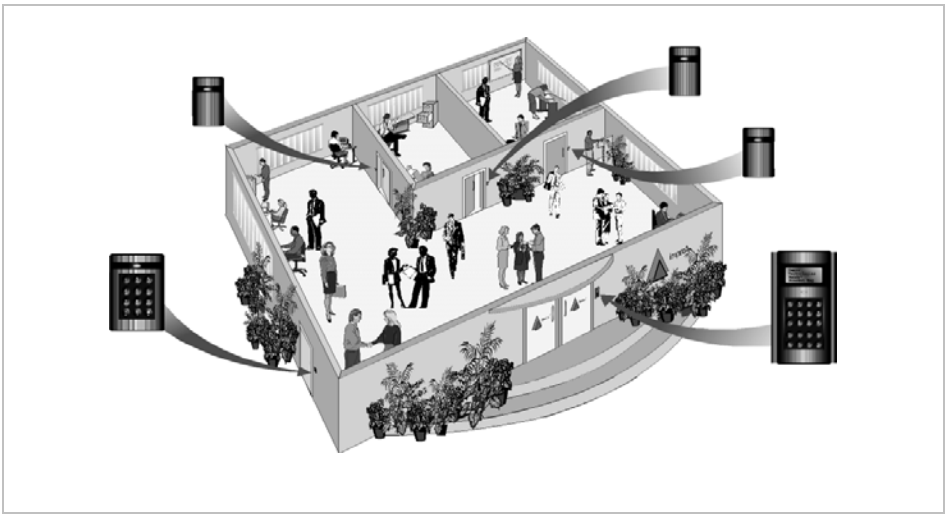

ImproNet

IXP300/400
ZITON FIRE ALARM SERVER
Version 3.22

SOFTWARE USER MANUAL

Manual reference number : IXP325-0-0-GB-00 Issue 1 March 2006

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READ THIS BEFORE OPENING THE ENVELOPE CONTAINING THE SOFTWARE

IMPRO ZITON SERVER SOFTWARE

INSTALLATION AND CONFIGURATION

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DIAGRAMS

TABLES

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ZITON SERVER SOFTWARE

SCOPE OF THIS MANUAL

This document provides information about the integration of a Fire Alarm System, based on one of two types of Ziton Alarm Panel, with an ImproNet System.

The purpose of this integration is to allow alarm indications from one or more Ziton Alarm Panels to be displayed and acknowledged via the ImproNet Graphics Runtime software. The alarms provided for in ImproNet are Fire Alarms.

The two Ziton panels concerned are the ZP3 and ZP5 Panels. Such an alarm system would typically include one or more Ziton Panels and associated alarm sensors.

When using the ZP5 Panel, it must be equipped with a ZP5-CB232 communications board to provide RS232 communications for connection to the ImproNet software.

The electrical connections required are described in this document.

This document does not provide any detailed information on programming the Ziton panel. That information is part of the Ziton documentation.

ASSOCIATED MANUALS

Further information can be found in :

(a) Ziton ZP3 Fire Control Panel Manual.

(b) Ziton ZP5 Fire Control Panel Manual.

(c) ImproNet Graphics Designer User Manual IXP331-0-0-GB-XX.

(d) ImproNet Graphics Runtime User Manual IXP332-0-0-GB-XX.

INTRODUCTION

The Impro Ziton Server permits alarms from a Ziton Panel to be displayed and acknowledged from the graphics Floor Plan in an ImproNet System.

The Impro Ziton Server Software allows for the use of the Ziton ZP3 or ZP5 Panel in conjunction with the Impro Graphics Runtime package.

This Software is provided as part of the ImproNet System Software Suite from ImproNet V7.08 onwards.

CAUTION

Do not attempt to use the Impro Ziton Server software when proprietary Ziton software is running.

GENERAL INFORMATION

DONGLES / LICENCING

The Ziton Server does not need a dongle to run. However, each Graphics Runtime package needs to be unlocked via the ProxMate (or similar unit) to operate with the Ziton software.

ZITON SYSTEM TERMINOLOGY

It is essential that you know the Ziton terminology listed here when integrating Ziton Panels with an ImproNet System.

