

Documentation

Jeron Spectrum RTU Guide Version 3.x

OSSI

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Intelli-Site

Security Management Software Jeron Spectrum RTU Guide

PC Software RTU Interface Guide
For Windows 7 SP1, 2008 R2 SP1, XP SP3 & 2003 SP2

Version 3.x
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Section 1 – Introduction

This section describes the following:

- Overview
- Technical Support Assistance

Overview

The Jeron Spectrum RTU (Receiver/Transmitter Unit) is the Intelli-Site software representation of a Jeron Spectrum Intercom and Public Address (PA) system. For purposes of this document, the term RTU is synonymous with a Jeron Spectrum system.

The Jeron Spectrum RTU is a General Protocol RTU that provides for user configuration of all aspects of the Jeron Spectrum network, including:

- System Status – On/Off-Line
- System Settings – Configuration of the Jeron Spectrum “parent” node.
- Communications Settings - In conjunction with Driver Services.
- Substation Configuration – The ability to add substations (in groups of up to 16 units) in order to monitor call-ins (from the Substations) and connection status.
- Exchange Configuration – Multiple exchanges – each equipped with multiple Master Stations – can be configured for control and monitoring of:
 - Paging Zone Connection
 - Substation Connection
 - Master Station Status
 - Master Station Front-Panel Control

Technical Support Assistance

OSSI Headquarters

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Technical Support


Technical support is available via Telephone, Fax or Email. Contact OSSI Technical Support 8:00 AM to 5:00 PM Central Standard time. If calling after hours, please leave a detailed voice mail message, and someone will return your call as soon as possible.

E-Mail: support@ossi-usa.com

Fax: 262-522-1872 (Attention Technical Support)

Local: 262-522-1870

When calling, please be at the computer prepared to provide the following information:

- Product version number, found by selecting the **About**  button from the Intelli-Site Menu Application Bar.
- Product serial number used for registration.
- The type of computer being used including, operating system, processor type, speed, amount of memory, type of display, etc.
- Exact wording of any messages that appear on the screen.
- What was occurring when the problem was detected?
- What steps have been taken to reproduce the problem?

Section 2 – Jeron Spectrum RTU Configuration

This section describes the following Design Mode RTU activities in Intelli-Site.

- Adding a Jeron Spectrum RTU to the Intelli-Site tree
- General Protocol RTU Configuration

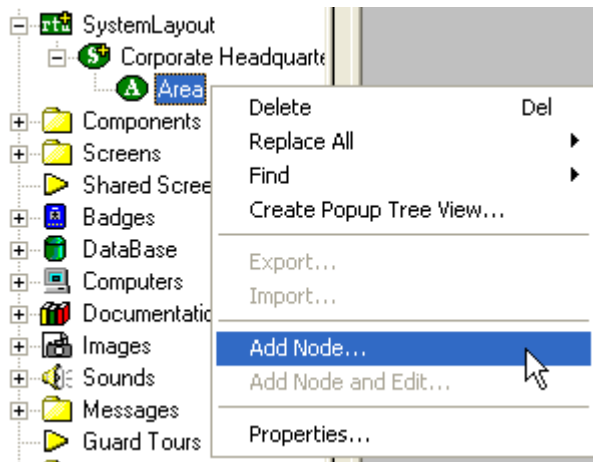
Adding a Jeron Spectrum RTU to the Intelli-Site Tree



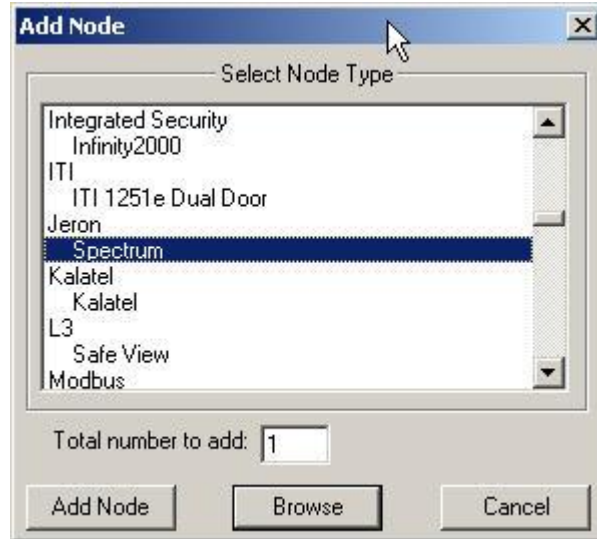
The following section will describe how to add one or more Jeron Spectrum RTU nodes to the tree. All procedures described in this section are accomplished in Design Mode.

