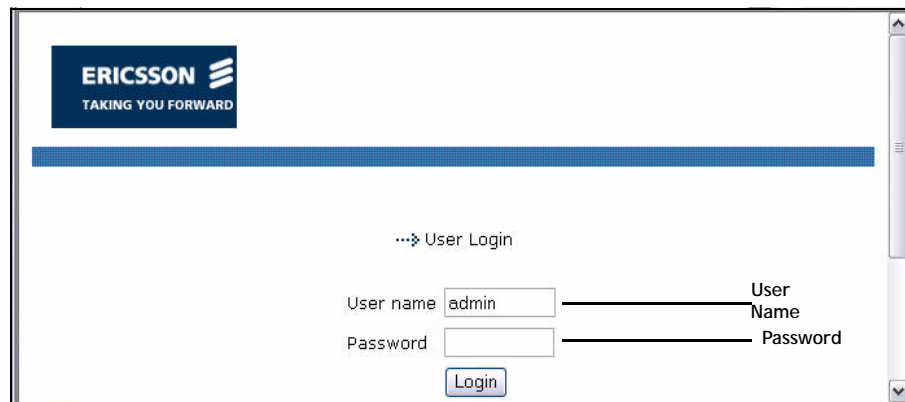
- The Internet browser on your workstation must be either Microsoft Internet Explorer or Mozilla FireFox.
- The IP address of the ICAD80 must be known.
- The name of the upgrade software file must be known.

- The location of the file must be known. e.g., it must be available at a known location on your workstation.  
To acquire the upgrade software, contact your IT manager or Customer Support.
- The instructions follow.

## Upgrade Software via Web UI

### Login

- 1 Enter the IP address of the ICAD80 on the web browser, which can be done via HTTP or HTTPS:
    - HTTP  
Enter the IP address using http:  
<http://xxx.xxx.xxx.xxx>
    - HTTPS  
Enter the IP address using https:  
<https://xxx.xxx.xxx.xxx>
- The login window opens, requesting your user name and password. See Figure 7.



**Figure 7 Web UI Login Window**

- 2 Enter your user name and password in the appropriate text boxes: Name, Password.  
The default name is [admin](#).  
The default password is [admin](#).  
*NOTE: The password is case sensitive.*
- 3 Press the Login button.  
WEB UI opens with the System Screen, which shows current system statistics.

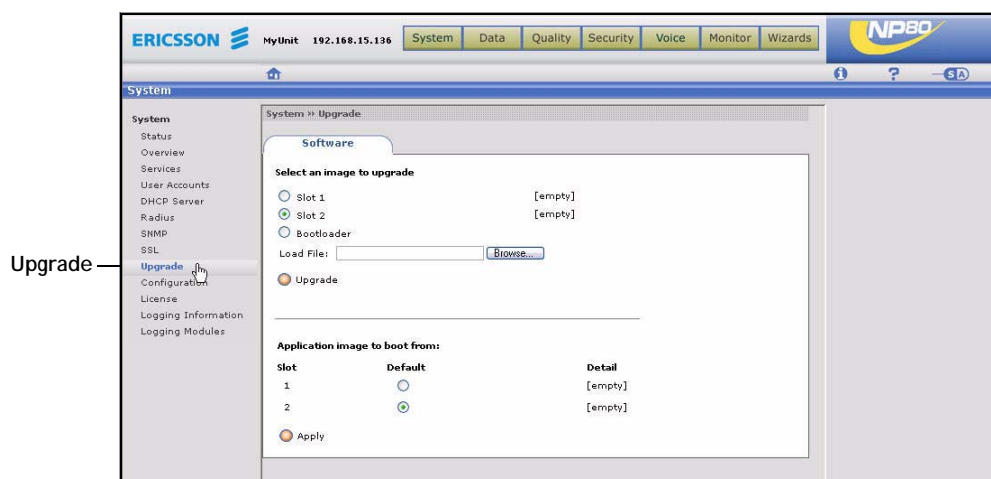


**Figure 8 Default Window after Login**

- 4 Logging in is complete.

### Upgrade Software

- 5 Under the configuration menu, select upgrade. See Figure 9.

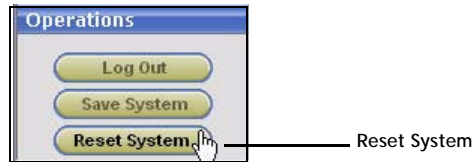


**Figure 9 Upgrade Image**

- 6 In the Upgrade tab, select which image (slot) to upgrade:
- » Slot 1 and Slot 2 represent the application software (images) that are present on ICAD80.
  - » The image (slot) that is upgraded is automatically set as the (default) image the ICAD80 runs on. After installation, the default image can be changed. (Refer to "Change Default Application Image" on page 306.)
  - » Bootloader represents the application that loads in the new image.
- 7 In the Load File text box, select the file to upload.
- If necessary, use Browse to locate the file.

- 
- Click the [Upgrade](#) button.  
Several messages will display.  
When the upgrade is complete the message Updated will appear.
  - To complete the upgrade, reboot the ICAD80. To do so, select the [Reset System](#) button under Operations. See Figure 10.

