

OSA SoftSync™

Precise timing delivery as a software application



5G Mobile



Telecom



Defense



Data center



Smart grid



Transportation



Financial



Broadcast

Benefits

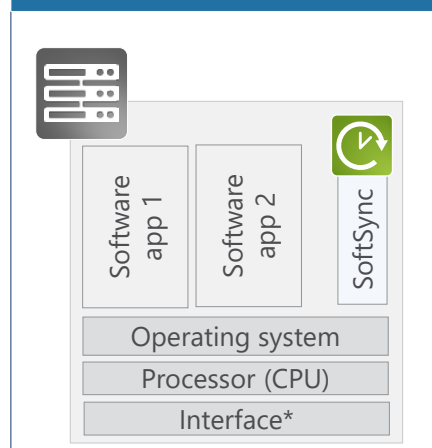
- **Improved timing accuracy**
Use of IEEE 1588v2 Precision Time Protocol (PTP) to enhance the accuracy of time delivered by operating systems
- **Seamless integration**
Simple installation without the need to modify any host application and verified interoperability with Oscilloquartz PTP grandmaster portfolio
- **Leveraging Syncjack™ technology**
Built-in synchronization accuracy and traceability monitoring
- **Resiliency**
Dynamic selection of best synchronization source, mitigating any time source outage, quality degradation or topology changes
- **Industry-leading technology**
Leveraging unique Oscilloquartz clock recovery algorithms, time delivery and performance monitoring
- **Simple and transparent operations**
Ease of operation with modern web-based GUI as well as telemetry data streaming

Overview

The ever increasing need for accurate synchronization requires IT systems and enterprises to move from the currently applied NTP protocol to PTP. IT teams will need to add PTP capabilities to servers and other network devices. This is not an easy task, as most network equipment vendors don't have expertise in utilizing PTP. Our OSA SoftSync™ provides a simple way to augment Linux OS with a sophisticated and accurate PTP clock client.

Our OSA SoftSync™ is a software application running in a host machine that delivers precise timing information to the local system clock by means of standard system APIs. Built on our industry-leading implementation of IEEE 1588v2 Precision Time Protocol (PTP), our SoftSync™ is fully compatible with all relevant standards. It can be deployed as a standalone clock in a third-party network or as part of an Oscilloquartz solution for precise end-to-end timing delivery.

Server-hosted PTP client



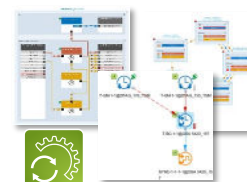
*optional hardware timestamping



User-friendly web GUI



Telemetry streaming



Ensemble Sync Director

Oscilloquartz intelligent aPNT+™ client

OSA SOFTSYNC™

High-level technical specifications

General information

- Support for popular Linux distributions
- Support for PTP protocol
- Disciplining operation system clock to the best timing source

Time delivery

- PTP over IPv4/IPv6 using "IEEE 1588 2008 L3 Default" and "Enterprise" profiles
- Support for HW and SW timestamping
- Typical time recovery accuracy <100ns with hardware timestamping

Syncjack™ technology

- UTC traceability monitoring
- Offset from master measurements
- Performance statistics
- Alarms and threshold crossing notifications
- Use of gNMI telemetry

Local management

- Web-based GUI for local configuration and monitoring
- Fault management
- Advanced logging for events

Network management

- SNMP interface with Sync Manager
- Network-wide performance monitoring and testing

Compatibility

- Fully compatible with OSA end-to-end synchronization solutions
- Compatible with third-party time servers

Applications in your network

Software application to deliver precise timing information to:

- Financial institutions, enterprises, broadcast applications among many others
- Improving timing accuracy in data centers
- 5G mobile networks
- Time-sensitive internet of things (IoT) applications

