syn1588®

syn1588® Software Suite

Upcoming Changes

Version 1.17.2 – February 29th 2024

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0.1 Legals

0.2 Contents

1 Intend

This document gives an overview of upcoming changes that may require modifications for certain interactions or interfaces with the syn1588® Software Suite. These typically involve larger feature or infrastructure changes (for example the implementation of the standard logger used by the syn1588® Software Suite PTP Stack and utilities). Smaller changes (e.g., bug fixes) are documented in the release notes.

The changes listed in this document include a description, some examples, and a rough roadmap of how and when changes will replace the current features or infrastructure components and some guidelines for migrating your application. This will by far not cover every application of the syn1588® Software Suite, especially for our source code customers. If the proposed migration will not work for your case and you have an upright maintenance agreement with Oregano Systems, please get in touch with our support team (support@oregano.at), so that we can consider your feedback in our planned implementation of the proposed changes or provide an alternate solution.

2 Upcoming Changes

2.1 Issue reports, workarounds, and patch sets

Starting with this release we will add short reports detailing specific issues. These reports will contain the scope of the issue, trigger, effect, and potential workarounds. For source code customers we will make patch sets available based on the previous release to make selective updating of older code easier.

2.2 NDIS 6.5 Windows driver certification

The release itself will not contain a fully certified Windows driver. As soon as the certification process finishes, we will release a corresponding notice together with the certified driver package that can replace the pre-certification version.

2.3 Windows Layer 2 PTP Synchronization support

The next release will feature a full Layer 2 support for Windows 10 and newer versions, including the respective Windows Server versions.

2.4 Syn1588 C API

v1.17 adds sources for a C-based syn1588 API added. These sources are not stable and not ready yet for customer use. You can take a peek into the sources, and we may provide access to the API before the next release depending on the upcoming developments.

This C API will require the syn1588® PCIe Linux driver v2.x and new Windows driver (based on the current NDIS 6.3 BETA driver) for operation.

2.4.1 Intentions

With the C-API we will provide an ABI-stable interface to the syn1588® hardware and can therefore be used as base for other programming languages (e.g., Python).

In future releases

- this will be delivered as pre-compiled library for easier integration into user applications.

- this will be expanded and a C++ and possible also Python interface to this API will be provided as well.

- we will support the old C++ based syn1588 API and will inform you in this document when we plan to deprecate the old C++ syn1588 API.

3 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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