**IMPORTANT:** Do not reboot the ICAD80 until after the [Updated](#) message is displayed.

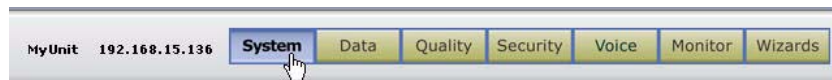


**Figure 10 Reset System**

- Upgrading the software is complete.  
*NOTE: When the ICAD80 reboots, the Internet connection will be lost.*  
To re-connect to the unit, you will have to login. See "Login" on page 304.
- It is recommended to verify the software was successfully installed. See "Verify Software Installation" on page 306.

## Verify Software Installation

- If you are already logged in, proceed to the next step. Otherwise, login to the ICAD80 through the Web UI. See "Login" on page 304.
- On the menu bar, select [System](#). See Figure 11.



**Figure 11 Menu Bar**

- Under the configuration menu, select [Upgrade](#). See Figure 9 on page 305.
- Under the section [Application image to boot from:](#), the current image files will be listed under [Detail](#).  
Under [Default](#), the highlighted button indicates which image is set for default.
- This procedure is complete.

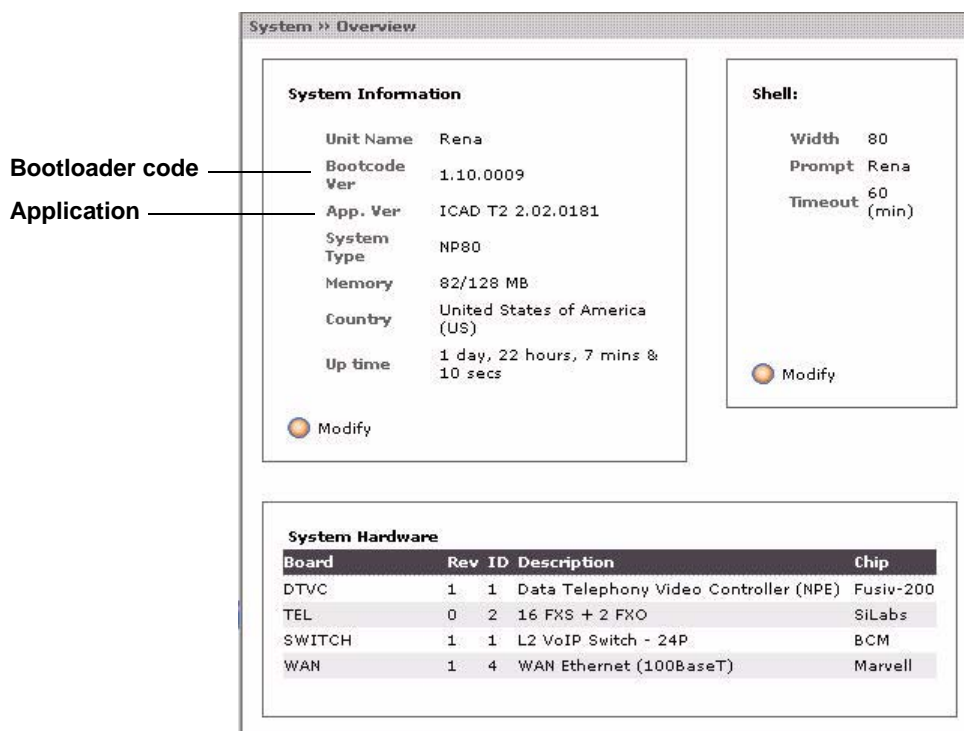
## Change Default Application Image

- If you are already logged in, proceed to the next step. Otherwise, login to the ICAD80 through the Web UI. See "Login" on page 304.
- On the menu bar, select [System](#). See Figure 11 on page 306.
- Under the configuration menu, select [Upgrade](#). See Figure 9 on page 305.
- Under the section [Application image to boot from:](#), select the desired image for default. To do so, select the appropriate button under default. See Figure 9 on page 305.
- Select the button [Apply](#).
- This procedure is complete.

## View Bootloader Code

- If you are already logged in, proceed to the next step. Otherwise, login to the ICAD80 through the Web UI. See "Login" on page 304.

- 2 On the menu bar, select **System**. See Figure 11 on page 306.
- 3 Under the configuration menu, select **Overview**. See Figure 9 on page 305.
  - The System Information section will show the version of the bootloader software.
  - The version of the default application will also be displayed.



**Figure 12 Software System Overview**

- 4 This procedure is complete.

## Find IP Address via CLI

This procedure assumes the following:

- Your PC is connected to the CONSOLE port of the ICAD80 through a serial port cable
- Tera Term Pro, or a similar terminal emulator, is running on your PC.

*NOTE: This procedure uses Tera Term Pro.*

For information about third-party software, see Appendix C, “Third Party Software”.

- 1 On the PC, connect to the ICAD80 through the terminal simulator. See Figure 13.
  - a Select **File**, and then, **New Connection** from the menu bar.
  - b In the window that opens, *Tera Term: New Connection*, select the **Serial** button.
  - c Select the appropriate **COM Port**.
  - d Click **OK**.



