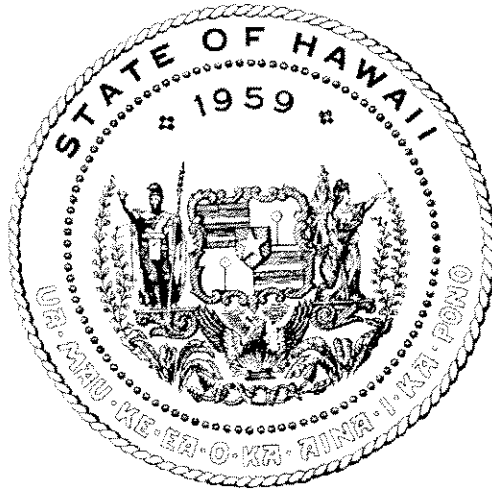




Institutional Network (“INET”)
Report

Prepared by the
CABLE TELEVISION DIVISION
DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS
STATE OF HAWAII

December 2008

Institutional Network Report for 2008

Section 111 of Act 213, Sessions Laws of Hawaii 2007 states "Provided that of the special fund appropriation for cable television (CCA 102), the sum of \$2,400,000 or so much thereof as may be necessary for fiscal year 2007-2008 shall be expended for the expansion and update of the state institutional network (INET); provided further that the funds shall be expended as directed by the INET partners group, which includes the University of Hawaii, department of education, department of accounting and general services' information and communication services division, and department of commerce and consumer affairs; and provided further that the department of commerce and consumer affairs shall submit a report to the legislature detailing the expenditure of these funds no later than twenty days prior to the convening of the 2008 and 2009 regular sessions."

Attached is a report submitted by the University of Hawaii dated November 19, 2008 ("Report") on behalf of the INET Partners regarding recent activities relating to the expansion and update of the Institutional Network ("INET"). Also attached is a copy of the Agreement for Institutional Network (INET) Interconnections and Funding signed by the INET Partners and dated May 16, 2007 ("Agreement").

The Agreement states four (4) goals:

- 1) Re-groom the Oahu core INET fiber ring to significantly reduce the number of add-drop locations in order to improve overall reliability, optical performance, and stability.
- 2) Increase inter-island capacity for each of the INET partners from OC-3 to up to two GigE connections.
- 3) Support the deployment of new sites based on set-aside funding requirements for Hawaii Health Systems Corporation and DOE locations.
- 4) Substantially increase the overall number of connected locations among the three operational INET partners (i.e., DOE, UH, and ICSD).

The Agreement also identifies INET sites categorized into 4 priority groups. This list of sites will be continuously updated as sites are connected and new sites are added.

The November 19, 2008 Report submitted by the University of Hawaii on behalf of the INET Partners provides an update on the most recent activities relating to the INET goals and the approximately 166 planned sites. Significant efforts were made in 2008 relating to the Agreement's first two (2) goals. Capacity of the inter-island submarine was increased by approximately seven (7) times, from 155Mbps to 1Gbps. Additionally, re-grooming of the Oahu rings is underway and will result in increased performance and reliability for the INET Partners.

UNIVERSITY OF HAWAII

Information Technology Services
Technology Infrastructure

NOV 19 2008

November 19, 2008

7:00 PM 11/19/08

Memo to: Clyde Sonobe, Administrator
CATV Division, DCCA

From: Garret Yoshimi, Director

Subject: INet Expansion Status

The effort expand the INet infrastructure continues in accordance with the memorandum of understanding between the INet partners, the Department of Commerce and Consumer Affairs, Department of Education, Department of Accounting and General Services and the University of Hawaii. Oceanic Time Warner Cable continues to implement the directed expansion of the INet infrastructure.

As of November 2008, a number of additional facilities have been connected to the INet infrastructure, and the planned upgrade of inter-island submarine capacity was completed and transitioned into service. Work continues to progress to extend the INet connectivity to the planned additional sites. Oceanic Time Warner Cable has also been advised that they have been cleared to access an acceptable path crossing the H-1 at Queen Emma Street; this will enable work on the planned second Honolulu backbone to proceed. This "mauka" backbone will support the majority of DOE locations in the Honolulu area, and will greatly simplify the current East Honolulu metro ring.

As noted in the status report, a number of sites are pending Joint Pole Application approval, typically awaiting Hawaiian Telcom (as the Joint Pole owner) approval. The current status of the INet expansion effort is shown on the attached worksheet. The right-most status column reflects updates for those facilities where progress has been made over the last few months. The statuses shown are as follows:

- Facilities Walkthrough: Oceanic engineers are in the process of reviewing the condition and availability of facilities along the proposed cable route to determine whether pole loading, conduit or other issues may exist.
- Pole Loading Study: Based on the information gathered during the Facilities Walkthrough, complete the necessary analysis to support the Joint Pole application.
- JP Application <date>: Joint Pole application submitted on <date>.
- JP Application Approved: Joint Pole application has been approved.
- Cable Installed: Cable has been placed along the proposed cable route, including into the desired demarcation location, and is ready for termination, testing and connection to local network interfaces.
- Complete: INet extension complete and turned over to INet partner.

Please feel free to call me at 956-4566 if you have any questions on this matter.

