MVB configuration for DUAGON

straton user guide – Rev. 4

sales.straton@copadata.com

CP_R31_006_G

COPADATA

Content

1. Overview

This document details how to use the configurator for MVB protocol, using the DUAGON D2000.

2. Architecture

straton includes a configurator for MVB protocol, based on DUAGON MVB tools. The D2000 board requires to be configured with a .BIN file produced by the D2000.EXE tool by DUAGON, which takes on input a text script file.

The same text file can be imported in straton Editor through the MVB configuration tool in order to avoid double definition of telegrams and variables.

3. Configuration

The DDK tool for MVB configuration is based on a 4 level configuration tree:

MVB (Duagon)

- Board
  - Port (telegram)
    - Variable (single value)

The “root” level has no particular property.

The “board” level should normally be unique.

3.1. Properties of the “board” level

Configuration file: Name of the .bin file used to configure the board

3.2. Properties of the “port” level

Address: Port address (address of the MVB telegram)

Direction: Input (received) or Output (sent) or In/out (sent or received)

The direction of In/Out ports can be changed dynamically through a control variable (see next section)

3.3. Properties of “variable” level

Symbol: Name of the straton variable

Mode:

Data exchange: input or output

Status: error status (0 = OK)

Freshness: number of milliseconds since last reception

Set In/out message as sent: in case of an “In/Out” port, the message is sent if the variable is TRUE or received when the variable is FALSE (available since version 10.0)

Offset / Bit: Position of the data in the telegram

Format: Data format in the telegram according to D2000 conventions

Description: Free text

4. Import of script files

The syntax of D2000 scripts is described in file “d2000_ds.pdf”. The import tool is available as a popup menu command in the configuration tree. It reads from the file:

- The list of devices
- The telegrams name and address
- The variables within telegrams

At import, the user must select the device he wants to implement in the straton project. Only telegrams sent or received by this device are imported.

Declaring the telegram variables in the straton database is an option.