Procidia™ i|server™
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PREFACE

Symbols

The symbols in the table below may be used in this manual and may appear on the equipment. The reader should become familiar with the symbols and their meaning. Symbols are provided to quickly alert the reader to safety related statements and other important information.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>![DANGER]</td>
<td>Indicates an immediate hazardous situation that, if not avoided, <em>will</em> result in death or serious injury.</td>
</tr>
<tr>
<td>![WARNING]</td>
<td>Indicates a potentially hazardous situation that, if not avoided, <em>could</em> result in death or serious injury.</td>
</tr>
<tr>
<td>![CAUTION]</td>
<td>Indicates a potentially hazardous situation that, if not avoided, <em>may</em> result in minor or moderate injury.</td>
</tr>
<tr>
<td>![CAUTION]</td>
<td>Indicates a potentially hazardous situation that, if not avoided, may result in property damage.</td>
</tr>
<tr>
<td>![NOTICE]</td>
<td>Indicates a potential situation that, if not avoided, may result in an undesirable result or state.</td>
</tr>
<tr>
<td><strong>Important</strong></td>
<td>Identifies an action that should be taken to avoid an undesirable result or state.</td>
</tr>
<tr>
<td><strong>Note</strong></td>
<td>Identifies additional information that can affect use of the equipment.</td>
</tr>
<tr>
<td>![Electrical shock hazard]</td>
<td><strong>Electrical shock hazard.</strong> The included Warning text states that the danger of electrical shock is present.</td>
</tr>
<tr>
<td>![Electrical shock hazard]</td>
<td><strong>Electrical shock hazard.</strong> The included Warning text states that the danger of electrical shock is present.</td>
</tr>
<tr>
<td>![Explosion hazard]</td>
<td><strong>Explosion hazard.</strong> Indicates that the danger of an explosion hazard exists.</td>
</tr>
</tbody>
</table>
Document Conventions

<table>
<thead>
<tr>
<th>Element</th>
<th>Convention</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Publication titles</td>
<td>Title capitalization, italic</td>
<td>Procidia ilpac User’s Manual</td>
</tr>
<tr>
<td>Commands on menus and buttons</td>
<td>Title capitalization, bold</td>
<td>Log Out</td>
</tr>
<tr>
<td>Dialog box options</td>
<td>Capitalized as on screen, bold</td>
<td>Limited</td>
</tr>
<tr>
<td>Messages</td>
<td>Capitalized as on screen; enclosed in quotation marks</td>
<td>“Attempt to Read STIM Channel Failed”</td>
</tr>
<tr>
<td>Key names</td>
<td>All uppercase</td>
<td>ESC</td>
</tr>
<tr>
<td>Menu names</td>
<td>Title capitalization</td>
<td>Insert &gt; File</td>
</tr>
<tr>
<td>Toolbar button names</td>
<td>Title capitalization, bold</td>
<td>Station Status</td>
</tr>
<tr>
<td>User input</td>
<td>Lowercase unless case sensitive</td>
<td>password</td>
</tr>
<tr>
<td>Window and screen names</td>
<td>Title capitalization</td>
<td>the Administration page</td>
</tr>
</tbody>
</table>

Qualified Persons

The described equipment should be installed, configured, operated, and serviced only by qualified persons thoroughly familiar with this Operator’s Guide. A copy of this guide accompanies each product shipment. The current version of the guide, in Portable Document Format (PDF), can be downloaded from www.smpa.siemens.com.

For the purposes of this guide and product labels, a qualified person is one who is familiar with the installation, construction, and operation of the equipment, and the hazards involved.

Scope

This guide does not purport to cover all details or variations in equipment, nor to provide for every possible contingency to be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser’s purposes, the matter should be referred to one of the support groups listed in the Product Support section of this guide.