SiteName	Dept	SiteAdr	Item	SiteSt	SiteCity	SiteCity	Status: Nov 2007	Status: Nov 2008
Alamano Middle	DOE	3271		Salt Lake	Bl	Oahu		
Central Middle	DOE	1302		Queen Emma	St	Oahu		
Dole Middle School	DOE	1803		Kam IV	Rd	Oahu	Cable Installed	
Kaimuki Middle School	DOE	631		18th	Av	Oahu	Pole Loading Study	Waiting for HT
Kaiser High School**	DOE	511		Lunalilo Home	Rd	Oahu		
Kalaka Middle School	DOE	821		Kalihi	St	Oahu		
Kawanakoa Middle	DOE	49		Funchal	St	Oahu		
Moanalua Middle	DOE	1289		Mahele	St	Oahu		
Noelani Elementary School	DOE	2655		Woodlawn	Dr	Oahu		JP App 8/1
Radford High School	DOE	4361		Salt Lake	Bl	Oahu		
Roosevelt High School	DOE	1120		Nehoa	St	Oahu		Waiting for HT
Stevensen Intermediate	DOE	1202		Prospect	St	Oahu		
Washington Middle	DOE	1633	S	King	St	Oahu		
Kalaheo High School	DOE	730		Iliaina	St	Oahu	Facilities Walkthrough	Pending walkout
Mililani High School	DOE	95-1200		Meheula	Pk	Oahu	Cable Installed	
Waipahu High School	DOE	94-1211		Farrington	Hy	Oahu	Facilities Walkthrough	Pending walkout
Campbell High School	DOE					Oahu	Facilities Walkthrough	Pending walkout
Aiea High School	DOE	98-1276		Ulune	St	Oahu		
Hawaii District Office Annex C	DOE	450		Waanuenue	Av	Big		
Hilo High School	DOE	556		Wainuenue	Av	Big		
Hilo Intermediate School	DOE	587		Waiuanuene	Av	Big		
Honokaa High School	DOE	45-527		Pakalana	St	Big	Complete	
Keaau High School	DOE	16-725		Keaau-Pahoa	Rd	Big		
Kealahou Intermediate School	DOE	74-5062		Onipaa	St	Big		
Konawaena High School	DOE	81-1043		Konawaena	Rd	Big		
Pahoa High	DOE	15-3038		Puna	Rd	Big		
Baldwin High School	DOE	1650		Kaahumanu	Av	Maui		
Kahului Elementary School	DOE	410	S	Hina	Hy	Maui		
Kalama Intermediate School	DOE	120		Makani	Rd	Maui		
Kekaulike High School	DOE	121		Kula	Hy	Maui		
Kihei Elementary School	DOE	250	E	Lipoa	St	Maui		
Lokelani Intermediate Schol	DOE	1401		Liloa	Dr	Maui		
Waimea Canyon Elementary & Intermediate	DOE	9555		Hunakai	St	Kauai		
DR Site - DAGS	DAGS	No				Big		
Hemmeter Bldg - DAGS	DAGS	250	S	Hotel	St	Oahu	*Duct Pathway Unavailable	
Hilo Medical Center	HHSC	1190		Waiuanuene	Av	Big	Fiber placed	
Hale Ho'ola Hamakua - HHSC	HHSC	45-547		Plumeria	St	Big		
Kohala Hospital	HHSC	54-383		Hospital	Rd	Big	Complete	
HHSC - Kona Community Hospital	HHSC	79-1019		Haukapila	St	Big		
Ka'u Hospital	HHSC	1		Kamani	St	Big		Pending fiber installation
HHSC - Samuel Mahelona Memorial Hospital	HHSC	4800		Kawaihau	Rd	Kauai		
Kauai Veteran Memorial Hospital	HHSC	4646		Waimea	Rd	Kauai	Complete	
Lanai Community Hospital	HHSC	628		Seventh	St	Lanai		Complete
Kula Hospital	HHSC	201		Kula	Hy	Maui		Complete
Maui Memorial Medical Center	HHSC	221		Mahalani	St	Maui	Complete	
Leahi Hospital	HHSC	3675		Kilauea	Ave	Oahu		JP App 6/2008

SiteName	Dept	SiteAdr	SiteSt	SiteCity	SiteLand	SiteCity	Status	Status
Maui Waena Intermediate School	DOE	795	Onehee	St	Maui	Kahului	Nov 2007	Nov 2008
Kamalii Elementary	DOE	180	Kealii		Maui	Kihei		
Kula Elementary	DOE	5000	Kula	Hy	Maui	Kula		
Kamehameha III Elementary	DOE	611	Front	St	Maui	Lahaina		
Lahaina Intermediate School	DOE	871	Lahinaluna	Rd	Maui	Lahaina		
Nahienaena Elementary	DOE	816	Niheu	St	Maui	Lahaina		
Makawao Elementary	DOE	3542	Baldwin	Av	Maui	Makawao		
Paia Elementary	DOE	955	Baldwin	Av	Maui	Paia		
Pukalani Elementary	DOE	2945	Iolani	St	Maui	Pukalani		
Iao Intermediate School	DOE	260	Market	St	Maui	Wailuku		
Waihee Elementary School	DOE	2125	Kahekili	Hy	Maui	Wailuku		
Wailuku Elementary School	DOE	355	South	St	Maui	Wailuku		
Hawaii Community College	UH	New			Big	Hilo		
University of Hawaii - West Hawaii	UH	New			Big	Kona		
Kalaheo Hanger 111 (Honolulu CC)	UH				Oahu	Kapolei		
Hawaiian Studies	UH				Oahu	Honolulu		
University of Hawaii - West Oahu	UH				Oahu	Kapolei		
Keoneula Elementary	DOE				Oahu	Honolulu		
Hawaii Public Housing Authority (to Lili)	ICSD/HHA	1002 N	School	St	Oahu	Honolulu		Waiting to splice
Building 303 Diamond Head	ICSD/SCD	335	Merchant	St	Oahu	Honolulu		
Kalakaua Building (to Keelikolani)	ICSD/DCCA	641	Mua	St	Maui	Kahului		
Maui Vector Control (to DAGS)	ICSD/DOH	3860	Manoa	Rd	Oahu	Honolulu		
Lyon Arboretum (via Ifa, MIC to UH-Keller)	UH	2680	Woodlawn	Dr	Oahu	Honolulu		
Institute for Astronomy	UH	2800	Woodlawn	Dr	Oahu	Honolulu		
Manoa Innovation Center	UH	2777	Woodlawn	Dr	Oahu	Honolulu		
Waikiki Aquarium	UH	1291-A	Kalakaua	Av	Oahu	Honolulu		
Kohala Center Conference Room	UH	96-3126	Kawaihae	Rd	Big	Waimea		
Ka'u Rural Health Center	UH		Pauhala		Big	Pahala		
Keawe Health Ctr - DOH	DOH	46	Keawa	St	Big	Hilo		
Waiakea Health Ctr - DOH	DOH	191	Kuawa	St	Big	Hilo		
Keakealani - DOH	DOH	79-1020	Haukapila	St	Big	Kealahou		
Kona Health Ctr - DOH	DOH	79-1015	Haukapila	St	Big	Kealahou		
Wailuku Health Ctr - DOH	DOH	121	Mahalani	St	Maui	Wailuku		
Vector Control - DOH	DOH	99-945	Halawa Valley	St	Oahu	Aiea		
Ala Moana Health - DOH	DOH	591	Ala Moana	Bl	Oahu	Honolulu		
Diamond Head Health Ctr - DOH	DOH	3627	Kilauea	Ave	Oahu	Honolulu		
Lanakila Health Ctr - DOH	DOH	1700	Lanakila	Ave	Oahu	Honolulu		
Trotter Bldg - DOH	DOH	3650	Maunalei	Ave	Oahu	Honolulu		
Wilcox Annex - DOH	DOH	741	Sunset	Ave	Oahu	Honolulu		
State Hospital - DOH	DOH	45-710	Kealahou	Rd	Oahu	Kaneohe		Complete
Windward Health Ctr - DOH	DOH	45-691	Kealahou	Rd	Oahu	Kaneohe		
Leeward Health Ctr - DOH	DOH	860	Fourth	St	Oahu	Pearl City		
Waimano Hosp - DOH	DOH	2201	Waimano Home	Rd	Oahu	Pearl City		Complete - Spur from DOH