**Figure 13 Connect to ICAD80**

- 2 The monitor will display the following:

User:

- 3 Enter the default user name: **admin.**

The response will be as follows:

Password:

- 4 Enter the default password: **admin.**

The prompt will appear: NPE>

*NOTE: The prompt may after system information has been displayed.*

- 5 Enter the following command:

NPE> **show interface IP**

- 6 The display will be similar to the following:

**"eth0" info: [WAN Port]**

```

Interface          eth0
Flags              (A843) < UP BROADCAST RUNNING SIMPLEX LINKUP
MULTICAST >
  IP Address/Mask   172.16.1.217/255.255.255.0
  MTU               1500
  DHCP              off
  Lease obtained    N/A
  Lease expires     N/A
  MAC Address       00:15:93:FF:00:F8
  Speed             AUTONEG

```

**"eth1" info: [LAN PORT]**

```

Interface          eth1
Flags              (A843) < UP BROADCAST RUNNING SIMPLEX LINKUP
MULTICAST >
  IP Address/Mask   192.168.1.1/255.255.255.0
  MTU               1500
  DHCP              off
  Lease obtained    N/A
  Lease expires     N/A
  MAC Address       00:15:93:FF:00:F9
  Speed             N/

```

**"fr0" info: [T1 WAN PORT]**

```

Interface          fr0

```

Flags	(20C1) < UP RUNNING NOARP LINKUP >
IP Address/Mask	10.12.0.1/255.255.255.0
MTU	4096
DHCP	off
MAC Address	00:00:00:00:00:00
Speed	N/A

7 This procedure is complete.

- If connecting to the ICAD80 through the WAN port, use the eth0 or the T1 address.
- If connecting to the ICAD80 through a LAN port, use the eth1 address.

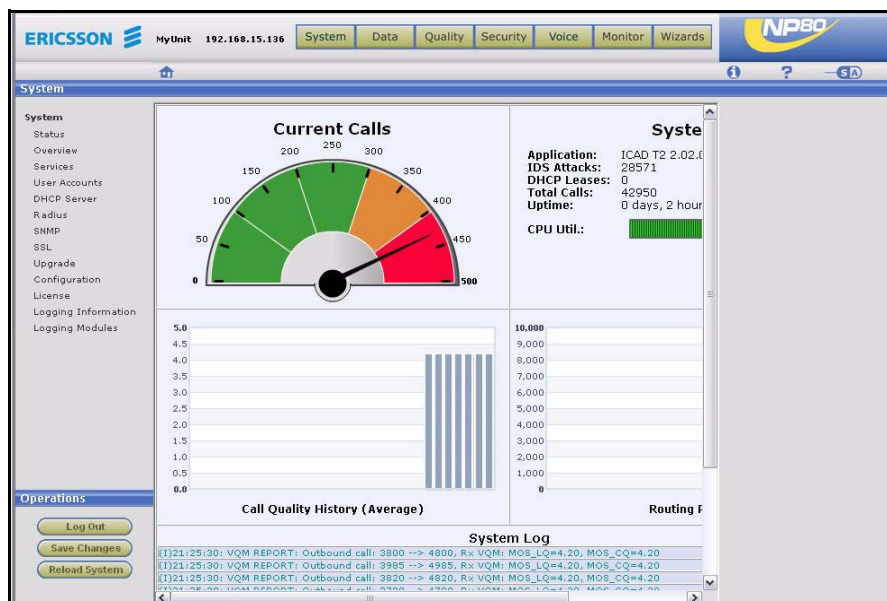


# B WEB UI

This appendix describes the Web User Interface functions and provides examples of using it for configuring the ICAD80 and monitoring data.

## Introduction

Web UI is a browser-based interface, which provides interactive access to the ICAD80 unit. Administrative and monitoring functions are available through Web UI. Web UI can be accessed through HyperText Transport Protocol (HTTP) or HyperText Transport Protocol Secure (HTTPS).



**Figure 14 Main Page**

**NOTE:** The Web UI supports most, but not all ICAD80 features. For some configurations, it may be necessary to use CLI commands (refer to the appropriate configuration chapter).

---

## Web UI Features

This section summarizes the features of Web UI.

### Browser Support

Web UI can be used with the following web browsers:

- Microsoft IE
- FireFox

### User Interface

Web UI provides a visual and intuitive user interface. Functions are available by selecting (“clicking”) the desired feature. For details about the user interface links, see “WEB UI Navigation” on page 313.

### Configuration

Web UI supports the following configurations for ICAD80:

- System
- Data Interface
- QoS
- Security
- VoIP

For an example of using Web UI for configuration, see “Configuring ICAD80” on page 317.

### Monitoring and Tracking

Web UI can be used the monitor system operations and view statistical information.

For an example of using Web UI for monitoring system operations, see “Monitoring” on page 320.

### Wizards

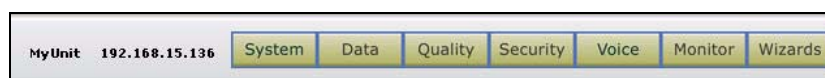
The Web Wizards provides step-by-step guidelines for the following configurations:

- Interface
  - LAN
  - WAN
- Session Controller
  - SIP
  - MGCP
- QoS policies for the following:
  - eth0 Link (WAN)
  - eth1 Link (LAN)
- Firewall, security policies for the following:
  - self
  - eth0
  - eth1
- Phone
  - Create telephone interface for SIP or MGCP

For an example of using Wizards for configuration, see “Using Wizards” on page 321.

## WEB UI Navigation

This section describes the navigation links and pages of the Web UI.



**Figure 15** *Menu Bar*

## Buttons

The buttons provide links to ICAD80 operations.

