

Documentation

Dreambox RTU Guide

Version 3.x

OSSI

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Intelli-Site

Security Management Software Dreambox 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

A Dreambox RTU (Receiver/Transmitter Unit) is the Intelli-Site software representation of the Dreambox Server.

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

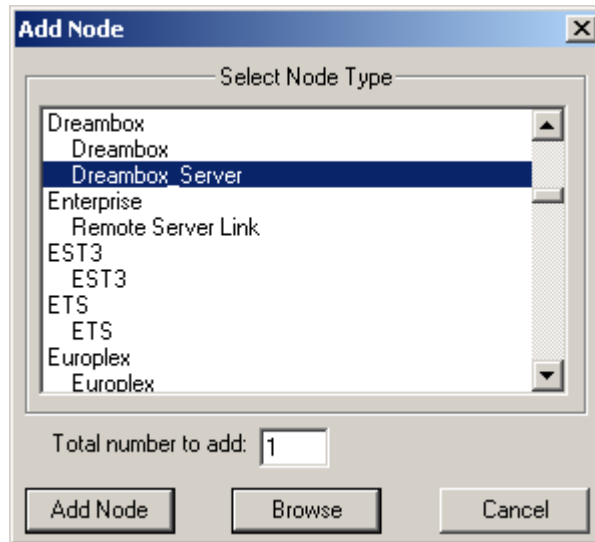
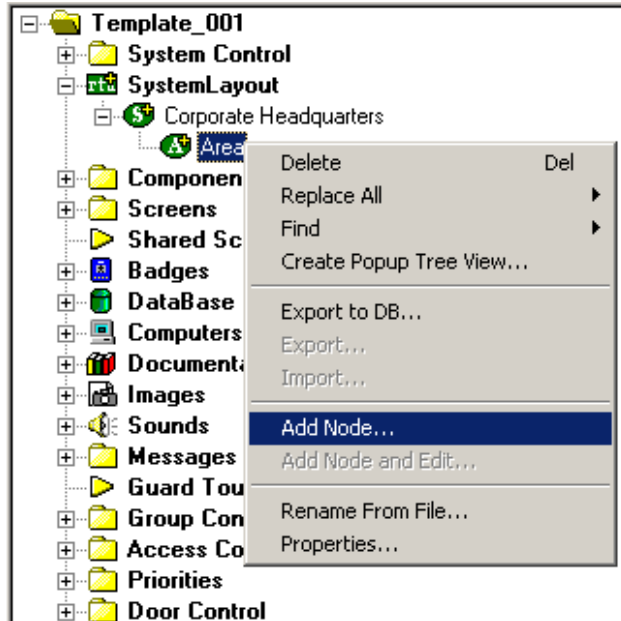
When calling, please be at the computer prepared to provide the following information:

- 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 – Adding Dreambox Server Nodes

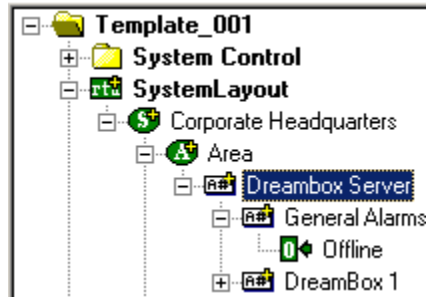
This section discusses the setup of Dreambox node in the project in Graphic Design mode.

Select an Area under the 'SystemLayout' node, right click and select 'Add Node...':



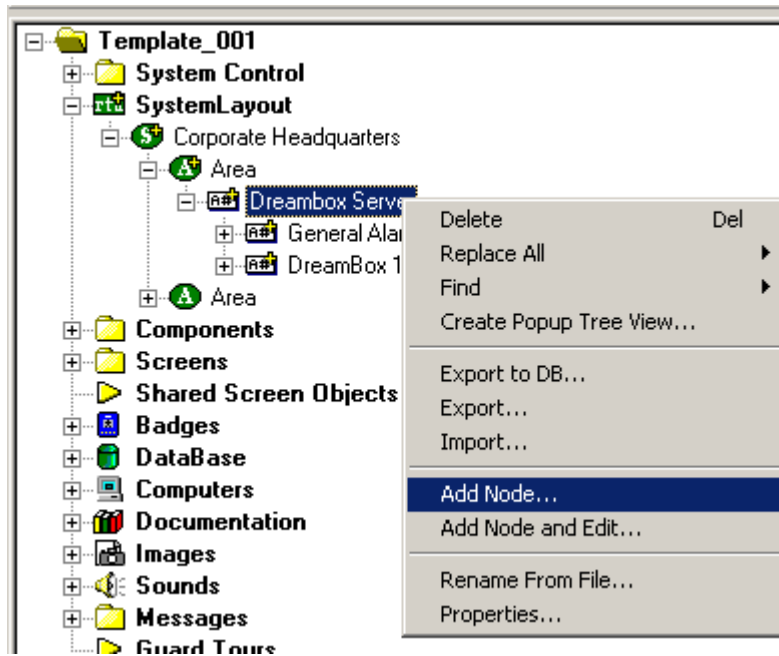
As displayed above, the first step is to add a 'Dreambox Server' node from the list in the 'Add Node' dialog. Ignore the 'Dreambox' entry; this is used for internal purposes.