SiteName	Dept	SiteAdr	SiteSt	SiteCity	Status	Status	Status
Hilo International Airport	DOT	No		Hilo			
Kona International Airport at Keahole	DOT	No		Kailua-Kona			
Highways DO(Lihue)	DOT	1720	Haleukana	Big			
Lihue Airport	DOT	No	Street	St			
Kahului Airport	DOT	No	Street	Kauai			
H3 Tunnel	DOT	No		Maui			
Harbors Police - Nimitz Hwy	DOT	705	Nimitz	Oahu		Complete - Spur from	
Highways DO	DOT	727	Kakoi	Hy			
Honolulu International Airport	DOT	300	Rodgers	St		Complete - Spur from	
Pier 1 EDSO	DOT			Oahu			
Pier 1 EMCC	DOT			Oahu			
Hilo APD	JUD		Kilauea	St			
Hilo Family Court	JUD		Kekuakua	Big			
Waimea Dist Court	JUD	64-5000-64-	Kamamalu	St			
Kona Dist Court	JUD	79-1020	Haukapila	St			
Puna Court House	JUD	16-200	Pili	St			
Waimea FC/APD	JUD			Big			
Koloa Dist Court	JUD	3461	Wellwelli	Rd			
Kauai APD	JUD			Kauai			
Kauai CC Annex	JUD			Kauai			
Kauai Dist Court	JUD	3970	Ka'ana	St			
Kauai Licke Bldg	JUD			Kauai			
Lanai Court	JUD	312	Eight	St			
Maui APD	JUD	2050	Main	St			
Lahaina Dist Court	JUD	1870	Honoapiilani	Hy			
Molokai Family Court	JUD		Ala Malama	Molokai			
Molokai Dist Court	JUD	55	Makaena	St			
Kapolei Court Bldg	JUD	3019	Pali	Oahu			
Child Advocacy Ctr	JUD	902	Adler	Hwy			
Defention Home	JUD	345	Queen	St			
OPG	JUD	1624	Hart	St			
Records Mgmt	JUD	45-939	Pookela	St			
JUD - Kaneohe Dist Court	JUD	870	Fourth	St			
Ewa Dist Court	JUD	1034	Kilani	Av			
Wahiawa Dist Court	JUD	87-1784	Farrington	Hy			
Waianae Dist Court	JUD			Oahu			

**AGREEMENT FOR
INSTITUTIONAL NETWORK (INET)
INTERCONNECTIONS AND FUNDING**

This "Agreement for Institutional Network (INET) Interconnections and Funding" ("**Agreement**") is entered into on May 16, 2007 between the: (1) Cable Television Division of the State of Hawaii ("**State**") Department of Commerce and Consumer Affairs ("**DCCA**"), (2) University of Hawaii ("**UH**"), (3) Department of Education ("**DOE**"), and (4) the Information and Communication Services Division ("**ICSD**") of Department of Accounting and General Services ("**DAGS**"). Collectively, these State agencies shall be referred to as the "**INET partners**".

RECITALS

WHEREAS, the Institutional Network ("**INET**") is a fiber-based network that is utilized by government and educational institutions for telecommunications purposes, and is the infrastructure that allows the INET partners to implement various telecommunication-based services (including but not limited to teleconferencing, email, internet access, two-way video, Homeland security, etc.);

WHEREAS, the INET is provided and maintained by the cable operators (e.g., Time Warner Entertainment, L.P. ("**TWE**")) pursuant to various cable television franchise orders or Decisions and Orders ("**D&O**") issued by DCCA;

WHEREAS, the INET partners have various sites around the State that are currently connected to the INET;

WHEREAS, the INET partners can request that the cable operators interconnect new sites to the INET;

WHEREAS, the cable operators and other entities charge fees to make a new INET interconnection; and

WHEREAS, the INET partners desire to enter into an agreement to describe the procedure to request and the process to pay for the new INET interconnections.