The contents of this guide shall not become part of or modify any prior or existing agreement, commitment or relationship. The sales contract contains the entire obligation of Siemens Energy & Automation, Inc. The warranty contained in the contract between the parties is the sole warranty of Siemens. Any statements continued herein do not create new warranties or modify the existing warranty.
General Warnings and Cautions

![WARNING]

This product may be installed, configured, operated and serviced only after a qualified person.

The normal and safe operation of this product is conditional upon proper transport, proper storage, installation and servicing, as well as, on careful operation and commissioning.

The product may be used only for the purposes specified in this User’s Manual.

All modifications to the product require the express approval of the manufacturer.
INTRODUCTION

Procidia™ i|server™ enables a Web browser in a Windows-based PC (client) to access and display process data in an i|pac™ controller. The PC can be a local client, as shown at right, or a remote client on your company intranet, on the Internet, or on a basic dial-up connection. An i|server circuit board is installed in a Procidia i|pac controller. Software on the i|server board consists of two major components:

- Pre-configured Web pages that appear in the client Web browser
- A Web server that sends the stored Web pages to the browser; it also accepts configuration and process data from the controller and makes that data available to the client for display in the operator-selected Web pages

About this Guide

This Operator’s Guide describes use of the i|server. It provides descriptions of the supplied i|server Web pages and it explains i|server administration, for example, assigning users and passwords and initiating i|server auto-configuration. It also has references to other publications that describe installation of the i|server board and how to setup and test an i|server installation.

This guide has five major sections.

- Introduction - An introduction to i|server, network alternatives, and this Operator’s Guide is provided. Product support guidelines and contact information are furnished.
- Installation - An overview of i|server board installation and setting of the i|server IP address is provided.
- Initial i|server Setup - Preparing i|server for use is described in this section. The person who is to be the Administrator is responsible for performing these procedures.
- Using i|server - This section presents log-in procedures and descriptions and examples of the provided Web pages. All those with user accounts can access these displays, however, making changes to process parameter values is limited to those with Administrator and User permissions.
- Administration - This section describes the Web pages associated with administration of i|server. The Version page in the Administration area is viewable by all accounts.

About i|server

i|server is auto-configuring and easy to use: launch the Web browser at a client, type the IP address of the target i|server, log in, and select the desired loop. The operator faceplates in the selected controller configuration automatically populate the pre-configured Web pages that are supplied with i|server. Many of the HMI display types provided by i|ware PC™ operator interface software are available.

The networked system can be as simple and inexpensive as a single Procidia node and a PC with an Ethernet card and browser software, as the local client HMI (Human Machine Interface). Procidia and the PC are interconnected using an Ethernet crossover cable, as shown above.

---

1 i|server is not intended as a substitute for i|ware PC operator interface software. For example, animated process graphics are not available and ramping parameters are not adjustable.
When one or more remote clients are to access the Procidia node(s), Ethernet interconnection options include:

- dial-up modems (shown below)
  
  ![Diagram of dial-up modems](image.png)

- your company intranet (shown on page 3)
- the Internet (shown on page 3)

These installations are discussed in the *Procidia i|pac User’s Manual* UMiPAC-1 or UMiPAC-2².

**CAUTION**

Before connecting an i|pac controller to a network, whether a company intranet or the Internet, an in-depth review of network security and process security must be performed. Your company’s network administrators and process management must be involved in determining security needs.

i|server security has three accounts: administrator, user, and guest. Each account has specific access permissions. See the Administration section of this guide for details.

i|server must be auto-configured when i|server is initially setup and each time the controller configuration is edited, revised, or updated. To ensure that this occurs, i|server administrator duties and controller configuration duties can be assigned to a single individual, or to a single individual for each work shift.

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² UMiPAC-1 contains installation, configuration, operation, and servicing information for most orderable items; two exceptions are i|config™ and i|ware™. This UM is shipped with Procidia system orders. The current revision is available for download from the Procidia Web site: [www.procidia.com](http://www.procidia.com).