The RTU has the following layout:

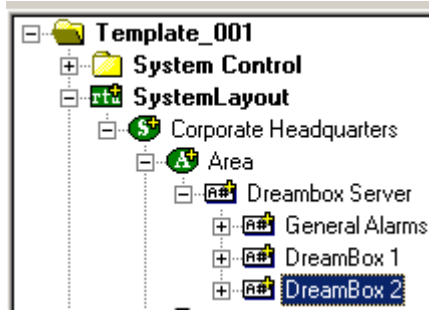


There are two subnodes to start with. The 'General Alarms' subnode contains one alarm, 'Offline' which is active when a driver is online and either fails or loses communication with the Dreambox.

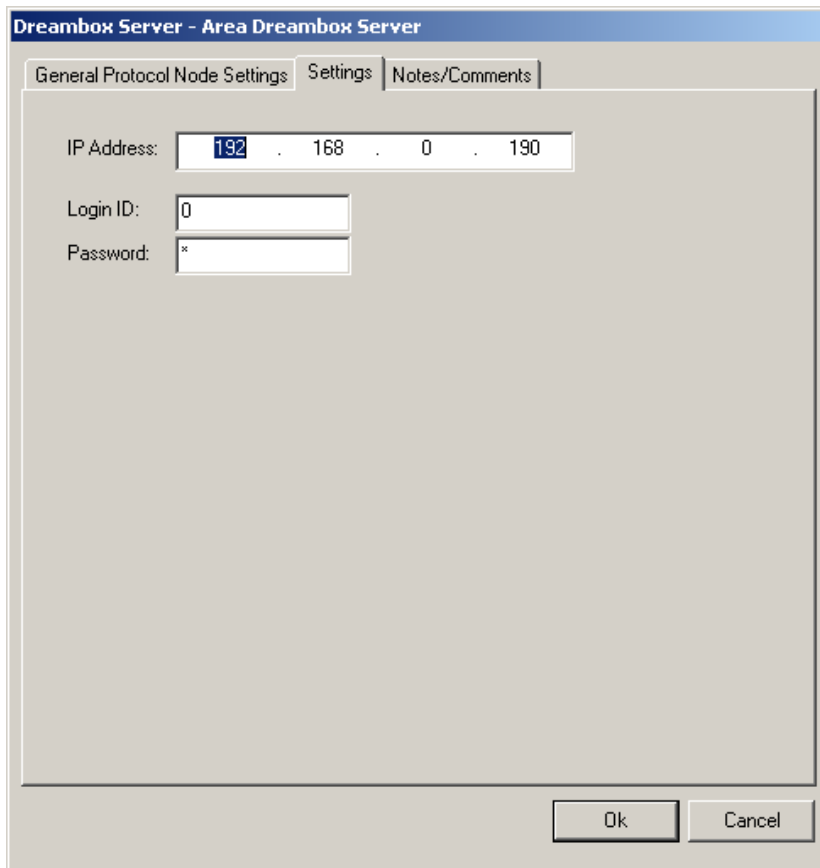
The subsequent node 'Dreambox 1' is the representation of a single Dreambox. For each Dreambox unit to be monitored using this Dreambox Server RTU, add a new node:



The new node added:



Select 'Properties' on the Dreambox Server RTU and Configure as follows:



Configuration simply consists of entering the IP address, LoginID and Password information.