AGREEMENT

In consideration of the mutual promises and covenants below, the INET partners hereby agree as follows:

A. Introduction

1. The INET partners collaboratively develop strategies to continuously develop and expand the INET.

2. Each INET partner shall identify and prioritize their potential additions to the current INET sites based on their determined needs.
3. The INET partners then mutually decide on the eventual implementation of new INET sites based on need and available funding.
4. DCCA coordinates communication between the INET partners and the cable operators, and provides partial funding for the selected projects.

B. INET Goals

1. Goal # 1: Re-groom the Oahu core INET fiber ring to significantly reduce the number add-drop locations in order to improve overall reliability, optical performance, and stability.
 - a. This shall be accomplished by implementing a new, parallel fiber backbone to support Oahu DOE sites.
 - b. The parallel fiber backbone shall be interconnected with the Oahu core INET fiber ring at one or two interconnection points.
2. Goal # 2: Increase inter-island capacity for each of the INET partners from OC-3 to up to two GigE connections.
3. Goal # 3: Support the deployment of new sites based on set-aside funding requirements for Hawaii Health Systems Corporation and DOE locations.
4. Goal # 4: Substantially increase the overall number of connected locations among the three operational INET partners (i.e., DOE, UH, and ICSD).
5. A comprehensive list of INET expansion sites described in Goals # 3 and 4 is provided in Exhibit "A" to this Agreement.
 - a. Exhibit "A" consists of: (1) "DOE I-NET Expansion Plan 2006-2011", (2) "DOE I-NET Phased Implementation Strategy", and (3) "INET Implementation Priority List".
 - b. Exhibit "A" is incorporated into and made a part of this Agreement.
 - c. The INET partners intend to continuously update and amend Exhibit "A". Notwithstanding any other provision to the contrary, the INET partners may amend Exhibit "A" at any time without executing a Supplemental Agreement.

C. Specific INET Partners' Responsibilities

1. DCCA

- a. DCCA's role is to assist in the funding of new INET sites when such funding is available, and to facilitate the implementation and expansion of INET activities through its regulatory responsibilities via the cable television franchises issued to the cable operators.
- b. Although DCCA is currently not involved in the selection of INET sites by the other INET partners, DCCA does contribute input in prioritization and implementation matters.

2. UH

- a. UH shall coordinate the overall expenditure of funds to carry out the requirements of this Agreement. Thus, DCCA, DOE, and ICSD shall provide funds directly to UH to carry out the requirements of this Agreement.
- b. UH shall work with the INET partners to fairly manage any financial implications that may result from changes in specific costs while honoring the agreed-upon INET expansion priorities.
- c. UH shall oversee the implementation work of the cable operators and other entities to expand the INET sites.

D. Funding of the INET interconnections

The following are all subject to prior legislative appropriation and approval, and may be modified at any time by the appropriate INET partner:

1. Fiscal Year 2007

- a. DCCA shall provide approximately ONE MILLION AND NO/100 DOLLARS (\$1,000,000.00) to UH to accomplish the goals specified in this Agreement; and
- b. UH, DOE, DAGS, and DCCA shall provide approximately TWO HUNDRED FIFTY THOUSAND AND NO/100 DOLLARS (\$250,000) each (for an approximate total of \$1,000,000.00) to UH to accomplish the goals specified in this Agreement.

2. Fiscal Year 2008

- a. DCCA intends to provide approximately TWO MILLION FOUR HUNDRED THOUSAND AND NO/100 DOLLARS (\$2,400,000.00) to UH to accomplish the goals specified in this Agreement; and
- b. UH, DOE, DAGS, and DCCA also intend to provide additional funding (as available) to UH to accomplish the goals specified in this Agreement.

3. Fiscal Years 2009 and Beyond

The INET partners intend to provide additional funding (as available) to UH to accomplish the goals specified in this Agreement, including the provision of INET connectivity to Charter Schools as may be agreed to by the INET partners.

4. The timing and method of payment of the above amounts of funding shall be mutually agreed to between the INET partner providing the funding and UH.
5. Additional funding may be provided by each individual INET partner to complete additional sites that are included in Exhibit "A", as amended pursuant to this Agreement.

E. Term of this Agreement and Renewal

1. This Agreement shall be effective from May 16, 2007 to May 15, 2012 (i.e., for five (5) years).
2. Thereafter, this Agreement shall be automatically renewed on an annual basis.

F. Modification and Termination of this Agreement

1. This Agreement may be modified at any time by written mutual agreement between all of the INET partners, and any such modification shall be done via Supplemental Agreement.
2. This Agreement may be terminated at any time by written mutual agreement between all of the INET partners.
3. Any of the INET partners may withdraw from this Agreement by providing at least one hundred eighty (180) days written notice to the other INET partners.

G. Entire Agreement

This Agreement constitutes the entire agreement between the INET partners on the matters described herein and supersedes any and all prior representations, understandings, and agreements (oral or written) between the INET partners.

**DEPARTMENT OF COMMERCE
AND CONSUMER AFFAIRS**



Lawrence M. Reifurth
Director of Commerce
and Consumer Affairs

Date: May 16, 2007

UNIVERSITY OF HAWAII

David McClain
President

Date: _____

**DEPARTMENT OF ACCOUNTING
AND GENERAL SERVICES**

Russ Saito
Comptroller

Date: _____

DEPARTMENT OF EDUCATION

Patricia Hamamoto
Superintendent

Date: _____

APPROVED AS TO FORM:

Deputy Attorney General

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**DEPARTMENT OF COMMERCE
AND CONSUMER AFFAIRS**

Lawrence M. Reifurth
Director of Commerce
and Consumer Affairs
Date: _____

**DEPARTMENT OF ACCOUNTING
AND GENERAL SERVICES**


Russ Saito
Comptroller
Date: 5/10/07

UNIVERSITY OF HAWAII

David McClain
President
Date: _____

DEPARTMENT OF EDUCATION

Patricia Hamamoto
Superintendent
Date: _____

APPROVED AS TO FORM:

Deputy Attorney General

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**DEPARTMENT OF COMMERCE
AND CONSUMER AFFAIRS**

Lawrence M. Reifurth
Director of Commerce
and Consumer Affairs
Date: _____

UNIVERSITY OF HAWAII



David McClain
President
Date: 5/7/07

**DEPARTMENT OF ACCOUNTING
AND GENERAL SERVICES**

Russ Saito
Comptroller
Date: _____

DEPARTMENT OF EDUCATION

Patricia Hamamoto
Superintendent
Date: _____

APPROVED AS TO FORM:

Deputy Attorney General

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**DEPARTMENT OF COMMERCE
AND CONSUMER AFFAIRS**

Lawrence M. Reifurth
Director of Commerce
and Consumer Affairs
Date: _____

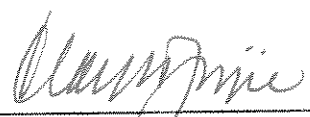
**DEPARTMENT OF ACCOUNTING
AND GENERAL SERVICES**

Russ Saito
Comptroller
Date: _____

UNIVERSITY OF HAWAII

David McClain
President
Date: _____

DEPARTMENT OF EDUCATION



Patricia Hamamoto
Superintendent
Date: _____

MAY 01 2007

APPROVED AS TO FORM:

Deputy Attorney General

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**DEPARTMENT OF COMMERCE
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Lawrence M. Reifurth
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**DEPARTMENT OF ACCOUNTING
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Russ Saito
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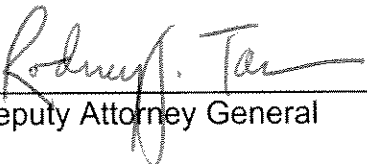
UNIVERSITY OF HAWAII

David McClain
President
Date: _____

DEPARTMENT OF EDUCATION

Patricia Hamamoto
Superintendent
Date: _____

APPROVED AS TO FORM:



Deputy Attorney General

DOE I-NET EXPANSION PLAN
2006-2011

	A	B	C	D
1	2006-2007 OAHU	2007-2008 OAHU	2008-2009 OAHU	2009-2011 OAHU
2				
3	Aiea High School	Holomua Elementary	Waianae Intermediate	Jarret Middle
4	Kaiser High School*	Kaimuki Middle School	Waipahu Intermediate	Kaahumanu Elementary
5	Kalaheo High School	Noelani Elementary School	Aiea Intermediate	Kahala Elementary
6	Mililani High School	Aliamanu Middle	Central Middle	Kapalama Elementary
7	Radford High School	August Ahrens Elementary	Ewa Elementary	Lunalilo Elementary
8	Roosevelt High School	Dole Middle School	Kawanakoa Middle	Maemae Elementary
9	Waipahu High School	Highland Intermediate	Nanaikapono Elementary	Manoa Elementary
10	Cambell High	Ilima Intermediate	Niu Valley Middle	Wilson Elementary
11	*Oceanic needs to find poll/conduit space	Kailua Intermediate	Wahiawa Middle	Aliamanu Elementary
12		Kaikakua Middle School	Waimanalo Elementary & Intermediate	Helemano Elementary
13		Mililani Ike Elementary	Waipahu Elementary	Kipapa Elementary
14		Moanalua Middle	Washington Middle	Makalapa Elementary
15		Keoneolu Elementary		Moanalua Elementary
16				Pearl Harbor Elementary
17	HAWAII	HAWAII	HAWAII	Pearl Ridge Elementary
18	Hawaii District Office Annex C	Kaau Middle School	Kau High & Pahala Elementary	Solomon Elementary
19	Hilo High School	Kealahou Elementary School	Keaau Elementary	Waialua Elementary
20	Hilo Intermediate School	Konawaena High School	Waiakea Elementary School	Mililani Waena Elementary
21	Honokaa High School	Pahoa High	Waiakea Intermediate School	Mililani Mauka Elementary
22	Keaau High School			Mililani Uka Elementary
23	Kealahou Intermediate School			Salt Lake Elementary
24				Wheeler Middle
25	MAUI	MAUI	MAUI	Wheeler Elementary
26	Baldwin High School	Maui Lani Elementary School	Haiku Elementary	Iroquois Elementary
27	Kahului Elementary School	Iao Intermediate School	Kamalii Elementary	Mali Elementary
28	Kalama Intermediate School	Lihikai Elementary School	Kamehameha III Elementary	Makakilo Elementary
29	Kekaulike High School	Maui Waena Intermediate School	Kula Elementary	Pohakea Elementary
30	Kihei Elementary School	Wailuku Elementary School	Makawao Elementary	Waianae Elementary
31	Lokelani Intermediate Schol		Nahienaena Elementary	Leihoku Elementary
32			Paia Elementary	Kamaile Elementary
33			Pukalani Elementary	Honowai Elementary
34			Waihee Elementary School	Kaimiloa Elementary
35				Kanoelani Elementary
36	KAUAI	KAUAI	KAUAI	Mauka Lani Elementary

DOE I-NET EXPANSION PLAN
2006-2011

	A	B	C	D
1	2006-2007	2007-2008	2008-2009	2009-2011
37	Waimea Canyon Elementary & Intermediate	Kapaa Elementary School	Hanalei Elementary School	Kaleiopuu Elementary
38		Eleele Elementary School	Kekaha Elementary School	Waiau Elementary
39		Kaumualii Elementary School	Kilauea Elementary School	Waialele Elementary
40	* Oceanic needs to find conduit space.	Kalaheo Elementary School	Koloa Elementary School	Aikahi Elementary
41				Heeia Elementary
42				Kainalu Elementary
43				Kaneohe Elementary
44				Kapunahala Elementary
45				Keolu Elementary
46				Mokapu Elementary
47				Kahuku Elementary
48				
49				HAWAII
50				Hilo Union Elementary
51				Holualoa Elementary
52				Honokaa Elementary
53				Kalanionele El & Interm
54				Kapiolani Elementary
55				Kahakai Elementary
56				Kohala High
57				Kohala Middle
58				Kohala Elementary
59				Konawaena Middle
60				Konawaena Elementary
61				Laupahoehoe High & El
62				Mt. View Elementary
63				Waieawaena
64				Keonepoko Elementary
65				Waikoloa Elementary

DOE I-NET PHASED IMPLEMENTATION STRATEGY

PHASE	Schools included	Reasoning
1	High schools	The DOE I-Net topology is 'Hub and Spoke' network where the high school sites serves as hubs in the I-Net backbone network. High schools generally are larger and generate more network traffic than the lower grade schools. High school serves as the center of the school complex for the lower grade schools.
	Schools requiring high network capacity applications	Schools engaged in operating applications that require high capacity network, such as multimedia applications.
	Schools located in the backbone I-Net pathway	School located in the path of the I-Net backbone link shorten the fiber links in between the two connection points and will lessen the requirements for light regeneration.
2	Schools where no high capacity network service is NOT available from the service providers, but I-Net connection is reasonably feasible	High capacity network is generally not available for many of the neighbor island schools from the commercial network service providers. I-Net connection capacity is reasonably available for most schools in Kauai and Maui.
	Schools requiring high network capacity applications	Schools may not be large, but engage in operating network applications that require high capacity at the time of this implementation phase.
	Middle and Intermediate schools	Middle/intermediate schools are generally larger and generate larger volume of network traffic. Some use multimedia applications requiring high network capacity
	Elementary schools with very large enrollment (around 1000)	The very large elementary schools generate high volume of network traffic.
3	Elementary schools with large enrollment (around 500 -900)	Large elementary schools generate high volume of network traffic.
	Schools requiring high network capacity applications	Schools with lower enrollment, but engage in operating network applications that require high capacity at the time of this implementation phase.
4	Rest of the schools	All schools where I-Net connectivity is feasible at this phase will be implemented.

INET Implementation Priority List

SiteName	Dept	SiteAdr	SiteD	SiteSt	SiteIsland	SiteCity
Priority Group 1						
Aliamanu Middle	DOE	3271		Salt Lake	Oahu	Honolulu
Central Middle	DOE	1302		Queen Emma	Oahu	Honolulu
Dole Middle School	DOE	1803		Kam IV	Oahu	Honolulu
Kaimuki Middle School	DOE	631		18th	Oahu	Honolulu
Kaiser High School**	DOE	511		Lunalilo Home	Oahu	Honolulu
Kalakaua Middle School	DOE	821		Kalihi	Oahu	Honolulu
Kawanakoa Middle	DOE	49		Funchal	Oahu	Honolulu
Moanalua Middle	DOE	1289		Mahole	Oahu	Honolulu
Noelani Elementary School	DOE	2655		Woodlawn	Oahu	Honolulu
Radford High School	DOE	4361		Salt Lake	Oahu	Honolulu
Roosevelt High School	DOE	1120		Nehoa	Oahu	Honolulu
Stevensen Intermediate	DOE	1202		Prospect	Oahu	Honolulu
Washington Middle	DOE	1633	S	King	Oahu	Honolulu
Kalaheo High School	DOE	730		Iliaina	Oahu	Kailua
Milliani High School	DOE	95-1200		Meheula	Oahu	Milliani
Waipahu High School	DOE	94-1211		Farrington	Oahu	Waipahu
Campbell High School	DOE				Oahu	Ewa Beach
Aiea High School	DOE	98-1276		Ulune	Oahu	Aiea
Hawaii District Office Annex C	DOE	450		Waanuenue	Big Island	Hilo
Hilo High School	DOE	556		Wainuenue	Big Island	Hilo
Hilo Intermediate School	DOE	587		Waiuanene	Big Island	Hilo
Honokaa High School	DOE	45-527		Pakalana	Big Island	Honokaa
Keaau High School	DOE	16-725		Keaau-Pahoa	Big Island	Keaau
Kealahou Intermediate School	DOE	74-5062		Onipaa	Big Island	Kailua-Kona
Konawaena High School	DOE	81-1043		Konawaena	Big Island	Kealahou
Pahoa High	DOE	15-3038		Puna	Big Island	Pahoa
Baldwin High School	DOE	1650		Kaahumanu	Maui	Wailuku
Kahului Elementary School	DOE	410	S	Hina	Maui	Kahului
Kalama Intermediate School	DOE	120		Makani	Maui	Makawao
Kekaulike High School	DOE	121		Kula	Maui	Pukalani
Kihei Elementary School	DOE	250	E	Lipoa	Maui	Kihei
Lokelani Intermediate School	DOE	1401		Liloa	Maui	Kihei
Waimea Canyon Elementary & Intermediate	DOE	9555		Hunakai	Kauai	Waimea