Add an RTU – Procedure

1. Expand the System Layout Node and Right-Click on an Area. Select **Add Node...** from the Shortcut Menu as shown below:



- As mentioned previously, the Jeron Spectrum RTU is of the Generic Protocol type. The default RTU includes 8 substations/extensions. More can be added. Note: The total number of Jeron Spectrum RTUs that may be added must not exceed 65535 for a given domain.

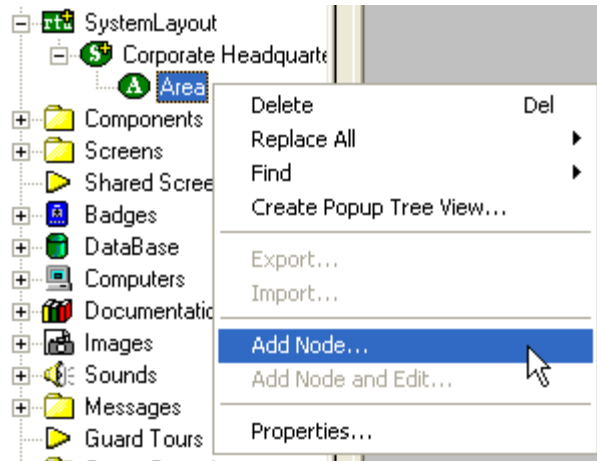


- The RTU(s) will be added to the tree and the system level Text-To-Speech message "**Node Added**" will sound.

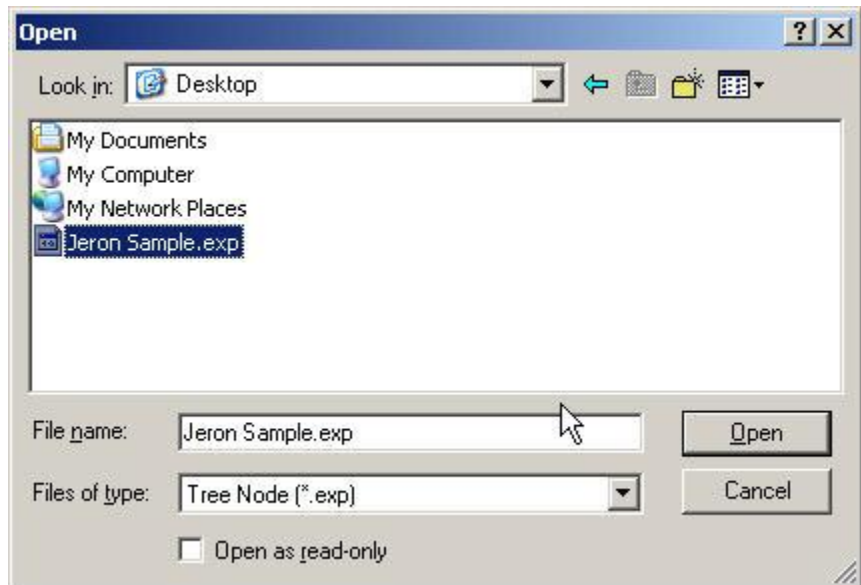


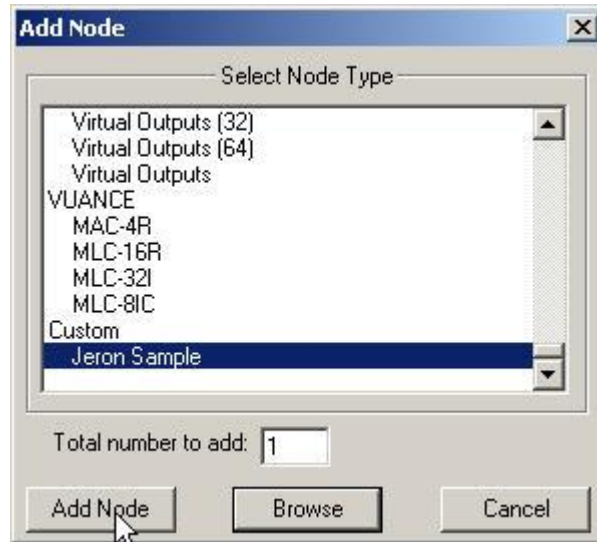
Import an RTU – Procedure

- Expand the System Layout Node and Right-Click on an Area. Select **Add Node...** from the Shortcut Menu as shown below:



2. Select the **Browse** button on the **Add Node** dialog: A browse window will open. Browse to the appropriate location then select the RTU .exp file you wish to import and select the **Open** button. A new type (**Custom**) will be automatically added to the **Add Node** dialog and the imported .exp will be listed below the **Custom** type.