For each Dreambox subnode, enter the Dreambox ID in the 'Address' field as follows:

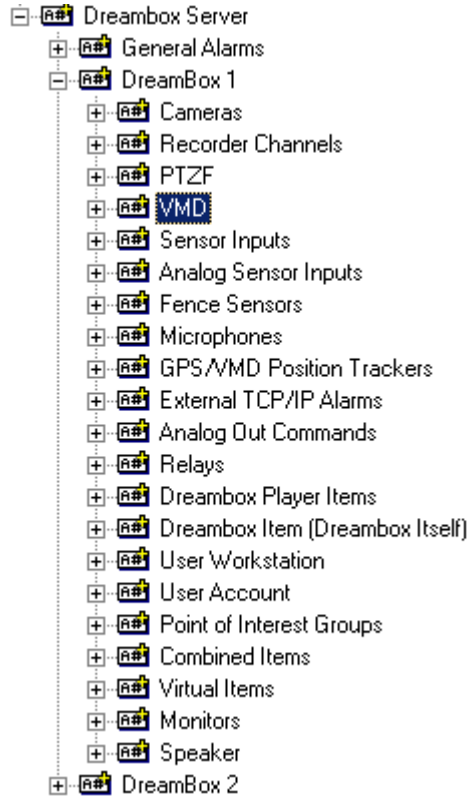
The screenshot shows a configuration window titled "Dreambox Server - Dreambox Server DreamBox 1". It has two tabs: "General Protocol Node Settings" (selected) and "Notes/Comments". The "General Protocol Node Settings" tab contains the following fields:

- Name: DreamBox 1
- ID: 210
- Access Level: Level 1 (dropdown menu)
- Domain: 170
- Node Type: General (dropdown menu)
- Address: [] (text field with a blue cursor)
- Protocol: [] (text field)

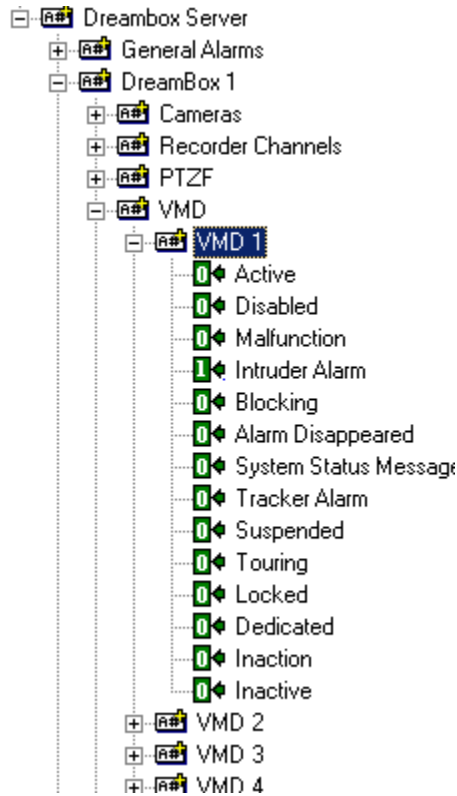
At the bottom right of the window are "Ok" and "Cancel" buttons.

Section 3 - Dreambox Tree Structure

The Dreambox subnode structure contains many child nodes. There are 21 different types of objects in a Dreambox, each type of object is represented under the Dreambox subnode (Cameras, Recorder Channels, PTZF, etc.):



Any given object contains 14 different states (Active, Disabled, malfunction, etc):



Please consult Dreambox documentation for detailed descriptions of each state’s meaning.

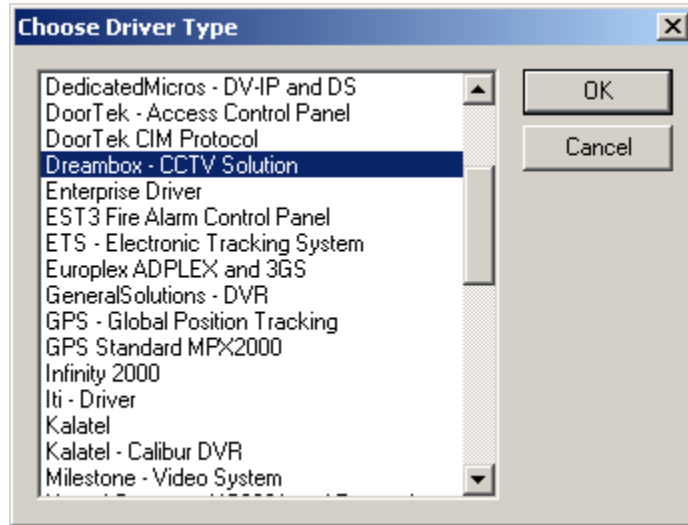
NOTE: Each Dreambox subnode is rather large and includes a complete list of every type of object available in a Dreambox. This results in a very large number of nodes in the project tree. Typically, only a small subset of object types are of concern. To this end, it is recommended that any node types that are not of importance be deleted from the tree. For example, if it is only desired that VMD alarms be monitored, the remaining object type nodes may be removed from the tree. This ‘scaled down’ Dreambox node can be exported and re-used as a template for additional Dreambox subnodes to be added.