- **System**  
Provides access to system operations for information and configuration. The operations include services, user accounts, DHCP, RADIUS, SNMP, SSL, upgrade software, etc.
- **Data**  
Provides access to data interfaces for configuration. The data interfaces are Interfaces, Relays, Routing, and Switch.
- **Quality**  
Provides access to quality of service (QoS) for configuration. The services are Call Quality Monitoring, QoS Links, and Groups.
- **Security**  
Provides access to security services for configuration. The services are Firewall policies, NAT, ALG, IDS, and Voice ACL.
- **Voice**  
Provides access to voice services for configuration. The services are Media, Session Controller, User Agent, and Local Call Routing.
- **Monitor**  
Provides access to performance and activity information: Protocol Monitoring, Netflow, Calls, Statistics, and Audit.
- **Wizards**  
Selecting this button enables Wizards, a step-by-step configuration guideline. Wizards supports Interface, Session Controller (MGCP and SIP), QoS, Firewall, and Phone.

## Additional Functions and User Modes



**Figure 16** *Additional Function Keys*

**i**

Selecting the information icon opens a second web page to an informational site.

**?**

The help icon provides a summary of Web UI capabilities.

### **S/A — User Modes**

The S/A icon can be used to select the desired user mode. Two modes are available: Basic, Expert. The default setting is Basic.

The dark blue background indicate which mode has been selected.  
After changing the user mode, the web page needs to be refreshed for the change to take place.



Basic Mode



Expert Mode

**Figure 17 User Modes**

- Basic

In this mode, the help text will be displayed next to the data entry field on the web page.

A screenshot of a web-based configuration page titled 'Security Policy: Configure firewall rules to allow or deny traffic'. The form contains several input fields with corresponding help text to their right. A bracket on the right side of the form points to the help text, labeled 'Help text'. The fields and their help text are: Index (new, Unique numeric identifier, accepts 'new' for new policy creation), From (eth1, Where the packet originated from), To (eth0, Where the packet is destined to (ie: interface)), SIP (any, The source IP or range of IP addresses), DIP (any, The destination IP or range of IP addresses), SPort (any, The source port or range of ports), DPort (any, The destination port or range of ports), Proto (any, The protocol to which the policy applies), NAT (0, NAT Policy to apply), QoS (, The CoS 2.8 quality group for traffic shaping and QoS), ToS (any, IP ToS value (decimal byte) to match ("any" to disable)), IPSec (, IPSec policy action name), Sequence (begin, Sequence of the policy (Begin | End | Position)), and Action (allow, Whether to allow or deny traffic policy). At the bottom are 'Update' and 'Cancel' buttons.

**Figure 18 User Mode — Simple**

- Expert

In this mode, the help text will not be displayed next to the entry field on the web page. See Figure 19.

A screenshot of the same 'Security Policy' configuration page as in Figure 18, but in Expert mode. The help text is not displayed next to the input fields. The fields and their values are: Index (new), From (eth1), To (eth0), SIP (any), DIP (any), SPort (any), DPort (any), Proto (any), NAT (0), QoS ( ), ToS (any), IPSec ( ), Sequence (begin), and Action (allow). At the bottom are 'Update' and 'Cancel' buttons.

**Figure 19 User Mode — Advanced**

After changing the User Mode, you need refresh the web page to show the change in display.

## Configuration Menu

The configuration menu is located on the upper left panel of the main screen.



**Figure 20 Configuration Menu**

The display of the configuration menu is related to the selection on the menu bar. The example in Figure 20 shows the configuration menu for *System*. The items listed under *System* are links to tasks.

The items listed under *Logging* are links to options for system logging.

## Operations

*Operations* is located on the lower left panel of the main screen.



**Figure 21 Operations**

### Logout

*Logout* is used for exiting the Web UI. When this button is selected, you will be logged out, and the web page will return to the login screen (see Figure 22 on page 316).

### Save System

*Save System* can indicate that configuration changes have been applied, but not yet saved in non-volatile memory; this is indicated by a change in color. To ensure configuration is saved when ICAD80 power is recycled, *Save System* must be selected.

### Reset System

*Reset System* reboots the ICAD80.

---

## Logging in to Web UI

This section provides instructions to access Web UI, via internet.

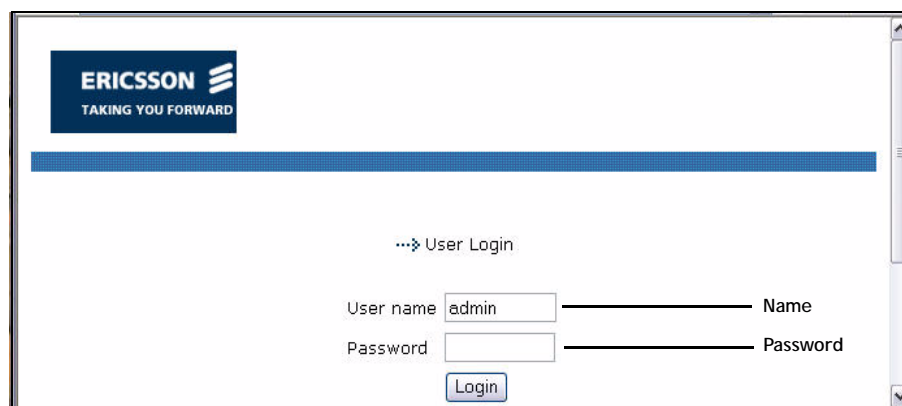
### Login Requirements

- Web UI is enabled (default setting)
- Web browser, Microsoft IET<sup>™</sup> or Firefox, is connected to the internet
- The IP address of the ICAD80
- User name and password

*Note: The default user name is [admin](#); the default password is [admin](#).*

### Login to Web UI

- 1 Enter the IP address on the web browser, which can be done via HTTP or HTTPS:
  - Via HTTP  
Enter the IP address using http:  
<http://xxx.xxx.xxx.xxx>
  - Via HTTPS  
Enter the IP address using https:  
<https://xxx.xxx.xxx.xxx>The login window opens, requesting your user name and password. See Figure 22.