3. Select the imported RTU then enter the number of Jeron Spectrum RTUs you wish to add to the tree in the **Total number to add:** edit box. You may add multiple RTUs to an area.
4. The RTU(s) will be added to the tree and the system level Text-To-Speech message "**Node Added**" will sound.



Jeron Spectrum RTU Settings

The following section describes configuration of the Jeron Spectrum RTU.

The Jeron Spectrum RTU consists of a parent (the basic system node), the System Online I/O point and several stations.

RTU Node (Parent Node)

The parent (Jeron Spectrum) node is configured by **Right-Clicking** on the RTU and selecting **Properties...**

General Protocol Node Settings Tab

The screenshot shows a dialog box titled "Jeron - Area Jeron" with two tabs: "General Protocol Node Settings" (selected) and "Notes/Comments". The "General Protocol Node Settings" tab contains the following fields:

- Name:** Text box containing "Jeron".
- ID:** Text box containing "626".
- Access Level:** Dropdown menu set to "Level 1".
- Domain:** Text box containing "29".
- Node Type:** Dropdown menu set to "General".
- Driver:** Dropdown menu set to "Jeron".
- Address:** Empty text box.
- Protocol:** Empty text box.
- RTU Setup:** A sub-section containing:
 - Virtual
 - Virtual Point: Dropdown menu set to "*None*"
 - Retain

At the bottom right of the dialog are "Ok" and "Cancel" buttons. A mouse cursor is visible over the "Virtual Point" dropdown.

- 1. Name:** - enter a descriptive name for the system here. Example: Primary PA System.
- 2. Access Level:** – this is the Access Level of the node object (RTU).
- 3. Domain:** – the domain identifies the communications chain used for the Jeron Spectrum system, i.e., a communications (COM) port or IP address and is tied to the domain setting on the Jeron Spectrum driver in Driver Services.exe.

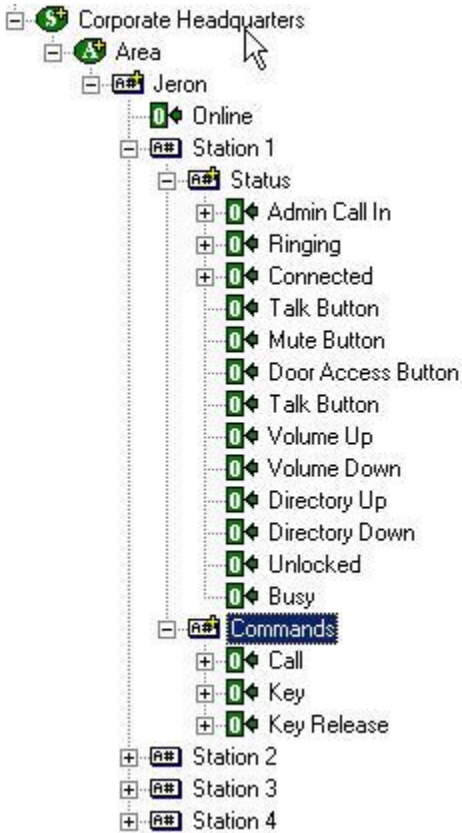
Note: The Domain of an Ethernet-based (TCP/IP), or RS-232-based Jeron Spectrum will be unique for each Jeron Spectrum system.

- 4. Node Type:** – This field will be “grayed-out” and should not change.
- 5. Driver:** – This combo-box field must be set to Jeron Spectrum.
- 6. Address:** – Remains blank.
- 7. Protocol:** – Remains blank for this node.
- 8. RTU Setup:** - this area is used to configure the virtual state characteristics of the node.
 - a. Virtual Point:** - Check this box to “virtualize” the Jeron Spectrum system. When an RTU has been virtualized all server-to-driver services communications stop and will not be reinitiated until the RTU has been un-virtualized. Drag-and-drop a virtual I/O point into the drop field. This I/O point will be set high whenever the Jeron Spectrum system is virtualized.
 - b. Retain:** - Reserved for future use and has no function at this time.

Notes/Comments Tab

This tab allows the programmer to enter descriptive text regarding the RTU (programmer’s notes). The programmer may enter any number of descriptive text lines (use CTRL+M to enter a new line).