NOTE : *The terms Panel, Loop, Super-Zone and Zone used in this document have meanings specific to the Ziton System, and are not related in any way to the same terms as used in ImproNet.*

Panels, Loops and Zones

Each Ziton Alarm System can be divided into **Zones** and **Super-Zones**. Each Super-Zone can contain several Zones (see Figure 1).

The Ziton Server is designed to manage Fire Alarms from the Ziton ZP3 or ZP5 Alram Control Panels.

Several **sensors** can be used in each Zone, and each sensor is identified individually by the system, so that the location of a fire can be accurately identified.

A **Loop** is a serial connection (to a Ziton panel) that includes one or more sensors (see Figure 1).

See next page

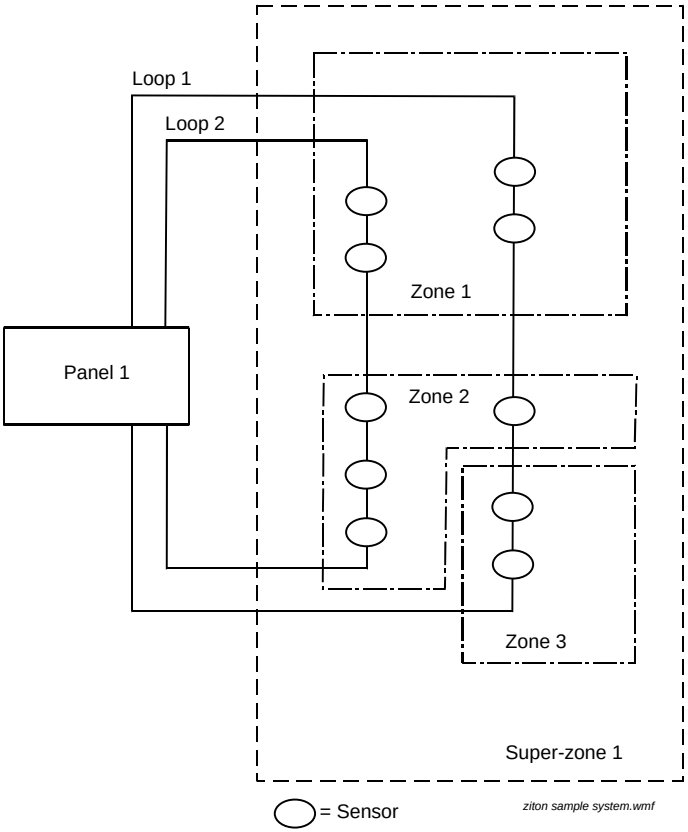

Figure 1 : Ziton Alarm Panels and Zones - concept

Typically, a Zone could be a department, and a Super-Zone the building containing that department.

Protocols

Two protocols can be used within the Ziton Alarm System. One is used when only one Ziton Panel is fitted, and the other for multi-panel systems where more than one panel is connected to a master panel.

[a] For single panel systems:

Protocol: 07-ZCP2 (Single).

Setup: 57600/7/e/1.

This indicates settings of 57600 baud, **7 data bits**, even parity, 1 stop bit.

[b] For multi-panel systems:

Protocol ZCP2 (Multi) is similar, and is intended to be used on multi-panel systems where more than one panel is connected to a master panel.

PRELIMINARY REQUIREMENTS

The Ziton alarm system must be fully operational as a stand-alone system before integrating it with the ImproNet System.

The following items must have been set up in the Ziton Panel Software before configuring the ImproNet software:

Sensor Names

The names and locations of the Sensors must be known.

SERVER DESCRIPTION

GENERAL

ImproNet System Software, from Version 7.08 onwards, includes a Ziton Server module. This software allows alarm signals received from a Ziton ZP3 or ZP5 Panel, or group of panels, to be displayed on the ImproNet System Floor Plan(s) by the ImproNet Graphics Runtime software.

The Ziton Server software communicates with the ImproNet Graphics Runtime package.

The related ImproNet software consists of a Ziton Server, which can communicate with a group of Ziton Fire Control Panels via an RS232 link. One or more Impro Graphics Runtime packages can then connect to the Ziton Server in order to display alarms generated in the Ziton system.

These two Impro software programs can run on any machine on the network provided these have access to the ImproNet Database.