UMiPAC-2 is a custom collated version that contains only the information appropriate to a specific order. It is available for download from the Procidia Web site at the time a quotation is requested or an order is placed.
Example of an i|server Intranet/Internet Architecture

i|server consists of advanced Web-enabling software and an i|server board that is mounted in the i|pac controller. i|server will be factory installed in an i|pac controller when it is ordered as an integral part of that controller. Controllers can be field upgraded by ordering: i|server Kit (P/N 16357-41).
Product Support

Product support can be obtained from a customer service center (i.e. Technical Support Group in North America or Technical Information Center (TIC) in Asia and Europe). Each region has a customer service center that provides direct telephone support on technical issues related to the functionality, application, and integration of all products supplied by the Process Industries Division of Siemens Energy & Automation, Inc. Regional contact information is provided on the next page. Your regional Technical Support Group or TIC is the first place you should call when seeking product support information. When calling, it is helpful to have the following information ready:

- Caller ID number, or name and company name - When someone calls for support for the first time, a personal caller number is assigned. Having the number available when calling for support will allow the representative taking the call to use the central customer database to quickly identify the caller’s location and past support needs.

- Product part number or model number and version

- If there is a problem with product operation:
  - Whether or not the problem is intermittent
  - The steps performed before the problem occurred
  - Any status message, error messages, or LED indications displayed
  - Installation environment

Customers that have a service agreement (ServiceSuite or Field Service Agreement) are granted access to the secure area of the Siemens Internet site. This area contains a variety of product support information. When logging on, you will be prompted to enter your *username* and *password*. All customers have access to the public portion of the site and to the Procidia site at [http://www.procidia.com/](http://www.procidia.com/).
Contact Information

<table>
<thead>
<tr>
<th>Region</th>
<th>Telephone</th>
<th>Fax</th>
<th>E-mail</th>
<th>Hours of Operation</th>
<th>Public Internet Site</th>
<th>Repair Service</th>
</tr>
</thead>
</table>
| NORTH AMERICA | +1 215 646 7400, extension 4993 | +1 215 283 6358          | MandCTechSupp@moore-solutions.com | 8 a.m. to 6 p.m. eastern time  
Monday – Friday (except holidays) | www.smpa.siemens.com | +1 215 646 7400 extension 4993 |
| ASIA     | +011 65 299 6051              | +011 65 299 6053        | TICGroupAP@moore-solutions.com  | 9 a.m. to 6 p.m. Singapore time  
Monday – Friday (except holidays) | www.smpa.siemens.com | +011 65 299 6051          |
| EUROPE   | +44 (0) 1935 470172           | +44 (0) 1935 470137     | TICGroupEurope@moore-solutions.com | 8:30 a.m. to 4:30 p.m. GMT/BST  
Monday – Friday (except holidays) | www.smpa.siemens.com | +44 (0) 1935 470172         |
INSTALLATION

This section briefly describes installation and testing of an i|server. References are provided to other publications that contain detailed procedures.

Installation Requirements

<table>
<thead>
<tr>
<th>Network</th>
<th>A company intranet, access to the Internet, cabling and modems for a dial-up connection (RF modems can be used), or Ethernet crossover cable for a local client</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procidia</td>
<td>B-level hardware; identified on the assembly nameplate label:</td>
</tr>
<tr>
<td></td>
<td>• Control Carrier model iPAC-CC-_3, with connector P4 (RJ45)</td>
</tr>
<tr>
<td></td>
<td>• Control Module model iPAC-CM_____B</td>
</tr>
<tr>
<td></td>
<td>Connection to the company intranet, Internet or dial-up modem</td>
</tr>
<tr>
<td>Client</td>
<td>Microsoft® Windows® 95, 98, NT or 2000 with Internet Explorer 5 (or later)</td>
</tr>
<tr>
<td></td>
<td>Ethernet network interface card for connecting the intranet, Internet, modem or crossover cable</td>
</tr>
</tbody>
</table>

i|server Board

An i|server board can be factory or field installed.

