AES Compass 2.0 Proxy

Installation and Operation Manual

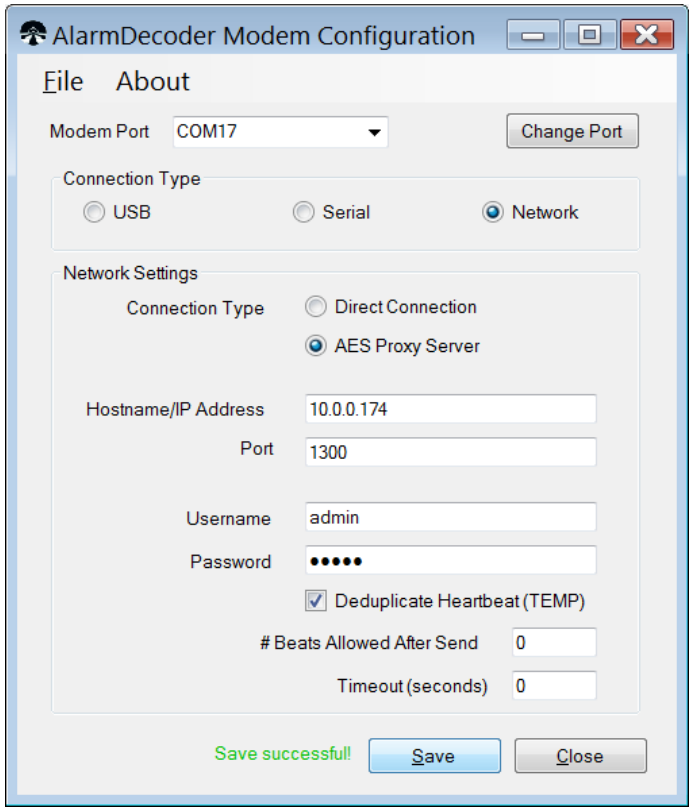

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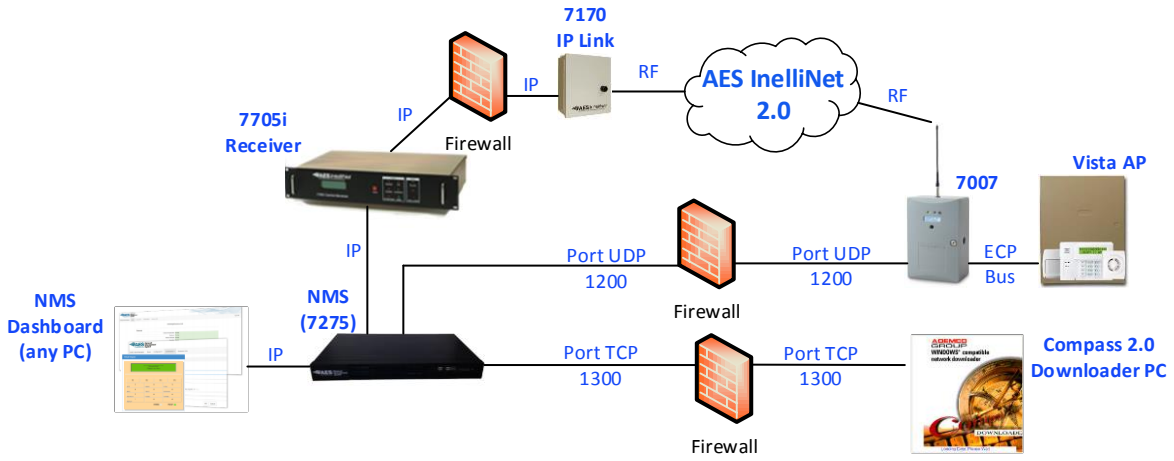
Table of Contents

