IU & NDDI Updates

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IU Deployment

- Expanding Production Deployment

  - Big Switch + HP

- Adding New Switches to Lab Deployment

  - 3-4 New Vendors

- Improving Monitoring

InCNTRE

- SDN Lab
  - Testing with Flowvisor, NOX, Beacon
  - OpenFlow Training
- Network Research
- Summer of Networking Internship Program

Other Activities

- NANOG Workshop

- SCinet Research Sandbox

- IDS Load Balancer

What is NDDI ?

- Network Development & Deployment Initiative

- Internet2, IU, and Clean Slate Program at Stanford University

- Mission: Create a new network platform and complementary software, which together will support global scientific research in a revolutionary new way

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  - Priority queuing & scavenger - but most traffic best-effort

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- Internet2 Seven Focus Areas

  - Advanced Network Leadership

  - Research Community Development and Engagement

  - Industry Partnership Development and Engagement

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- Extend Reach of NDDI and OS³E Globally Through Strategic Collaborative Engagement

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- Engage network research community in NDDI as place to pursue at-scale network research

- Engage commercial community in definition of SDN and impact the development of commercial SDN products

- Create foundation for open-source project through which R&E community can develop SDN-based services

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- Precipitating Complementary Activity Globally to Extend Reach of NDDI and OS³E Internationally

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- July: Close to Announcing Controller/Switch Selection, SW Dev. Beginning

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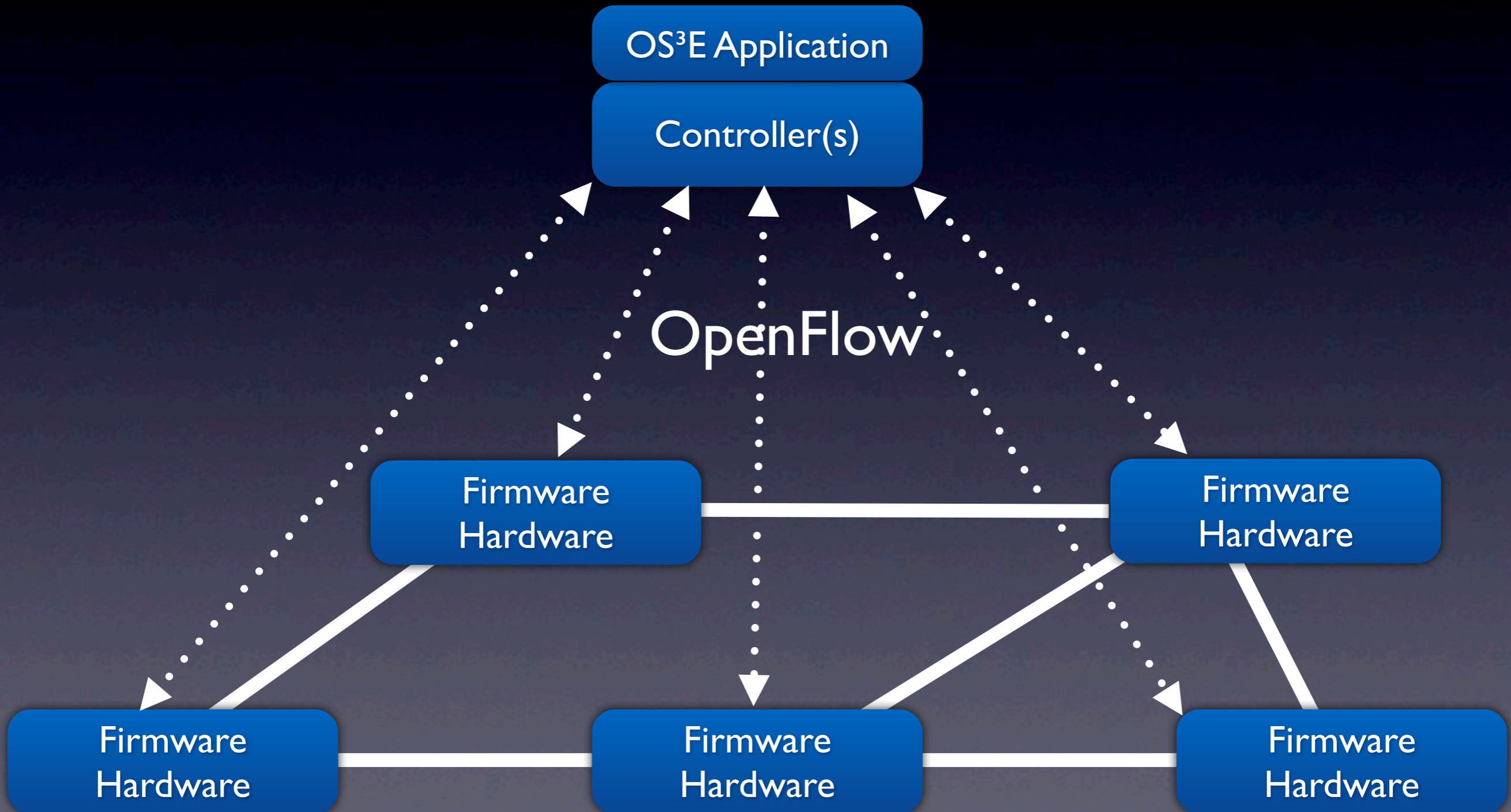 - ION Enhanced to Support Permanent Reservations