Factory Installation - The i|server board is installed in the i|pac controller at the factory when the i|server option is included as an integral part of an ordered Procidia system. The crossover cable is supplied.

Field Installation - Install the i|server board as described in the Maintenance section of Procidia i|pac User’s Manual UMlPAC-1. The crossover cable is supplied.

Whether factory or field installed, the i|server board should be tested and an IP address set. To test i|server, refer to the i|server Setup and Checkout section in UMlPAC-1. An overview is provided below in the Setting the IP Address section below.

Software

No installation is needed. The software (firmware) resides on the i|server board in RAM.

Setting the IP Address

As supplied, the i|server IP address is set to 0.0.0.0. Each i|server must be assigned a unique IP address. This address will permit a client to communicate with a specific i|server and i|pac controller. Contact your company network administrator for assistance.

i|server is furnished with a crossover cable for direct connection between the i|server and a PC. Also provided is a program CD that includes the SetIPAddress2 program. The program is used to set the IP address in i|server and to test i|server.

After launching SetIPAddress2, click the ? icon in the toolbar. The software will poll for all i|servers on a network; see the screen below. Double click on the i|server node that is to be set. A window will open where the network information can be added or changed; click the Change button when finished. As supplied, a password is not required with an i|server as the Password Mode is set to Open at the factory.

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1 The underscore “\_” is a placeholder for a variable alphanumeric character.
Important

To change the IP address of an i|server, the Password Mode must be set to Open.
INITIAL i|server SETUP

This section provides the i|server administrator with the steps that are to be completed before other personnel access
a Procidia system through i|server. Each of the Web pages mentioned below is discussed later in this guide.

1. Confirm that the following actions have been completed:
   - An i|server board has been installed in each i|pac controller and tested using the SetIPAddress2 utility.
   - A unique IP address has been set for each i|server.
   - Each Procidia and client has been connected to a network, configured, tested and are powered and operating.

2. Start the Web browser and log in to i|server as described in the next section.

3. On the Log In page, click on the Sign In button. (Note that i|server is shipped from the factory with the
   Password Mode set to Open. Open mode does not require a User Name or Password.)

4. On the Overview page, click on the Administration button in the Display Select bar.

5. On the Administration page, click on the Auto-Configure i|server menu selection.

6. Turn to the Auto-Configure i|server section of this guide. At each controller, set the rear port baud rate and
   network (station) address. Auto-configure i|server as described.

7. Click on Administration in the Display Select bar to go to the Administration page.

8. Click on the User Accounts menu selection.

9. Turn to the User Accounts section of this guide and configure the Password Mode and user access permissions.

This completes the preparatory steps.
USING i|server

To access an i|server from a local or remote client:

1. Ensure that the client is operating and is able to connect to the network or modem.
2. Ensure that the target Procidia i|pac is configured and operating and is connected to the network or modem.
3. At the client, launch the Web browser.
4. Connect to the target i|server by typing the i|server IP address in the browser’s Address text box. Press ENTER or click Go. The i|server Log In page will appear.
5. Review the Navigation Hints section that follows and then go to the Log In section.
Navigation Hints

- The TAB and SHIFT+TAB keys or the mouse can be used to move between text boxes that need a typed entry, such as those on the Log In page.
- Where a Sign In or Submit button appears, either click the button or press the ENTER key.
- Back and Forward browser buttons can be used to navigate between the Faceplate and Faceplate Detail pages and between the Administration pages.

Clicking the Back button when viewing the Station Status, Overview, Administration, or a Faceplate page will display the Log In page.

- Clicking the browser’s Refresh button will cause the message at right to appear. Click Cancel to close the message. Click Retry to close the message and return to a previous page.