ELECTRICAL CONNECTIONS

The electrical connections between each Ziton Panel (or group of panels) and the ImproNet System consist simply of an RS232 link from the main Ziton Panel to a PC that has access to the ImproNet Database.

The Ziton Server allows for the selection of a COM port and baud rate for this connection.

Hardware Block Diagram

The connections between a Ziton Panel and an ImproNet System are shown in block diagram form in Figure 4. The only connection required is an RS 232 link.

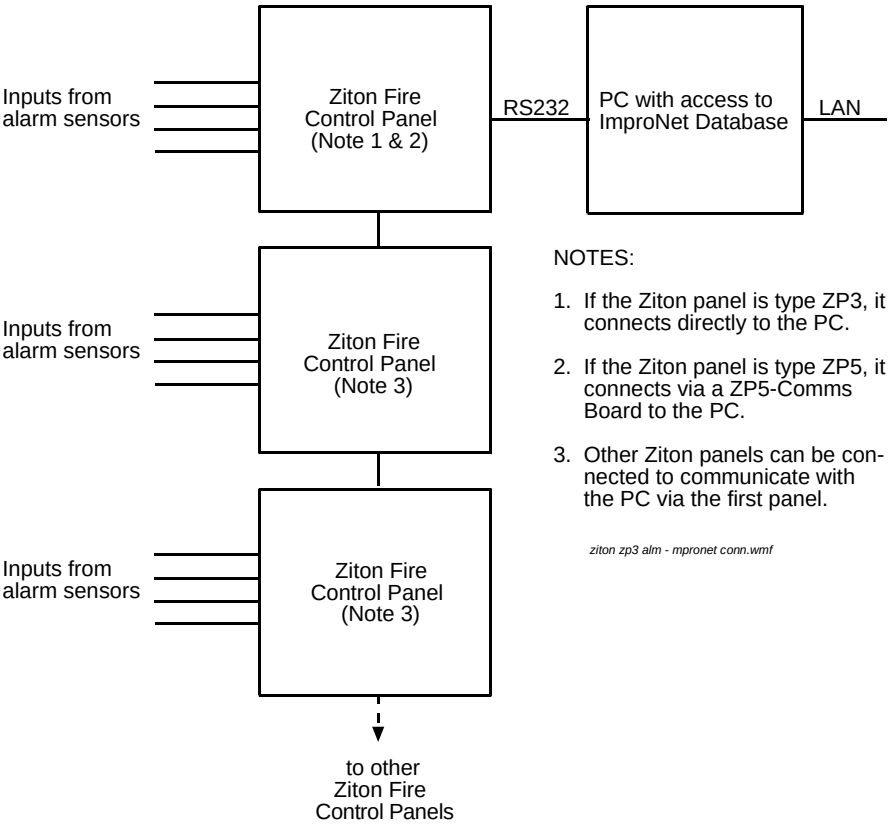

Figure 2 : Ziton / ImproNet interface - block diagram

RS232 Connection from a Ziton ZP3 Fire Control Panel to a PC

This RS232 connection is made directly from ZP3 Panel to the PC using a shielded multi-core cable (refer to Figure 3).

This cable requires a 9-way D-type female connector at the ZP3 end, and a 9-way or 25-way D-type female connector at the PC end. The cable is used to link the 9-way D-type connector on the Ziton ZP3 Panel to a PC RS232 Comms port.

If necessary, this link can be extended to a maximum of 10 m (10.94 yds).

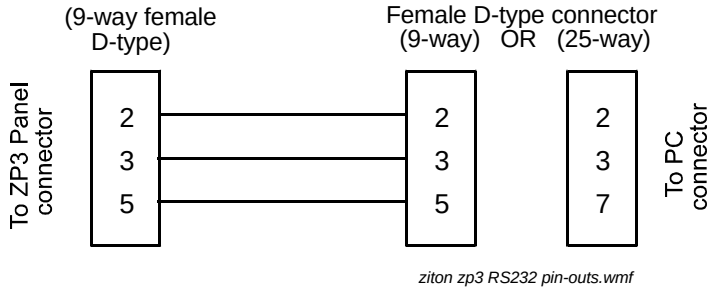

Figure 3 : Ziton ZP3 RS232 cable connector pin-outs

RS232 Connection from a Ziton ZP5 Fire Control Panel to a PC

To connect a ZP5 Fire Control Panel to the PC, an RS232 shielded cable with a 9-way female D-type connector at one end and a 9-way (or 25-way) female D-type connector at the other must be used (see Figure 4).

