

# OCP HPCM System Management Workstream Minutes

Minutes - 06/20/2024

## OCP Local Recording :

[https://drive.google.com/file/d/1V4zWG9G5hnbWArigowetshy3qWI-KqSn/view?usp=drive\\_link](https://drive.google.com/file/d/1V4zWG9G5hnbWArigowetshy3qWI-KqSn/view?usp=drive_link)

## Meeting Transcript :

[https://drive.google.com/file/d/1HTGVk5OeCzDNB9ql7sGN0M75VGcfT63m/view?usp=drive\\_link](https://drive.google.com/file/d/1HTGVk5OeCzDNB9ql7sGN0M75VGcfT63m/view?usp=drive_link)

## Attendees

Attendee	Affiliation	06/20/2024
Allan Cantle	Nallasway	x
John Leung	Intel	x
Total		2

## Zoom Meeting AI Summary

## Meeting summary for OCP Server - High Performance Computing (06/20/2024)

## Quick recap

Allan and John discussed various topics including conflicts in schedules, the Frontier Proposal, and the challenges of system management in large-scale computing. They also considered the integration of certain individuals into their hardware management group and the proposal of each work stream creating separate responses for a government proposal. Lastly, they discussed the contribution of Lattice to the development of the Lvds tunneling Protocol and the potential of Intel's involvement in its promotion.

### **Next steps**

- Allan will start attending the hardware management group to better understand their work and ensure the new frontiers proposal doesn't cover any work already being done.
  - Allan and John will work on writing a separate proposal for each work stream (interconnect, firmware, system management) to submit to the new frontiers program, ensuring to include only necessary components and not to reinvent existing solutions.
  - John will follow up on getting LTP integrated into the universal interconnect and sideband signals as discussed with Allan.
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## **Summary**

### **Addressing Scheduling Conflict and Proposals**

Allan and John discussed the status of recent meetings and the conflict with John's schedule due to participation in another meeting. Allan mentioned a new frontiers proposal that was imminent, but John expressed difficulty in attending due to his involvement in the OCP hardware management meeting. They decided to look into rescheduling the current meeting to address this conflict.

### **Frontier Proposal and Water Integration**

John and Allan discussed the Frontier Proposal, focusing on the challenges and potential solutions for building a proof of concept integrating various aspects. Allan suggested dividing the limited funding among different proposals, emphasizing the need for a universal interconnect to support various networking standards and the potential benefits of integrating water into the industry's operations. He also presented an idea of designing a cost-effective solution to make water work efficiently, which he found attractive despite its challenges.

### **Large-Scale Computing System Management Challenges and Solutions**

Allan and John discussed the challenges and potential solutions for system management in large-scale computing, particularly government and commercial supercomputers. Allan highlighted the importance of proactive system management in the face of increasing size and complexity. They talked about ongoing initiatives, including GPU management and component resilience in the Harbor Management project, and the development of a unique thermal management approach. John suggested learning from other initiatives like Google and Meta, while Allan expressed interest in collaborating with the hardware management group for improved system management, despite uncertainty about Lattice's involvement.

#### **Discussing Hardware Management Group Membership**

Allan and John discussed the involvement of certain unidentified individuals in their hardware management efforts. Allan suggested integrating these individuals into their hardware management group, mentioning Jeffrey Merson from Unified Point as a potential addition. They considered that the discussions about hardware management would be more beneficial in the hardware management group setting. Allan proposed his attendance at the hardware management group to better understand their work. John agreed with Allan's proposal and made a joke about the group's name.

#### **Work Stream Proposal Strategy Discussion**

Allan and John discussed the proposal of each work stream creating separate responses for a government proposal. They decided to focus on interconnecting firmware and system management, and to avoid reinventing existing work. Allan suggested that the proposal should include their group's perspective and also highlight the existing resources available from the hardware management project. They considered the example of Lattice's BMC as a potential model for their

approach. They agreed that it was worth their work stream to write a separate proposal.

### **LVDS Tunneling Protocol and Lattice's Role**

John and Allan discussed the contribution of Lattice, a company known for making devices with integrated IP, to the development of the Lvds tunneling Protocol. They noted that the protocol was an open version that anyone could use and that it had been implemented by several others, including Gladys. They also discussed the potential inclusion of Ltp in the universal interconnect and the possibility of Intel's involvement in promoting its adoption. The conversation ended with John mentioning a subsequent meeting at 9 o'clock.

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