**Figure 22 Web UI Login Window**

- 2 Enter your user name and password in the appropriate text boxes: Name, Password.  
The default name is [admin](#).  
The default password is [admin](#).  
  
*Note: Name is case sensitive.*
- 3 Press the Login button.  
WEB UI opens with the System Screen, which shows current system statistics.



**Figure 23 Default Window after Login**

Logging in is complete.

## Configuring ICAD80

This section provides guidelines to configure ICAD80 through the WEB UI. The following section shows an example of configuring *User Accounts*.

User Accounts is a module of *System*.

### Configuring User Accounts

- 1 On the Menu Bar, select **System**. See Figure 24.



**Figure 24 Menu Bar — System**

- 2 Under the configuration menu, select **User Accounts**. See Figure 25  
 The web site shows the first configuration tab for User Accounts: *Users*. See Figure 25  
 At this step, you can choose to configure or delete existing accounts, or to create a new account. In this example, a new account will be created. By default, *admin* and *user* accounts are created.

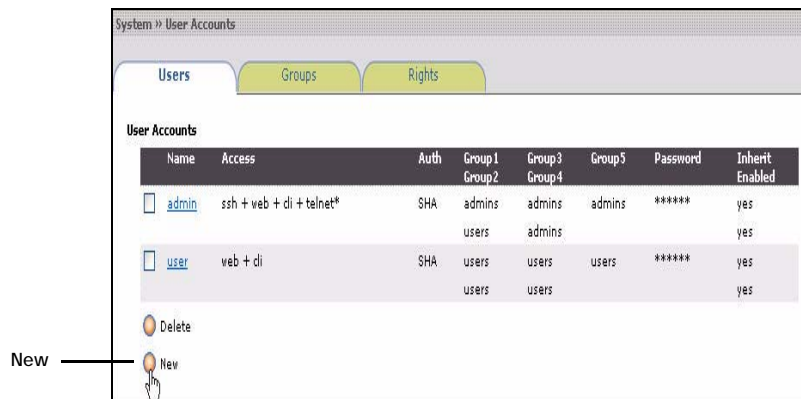
*Note: The admin and user accounts cannot be deleted.*

*Note: Other than the passwords, is strongly recommended to not change admin and user accounts.*



**Figure 25 Users Accounts**

- 3 To create a new account, select the button **New**. See Figure 26.



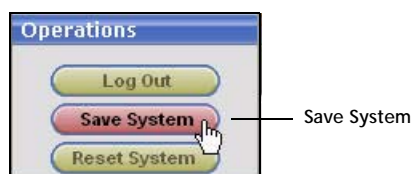
**Figure 26 New User Account**

- 4 In the text box next to **Name**, enter the name of the new user. See Figure 27.



**Figure 27 New User Account Configuration**

- 5 Select the appropriate items for the new user:
  - **Access**  
Any, all, or none can be selected: [ssh](#), [web](#), [cli](#), [telnet](#), [ftp](#).
  - **Authentication**  
Select [SHA](#) or [RADIUS](#).
  - **Group1 - Group 5**  
Select [none](#), [admins](#), or [users](#).
  - **Password**  
Note: the text will be readable in the text box.
  - **Inherit**  
Select [yes](#) or [no](#).  
If Inherit is selected ([yes](#)), the user will inherit the permissions of the selected group.
  - **Enabled**  
Select [yes](#) or [no](#).  
The user will not have access to the system until enabled ([yes](#)).
- 6 Select [Update](#).
- 7 To ensure the configuration is saved, press the button [Save Systems](#).



**Figure 28 Save System**

This step ensures the configuration is saved if power is recycled or the ICAD80 is rebooted. This completes the configuration.

# Monitoring

Following is an example of monitoring activity on the ICAD80.

- 1 On the menu bar, select **Monitor**. See Figure 29.



Figure 29 Menu Bar — Monitor

- 2 In the configuration menu under Statistics, select **IP**. See Figure 30.

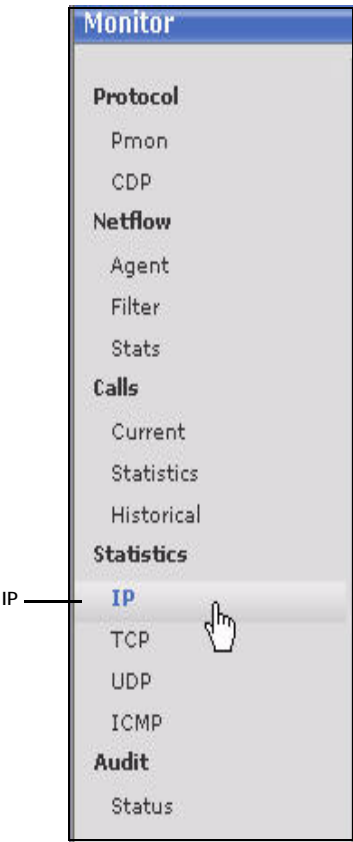


Figure 30 IP Statistics

The IP statistics will be displayed on the main page. See Figure 31.