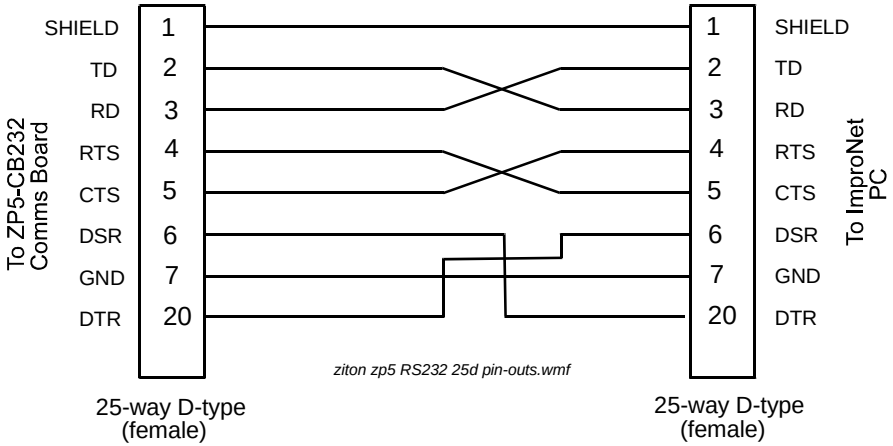

Figure 4 : Ziton ZP5 - RS232 cable 25-pin to 25-pin D-type connector pin-outs

See next page

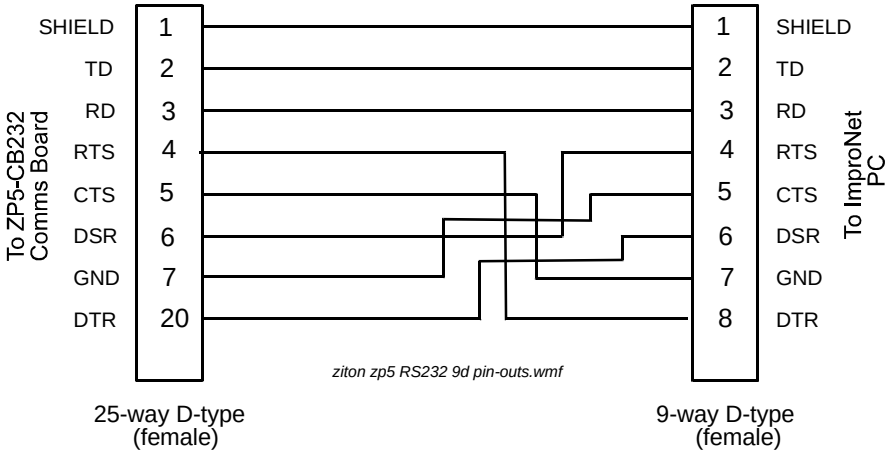

Figure 5 : Ziton ZP5 - RS232 cable 25-pin to 9-pin D-type connector pin-outs

ZITON FIRE ALARM PANEL PROGRAMMING

Certain configuration actions need to be made via the Ziton keypad panel to allow the software to communicate correctly.

Detailed programming information is included in the Ziton ZP3 and ZP5 Fire Control Panel Manuals.

You may need to ask your Ziton installer to program the Panel/s.

CONFIGURATION OF THE ZITON SERVER SOFTWARE

Ziton Server Software Configuration

To configure the Ziton Server, proceed as follows:

[1] Start the Ziton Server from <install dir>/bin/Ziton.exe.

[2] The Ziton Server dialog shown in Figure 7 will be displayed.