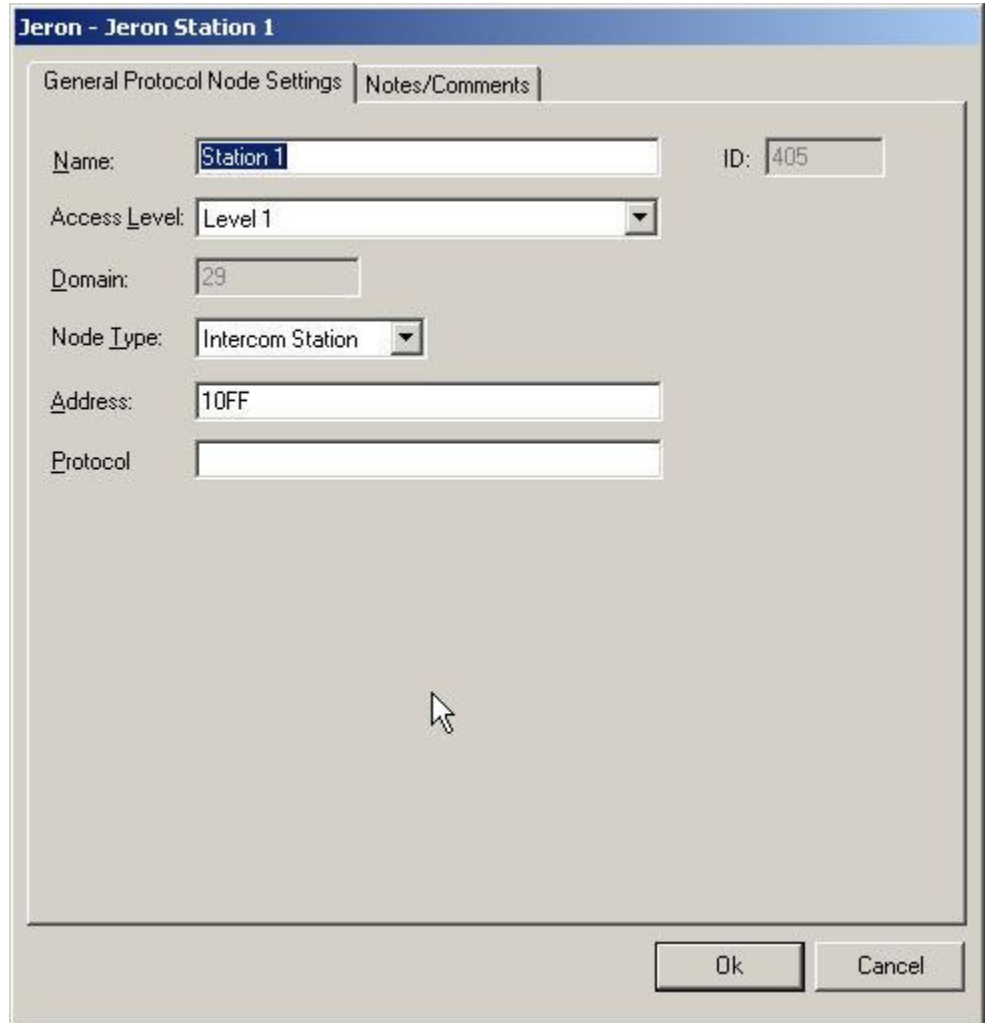
The text entered on this tab may be printed in a special report: **Project Notes Report**. This is a useful tool for generating programmers’ comments as a part of the “as-built” system documentation.



Stations

The Station “parent” node is configured by expanding the **Jeron Spectrum** folder then **Right-Clicking** on the desired Exchange and selecting **Properties...**

General Protocol Node Settings Tab



1. **Name:** - enter a descriptive name for the system here.
2. **Access Level:** – this is the Access Level of the node object (RTU).
3. **Domain:** – This entry is derived from the Jeron Spectrum System Node and is grayed-out (cannot be changed).

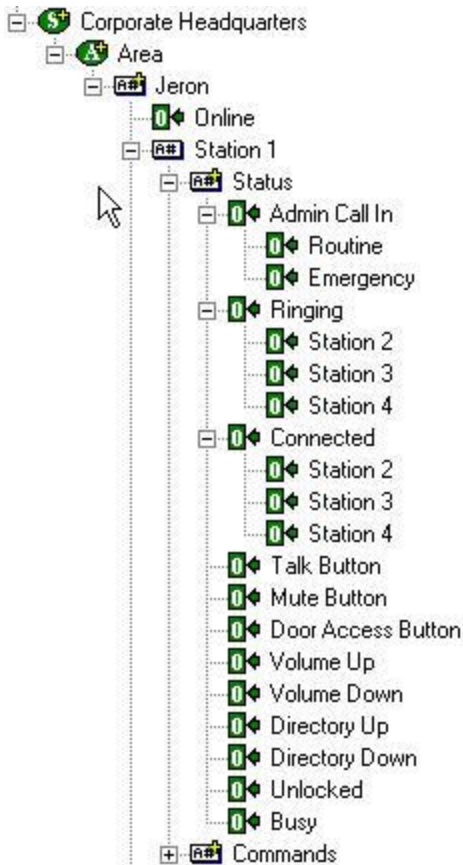
- 4. **Node Type:** – This combo-box field must be set to General.
- 5. **Address:** – This must be set to #### (Stations).
- 6. **Protocol:** – This must be set to #### (Stations).