Monitor >> Statistics IP			
<b>IP Statistics</b>			
Bad Checksum	0	Total packets	2895301
Packets Forwarded	44507717	Fragments Received	0
Too Small	0	Too Short	0
Bad Length	0	Bad Hlen	0
Frag Timeout	0	Frag Dropped	0
Cannot Forward	2	Fast Forward	0
No Proto	56236	Redirect Sent	0
Local Out	772884	Delivered	728935
Reassembled	0	Odropped	0
Output Fragments	0	Fragmented	0
Bad options	0	Cannot Fragment	0
Bad Version	0	No Route	2
Too Long	0	Raw Out	0
		Not Member	0
<input type="button" value="Refresh"/> <input type="button" value="Clear"/>			

**Figure 31 IP Statistics Information**

- 3 To update the statistics, press the Refresh button.
- 4 To clear the statistics, press the Clear button.
- 5 This procedure is complete.

## Using Wizards

Wizards provides detailed assistance with the following configurations for ICAD80:

- Interface
- Session Controller
- QoS
- Firewall
- Phone

For an example of Web UI configuration, see "Configuration" on page 312.

*NOTE: For some configurations, it may be necessary to use CLI commands. For an example of CLI configuration, refer to the appropriate chapter for information.*

## Configuring Interface

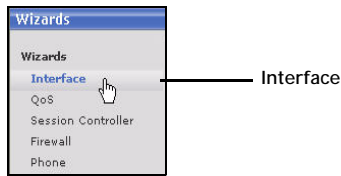
This section shows an example of using Wizards to configure *Interface*.

- 1 In the menu bar, select Wizards.



**Figure 32 Start Wizards**

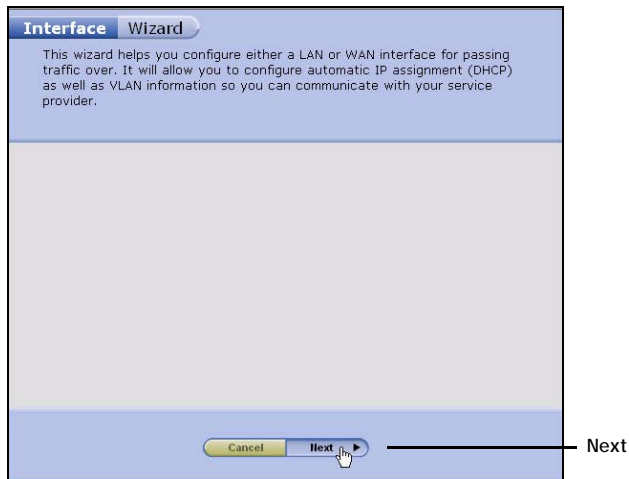
- 2 In the menu under the configuration menu, select Interface. See Figure 33.



**Figure 33 Select Interface**

A window opens, which summarizes the capabilities.

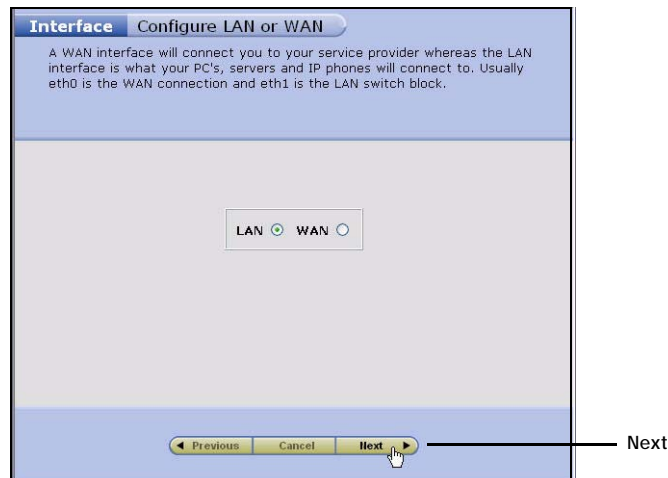
- 3 To start the configuration, select **Next**. See Figure 34.



**Figure 34 First Page for Interface**

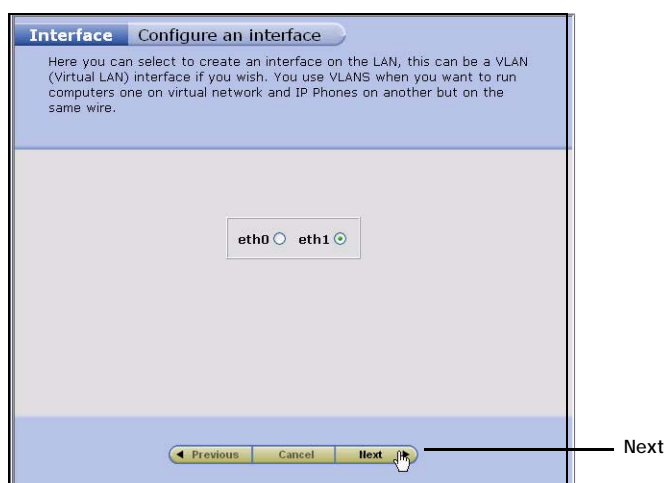
In the next window, you can select LAN (eth1 ports) or WAN (eth0 port).

- 4 For this example, select **LAN**. See Figure 35.