See next page

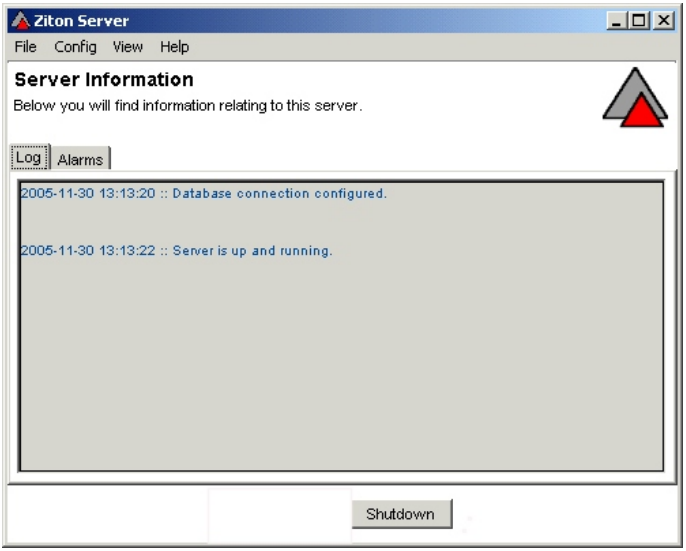

Figure 6 : Ziton Server dialog – General Tab selected

The Ziton Server Menus

The Ziton Server Main Menu Bar includes the following options :

MENU ITEM	OPTION	OPERATIONS/COMMENTS
File	Exit	Exit Ziton Server.
Config	Ports	Select RS232 Comm Port from COM 1 to 8.
	Baud	Select required baud rate.
View	Panels	Permits the configuration of Panels and Sensors.
Help	About	This dialog provides release date and version information, and the options listed below.
	INF	Provides property and value information about software installed.
	GC	Used to release unused memory.

Table 1 : Ziton Server main menu options

CONFIGURATION PROCEDURE

To configure the Ziton Server in a new application, use the procedure below.

Comms Port Configuration

[1] Select the **Config** option from the Ziton Server main menu.

[2] Select the **Ports** option. This permits the selection of a Comms port from COM1 to COM 8.

[3] Select the required Port, and click OK.

[4] The default Port is COM1.

Baud Rate Configuration

[1] Select the **Config** option from the Ziton Server main menu.

[2] Select the **Baud** option. This permits the selection of a baud rate from these options : 9 600, 19 200, 38 400, and 57 600. The default baud rate is 57 600.

[3] Select the required baud rate, and click OK.

Panel Configuration

To configure Fire Panels, select **View**, and then **Panel**. The **Panel Setup** dialog shown in Figure 7 will be displayed.

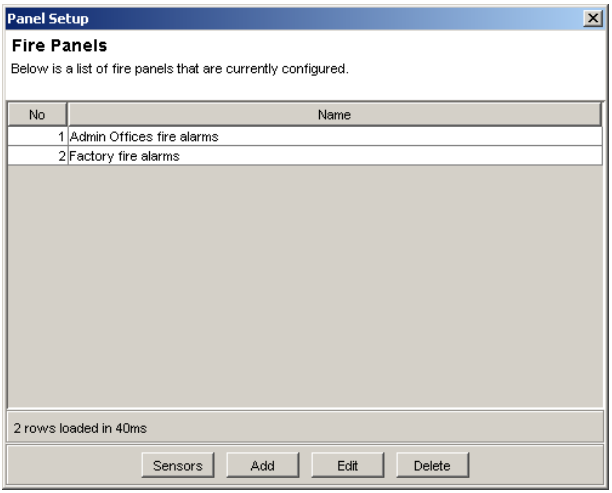

Figure 7 : Panel Setup dialog

The **Panel Setup** dialog displays a list of the fire panels that are currently configured.

The operation of the **Add**, **Edit**, and **Delete** buttons is described next, followed by the **Sensors** button.

Adding a new Panel

[1] To add a new Fire Panel, click Add. The Add a new fire panel dialog shown in Figure 8 will be displayed.

Figure 8 : Add a new fire panel dialog

[2] Select the required **Panel No** from the selection box.

[3] Type in the **Name** of the Panel in the box provided.

[4] Select **Save** or **Cancel** as required.

Edit Panel data

[1] To edit data for a Panel, highlight the appropriate line and click **Edit**.

[2] The **Editing fire panel** dialog shown in Figure 9 will be displayed.

[3] Change the **Panel No** if required, from the selection box.

[4] Change the Panel **Name** if required by highlighting the existing text and entering the new text.