Notes/Comments Tab

This tab allows the programmer to enter descriptive text regarding the RTU (programmer's notes). The programmer may enter any number of descriptive text lines (use CTRL+M to enter a new line).

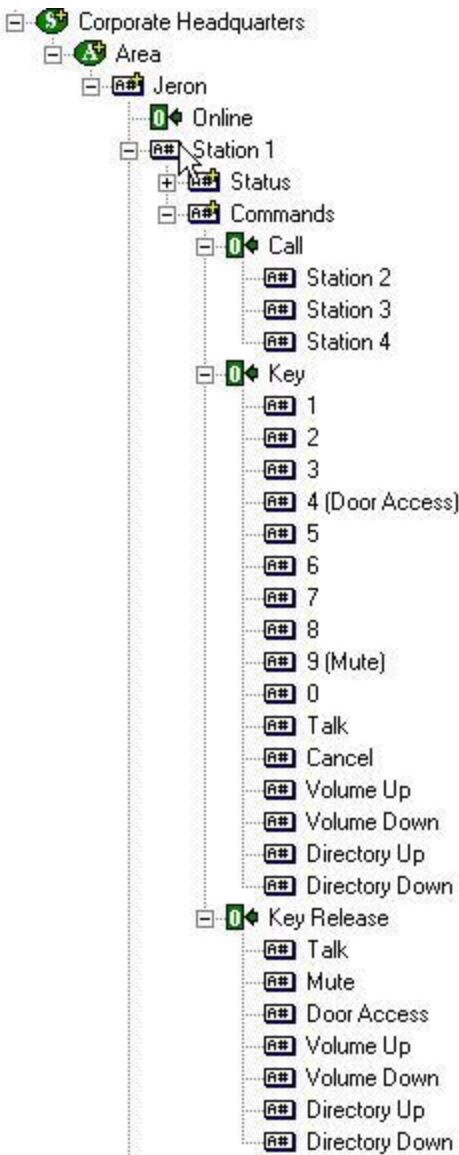
Note: Station Numbers must be four digits long. If the station number is less than four digits, it must be padded to the right with "F"s (ie. Station 10 is 10FF).

Some of the data for each station in the will have to be modified as well.



- Status – This node contains a list of the possible statuses that a station may retain.
 - Admin Call-In – This node is set high when a call in button it pressed. The appropriate sub point for call priority is set high as well. The Address field for the sub point is a single digit that must match the priority programmed into the Spectrum Administration software.
 - Ringing – This point is set high when the station is Ringing. The appropriate sub-point is also set high, its address must be in the format of the Station Number note above.

- Connected – This point is set high when the station is Connected. The appropriate sub-point is also set high, its address must be in the format of the Station Number note above.
- Some button presses must be released. The Talk, Mute, Door Access, Volume Up, Volume Down, Directory Up, Directory Down, and Unlocked points will be set high when these buttons are “down”.
- Busy – This point is set high when the Station is Busy when a call is placed to it.



Using Commands

The Command node contains multiple types of commands that can be sent using the Actions grid. For each command you must use the “Send Command” Action under RTU in the Actions List, while your target will be one of the sub-nodes seen at left (e.g. Station 2, Station 3, Station 4 etc...)

For “Call” see the above section titled “Status – Admin Call-In” for rules on setting up sub points.

Command Definitions

- Call – used for bidirectional communication between stations
- Key – Used to simulate pressing a key on the Station. Note that Key 4 (Door Access) and Key 9 (Mute) have special functions while a call is in progress. The Cancel Key will cancel a call.

Key Release – Used to simulate releasing a key on the Station.