- When the Limited password mode is enabled, an attempt to access a function or page for which permission has not been granted will cause i|server to display the screen shown below. Return to the previous page by clicking the Back button. Clicking on the IP address in the screen message will display the Log In page and it will be necessary to re-enter your User Name and Password.
Log In Page

The Log In page is shown below. While text boxes for your User Name and Password are provided, the Password Mode determines whether these entries are needed. The mode can be Open or Limited. To learn the log in requirements, either review your company operating procedures, contact your i|server Administrator, or read the explanation in the Administration section of this guide.

To log in, select the needed password mode and perform the described actions.

- **Open** - Click the Sign In button. No User Name or Password is needed. The Overview page appears.
- **Limited** - Type your User Name and Password. Both entries are case sensitive. Click the Sign In button. The Overview page appears.

**CAUTION**

Protect your password. Do not reveal your password to anyone except the i|server administrator who needs the password to set your user access.

If an error is made in the User Name or Password, the “You are not authorized to view this page” screen, shown on the previous page, will appear. Click the browser’s Back button or the IP address on the page and enter your User Name and Password. If you need assistance with either required entry, contact the i|server administrator.
Overview Page

The first page that opens after Log In is the Overview page. If i|server has not been auto configured, a message will prompt you to auto configure i|server before proceeding. Auto-configure is explained in the Administration section.

The Overview page lists up to 12 loops by number, tag name, and alarm status. Click on a Loop Number to view the associated faceplate display.

Below the Procidia banner is the Display Select bar with Station Status, Overview, Administration, and Log Out buttons. This bar is present on most i|server pages.

Station Status - Click this button to go directly to the station status page, which is described in the next section.

Overview - Click this button when another page is displayed to view the Overview page.

Administration - Click this button to go directly to the Administration menu page.

Log Out - When the Limited password mode is enabled (i.e. you must enter a User Name and Password to log in), always click the Log Out button when terminating an i|server session or ending a work shift. This will log you out and prevent someone else from using your session to access i|server.
Station Status Page

The Station Status page provides an overview of ilpac controller characteristics, installed hardware, and software revision numbers. The **ACKnowledge** button is highlighted in red when an alarm condition exists within the controller. All loops can be acknowledged at the same time by clicking the **ACK** button. The **OOS** button will mark all loop alarms as Out of Service.

Click the **RUN** button to put the controller in Run mode if it was left in the Hold mode during configuration.

Click the **LAST ERROR** button to show the last error that occurred in the controller. The error can be cleared by again clicking this button.

Click the **ERROR LOG** button to scroll through a list of active errors present in the controller.
Operator Faceplates
When a loop number is clicked on the Overview page, the faceplates for that loop are displayed.

Operator faceplate types and functions are defined in the FB’s and FCO’s chapter of Procidia i|pac User Manual UMiPAC-1. Buttons are provided on the faceplate where changes can be made to the loop. A pop-up will request confirmation of a change, to reduce the chance of an inadvertent change.

ODA - Operator Display for Analog Indication
The ODA faceplate shows the analog value of up to 4 inputs. An example of an ODA faceplate is the Aux Ind faceplate in the screen below.

ODS - Operator Display for Sequencer
The ODS faceplate provides operation for a loop using a sequencer. In the screen below, SQ5105 is an example of an ODS faceplate.

ODD – Operator Display for Discretes
The ODD faceplate provides indication of discrete variables. An output value can be forced by placing the point in the M (manual) mode and selecting the value to be changed. The right faceplate, Outputs, is an example of an ODD faceplate.
### ODP – Operator Display for Pushbuttons

The ODP has two momentary pushbuttons PB1 and PB2 and one sustained pushbutton PB3. A two-position status light is provided to indicate the status of a discrete value, for example, the action of a valve (open/closed) or a motor (run/stop). The Motors faceplate in the screen below is an example of an ODP faceplate.

### ODC – Operator Display for Control loops

The ODC is the operator display for a control loop. The loop A/M (auto/manual) mode can be changed as can the setpoint or valve. See the TC5017 faceplate for an example of an ODC faceplate.
Detail Screens

When the tag name of a faceplate appears on a button, clicking that button will display a detail page for the faceplate.

