

Sifos Technologies Newsletter

PowerSync™ Analyzer News

Volume V

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The Transition Begins!

Sifos Technologies has released PowerSync Analyzer software version 3.3.

PSA software version 3.3 provides a seamless transition between the PSA-1200 family of PowerSync Analyzers and the new PSA-3000 family of PowerSync Analyzers for PoE+ (IEEE 802.3at compliance). With PSA software version 3.3 Sifos' customers will be able to smoothly integrate the PSA-3000 platforms into existing test environments transparently while gaining immediate access to the significant added features available in the PSA-3000 platform. Sifos automated Test Suites and user-created PSA-1200 software applications will run under PSA version 3.3 on the PSA-3000, often with improved accuracies and better repeatability.

PSA Software Version 3.3

For PSA-1200 customers, PSA software version 3.3 offers further enhancements in many areas including:

- Enhanced PSE Conformance Test Suite including expanded PSE technology diversity and an 802.3at-ready scheme for PSE characteristics analysis and declaration
- Smart PSE Conformance Test Suite Reporting that adapts limits and pass/fail priorities to 802.3at PSE declarations and PSA test platform (PSA-1200 vs. PSA - 3000)
- Enhanced PD emulation capability in PowerShell Tcl Automation and PowerSync Interactive GUI allows combinations of PD Class and PD Target Power in a single command or GUI entry.
- PowerSync Interactive GUI enhancements to support new Conformance Test Suite features and improvements to standard Waveforms.

PoE+ PowerSync Analyzer Family



Sifos Technologies introduces a second generation PowerSync Analyzer Family, the PSA-3000. The PSA-3000 extends all of the features of the PSA-1200 family of products with many new features required for high coverage testing of 802.3at compliant PSE's of the future.

Available Now

- **42 Watts** PSE Loading Per Test Port
- Configure 2 to 24 Test Ports or up to 12 Test Ports in existing PSA-1200 chassis
- PSA-1200 **Software** and **Test Blade Compatibility**
- PSA Software Version 3.3 PowerSync Interactive GUI
- PSE Conformance Test Suite **802.3af**
- PSE Multi-Port Test Suite **802.3af**
- PowerSync Analyzer PSA-3000, RackPack PSA-304, Compact PSA-3002 and Low Cost PowerSync Programmable Load PSL-3000 & PSL-3024

Available with Future PSA-3000 Software Release

- **Layer 2 LLDP** Emulation Per Port (mid 2009)
- PSE Conformance Test Suite **802.3at** (mid 2009)
- PSE Multi-Port Test Suite **802.3at**

Beyond PSA-1200... New PSA-3000 Features

- Aggregate Continuous Power Loading > **1000W**
- Fully Configurable **LLDP Messaging** from Each Port
- More **Accurate** and **Reliable** PSE Conformance Testing for 802.3af with PSA Software Version 3.3
- Improved PSE Conformance **Test Coverage**
- Pulse Current Loads to **2 Amps** Per Port

- PSE **Foldback Suppression** Capability
- **Flexible** PD Detection and Classification Emulation
- **Noise Immune** Edge Triggering with Selectable Noise Rejection
- Programmable Transition Band Current for **Mark Emulation** and **Discharge Control**
- **Accurate** 2-Band AC Peak Measurements
- **Smart Fan** Control, Runs Cool and Quiet
- Selectable Data Out Port for Packet Transmission Tests
- **4-Pair Capable** PSE Testing
- Per Port **Self Test** Capabilities

Automated Software Test Suites, PoE+ IEEE 802.3at

Sifos will introduce a new and enhanced automated test suite for PoE+ PSE Conformance Test Suite in 2009.

This suite will take advantage of unique PSA-3000 platform features to offer broad adaptability to a wide array of PSE technologies operating within the expanded bounds of the IEEE 802.3at specification. Some key features will include faster and more accurate characterization of all PSE detection and classification behaviors, LLDP PD emulation as needed to acquire full PSE power, new test strategies for PSE overload and transient power analysis, better and more accurate coverage of high power modes, improved ripple and noise measurements and dual coverage of both low power and high power behaviors.

Sifos will also introduce flexible LLDP PD emulation and LLDP transaction analysis capabilities in 2009 through software updates to PSA-3000 customers requiring the LLDP emulation feature. Automated test suites such as PSE Conformance Test and PSE Multi-Port Test will run with or without LLDP emulation depending upon PSE parameter declarations.

Sifos will also introduce a new and enhanced automated PSE Multi-Port Test Suite for 802.3at at a later date. AS with the PSE Conformance Test Suite, this software will take advantage of unique PSA-3000 features to expand test coverage and user insight into PSE as a system behaviors.

Quick Links

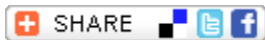
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[PSA Software Version 3.3 Release Notes](#)

[PSA-3000 PowerSync Analyzer Product Overview](#)

[PSA-3000 vs. PSA-1200 Comparison](#)

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