1. Overview

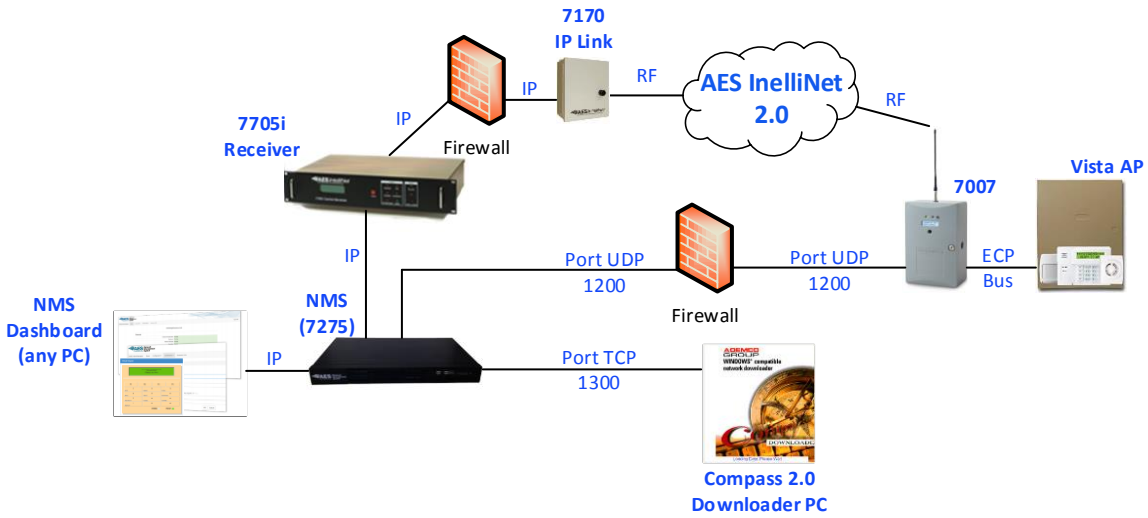
This is the installation and operation manual of the Compass 2.0 Proxy Secure Application for remote configuration of the alarm panels through the AES 7007 2.0 Burglary Subscriber and the 7275 AES-*Network Management System* (NMS).

The Compass 2.0 Proxy desktop application is provided by AES and it must be installed on the same PC that is running the Compass 2.0 Downloader software.

Example illustration of the system when a Compass 2.0 Downloader PC is outside the firewall



Example illustration of the system when a Compass 2.0 Downloader PC is inside the firewall



1.1 How the System Works

The AES Compass 2.0 Proxy desktop application creates a virtual Serial Communication Port which can be used by Compass 2.0 Downloader application as a COM port. This is how Compass 2.0 can upload and download configurations with an alarm panel connected to a subscriber via the ECP bus in the field.

Each 7007 subscriber has a preconfigured unique 10 digit phone number (Compass Number) that starts with 8 and it is visible on the NMS under the subscriber Unit View details or on the Subscribers table under the Equipment tab. You can use this phone number on Compass to securely connect to an alarm panel in the field utilizing the NMS and the Compass 2.0 Proxy application.

In order to perform Upload/Download to a supported panel connected to the 7007 subscriber, the subscriber must have Internet access so that it can connect to the NMS receiver. The 7007 subscribers communicate with the NMS via a secured VPN communication.

When an alarm panel connection to a particular Alarm Panel account is started on Compass 2.0, a secure TCP/IP connection between the AES Compass 2.0 Proxy application and the NMS is established on port 1300 (default). Based on the phone number, the NMS will send a RF outbound message to the appropriate 7007 subscriber through the *MultiNet* Receiver. When the 7007 subscriber receives this request, it will create a secure VPN connection to NMS on port 1200 (default). The ports are configurable on the NMS and these ports must also be configured on the firewall as applicable.

1.2 System Hardware Requirements

- AES NMS 7275 Version 4.0
- AES *MultiNet* Receiver 7705i Version 3351 and above
- AES IP Link
- PC with Compass Downloader application installed (where the AES Compass 2.0 Proxy application will be installed)
- AES 7007 subscribers in the field must have RF and Internet access
- Supported alarm panel must be connected to the AES 7007 subscriber via the Keypad bus

1.3 Software Requirements

- Operating Systems, 64 and 32 bit: Windows XP, Vista, Windows 7, 8, 10
- *MultiNet* and NMS required behind Enterprise Class Firewall with appropriate ports opened

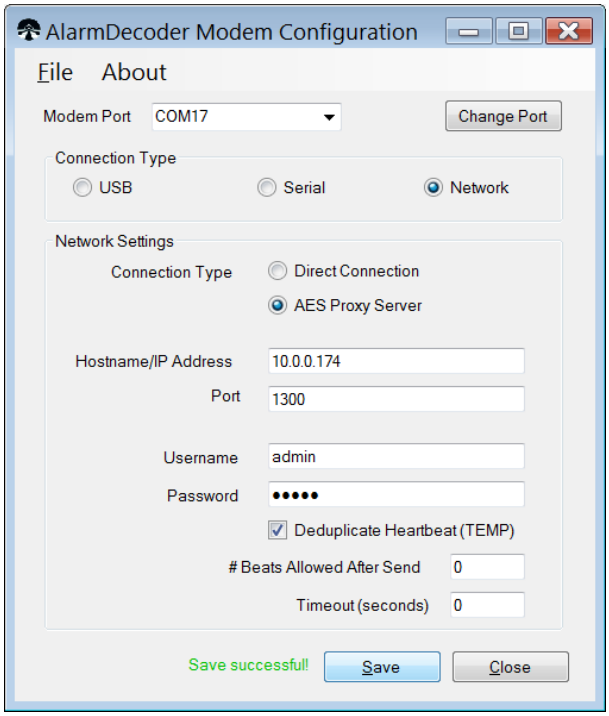
2. Installation

1) Download the AES Compass 2.0 Proxy application executable file from the 'www.aes-corp.com' website on the 7275 NMS product landing page.
2) Install the executable on the PC where Compass 2.0 Downloader software is installed.
3) When requested enter the key: 0AD2-3EBD-19FF-35BC-D4B3
4) Restart the PC.