INET Implementation Priority List									
SiteName	Dept	SiteAdr	SiteD	SiteSt	SiteTyp	SiteIsland	SiteCity		
DR Site - DAGS	DAGS	No				Big Island	Hilo		
Hemmeter Bldg - DAGS	DAGS	250	S	Hotel	St	Oahu	Honolulu		
Hilo Medical Center	HHSC	1190		Waianuenue	Av	Big Island	Hilo		
Hale Ho'ola Hamakua - HHSC	HHSC	45-547		Plumeria	St	Big Island	Honoka'a		
Kohala Hospital	HHSC	54-383		Hospital	Rd	Big Island	Kapaau		
HHSC - Kona Community Hospital	HHSC	79-1019		Haukapila	St	Big Island	Kealahou		
Ka'u Hospital	HHSC	1		Kamani	St	Big Island	Pahala		
HHSC - Samuel Mahelona Memorial Hospital	HHSC	4800		Kawaihau	Rd	Kauai	Kapaa		
Kauai Veteran Memorial Hospital	HHSC	4646		Waimea	Rd	Kauai	Waimea		
Lanai Community Hospital	HHSC	628		Seventh	St	Lanai	Lanai		
Kula Hospital	HHSC	201		Kula	Hy	Maui	Kula		
Maui Memorial Medical Center	HHSC	221		Mahalani	St	Maui	Wailuku		
Leahi Hospital	HHSC	3675		Kilauea	Ave	Oahu	Honolulu		
Maluhia	HHSC	1027		Hala	Dr	Oahu	Honolulu		
North Hawaii Research and Education Center	UH	45-593		Plumeria	St	Big Island	Honokaa		
Institute for Astronomy - Kula	UH	Aapueo			Pk	Maui	Kula		
Priority Group 2									
Kona SOB - DAGS	DAGS	79-1020		Haukapila	St	Big Island	Kealahou		
Aloha Stadium - DAGS	DAGS	99-500		Salt Lake	Bl	Oahu	Honolulu		
Waipahu Civic Center - DAGS	DAGS	94-275		Mokuola	St	Oahu	Waipahu		
Bio Chem Lab	DOA	2725		Waimano Home	Rd	Oahu	Pearl City		
Waiakea Elementary School	DOE	180	W	Puainako	St	Big Island	Hilo		
Waiakea Intermediate School	DOE	200	W	Puainako	St	Big Island	Hilo		
Kealahou Elementary School	DOE	74-5118		Kealahou	St	Big Island	Kailua-Kona		
Keaau Elementary	DOE	16-680		Keaau-Pahoa	Rd	Big Island	Keaau		
Keaau Middle School	DOE	15-565		Keaau-Pahoa	Rd	Big Island	Keaau		
Laupahoehoe High School	DOE			Hawaii Belt	Rd	Big Island	Laupahoehoe		
Kau High & Pahala Elementary	DOE	96-3150		Pikake	St	Big Island	Pahala		
Aiea Intermediate	DOE	99-600		Kulawea	St	Oahu	Aiea		
Ewa Elementary	DOE	91-1280		Renton	Rd	Oahu	Ewa Beach		
Holomua Elementary	DOE	91-1561		Keaunui	Dr	Oahu	Ewa Beach		
Ilima Intermediate	DOE	91-884		Fort Weaver	Rd	Oahu	Ewa Beach		
Ocean Pointe Elementary	DOE	91-970		Kaileolea	Dr	Oahu	Ewa Beach		

INET Implementation Priority List						
SiteName	Dept	SiteAdr	SiteD	SiteSt	SiteIsland	SiteCity
Niu Valley Middle	DOE	310		Halemau	Oahu	Honolulu
Kailua Intermediate	DOE	145	S	Kainalu	Oahu	Kailua
Milliani Ike Elementary	DOE	95-1330		Lehiwa	Oahu	Milliani
Highland Intermediate	DOE	1460		Hoolaulea	Oahu	Pearl City
Wahiawa Middle	DOE	275		Rose	Oahu	Wahiawa
Nanaikapono Elementary	DOE	89-153		Mano	Oahu	Waianae
Waianae Intermediate	DOE	85-626		Farrington	Oahu	Waianae
Waimanalo Elementary & Intermediate	DOE	41-1330		Kalaniana'ole	Oahu	Waimanalo
August Ahrens Elementary	DOE	94-1170		Waipahu	Oahu	Waipahu
Waipahu Elementary	DOE	94-465		Waipahu	Oahu	Waipahu
Waipahu Intermediate	DOE	94-455		Farrington	Oahu	Waipahu
Eleele Elementary School	DOE	4750		Uluuli	Kauai	Eleele
Hanalei Elementary School	DOE	5-5414		Kuhio	Kauai	Hanalei
Kalaheo Elementary School	DOE	4400		Maka	Kauai	Kalaheo
Kapaa Elementary School	DOE	4886		Kawihau	Kauai	Kapaa
Kekaha Elementary School	DOE	8140		Kekaha	Kauai	Kekaha
Kilauea Elementary School	DOE	2440		Kolo	Kauai	Kilauea
Koloa Elementary School	DOE	3223		Poipu	Kauai	Koloa
Kaumualii Elementary School	DOE	4380		Hanamaulu	Kauai	Lihue
Haiku Elementary	DOE	105		Pauwela	Maui	Haiku
Lihikai Elementary School	DOE	335		South	Maui	Kahului
Maui Lani Elementary School	DOE			Onehee	Maui	Kahului
Maui Waena Intermediate School	DOE	795		Kealii	Maui	Kihei
Kamalili Elementary	DOE	180		Kula	Maui	Kula
Kula Elementary	DOE	5000		Front	Maui	Lahaina
Kamehameha III Elementary	DOE	611		Lahinaluna	Maui	Lahaina
Lahaina Intermediate School	DOE	871		Niheu	Maui	Lahaina
Nahienaena Elementary	DOE	816		Baldwin	Maui	Makawao
Makawao Elementary	DOE	3542		Baldwin	Maui	Paia
Paia Elementary	DOE	955		Iolani	Maui	Pukalani
Pukalani Elementary	DOE	2945		Market	Maui	Wailuku
Iao Intermediate School	DOE	260	S	Kahekili	Maui	Wailuku
Waihee Elementary School	DOE	2125		South	Maui	Wailuku
Wailuku Elementary School	DOE	355			Maui	Wailuku