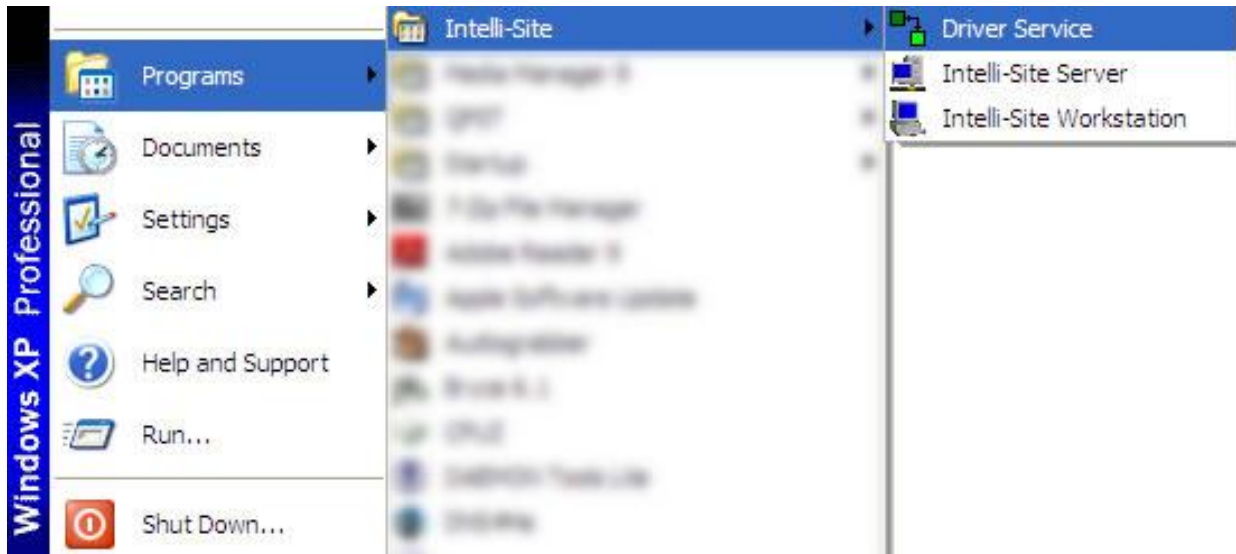
Section 3 – Jeron Spectrum Driver Setup

This section describes how to properly setup and configure the Jeron Spectrum driver in the Intelli-Site Driver Service.

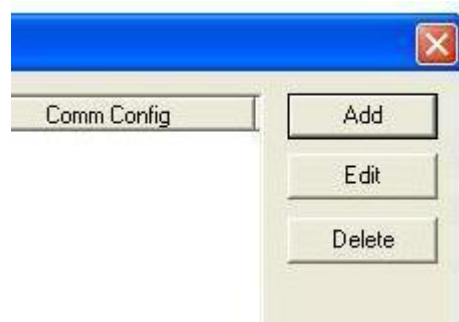
- Adding a Jeron Driver to Driver Service
- Configuring a Jeron Driver in Driver Service

