



*BY Developers FOR Developers*

**Storage Developer Conference**  
**September 22-23, 2020**

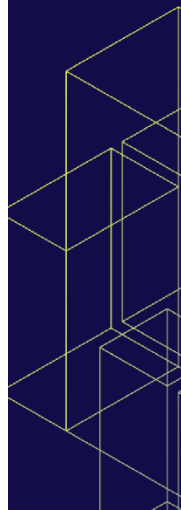
# **Orchestration Track Overview**

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**SNIA Board, SSM TWG Chair**



# Orchestration

- The automated configuration, coordination, and management of large-scale computer systems and software
  - Arranges tasks to optimize a workflow



# SDC 2020: Orchestration Track

Title	Abstract
SODA - One Data Framework, Infinite Possibilities	SODA Foundation is an open source project within the Linux Foundation that aims to foster an ecosystem of open source data management and storage software for data autonomy. It aims to include multiple open source projects from different communities which are related to data management. The SODA data framework is part of this effort to enable data mobility, data protection, data security, data lifecycle, and more for cloud native, virtualization, and other environments. In this talk, we will introduce SODA Foundation, its history, use cases to addresses, roadmap and mechanism for other open source projects to become part of the community.
Unified heterogeneous storage monitoring : Is delfin a way forward?	Every vendor has monitoring solutions with different views of storage infrastructure: <ul style="list-style-type: none"><li>• Capacity by trend (Used for Block, File, Object); Capacity by purpose ( Primary ,Local Replica, Remote replica); Capacity by service level; SLA bottle neck in the data path.</li></ul> This session explores SODA Foundation delfin architecture and roadmap, whether it is inline and how much it can help solve these challenges in a unified, open way.
Predictive analysis of storage health and performance for heterogeneous environment	This session is to give a case study of how "telemetry" and "anomaly detection" can be put together to solve data centre predictive analysis problems using available open source solutions, especially for a heterogeneous environment with different vendor storages or application clients The data and discussion are based on the actual development and experiments on open source projects under SODA Foundation. We explore the various requirements on heterogeneous storage health and monitoring requirements (like different clients, different predictive algos, different storages, different visualizations and more).
Resilient Workflow Automation in a Hybrid Cloud environment	In this session, the authors present a unified orchestration and automation framework for hybrid cloud workflow automation which is completely open-source and which can support heterogeneous orchestration engines in a pluggable extension way. Moreover, it provides custom workflow development and deployment agnostic to those orchestration backends.
Autonomous Data Management at Edge: Challenges and possibilities.	The session discusses the demanding data management requirements for Edge Cloud Computing.



# Related Presentations:

- Storage management standards incorporated into orchestration:
  - [SNIA Swordfish™ Overview and Deep Dive](#)
  - [What's New in SNIA Swordfish™](#)

# Maximize your SDC 2020 Experience

- Participate in our online chat for this track
- Check out the Birds of a Feather (BoF) sessions
  - Meet the Experts and Speed your SNIA Swordfish™ Implementation of NVMe™ and NVMe-oF™ - Sharpen Your Sword to Hone Your Edge in Storage Management
  - 4:00 – 5:00 pm, Tuesday, September 22
- Please be sure you rate each session you watch – you'll see a box under the video
- For additional details see the *Introduction to Virtual SDC* video (<https://www.snia.org/SDCintro>)
- ***Enjoy the SDC 2020 virtual event!***