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Eden Protocol User Manual

3.2.0.3

Table of Contents

1 Configuration 3

2 Advanced Device Configuration 4

2.1 AutoEnable Device 4

2.2 Scan Rate 4

2.3 Save Outputs 4

2.4 Device Specific Button 4

3 Configure Packets 5

3.1 Ports 5

3.2 Values 5

3.3 Type 5

3.4 Add Packet 5

3.5 Modify Packet 6

3.6 Delete Packet 6

4 Configure Packet 7

4.1 PDU Header 7

4.2 Add Parameter 8

4.3 Modify Parameter 8

4.4 Delete Packet 8

5 Enter Channel Range 9

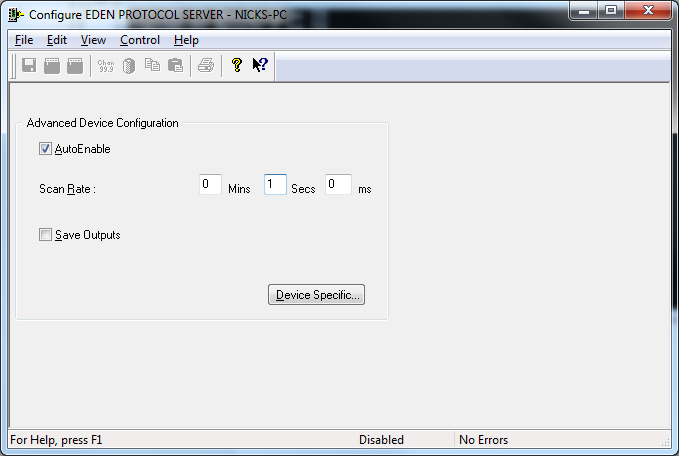
5.1 Prefix 9

5.2 From 9

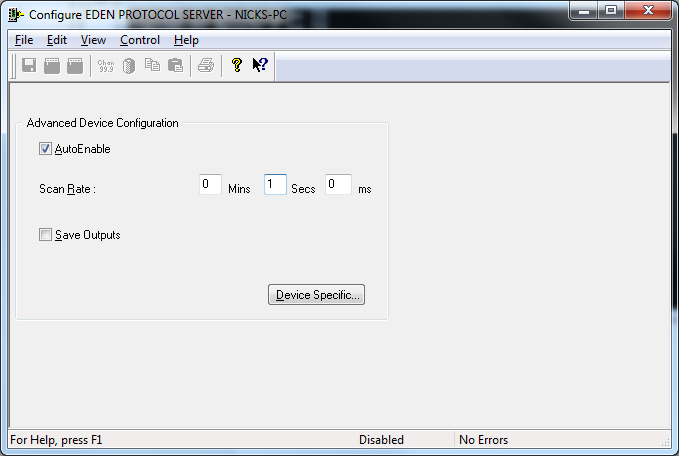
5.3 To 9

# Configuration

The first time the system is configured it is necessary to enable and configure all devices you require. To configure a particular device select the ***Devices*** option from the main menu followed by the Eden Protocol Server device. This will launch an application to configure the device.



# Advanced Device Configuration



## AutoEnable Device

To ensure that the device is enabled on the system check the Enable Device box.

## Scan Rate

To set the rate at which the device will transmit packets to client connections, edit the text boxes associated with the Scan Rate field.

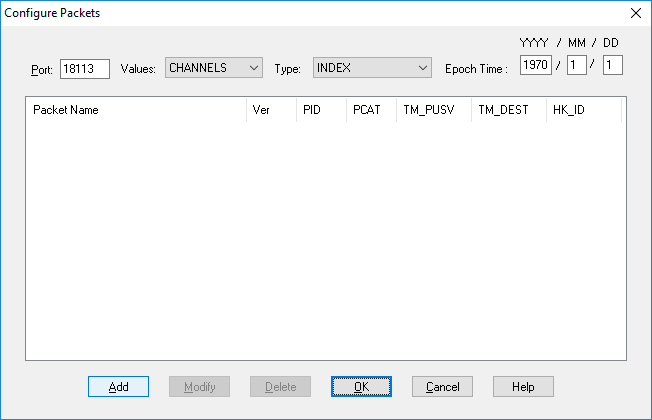
## Save Outputs

To enable this utility check the Save Outputs flag. The Eden Protocol server does not use this option.