**Figure 35 LAN or WAN Interface**

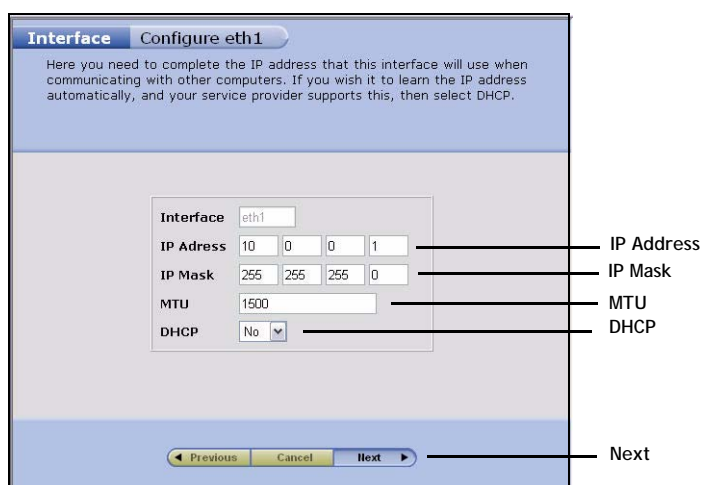
- 5 In the next window, select the appropriate port. For this example, select **eth1**. See Figure 36.



**Figure 36 Interface Selection**

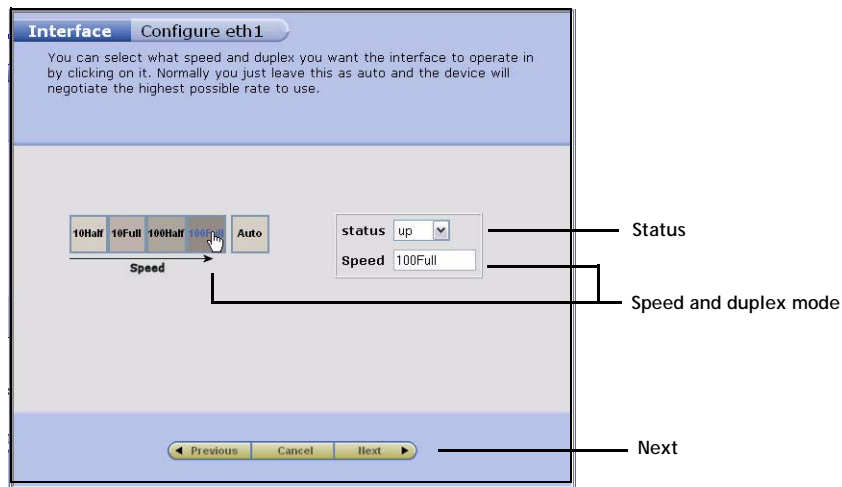
*Note: For LAN, selecting eth1 is appropriate; eth0 must only be used for WAN interface.*

- 6 Continue configuration; select Next. See Figure 37.  
The next window provides buttons and a text field for entering the necessary information.



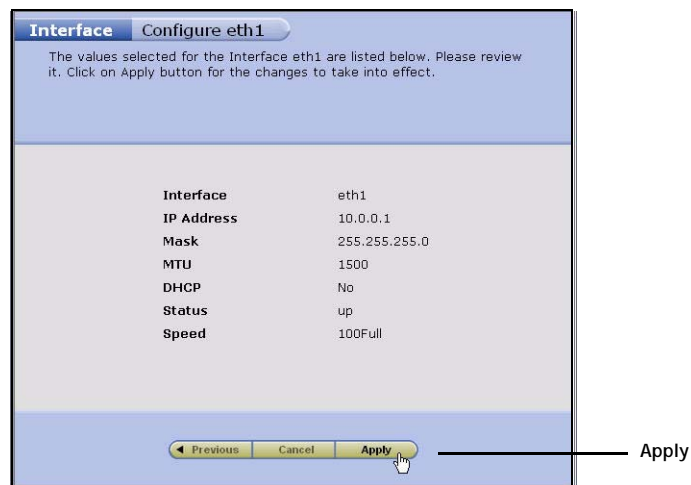
**Figure 37 IP Information**

- 7 Enter the appropriate values in the text fields:
  - IP address
  - IP mask
  - MTU (default value is 1500)
  - DHCP (default selection is yes)
- 8 Continue configuration; select Next. See Figure 37.  
The next window shows the options for port speed and duplex mode.
- 9 Select the appropriate status: **up** or **down**. See Figure 38.  
**up** indicates on.  
**down** indicates off
- 10 Select the desired speed and duplex mode.



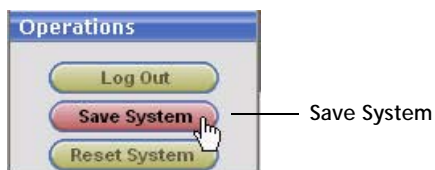
**Figure 38 Interface Port Settings**

- 11 Continue configuration; select **Next**.  
The next window shows the configuration setup.



**Figure 39 Complete Interface Configuration**

- 12 If you are satisfied with the setup and want the configuration to take place, select **Apply**. If not satisfied with the selections, there are two options.
  - Select **Previous** to step back and edit the appropriate setting.
  - Select **Cancel** to cancel the configuration change.
- 13 If satisfied with the configuration, press the **Save System** button.



**Figure 40 Save Configuration**

This completes the configuration.

## Upgrading ICAD80 Software

When necessary, the image software or the bootloader for ICAD80 can be updated.

The requirements are as follows:

- The name of the software file to transfer to the ICAD80 must be correct.
  - For image software: [app.bin](#)
  - For bootloader software: [boot.bin](#)
- The location of the file must be known. e.g., it must be available at a known location on your workstation.