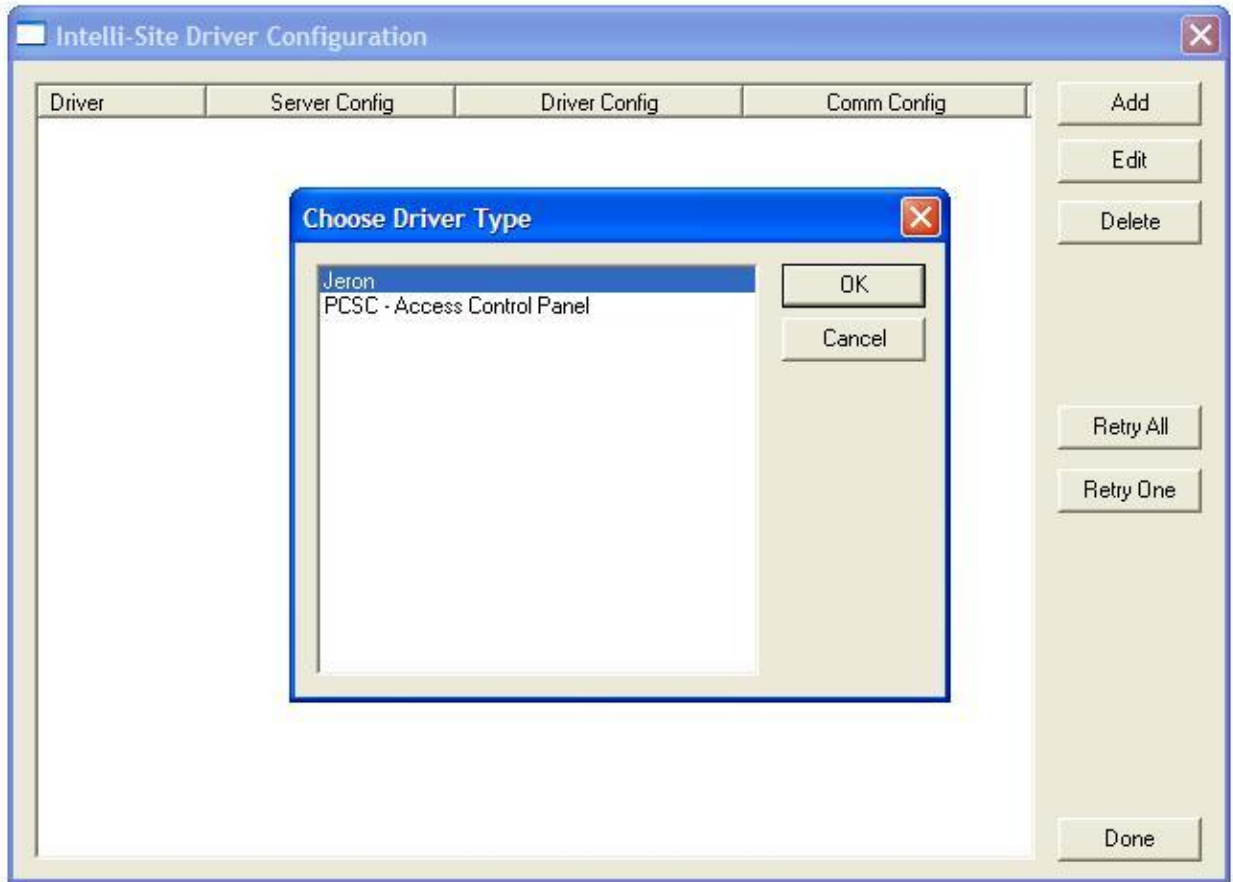
Adding a Jeron Driver

- Open the Driver Service window of Intelli-Site by double clicking on the icon in the system tray (if already running), or by selecting it from Programs on your Start Menu