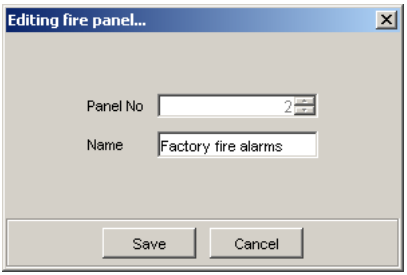

Figure 9 : Editing fire panel dialog

[5] Click **Save** or **Cancel** as required.

Delete Panel data

[1] To delete Panel data, select the line required in the **Panel Setup** dialog.

[2] Click **Delete**. The dialog shown in Figure 10 will be displayed.

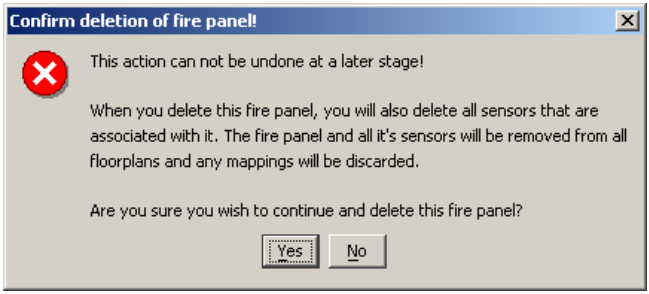

Figure 10 : Panel deletion confirmation dialog

Sensors

To display a list of sensors connected to a Panel :

[1] Highlight the Panel data by selecting a panel in the Panel Setup dialog (for example, Panel 1).

[2] Click Sensors. A Sensors on Panel 1 dialog similar to that shown in Figure 11 will be displayed.

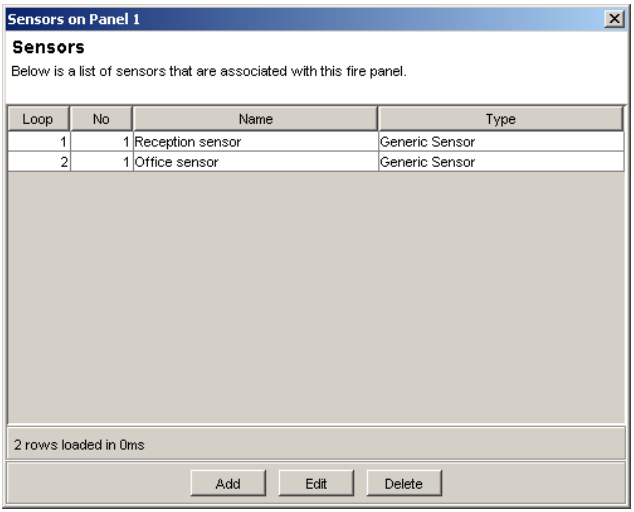

Figure 11 : Sensors on Panel 1 dialog

Adding a new Sensor

[1] To add a Sensor, click **Add**. The **Add new sensor** dialog shown in Figure 12 will be displayed.

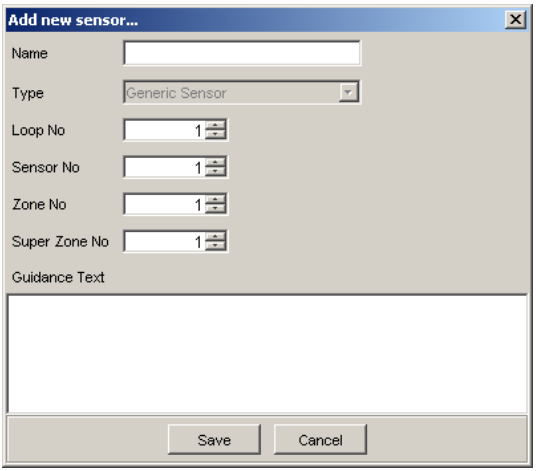

Figure 12 : Add new sensor dialog

[2] Type the **Sensor Name** in the box provided.

[3] Select a **Sensor Type** from the drop-down menu.

[4] Select the required **Loop**, **Sensor**, **Zone** and **Super Zone** numbers.

[5] Type in **Guidance Text** (if required), in the box provided. (This text will appear in the Graphics Runtime when this alarm occurs).

[6] Click **Save** or **Cancel** as required.

Help Menu

[1] Select the **Help** option from the Main Menu.

[2] Select **About**. The **About Ziton Server** dialog shown in Figure 13 will be displayed.