NOTE 2: All I/O points under a Dreambox are inputs. There are not outputs that could be used, when programming, as the target of an action (e.g. 'SetOn').

Section 4 - Dreambox Driver Setup

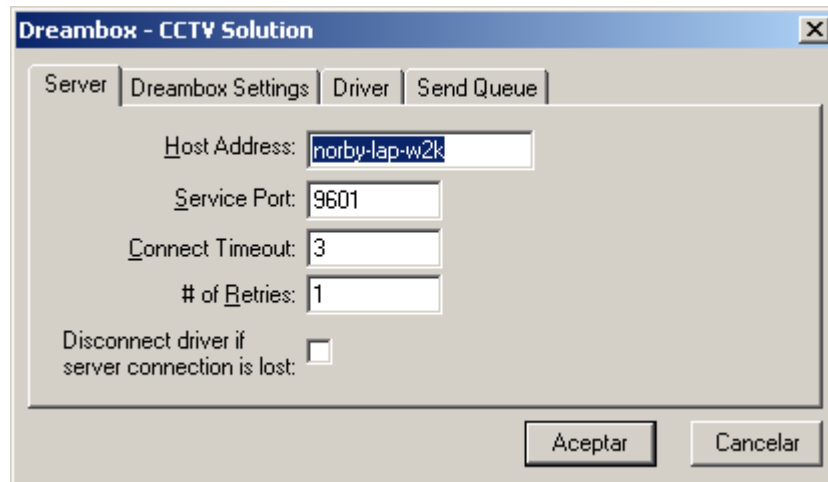
This section discusses the setup of the Dreambox Driver.

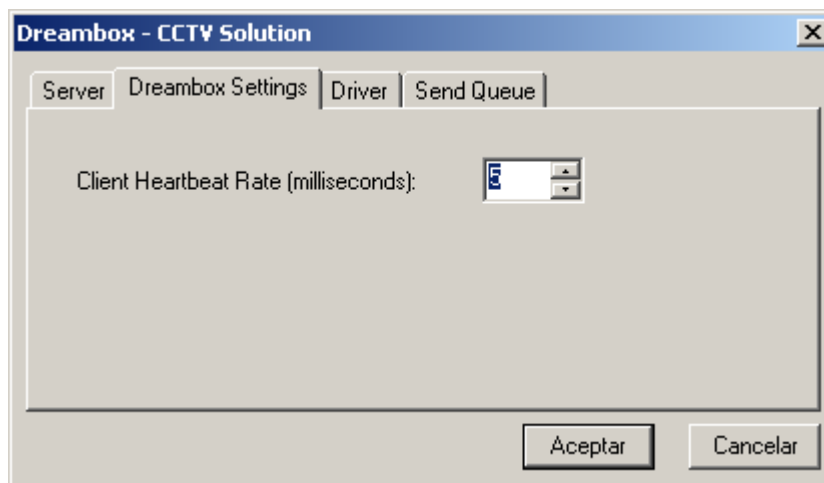
Open the Driver Service window and select the Add button:



Select the 'Dreambox - CCTV Solution' item and select OK.

As with any driver, fill out the Host Address, Domain and other fields accordingly.





There is one Dreambox-specific setting that needs to be configured. This is the 'Client Heartbeat Rate (milliseconds)' located on the 'Dreambox Settings' tab. This value represents how often the driver will send heartbeats to the Dreambox Server (this allows the Dreambox to know when the driver is having communication problems).

One Dreambox driver needs to be added for each 'Dreambox Server' node in the project tree.

When the Dreambox driver starts up, it will request status for all available objects types (cameras, vmd, etc.). The driver will also receive alarm notifications and status changes for objects in the Dreambox system.

These messages can be viewed in the driver's messages window:

