

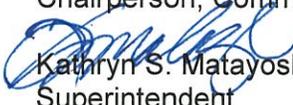


STATE OF HAWAII
DEPARTMENT OF EDUCATION
P.O. BOX 2360
HONOLULU, HAWAII 96804

OFFICE OF THE SUPERINTENDENT

November 17, 2015

TO: The Honorable Grant Chun
Chairperson, Committee on Finance and Infrastructure

FROM:  Kathryn S. Matayoshi
Superintendent

SUBJECT: **Presentation on Department of Education's Computer Network Upgrade**

1. DESCRIPTION

Update on the Department's network projects to improve online experience for teachers and students.

2. UPDATE OR PRESENTATION

Presentation on the:

- a. increase of internet bandwidth capacity
- b. upgrade of the network capacity to schools
- c. implementation of monitoring tools
- d. increase in network reliability
- e. future network initiatives to continue improving online experience

KSM:CSS:lm
Attachment

c: Office of Information Technology Services

**Finance and Infrastructure Committee
November 17, 2015
Presentation on Department of Education's
Computer Network Upgrade**

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1

2015 Activities

- Multiple network projects to improve online experience for teachers and students
 - Increase internet bandwidth capacity
 - Upgrade network capacity to schools
 - Implement network and application monitoring
 - Increase network reliability

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2

Increase Internet Bandwidth Capacity

- From 2010 to 2015, OITS increased the DOE bandwidth from 0.3Gbs to 8Gbs
 - 2010: Increased from 300Mbs to 600Mbs
 - 2011: Increased from 600Mbs to 1Gbs
 - 2012: Increased from 1Gs to 2Gbs
 - 2014: Increased from 2Gs to 4Gbs
 - Increased from 4Gs to 8Gbs

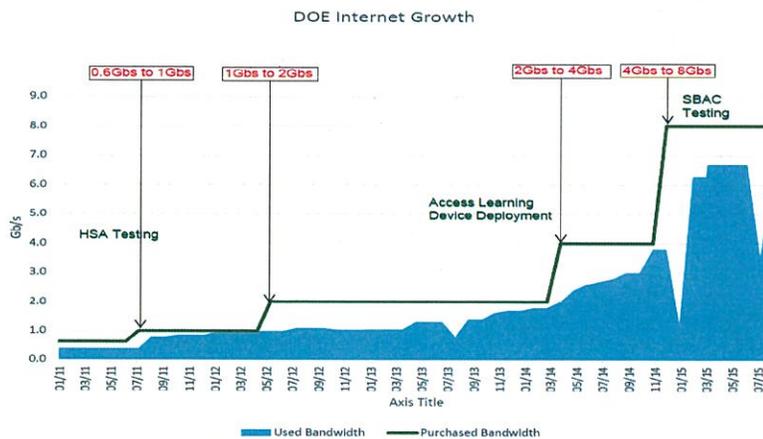
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3

Increase Internet Bandwidth Capacity



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4

Implement Network and Application Monitoring

- OITS can see network traffic and congestion
- OITS can provide proactive assistance by identifying and resolving network issues before users are impacted
- Installed and implemented monitoring tools



Increase Network Reliability

- With 2 new data centers, the DOE will improve its service and network reliability
 - Queen Liliuokalani Campus Data Center
 - Hookele School Data Center



Next Steps

- Continue to review and assess bandwidth needs
- Continue to enhance monitoring capabilities
- Migration and consolidation of servers, applications, etc. to new data centers



Questions