## Device Specific Button

When the Device Specific Button is pressed the following dialog appears to allow packets to be configured.

# Configure Packets



## Port

Sets the TCP/IP port for incoming connections. Defaults to 18113.

## Values

Sets the types of values output in packets to be SIMULATED values or CHANNEL value. If running on a demo free license system, only SIMULATED values are output.

## Type

Sets the types of simulated values output in packets to be

INDEX - The parameter index base 0 of the value being output.

RAMP - A value which ramps from min to max and then down again

RANDOM - Random value

SINE - Producers a sine from min to max

SQUARE - Alternates between min and max value

MID VALUE - Outputs a constant mid value between min and max

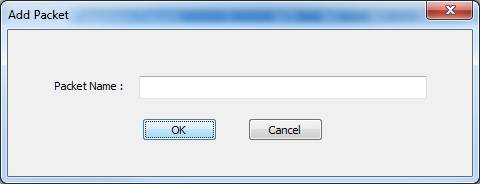
On a demo free license system where no source device channels are present min and max are 0 and 100 respectively.

## EPOCH Time

Sets the base time for transmitting TM\_TIME field in packets.

## Add Packet

This option prompts for a packet name and display the Configure Packet dialog



## Modify Packet

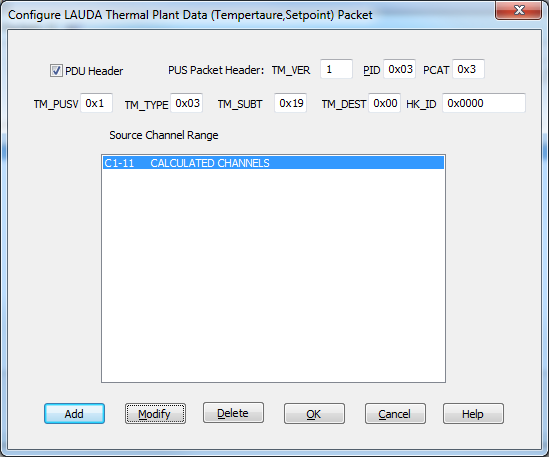
Double clicking on a packet listed or selecting the Modify Packet option displays the Configure Packet dialog.

## Delete Packet

This option deletes the currently selected packet.

# Configure Packet

When the user selects a packet be configured the following is displayed.



## PDU Header

The check box must be checked to include a PDU Header and PDU Secondary Header in the packets to be transmitted.



A PUS packet will always be transmitted.The PUS packet structure is as follows and some of the fields in the packets can be configured.



**NOTE: If HK\_SID is specified to be in the range 0x00 to 0xFF, then the TM\_SDF/HK\_SID field is transmitted as a single byte/octet and not as 4 octets specified above.**

## Add Parameter

This displays the Enter Channel Range dialog

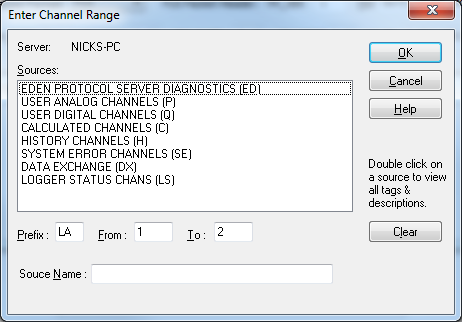
## Modify Parameter

Double clicking on a parameter source channel listed or selecting the Modify Parameter option displays the Enter Channel Range dialog.

## Delete Packet

This option deletes the currently selected parameter source channel listed.

# Enter Channel Range



## Prefix

The 2 character prefix that identifies the channel range.

## From

The starting channel.

## To

The end channel

Double clicking any of the sources displays the following dialog which allows a channel range to be selected.

