ESPRIT - ADDRESSABLE FIRE CONTROL PANEL NETWORK CARD CONFIGURATION SOFTWARE USER MANUAL

This manual covers the configuration of Network Card,PCA35 with BMS for Esprit-Argus & Apollo Addressable Panel with the Haes Network Card Configuration software.

SAFETY

IMPORTANT NOTICE

PLEASE READ THIS MANUAL CAREFULLY AND OBSERVE ALL ADVICE GIVEN WITHIN IT.

THIS PARTICULARLY APPLIES TO THE PRECAUTIONS NECESSARY TO AVOID ELECTRO-STATIC DISCHARGE

Important Safety Notes

The panel is safe to operate provided it has been installed in compliance with the manufacturer's instructions and used in accordance with this manual.

Hazardous voltages are present inside the panel—DO NOT open it unless you are qualified and authorised to do so. There is no need to open the panel's enclosure except to carry out commissioning, maintenance and remedial work. This work must only be carried out by competent service personnel who are fully conversant with the contents of the panel's installation manual and have the necessary skills for maintaining this equipment.

The product must be installed, commissioned and maintained for operation in accordance with the instructions and the applicable wiring codes of practice and national standard regulations for fire systems appropriate to the country and location of the installation. It is the responsibility of the system user to ensure it is regularly serviced and maintained in good working order.

This equipment is designed to be operated from 230VAC 50/60 Hz mains supplies and is of Class I construction. As such it must be connected to a protective earthing conductor in the fixed wiring of the installation. Failure to ensure that all conductive accessible parts of this equipment are adequately bonded to the protective earth will render the equipment unsafe.

Disclaimer

No responsibility can be accepted by the manufacturer or distributors of this fire alarm panel for any misinterpretation of an instruction or guidance note or for the compliance of the system as a whole. The manufacturer's policy is one of continuous improvement and we reserve the right to make changes to product specifications at our discretion and without prior notice. E & O E.

Warnings

	Before installation, refer to the Ratings shown on the label inside the product and to the 'Specifications Chart' in this document. If you are unclear on any point, please DO NOT proceed. Contact the manufacturer or supplier for clarification and guidance. Only Trained service personnel should undertake the Installation, Programming and Maintenance of this equipment.

Cautions

Equipment Guarantee

This product has been manufactured in conformance with the requirements of all applicable EU Council Directives and is not guaranteed unless the complete system is installed and commissioned in accordance with the laid down national standards by an approved and competent person or organisation.

This product has been designed to comply with the requirements of the Low Voltage Safety and the EMC Directives. Failure to follow the installation instructions may compromise its adherence to these standards.

Waste Electrical and Electronic Equipment Directive

THIS IS A PIECE OF CLASS I EQUIPMENT AND MUST BE EARTHED

Only trained, suitably skilled and technically competent service personnel should undertake the Installation, Programming and Maintenance of this equipment.

ESD Precaution

This particularly applies to the precautions necessary to avoid Electro-Static Discharge.

This equipment is constructed with static sensitive components. Wear an anti-static earth strap connected to panel enclosure's earth point. Before installing or removing any printed circuit boards, or connecting cables, remove all sources of power (mains and battery).

TABLE OF CONTENTS

HAES CONFIGURATION

Description

The Haes Configuration Network Card software allows the fire system engineer to configure the Haes Technologies Esprit addressable fire control panel (Argus and Apollo protocol) Network Card with BMS, using a laptop or tablet device, before downloading the configuration to the Network Card.

The Network Configuration software toolbar opens a Setup window on which the configuration can be designed, and the data can be transferred to/from the Esprit Network Card.

Note: 1) The following Network Card configuration should be carried out after successfully installing the

Network card as per UI-ESA-06 issue 1

2) After the configuring the card, the learn process must be carried from the menu system of the

Panel itself to allow the panel to confirm.

Definitions

The following terms are used in the setup of the system:

- Connect to NW Card-   Establish connection between PC and Network Card.

- Send to NW Card-   Information such as MAC Address, BMS Address etc can be sent to NW Card.

- Receive from NW Card- Upload information from Network Card-Server name, Server Port number, BMS address.(This can be edited by user).

- Mac Address- This can be edited by user.

Toolbar

- New - open a new configuration file.

- Load – Load a saved configuration file.

- Save – save the current configuration file to a drive location.

- Port: - The Port settings are to configure which COM port is to be used to communicate with the Network Card. The drop-down is only populated with COM ports that are available. These are added to the drop-down when the cable is connected

- Connect/Disconnect to/from NW Card- Establish connection or disconnect the Network Card from PC.

- Send to NW Card- Send information to NW Card.

- Receive from Network Card- Download from Network Card.

- Refresh – refreshes the COM port connection.