ODA – Operator Display for Analog Indication

The ODA detail page includes a faceplate on the right side of the display. It provides the same operator functionality as the larger faceplate on the previous page.

Additional information regarding the loop is also provided on this detail page. Details of the two alarms for each point are included in the ALARMS portion of the page. The QUICK SET section shows the range limits of up to 4 Quick Set hold blocks that can be configured within the ODA loop, as well as the hold value.
ODC – Operator Display for Control Loops

The ODC detail page includes a faceplate on the right side of the display. It provides the same operator functionality as the larger faceplate on the previous page. Additional information regarding the control loop is also provided on this page.

The SETPOINT section lists the values of the set point parameters and enables a set point ramp to be initiated.

The CONTROLLER section lists the tuning values. If the controller has been configured to automatically transfer autotune values, these values will be transferred into standard PID values after completion of a successful autotune procedure.

Details of the four alarms are included in the ALARMS section.

The QUICKSET section shows the ranges of up to two Quickset Hold blocks, if they were configured within the ODC loops. If configured, RATIO and BIAS values and the BATOT function block preset values can be viewed.
ADMINISTRATION

The menu on the Administration page lists i|server administrative functions.

Many of the listed functions can be protected from unauthorized access by enabling a Password Mode of Limited and assigning a permission level. There are two Password Modes and three permission levels. Password Modes are defined below and the permission levels in the table on the next page.

**Open** – Log in without a User Name or Password is allowed. Access to all functions and pages is allowed. This mode is not recommended for an operating Procidia system.

**Limited** – This mode is recommended for an operating Procidia system. Access requires log in with a User Name and Password. There are three permission levels assignable by the i|server administrator: Guest, User, and Administrator. Access limits for each permission are defined in the following table.

The User Accounts section describes selecting a Password Mode and setting permissions.
### i|server Permissions, Password Mode is Limited

<table>
<thead>
<tr>
<th>Actions</th>
<th>Permissions</th>
<th>Guest</th>
<th>User</th>
<th>Administrator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log in and log out</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>View all operator displays and the Version page within Administration</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Make changes to process and controller parameters in controller operating pages</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Force the i</td>
<td>server Status LED to blink</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>View the Date and Time page</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initiate Auto-Configure</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Perform network configuration</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Create/Edit User Accounts (e.g. enter/edit User Names and Passwords, change permissions, set Password Mode)</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Reboot i</td>
<td>server</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

1 FTP is a fourth permission that is reserved for use by the manufacturer.
Auto-Configure i|server

The Administrator should auto-configure i|server when the installation is:

- A new i|server installation that has not been previously auto-configured. The controller’s default baud rate and network address must also be changed to i|server compatible values. See “Auto-Configure - controller and i|server baud rate, address, and database” below.

- Not a new i|server installation but a new or edited configuration has been loaded into the target controller. See “Auto-Configure - i|server configuration database only” below.

Allow up to several minutes per loop for auto-configure to process a controller configuration. Auto-Configuration Progress pages will appear to mark each phase of the process. For each loop there are five phases: startup, reading basic configuration, reading loop strings, creating startup files, and saving controller configuration.

CAUTION

Always auto-configure i|server if you are unsure about whether the controller configuration has changed. Auto-configure updates static loop data that is not updated while i|server is operating. An operating i|server refreshes dynamic loop data every 15 seconds.

Auto-Configure - i|server configuration database only

1. At a client, launch the Web browser and log in to i|server.

Important

Error message “Attempt to Read STIM Channel Failed” indicates that i|server cannot communicate with the controller because the baud rate or address setting is not compatible. Go to the “Auto-Configure - controller and i|server baud rate, address, and database” section below.

