HAMMERSPACE

The Open Flash Platform Initiative

March Community Update

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Agenda

- Prototype Update
- Open Compute Platform Update
- Open Flash Platform Roadmap
- Feedback Discussion
- Deployment Types
- Call to Action

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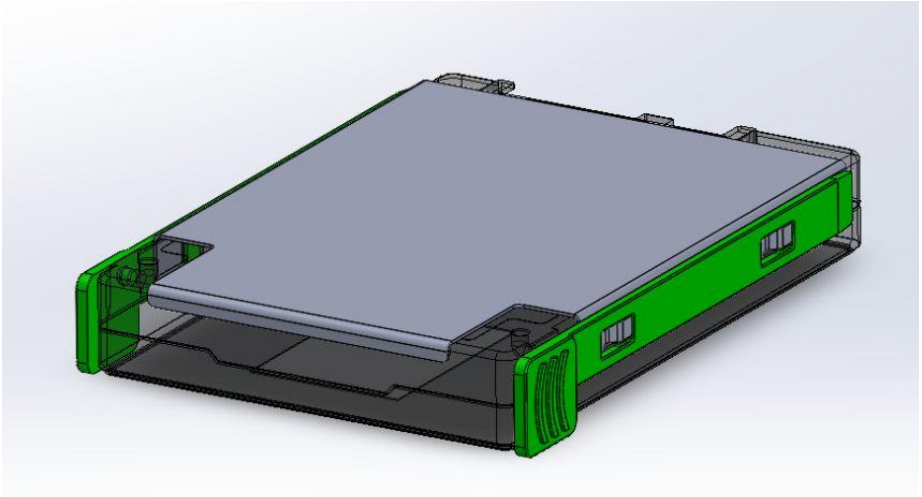
OFPv1 - A focus on serviceability



Finalizing design now

Tool-less service

- Remove sled
- Remove lid
- Remove drive pack
- Remove drive
- Replace drive
- Insert drive pack
- Install lid
- Install sled

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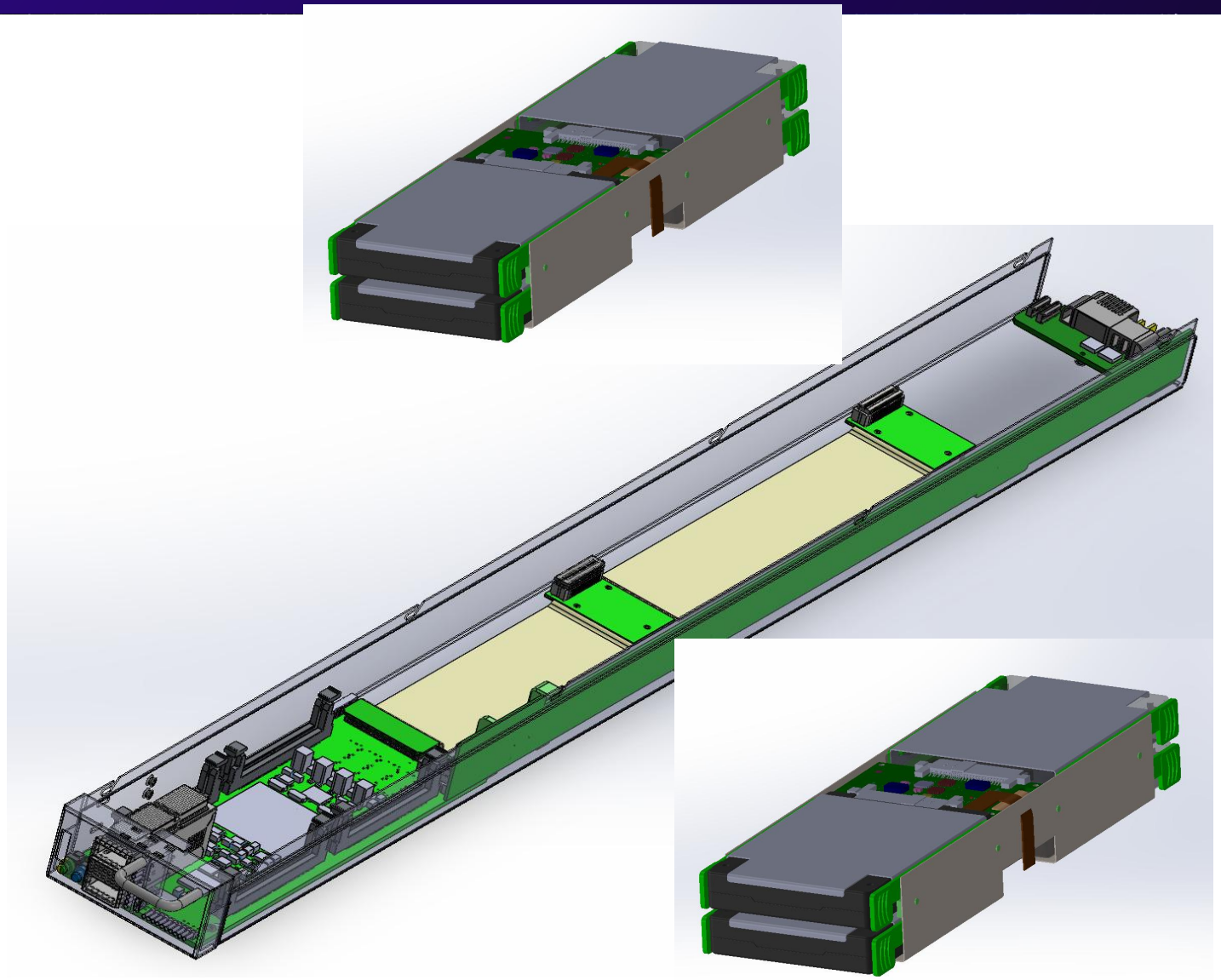
OFPv1 - 2 x (4 x U.2 drive packs)



