



STORAGE VISIONS® 2015

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AN ENTERTAINMENT STORAGE ALLIANCE™ EVENT



Eden Kim, CEO, Calypso Systems

TITLE

Enterprise Applications: How to create a Synthetic Workload Test

ABSTRACT

Introduction of Synthetic Application Workloads and new testing that focuses on IOPS and Response Times as demand intensity increases. Discussion of SSD performance states, PTS test methodology for drive preparation and test, definition of synthetic application workloads and a case study showing IOPS and Response Time saturation as demand intensity increases. Particular focus on response time Quality of Service and confidence levels up to 99.999% (or 5 nines) of confidence.

Learning Objectives

- Understanding Demand Intensity, Confidence Levels and Quality of Service
- Defining Synthetic Application Workloads
- Developing a test plan using SNIA SSS PTS test methodologies
- Evaluate Response Time QoS as demand intensity increases - selecting optimal OIO operating points

BIOGRAPHY

Eden Kim is the CEO of Calypso Systems, Inc. - www.calypsotesters.com - a leading test and measurement company specializing in SSD performance test. Calypso is the manufacturer of the industry standard SNIA PTS Reference Test Platform and supplier of advanced integrated SSD test systems.

Eden is Chair of the SNIA Solid State Storage Technical Working Group which authored and released the SSD Performance Test Specification (PTS) which establishes standardized test methodologies for comparative performance test of NAND flash based storage.

Eden Chairs the SNIA Solid State Storage Initiative Technical Development Committee which investigates new and emerging solid state storage technologies. Eden is also a member of the SNIA SSSI Governing Board.

Eden has made presentations at many industry events, moderates technical panels and has authored white papers on various aspects of SSD testing and performance. Eden is a graduate of the University of California.