syn1588® Software suite

Release Announcement

Version 1.1 – August 2nd 2019

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0.1 Legals

0.2 Contents

1 Release Schedule

New releases of the Oregano Systems syn1588® Software Suite and Linux Live CD are scheduled to be published quarterly, by the end of each quarter.

Q1 – March/April

Q2 – June/July

Q3 – September/October

Q4 - December

Oregano Systems reserves the right to change this release schedule for any reason, cancel scheduled releases, or add additional releases as we see fit.

Of course, our customers will always be notified of any release cycle changes either directly via email, or on our homepage.

2 Release Q2-2019

2.1 Overview

The Q2-2019 Release of the syn1588® software suite is mostly concerned with increasing the performance and the improvement of our documentation. The new feature introduced with this release is an implementation of the PTP v2.1 Security protocol, which is described below.

2.2 PTPv2.1 Security

The first feature from the upcoming PTP Version 2.1 implements the PTP Security protocol as specified in IEEE1588-2018. The PTP Security protocol provides an effective way to secure PTP traffic from Man-In-The-Middle attacks, Replay attacks as well as malicious Master spoofing. See the Application Note *an_security.pdf* for further details.

3 Release Q1-2019

3.1 Overview

The most interesting improvement introduced with the Q1-2019 release of the syn1588® Live System is the new feature Dynamic Port Re-configuration, which will be described below. Apart from that, the current release features a couple of minor bugfixes relating to different parts of the syn1588® software, such as the parser, offset compensation, and improvements in the handling of Layer2 mode.

3.2 Dynamic Port Re-configuration

The Precision Time Protocol has introduced the concept of PTP ports. During start-up of the syn1588® PTP Stack a physical port is linked to a PTP port. In previous versions of the syn1588® PTP Stack this was done statically. Any changes in the physical port required to stop the syn1588® PTP stack and re-invoke it after making the changes for the Ethernet port

Dynamic Port Re-configuration allows to user to modify the Ethernet port (i.e. change the IP Address) or link a different Ethernet port to a specific PTP port) during runtime of the syn1588® PTP Stack. The reconfiguration is done via the Shared Memory API.

For further information on how to use the Dynamic Port Re-configuration feature, please take a look at the example program in the Shared Memory API export.

4 Further Information

You are looking for further information about our syn1588® product line-up? Please contact Oregano Systems support! We will be pleased to provide you all the required information.

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