

Sifos Technologies Newsletter

PowerSync™ Analyzer News
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Sifos is excited to announce the much anticipated PowerSync Analyzer 3.2 Software Release. This upgrade includes many new and important features including PSE Conformance Test Suite adaptive processing to capture and characterize a wider array of PSE device technologies and configurations, expanded and improved pre-standard 802.3at High Power PSE Conformance Testing with RJ-45 combiners, faster sequencing of PSE Conformance Tests under automated sequencer and much more...

PowerSync Analyzer 3.2 Software Release Features

The latest software release will contain the following major new features and updates:

- New PSE Conformance Test Suite adaptive processing to capture and characterize a wider array of PSE device technologies and device configurations including hybrid proprietary signaling features
- Faster Sequencing of PSE Conformance Tests under automated sequencer
- Expanded and improved pre-standard 802.3at high power PSE Conformance Testing with PSA Port Combiners
- Improved manual testing and analysis of pre-standard high power PSE ports with PSA Interactive and

PSE High Power Testing



Sifos offers PSA RJ-45 Port Combiners and short Ethernet cables at no charge for those who wish to take advantage 802.3at pre-standard high power PoE testing and are using Conformance Test Suite.

Pre-standard high power PoE testing capabilities include:

- Test new high power 2-pair (**36 Watt**) PSE's using Sifos Port Combiners (1 PSE port per PSA test blade).
- Fully automated PSE Conformance Testing and reporting for pre-standard high power 2-pair PSE's
- PSA Interactive controls to support interactive measurements and loading to high power 2-pair PSE's
- PowerShell configuration, measurement and utility modules supporting testing and script automation for high power 2-pair PSE's
- Load current measurements and scope traces up to 1000mA.

[To download the "PSA-1200 High Power Test" Application Briefs please click here.](#)

PowerShell

- More Flexible PSE Conformance and Multi-Port Test reporting including built-in hyperlinks to any error logs and ability to develop and deploy specialized (i.e. modified) Excel report templates specific to PSE types or models.
- Automated pre-sequence PSE Port Connection Verification operation
- Enhanced options and capabilities to support execution and control of PowerShell automation from other software development environments
- Full support of upcoming test port Firmware 2.0 release including improved trigger noise immunity and more accurate signaling synchronization

In addition, there are many other improvements to PSA Interactive and PowerShell PSA.

PowerSync Analyzer 3.2 Update Instructions

The update is available at no charge for PowerSync Analyzer customers and if you are a Conformance Test Suite and Multi-Port Performance Test Suite customer a support contract is required to download the software-firmware updates. To download the latest release step through the following instructions:

- Register at www.sifos.com
- Login to Sifos website
- Sifos will send a confirmation message that user profile has been updated to PoE

Real Powered Device Analyzer Experiences...



Sifos Technologies wanted to share some actual powered device analyzer testing experiences utilizing various customer furnished powered devices. While many units completed testing successfully, a number of units were found with an assortment of defects including:

- Q1 2007

Wireless Access Point and VoIP Phone measured to have low signature capacitance with possible detection failure or ambiguous consequence.

- Q2 2007

PD evaluation board measured to have invalid detection resistance with possible detection failure or ambiguous consequence.

- Q3 2007

VoIP Phone measured to have high capacitance signature with possible detection failure or ubiquitous consequence.

- Q3 2007

VoIP Phone measured to have missing components (Alt-B) with the consequence that PD is ok working with Alt-A and problematic with Alt-B

- Q1 2008

Wireless Access Point measured to have low initial turn on current and the consequence is to shutdown by some DC MPS PSE's

- Q1 2008

Wireless Access Point measured to have minimal separation on-off voltage with start-up instabilities consequence.

PowerSync Analyzer Test Blade Version Support

Sifos Technologies is now shipping Version 3 (Revision G) test blades. These test blades have benefits in several areas as compared to Version 1 or Version 2 test blades including:

partner (may take up to 24 hours)

- Relogin to Sifos website
- Pull down "Partners" menu then "Customer Download Center"
- Download PSA 3.2 Release Package

- Better active load transient slew rate performance.
- Reduced active load oscillation susceptibility
- Fully automated testing and reporting
- Significantly improved pass through of 1000BaseT signals containing baseline wander impairments PSA 3.2 will automatically support Version 1, 2 and 3 test blades so that they can be interchanged and intermixed within a PowerSync Analyzer or PowerSync Programmable Load chassis.

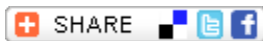
[To download the PowerSync Analyzer 3.2 Software Update Release Notes please click here.](#)

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