INET Implementation Priority List									
SiteName	Dept	SiteAdr	SiteSt	SiteCity	SiteCity	SiteCity	SiteCity	SiteCity	SiteCity
Hawaii Community College	UH	New		Big Island Hilo	Big Island Hilo				
University of Hawaii - West Hawaii	UH	New		Big Island Kona	Big Island Kona				
Kalaheo Hanger 111 (Honolulu CC)	UH			Oahu Kapolei	Oahu Kapolei				
Hawaiian Studies	UH			Oahu Honolulu	Oahu Honolulu				
University of Hawaii - West Oahu	UH			Oahu Kapolei	Oahu Kapolei				
Priority Group 3									
Keawe Health Ctr - DOH	DOH	46	Keawa	Big Island Hilo	Big Island Hilo				
Waiakea Health Ctr - DOH	DOH	191	Kuawa	Big Island Hilo	Big Island Hilo				
Keakealani - DOH	DOH	79-1020	Haukapila	Big Island Kealahou	Big Island Kealahou				
Kona Health Ctr - DOH	DOH	79-1015	Haukapila	Big Island Kealahou	Big Island Kealahou				
Wailuku Health Ctr - DOH	DOH	121	Mahalani	Maui Wailuku	Maui Wailuku				
Vector Control- DOH	DOH	99-945	Halawa Valley	Oahu Aiea	Oahu Aiea				
Ala Moana Health - DOH	DOH	591	Ala Moana	Oahu Honolulu	Oahu Honolulu				
Diamond Head Health Ctr - DOH	DOH	3627	Kilauea	Oahu Honolulu	Oahu Honolulu				
Lanakila Health Ctr - DOH	DOH	1700	Lanakila	Oahu Honolulu	Oahu Honolulu				
Trotter Bldg - DOH	DOH	3650	Maunalei	Oahu Honolulu	Oahu Honolulu				
Wilcox Annex - DOH	DOH	741	Sunset	Oahu Honolulu	Oahu Honolulu				
State Hospital - DOH	DOH	45-710	Kealahala	Oahu Kaneohe	Oahu Kaneohe				
Windward Health Ctr - DOH	DOH	45-691	Kealahala	Oahu Kaneohe	Oahu Kaneohe				
Leeward Health Ctr - DOH	DOH	860	Fourth	Oahu Pearl City	Oahu Pearl City				
Waimano Hosp - DOH	DOH	2201	Waimano Home	Oahu Pearl City	Oahu Pearl City				
Priority Group 4									
Hilo International Airport	DOT	No		Big Island Hilo	Big Island Hilo				
Kona International Airport at Keahole	DOT	No		Big Island Kailua-Kona	Big Island Kailua-Kona				
Highways DO(Lihue)	DOT	1720	Haleukana	Kauai Lihue	Kauai Lihue				
Lihue Airport	DOT	No	Street	Kauai Lihue	Kauai Lihue				
Kahului Airport	DOT	No	Street	Maui Kahului	Maui Kahului				
H3 Tunnel	DOT			Oahu	Oahu				
Harbors Police - Nimitz Hwy	DOT	705	Nimitz	Oahu Honolulu	Oahu Honolulu				
Highways DO	DOT	727	Kakoi	Oahu Honolulu	Oahu Honolulu				
Honolulu International Airport	DOT	300	Rodgers	Oahu Honolulu	Oahu Honolulu				
Pier 1 EDSO	DOT			Oahu Honolulu	Oahu Honolulu				

INET Implementation Priority List							
SiteName	Dept	SiteAdr	SiteD	SiteSt	SiteIsland	SiteCity	
Pier 1 EMCC	DOT				Oahu	Honolulu	
Hilo APD	JUD			Kilauea	St	Big Island Hilo	
Hilo Family Court	JUD			Kekuaknaoa		Big Island Hilo	
Waimea Dist Court	JUD	64-5000-64-		Kamamalu	St	Big Island Kamuela	
Kona Dist Court	JUD	79-1020		Haukapila	St	Big Island Kealahou	
Puna Court House	JUD	16-200		Pili	St	Big Island Keau	
Waimea FC/APD	JUD					Big Island Waimea	
Koloa Dist Court	JUD	3461		Welliwelli	Rd	Kauai	
Kauai APD	JUD					Kauai	
Kauai CC Annex	JUD					Kauai	
Kauai Dist Court	JUD	3970		Ka'ana	St	Kauai	
Kauai Licke Bldg	JUD					Kauai	
Lanai Court	JUD	312		Eight	St	Lanai	
Maui APD	JUD					Maui	
Lahaina Dist Court	JUD	1870		Honoapiilani	Hy	Maui	
Molokai Family Court	JUD					Molokai	
Molokai Dist Court	JUD	55		Makaena	St	Molokai	
Kapolei Court Bldg	JUD					Oahu	
Child Advocacy Ctr	JUD	3019		Pali	Hwy	Oahu	
Detention Home	JUD	902		Adler	St	Oahu	
OPG	JUD	345		Queen	St	Oahu	
Records Mgmt	JUD	1624		Hart	St	Oahu	
JUD - Kaneohe Dist Court	JUD	45-939		Pookela	St	Oahu	
Ewa Dist Court	JUD	870		Fourth	St	Oahu	
Wahiawa Dist Court	JUD	1034		Kilani	Av	Oahu	
Waianae Dist Court	JUD	87-1784		Farrington	Hy	Oahu	