

PSA 4.2.05 Release Note

The PSA 4.2.05 Release Note is applicable to the **PowerSync Analyzer**, the **PowerSync Programmable Load**, and the **PhyView Analyzer** instruments, including the **PSA-3002-SA Service Analyzer** and **PDA-LLDP PoE LLDP Analyzer**.

Summary

PSA 4.2.05 includes just a few updates from PSA 4.2.04 affecting:

1. Ethernet Alliance 1st Party Standard Test Report
2. PowerSync Analyzer **PSE Conformance Test**
3. Adaptations for Newer (e.g. 2016) Microsoft Office version
4. PowerSync Analyzer **Multi-Port Test Suite** Text File reporting

PSA **4.2.05** has been approved for usage to perform first party (self-certification) testing for the Ethernet Alliance (EA) PoE Logo Certification Program. For further information, see

<http://sifos.com/Portals/0/Literature/Announcements/EA%20PoE%20Certification%20Program%20Update%2C%20April%202018.pdf>

PSA 4.2.05 Enhancements

Software Entity	Impact	Feature
PSE Conformance Test	Moderate	PSA 4.2.05 includes an updated standard report template for EA Logo Certification reporting. This template matches the present EA test plan numbering and includes all of the features required for submitting EA certification test results.
	Moderate	The mps_dc_valid test is re-designed to take advantage of a feature in PSA-3x02 firmware version 3.21 or newer whereby the Tmps measurement should be fully insensitive to LAN connection packet latency between the host PC and the PSA-3000 instrument. Historically, this has been the most sensitive measurement to LAN packet latency.
PVA PHY Performance Test Suite	Minor	Adaptations included in the pva_partner , pva_psd , metering and the pva_caps test to trap a 10/100Base-T transceiver that is periodically dropping link spontaneously at a frequency of 1/25 seconds or higher.
Excel Report Templates and Microsoft Office 2016/365	Moderate	Corrected possible issue in successfully launching Microsoft Excel report templates on systems running the most recent Microsoft Office 2016/365 versions. Previously, on certain systems, Excel opened but report failed to load when a testing sequence was completed.

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PSA 4.2 Bug Fixes

Software Entity	Impact	Feature
Multi-Port Test Suite	Minor	Corrected several issues with production of textual reports (instead of standard spreadsheet template) from command line sequencing.
802.3bt Power-Up Emulation Utility	Minor	Corrected a problem in processing the detection capacitance argument “dc” in the power_bt utility for PSx-3202’s.
Excel Report for Multi-Port Test Suite	Minor	Corrected a vulnerability in Windows systems that use “,” as a decimal separator and a separate vulnerability that affected Excel 2007. The symptoms would generally occur when testing PSE’s that had under-utilized power capacity.

PSA/PVA Firmware Versions

While PSA 4.2 software supports many older firmware versions, the recommended versions are:

PSA-3000 Controller: ver 3.14 or newer	PSA/PSL-3202 Test Port: ver 4.0C or newer
PSA/PSL-3102 or PSA-3002 Test Port: ver 3.24 or newer	PVA-3102 Test Port: ver 3.0B or newer

Note that for future first party EA certification testing, the newest firmware versions for PSA controllers and PSA test blades are required.