If the above requirements are not met, contact your IT manager or Customer Support.

The instructions follow.

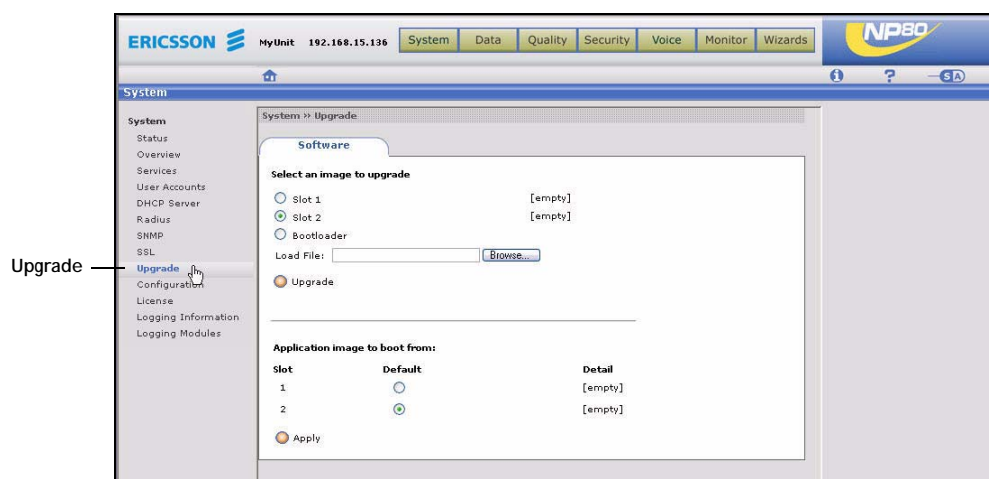
- 1 In the menu bar, select System.



**Figure 41 Menu Bar**

The main page opens to the System menu.

- 2 Under the configuration menu, select upgrade. See Figure 42.



**Figure 42 Upgrade Image**

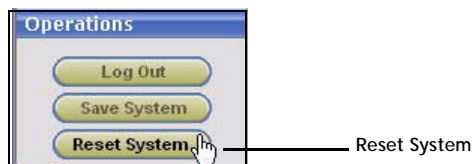
- 3 In the Upgrade tab, select which image to upgrade:
  - [Slot 1](#) and [Slot 2](#) represent images that are present on ICAD80. Only one image can be active.
  - [Bootloader](#) represents the application that loads in the new image.
- 4 In the [Load File](#) text box, select the file to upload.
 

If necessary, use [Browse](#) to locate the file.
- 5 In the Applications Images section, select with Slot to upgrade: [Slot 1](#) or [Slot 2](#).
- 6 Select [Upload](#).
 

A message will appear, stating the upload was successful.
- 7 To complete the upgrade, reboot the ICAD80. To do so, select the [Reset System](#) button under Operations. See Figure 43.

---

Upgrading the software is complete.



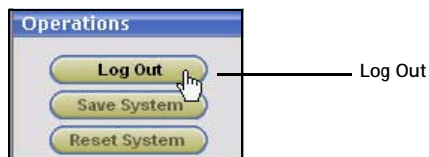
**Figure 43 Reset System**

---

## Exit Web UI

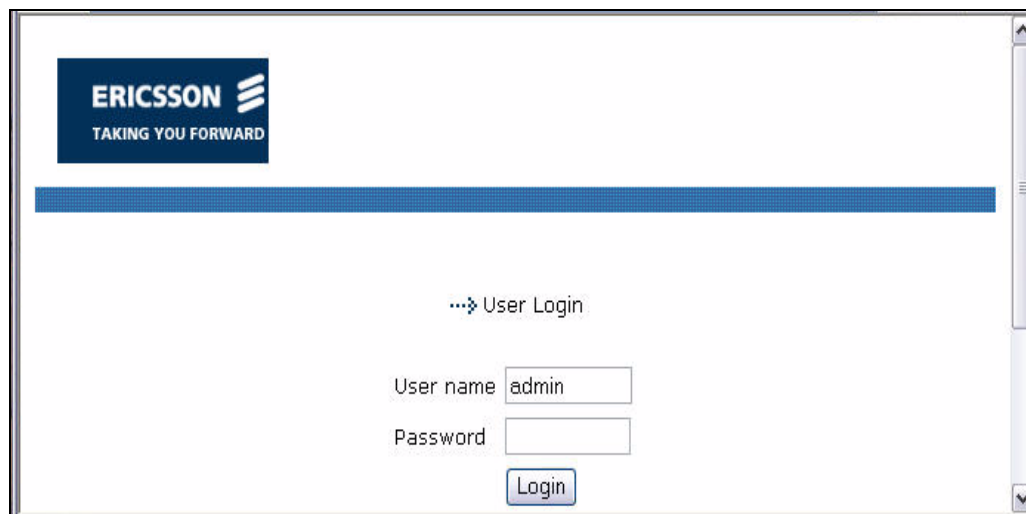
For security purposes, it is recommended that you log out of Web UI after you have completed your work.

- 1 To exit Web UI, select the Log Out button in the Operations menu. See Figure 44.



**Figure 44 Operations — Log Out**

After logging out, you will be returned to the login screen. See Figure 45.



**Figure 45 Login Screen**

- 2 For security, close the Web browser.  
Logging out is complete.



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