3. Configuration

3.1 Typical AES Proxy Server Configuration

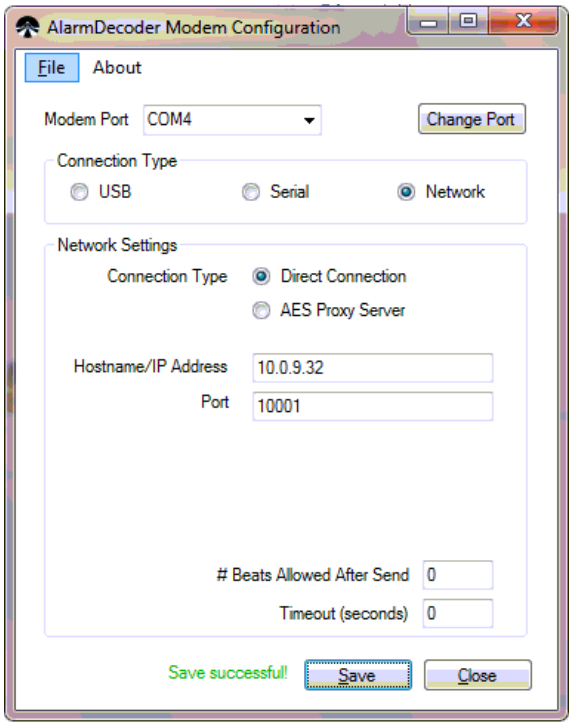
This is the most typical communication configuration which will be through the NMS and Internet. The AES subscriber is located at customer premises, connected to the alarm panel and connected to Internet. RF communication is necessary.



1) Start the AES Compass 2.0 Proxy application and configure the following settings.
2) The new virtual serial port should automatically show under the Modem Port.
3) Select Network as the Connection Type.
4) Select AES Proxy Server as the Connection Type.
5) Enter the Hostname / IP Address of the NMS public IP address.
6) Enter the Port number (should be 1300 by default)
7) Enter the Username that you use to log into the NMS (Admin, BU or Dealer username)
8) Enter the Password for that user
9) Select Deduplicate Heartbeat (TEMP)
   a) Enter 0 for the # Beats Allowed After Send.
   b) Enter 0 for the Timeout (seconds).
10) After entering the above settings, click on **Save** button and ensure the application displays "Save successful!".

3.2 Direct Local Connection

This communication configuration will be a local communication via LAN connection. The AES subscriber is located to the same LAN as the NMS, Compass 2.0 PC and the alarm panel is connected as well. RF communication is not necessary.



1) Start the AES Compass 2.0 Proxy application and configure the following settings.
2) The new virtual port should automatically show under the Modem Port.
3) Select Network as the Connection Type.
4) Select Direct Connection as the Connection Type.
5) Enter the IP address of the Subscriber.
6) Enter the Port number 10001.
7) Enter 0 for the # Beats Allowed After Send (default)
8) Enter 0 for the Timeout (default)
9) After entering the above settings, click on **Save** button and ensure the application displays "Save successful!".

4. Connecting to alarm panel with Compass 2.0 via the AES NMS

1) Ensure that AES Compass 2.0 Proxy Application is running and successfully connected to the NMS and you see the message "Save successful!".
2) Open Compass 2.0 Downloader and click on **Modems** button.
3) Set COM port to **COM** port of the AES Compass 2.0 Proxy application.
4) Login to NMS as Admin/BU/Dealer dashboard and navigate to **Equipment** > **Subscribers list** page.
5) Find the **10-digit Compass Number** of the 7007 subscriber of interest and copy this number and program this number into the corresponding Alarm Panel account on Compass 2.0 application.
6) Select Ademco CIA 2400.
7) On Compass 2.0, open the Alarm Panel account, launch Communicator and click on "**Connect**". NOTE: The Virtual Keypad
8) On the Communications window, uncheck the "Answering Machine Defeat"
9) Based on the state of alarm panel, select "Use Account CSID" or "First Time Communication".
10) When the connection with the panel is established, you can perform any Compass 2.0 tasks.