
Version 1.5

2010-06-09

Release Notes for the OnTime PTPv2Browser

Description

The OnTime PTPv2Browser is a IEEE1588 2008 Management node.

This version of the OnTime PTPv2Browser features:

- Get the following data sets via PTP Management:
 - Default
 - Current
 - Port
 - Parent
 - Clock Description
 - Time

- Set the following parameters via PTP management:
 - Delay Mechanism
 - Path Delay request interval
 - Priority 1
 - Priority 2
 - Announce interval
 - Sync interval
 - Slave only flag
 - Domain number

- Decode multicast Announce, Sync, Follow_Up, Delay_Req and Delay_Resp messages

- Multiple devices can be configured and monitored at the same time
- Plot the offset from Master on the fly.
- Store all datasets mentioned above to “csv” and “xls” files
 - The files are stored in a subfolder “logs” in the installation folder.

Notes

General

- The timeout for the Messages field is a static timeout of 10 seconds.
- The Time dataset does not take into account the currentUTCOffset when calculating PTP time or Local time, since the currentUTCOffset is not part of the datasets which are gathered.
 - o The Local Time and the PTP time fields are decoded from the currentTime Field.
- An Alias can be specified in the "alias.csv" file. For now, this must be changed manually in the file.(Examples are included) . The Alias for the matching sourceClockId will be displayed in the Alias field.
- Any node answering to the "Clock description" dataset will be displayed in the choiceboxes under the settings pane.

Windows 7 users

If program does not open properly in Windows 7:

- Right click the Program icon
- Choose "Properties"- > "Compatibility"
- Tick for "Run this program in compatibility mode for Windows XP, SP3"

Settings

Animate

The Animate button will open a frame where you can plot the offsetFromMaster on the fly. Note that you must choose animate offset under the Animate menu of the frame. Images can be stored in several formats. Currently the plot is only plotted against a counter, this will be changed to time in later versions.

Any node answering to the "Clock description" dataset will be displayed in the choicebox.

Configure

You can configure one or multiple devices using the configure button. Clicking the Configure button will open a settings dialog. If you choose a unit in the choicebox, its settings will be copied as default settings in the opened settings dialog. Any node answering to the "GET CLOCK DESCRIPTION" message will be displayed in the choicebox.

Several units may be configured by choosing multiple devices under the "unit" list.

The target port identity is settable. All ports or a combination of several ports may be set. Note that the Default dataset parameter "numberPorts" is used as a limit for the highest port number. An example: If you are configuring an 8-port device and choose a higher port number than 8, a set message with a port number of above 8 will never be sent.

Domains

Management can be performed in two domains at the same time, the domains are selected in the Domains field under the Settings Pane. Note that Grand Master Clocks are visible in the Grand Master Clocks pane regardless of the domain.

Get Data Sets

Choose which datasets to retrieve. A PTP management “Get” message will be sent for each dataset with a target clock ID of all units (0xffffffffffffff)

Choose how often you wish to get the datasets. Note that a high request frequency may cause considerable CPU load on embedded devices.

Store datasets to file

Any dataset can be stored to file. The datasets will be stored in a folder called: “logs” under the installation folder. The files are stored as “.csv” files, but are also converted to “.xls” files after logging is finished (when the checkbox is unchecked.)

Store messages to file

Any message can be stored to file. The datasets will be stored in a folder called: “logs” under the installation folder. The files are stored as “.csv” files, but are also converted to “.xls” files after logging is finished (when the checkbox is unchecked.)

Installation

After installation the whole program folder can be copied to other locations. Start the program with the executable: “OnTimePTPv2Browser.exe” located in the installation folder.

New functionality

Version 1.4

- Vendor OUI is automatically decoded

Version 1.5

- targetPortIdentity can be chosen when sending SET messages
- Decode Announce, Sync, Follow_Up, Delay_Req and Delay_Resp messages
- Store Announce, Sync, Follow_Up, Delay_Req and Delay_Resp messages to file

Bug fixes

Version 1.5

- Source port ID was always set to 0. The source port id is now always set to 1 from PTP Management packets sent by the Management software.
- Target port ID was always set to 0. The target port id is now settable, such that any port or all ports can be set.
- Grid cells of the Default and Port datasets are not editable any more. (Setting these fields directly are features relevant for the OnTime PTP stack version of the program, not the free version).