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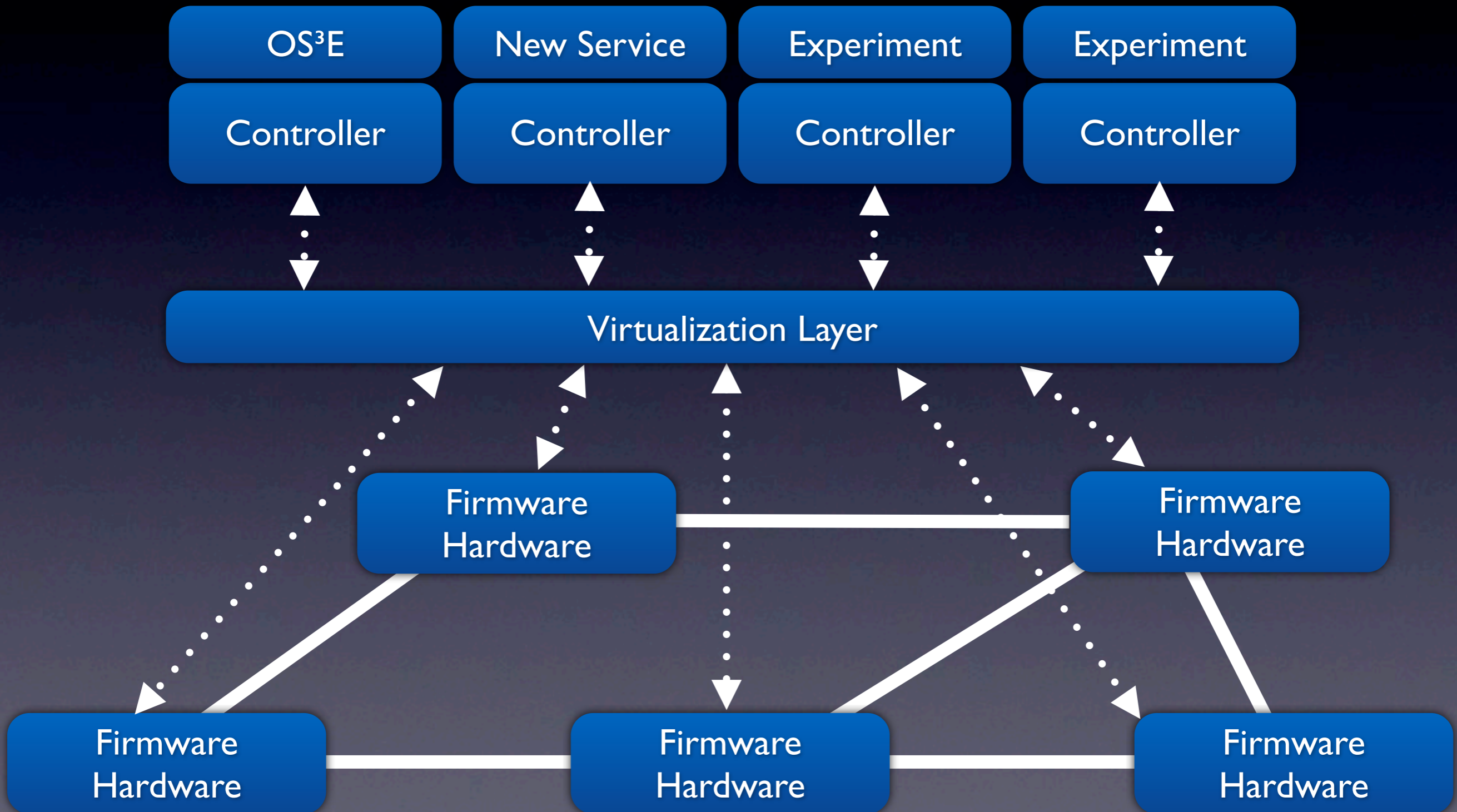
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    - Early Adopters and Testers

    - First Release of NDDI/OS³E Open-Source Software

NDDI Architecture (Phase 1)

OS³E Application

Controller(s)

OpenFlow

Firmware Hardware

Firmware Hardware

Firmware Hardware

Firmware Hardware

Firmware Hardware

NDDI Architecture
(Possible Phase 2)

Links

- incntre.iu.edu

- www.internet2.edu/nddi

- Blog: iunetworking.blogspot.com

- Twitter: @mpdavyiu