2. Click on the Administration button in the Display Select bar.

3. On the Administration page, click on Auto-Configure i|server.

4. On the Auto-Configure i|server page, click on the Start Configuration button.

Auto-Configure - controller and i|server baud rate, address, and database

Setting communication parameters and auto-configuring are performed here. For i|server to communicate with the controller, the baud rate and the address in the controller and in i|server must match. Default values in the controller’s STATN-Station Parameters function block and the recommended i|server settings are shown in the table below. For details about the function block, refer to STATN - Station Parameters in the FB’s and FCO’s chapter of the Procidia i|pac User’s Manual UMiPAC-1.

<table>
<thead>
<tr>
<th>Controller STATN Function Block</th>
<th>Baud Rate (Rear Port)</th>
<th>Network Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>9600</td>
<td>0</td>
</tr>
<tr>
<td>For i</td>
<td>server Compatibility</td>
<td>38400</td>
</tr>
</tbody>
</table>
To set the baud rate and address in the controller and in i|server and to auto-configure i|server:

1. Using the Procidia Local Faceplate or the i|config™ Graphical Configuration Utility, set the ilpac controller rear port baud rate and network (station) address to the “For i|server Compatibility” values in the above table.

2. At any connected client, launch the Web browser and log in to i|server.

3. Click on the Administration button in the Display Select bar.

4. On the Administration page, click on Auto-Configure i|server.

5. On the Auto-Configure i|server page, click on the Option button adjacent to 38400.

6. Highlight the Device Address and type a 1.

7. Click the Update Parameters button to update the parameters stored in the i|server board. This will also initiate Auto-Configure.

Once performed, the above steps should not be repeated unless:

- the baud rate or network address is changed at the controller
- a stored configuration that contains the default STATN function block settings (baud rate and network address) is loaded into the controller

**Note**

Stored controller configurations should be edited to include the settings recommended below.
Network Configuration

The Network Configuration page provides information on the IP address of the i|server. Any changes to the IP addressing should be made using the SetIPAddress2 utility described earlier. For details, refer to the i|server Setup and Checkout chapter in the *Procidia i|pac User’s Manual UMiPAC-1*.

**Note**

Enable DHCP should always be set to No. If set to Yes, the client will not be able to find the Web server on the i|server board.
User Accounts

The User Accounts page lists the names and permissions of those granted access to i|server. This page also has links to the following pages. Each page is discussed in this guide.

- List Users (this page)
- Change Password Mode
- Add User
- Delete User
- Change Password
- Change Permission Bits (levels)
Change Password Mode

The Administrator can select either of two available password modes: Open and Limited. The two modes are defined in the Administration section.

To change the selection, click the pull-down arrow, select Open or Limited, and click Submit.

**Important**

Limited is recommended for an operating Procidia system. The Closed mode is not supported, although it appears in the pull-down menu.

The password mode must be set to Open to change the IP address of an i|server.
Add User
Administrators use this page to add an individual’s User Name and Password and to assign an access permission of Administrator, User, or Guest to that person. Permissions are defined in the table in the Administration section of this guide.

To add a new user:
1. Click in or TAB to the User Name text box. Type the new individual’s User Name. A User Name is case sensitive.
2. Press the TAB key and type the new user’s Password. A Password must be between 8 and 20 characters and is case sensitive.
3. Press the TAB key to move to the Permission Bits text box. Press the DOWN-ARROW key on your keyboard (or click the pull-down arrow) and select the new user’s permission level: Administrator, User, or Guest. More than one Administrator can be configured.
4. Click Submit to save the entries. A successful addition will be confirmed.
5. Repeat the steps to add another new user.
Delete User

By entering the correct user name and clicking the Submit button, a user can be deleted from i|server.

To delete a user:

1. Type the exact name (as configured in Add User) of the user to be deleted.
2. Press ENTER or click Submit. A successful deletion will be confirmed.
Change Password

A current user’s password can be changed by typing the user’s User Name and current Password, typing the new password, and pressing ENTER or clicking the Submit button. A frequently employed security tool is the periodic changing of all user passwords.