- Connect/Disconnect – establishes the connection between the portable computing device and the Network Card, ready for the transfer of the configuration file and breaks the connection when finished transferring data files. The type of panel connected must match the type defined in the configuration data. This is set when a new file is created or when an existing file is loaded.
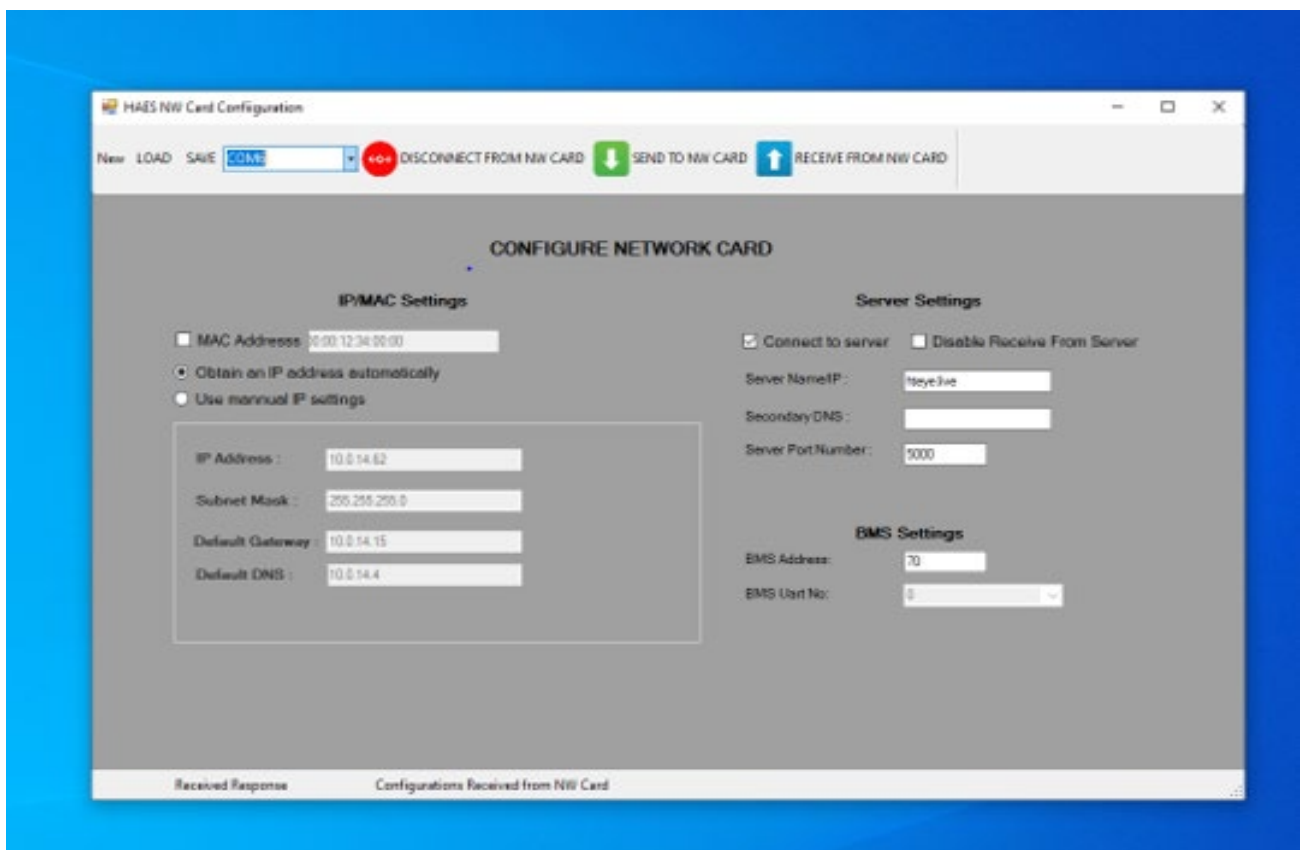
- See Image below:

Fig 1

Note: Prior to carrying out the Configuration,

CONFIGURING THE NETWORK CARD.

New Network Card Setup

Configuring the Network Card:

- Refer to Fig 1

- Connect the PCA35 NW Card with USB cable to PC

- Execute "pc_NWConfigurations.exe"

- Select correct COM PORT from dropdown menu.

- Click on "CONNECT TO NW CARD"

- "SEND TO NW CARD" and "RECEIVE FROM NW CARD TABS will be enabled.

- <mark>Only click on "RECEIVE FROM NW CARD"</mark>

- The following fields will be populated

  MAC Address, Obtain an IP address automatically radial button 'ON', Use manual IP address radial button 'OFF', Connect to server box ticked, Server Name/IP, Server Port Number, BMS Address, IP address, Subnet Mask, Default Gateway, Default DNS

- The following fields can be edited if required:

  MAC Address,(Tick box), Server Name/IP, Server Port Number and BMS Address.

Definition of Terms:

- Refer to Fig 1

- MAC Address-   MAC (Media Access Control) address is a unique identifier assigned to a network interface

  controller (NIC) of a device connected to a network. It's a 12-digit hexadecimal number that,

  similar to a serial number, distinguishes a device from others on the network.

- Obtain an IP address automatically radial button 'ON' - A unique numerical label assigned to each device connected to a computer network using the Internet Protocol. It acts like an address for your device on the internet, allowing it to communicate with other devices.

- Use manual IP address radial button 'OFF'-As above but can be manually entered.

- Connect to server Tick Box – Allows connection to server via Ethernet

- Disable Receive From Server Tick Box- Disables the ability to receive data from server

- Server Name/IP- Name of the connected server

- Secondary DNS- Secondary Domain Name System

- Server Port Number- A server port is a virtual communication endpoint on a server that allows applications and services to identify which specific program should handle incoming data. Ports are identified by a number between 0 and 65,535, and are used in conjunction with IP addresses to establish unique communication

channels.

- BMS Address-   An address enabling connection to Building Management Services

- IP address-   IP-Internet Protocol and the "address" part refers

   to a unique number that gets linked to all online activity you do…

- Subnet Mask-   In networking, a subnet mask is a 32-bit number used to divide an IP address into

   its network and host portions. This allows devices to determine which part of an IP

   address identifies the network they belong to, and which part identifies a specific

   device within that network.

- Default Gateway-   A default gateway is a network device, typically a router, that directs data packets

   from your local network to external networks, like the internet, when no other

   specific route is known.

- Default DNS-   the DNS servers your device automatically uses to resolve domain names to IP

   addresses when you're not using a custom DNS server.

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