Design updates

- Moved to next gen flex cables
- Improvement for manufacturing

Firmware

- In development
- Key features
  - OCP compliant
  - Out-of Band mgmt
    - via 1GbE in Tray
  - In-Band/Side-Band mgmt
    - via 2 x 400GbE in sled

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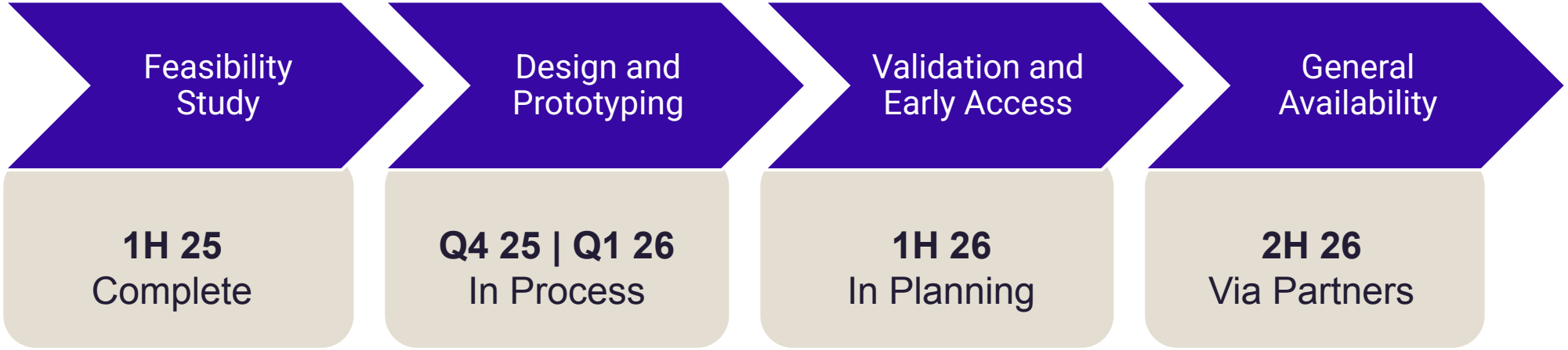
Projected OFP v1 Timeline



Note: OFP Timelines are projected

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Open Compute Platform Status

- Hammerspace is now a member
- Plan to submit OFPv1 design

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Roadmap to the Full OFP Vision

2026		Future	
OFPv1	OFPv1.1	OFPv2	OFPv3

5 x (8 x U.2) Standard Rack

Standard rack

- AC power supplies

6 x (8 x U.2) OCP Rack

v1 sled design in OCP width tray

- DC power supplies

6 x (10 x SSD) Form Factor TBD

A new SSD standard required for vision of 1EB in a rack

U.2 is limiting

- PCIe Gen5
- Density
- Existing form factors don't help

OFP opens new form factor possibilities due to:

- No hot swap requirement
- Shape enables new packaging

Network Connected SSD

Removing additional barriers between compute and media

Enables

- Faster direct access
- Lower power consumption
- Fewer components to fail

Delivery requires

- A new way to connect drive to switch
- A standard approach to access

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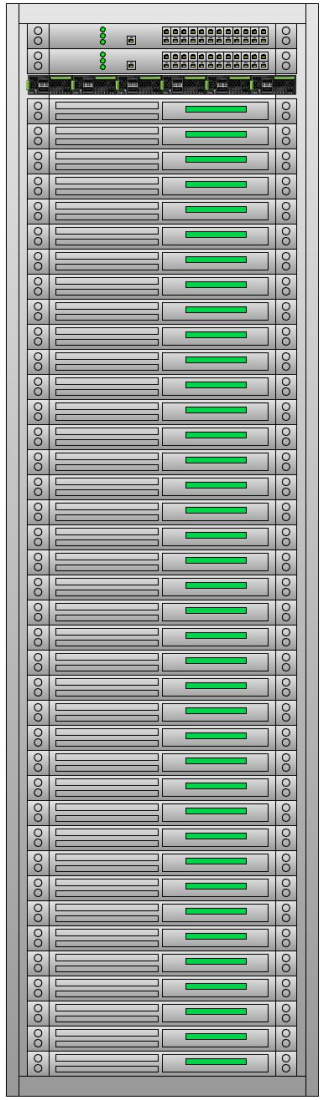
Feedback Discussion

Deployment Types

Unstructured data deployments



Warm Tier

- Erasure coding across sleds
- Faster than HDD with low touch and power usage
- Becomes faster when Client side Erasure Coding add to NFS clients

Fast Tier

- Client side Mirroring across sleds
- High performance with lower power consumption

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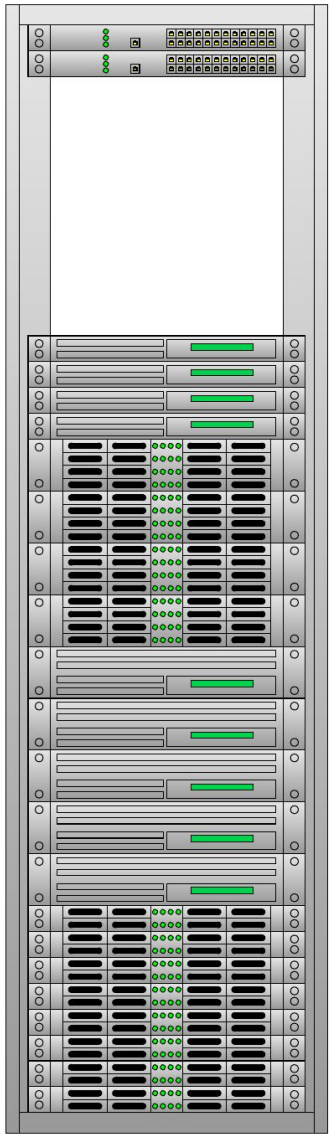
Local block storage today



Challenges

- Multiple drives sizes to provision
- Most are overprovisioned
- Multiple server types with different drive configurations
- Work to maintain consistent images across each server
- Limited power per rack

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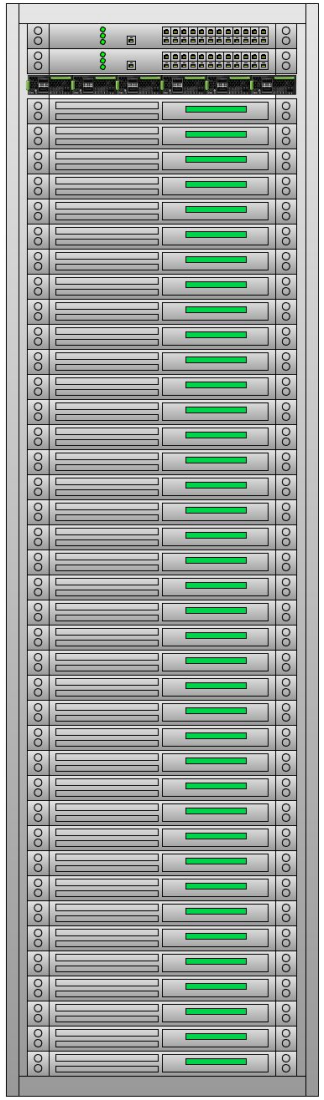
Local block storage with OFP



Faster provisioning and simpler to manage

- No waiting for boot or log drives
- More efficient use of flash
- Few servers types to build and service
- Image management greatly simplified
- Higher compute density with reduce power consumption

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Call to Action

Ask to the community

- Please look for survey to share ideas for future topics

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Thank You!

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