A list of all entered passwords cannot be displayed. Consequently, if a user forgets their password and the i|server administrator has not recorded that password elsewhere (in a secure location), it will be necessary to delete the user and re-enter that user on the Add User page.

To change a user’s password:
1. Type the exact name (as configured in Add User) of the user whose password is to be changed.
2. Type the old password (as configured in Add User).
3. Carefully type the new password.
4. Press ENTER or click Submit. A successful change will be confirmed.
Change Permission Levels

Permission levels are defined in the table in the Administration section of this guide.

To change a permission:

1. Press the TAB key to move the cursor to the User Name text box. Type the exact name (as configured in Add User).
2. Press the TAB key and type that user’s password (as configured in Add User).
3. Press the TAB key and press the DOWN-ARROW key on the keyboard or click the down-arrow in the page. Select the new permission level.

   **Important**

   Administrator, User, and Guest selections are supported. Other selections in the pull-down list are not supported.

4. Press ENTER or click **Submit** to save the selection. A successful change will be confirmed.
Date & Time

The Node Time on this page can be set to one of the following:

- A manually entered date and time.
- The UTC (GMT) date and time from the client PC.

The two fields beneath Date & Time show the date and time at the i|server node.

- **Node Time** - This field shows when the page was drawn. When the page is redrawn, the time will update. Note that this is UTC.
- **Raw Clock** - The raw contents of the clock are shown in this field. It shows the value you would receive for a timestamp if you took a measurement just as the page was redrawn. Its meaning is seconds since Jan 00:00:00 1970.

The display of date and time in the above fields can be set in either of two ways.

- **Set to new time** - This text box shows the current time in YYYYMMDDHHMMSS format as supplied by the i|server node. To change the time to any other value, edit the value in the text box. The field must be in this format: a 4-digit year, then 2-digit month, day, hour, minute, and second, with no punctuation. Clicking the adjacent **Set** button will cause the date and time to appear in the Node Time field.

- **Set to workstation (client) time** - This text box contains the client’s time and date and it continuously updates. Click the adjacent **Set** button to set i|server time to the client’s clock. The time viewed in the text box is the local time as set by double clicking on the PC clock in the task bar and setting the time and time zone. The actual time sent to i|server will be adjusted to UTC (GMT).
Version Information

Version information provides technical details about the Web server controller. This information may be needed when requesting technical information from a Siemens customer service center (see Product Support in the Introduction section).

Blink LED

Clicking on the Blink Status LED menu selection on the Administration page will cause the Status LED on the i|server board to blink rapidly for about 5 seconds to verify communication with the correct i|server board.
Reboot

The i|server administrator can reboot an i|server from the Web browser without rebooting the i|pac controller.

1. In the Web browser Address text box, type `bin/node/reboot` after the IP address. See the screen below.
2. Click Go or press ENTER. This will send a command to the i|server to do a reboot operation.
ABBREVIATIONS AND ACRONYMS

The following terms appear either in text or in a Web page.

**CD** - CD-ROM; Compact Disk-Read Only Memory

**Client** - On a local area network or the Internet, a Windows-based personal computer that accesses shared network resources provided by a server (i|server in this guide).

**DHCP** - Dynamic Host Configuration Protocol

**IP** - Internet Protocol

**i|server administrator** - The individual with on-site responsibility for auto-configuring i|server and entering and maintaining user accounts.

**i|server board** - The circuit board installed in Procidia i|pac that contains the NCAP and STIM components, pre-configured Web pages, and Ethernet interface.

**NCAP** - Network Capable Application Processor

**PC** - Personal Computer

**STIM** - Smart Transducer Interface Module

**RAM** – Random Access Memory

**RTC/CB** – Real Time Clock/Configuration Backup board

**TCP/IP** - Transmission Control Protocol/Internet Protocol

**URL** - Universal Resource Locator

**UTC** - Universal Time Coordinate or coordinated universal time