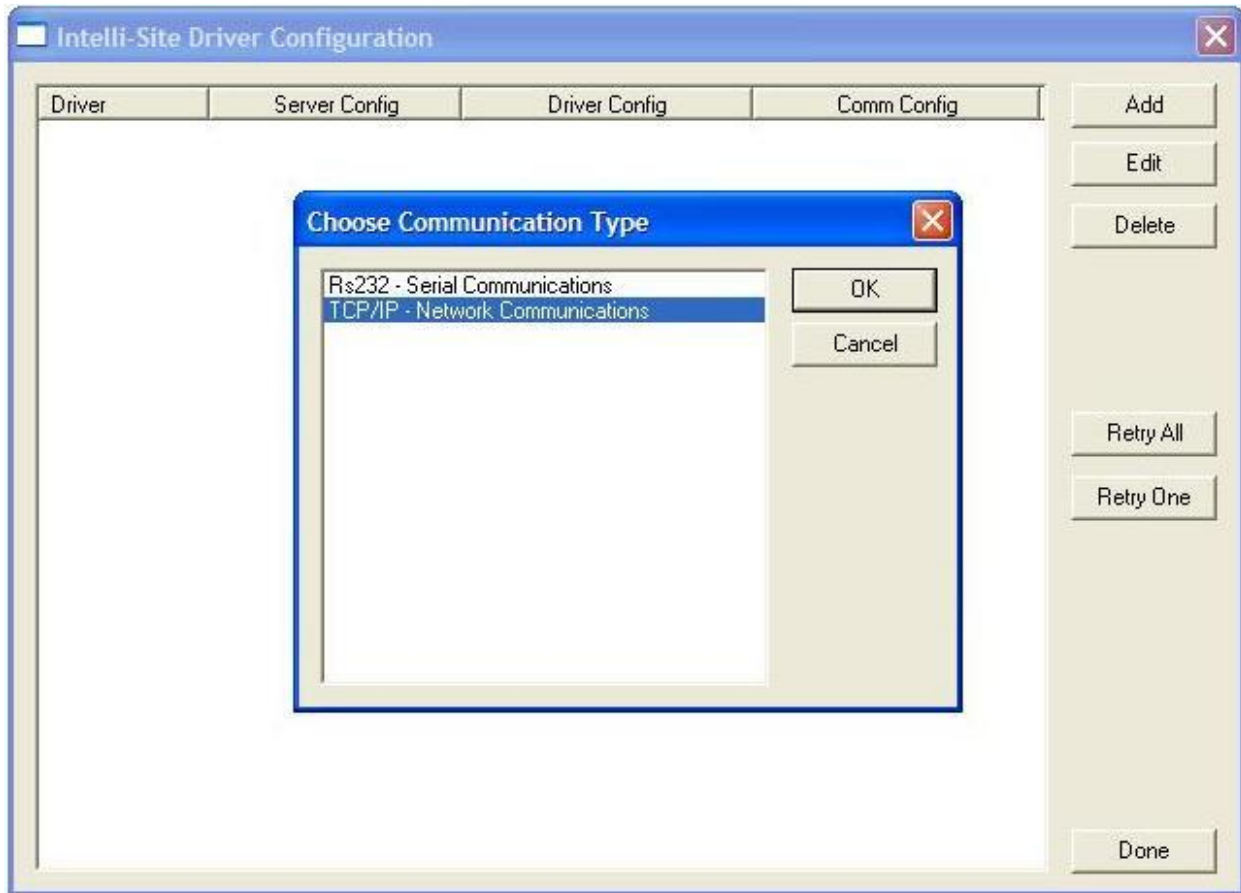


- Click on the "Add" button, in Driver Service, and select Jeron. Then click "OK"

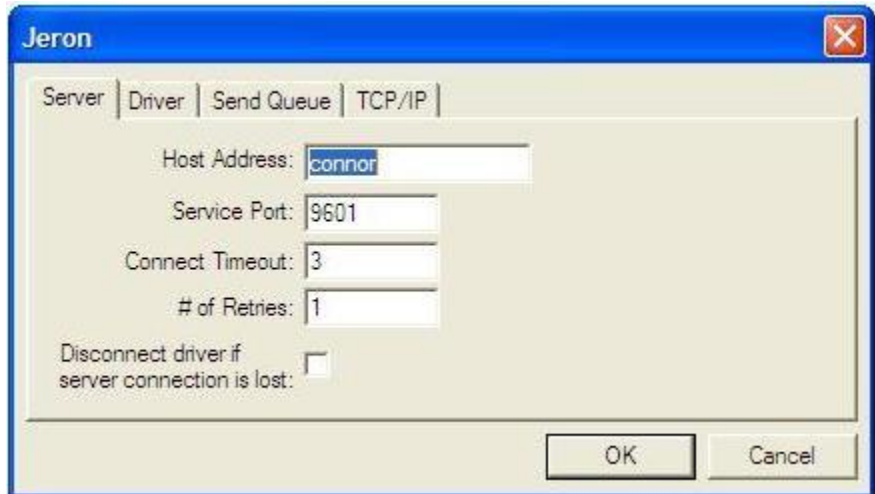




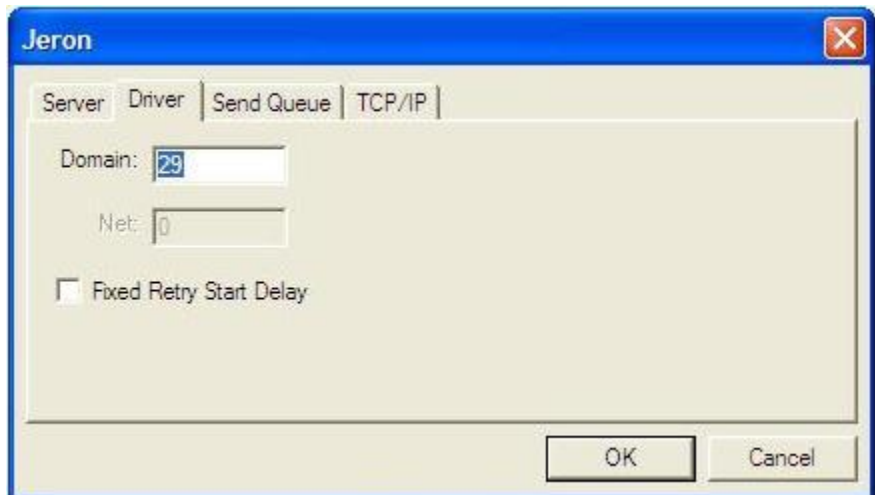
- Now select your protocol/interface. Either RS/232 (via Serial cable) or TCP/IP (via Ethernet cable), then click "OK"



- Now you will see a smaller dialog window that consist of multiple tabs, beginning with the "Server" tab. In this tab you will see a "Host Name:" box, which should contain the name of the computer that is functioning as the Intelli-Site server. If you are running redundant servers, then your notation would look like this: "Server,Server2" (no spaces). For more details on generic driver setup, see the official Intelli-Site Reference Guide.



- The next tab is the "Driver" tab which contains the "Domain" and "Net" for most hardware, however the Jeron hardware only requires the use of a Domain. This value must match your RTU setup in the project and the driver will NOT come online unless this value is identical to your RTU's setup in Design Mode.



- The final tab that needs to be configured is the "TCP/IP" tab (or RS/232 if chosen in earlier step). This is where the user must input the correct IP address or Serial port settings, as well as the TCP/IP port on which the Driver Service will communicate with the Jeron hardware