Figure 13 : Help Menu Ziton Server dialog

[3] Option **INF** provides data about the installed software (an example is given in Figure 14).

[4] Option **GC** frees unused memory.

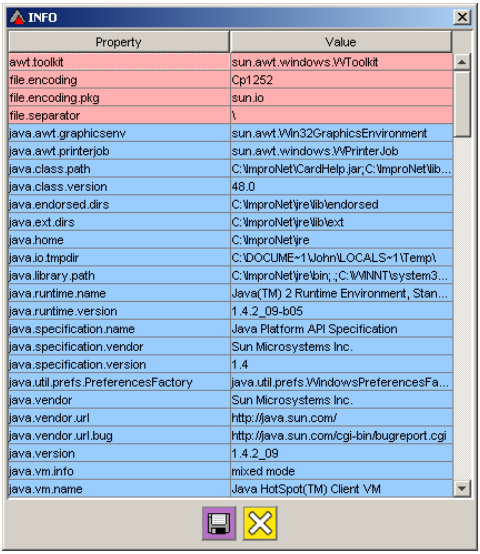

Figure 14 : Help Info dialog

USE OF THE ZITON KEYPAD

The Ziton Keypad is used to program the Ziton Panel and to manage the alarm system. Further details are provided in the Ziton manuals.

CONFIGURATION OF THE GRAPHICS SOFTWARE

Graphics Runtime Software Configuration

The configuration and acknowledgement of alarms from the Ziton equipment in the Graphics Runtime software is described in the Graphics Runtime Software User Manual.

Graphics Designer Software Configuration

The configuration of Ziton alarm icons in the Graphics Designer software is described in the Graphics Designer Software User Manual.

ALARM INDICATIONS & ACKNOWLEDGEMENT

[1] To view Alarm Indications, click the **Alarms** tab in the **Server Information** dialog. **Alarms** information similar to that shown in Figure 15 will be displayed.

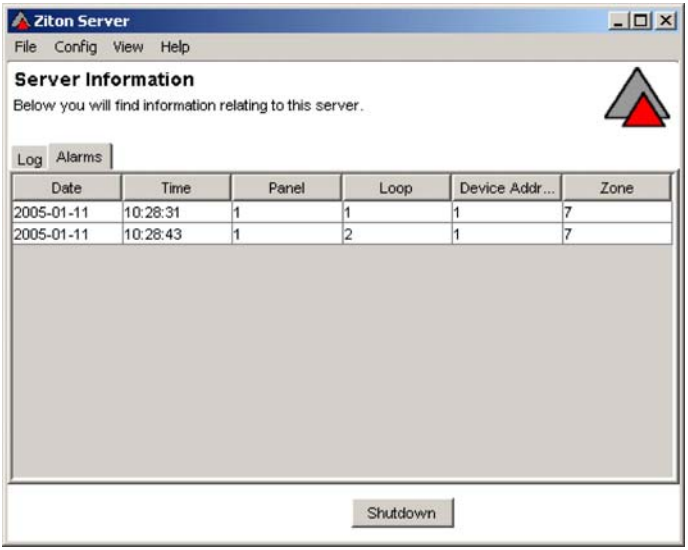

Figure 15 : Alarms tab information

[2] The Alarms tab displays details of each alarm condition received from the Ziton system.

[3] To acknowledge an alarm, select the appropriate row in this screen. The row will now be highlighted.

[4] Double-click on the highlighted row. A box with the word Acknowledge will be displayed next to the highlighted row; select this box to acknowledge the Alarm.

[5] If all Alarms are acknowledged, the associated Ziton Panel is silenced by the Ziton Server Software.

END

USER'S NOTES

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USER'S NOTES

USER'S NOTES

APPLICABILITY OF THIS MANUAL

Design changes to the system may be made which do not affect this manual. For this reason the software and firmware versions quoted here may differ from those in the system. When a change occurs which affects this manual, the manual issue number will change and the software and/or firmware version quoted here will change appropriately. Until that occurs these versions, and any subsequent versions, will be covered by this issue of the manual.

The last two digits of the standard Impro stock code indicate the issue status of the item concerned. This manual is applicable to the Impro Ziton Server Software Module **Version 1.00** onwards. The next issue of this manual will determine the final software version to which this issue is applicable.

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