Strategic IT Accountability Board
9:00 – 10:00 a.m., August 28, 2015, Stark Library

I. Network Architecture Changes – Endorse (William Green)


III. Cyber Infrastructure Funding – Update (William Green)

IV. Zero-Based Budget – Update (Brad Englert)

V. 2015-2016 Longhorn Innovation Fund for Technology – Update (Brad Englert, Christy Tran)
Network Architecture Change - Endorse

Overview
Networking is introducing new architecture and funding models to support increased compliance and security demands, while managing complexity, capability and cost.

Changes
A. Architectural:
   1) Introduction of virtual campus network layers (Figure 1)
   2) Consolidation of product lines to support new layers
   3) Implement shared infrastructure for small sites to reduce costs (Figure 2)

B. Funding:
   1) Small sites move to rental model for building router
   2) A new layer requires recurring funding commitments from its users

Why Now
• Compliance/Security: audit finding for the Facilities Network; medical school needs
• Maturity: maturation of technology used to create layers; support across more of the inventory
• Savings: estimate 20% for small sites ($1M over 6 years); made possible by new product line
• Funding: UT System $500K grant; recurring funding from users of four new layers

Endorsements: Operations IT Committee and Architecture and Infrastructure Committee
4. Network Architecture Change - Endorse

**Figure 1**

Single Layer  

Multiple Layers

**Figure 2**

Core Layer  

Distribution Layer  

Access Layer
BACS Operations Manual – Endorse

Overview
The Building Access Control and Security (BACS) Operations Manual codifies how those systems are managed and supported at the university.

Specifics
An IT Governance Business Services Committee (BSC) Task Force made up of Campus Safety, Liberal Arts, McCombs, Moody, Natural Sciences and ITS oversaw development of this manual, along with review and requirements from the Information Security Office and Office of Internal Audit. Key points include:

1. Security standards, requirements and oversight are defined for different types of spaces
2. Campus Safety is the owner and ultimate decider for BACS services
3. Governance is through BSC and Campus Safety and Security Committee
4. ITS is responsible for operations, in consultation with applicable University Operations units as noted
5. Units have responsibilities for operations of delegated components
6. BACS is supported primary through fees:
   a. Units requiring security fund that security
   b. External door support, not installation, is provided as a Common Good
   c. False alarm fees are instituted to ensure proper usage
7. Financial impact: new construction/renovation must adhere to new classifications, or as required by authority (e.g. Audit, EH&S, ISO)

Next steps
$3M BACS Remediation; form committees (policy/appeals); new security system

Endorsements: Campus Safety and Security Committee, Operations IT Committee, Business Services Committee
Cyber Infrastructure Funding - Update

Overview

At the August UT System Board of Regents meeting, funding was approved for cyber infrastructure projects directly supporting UT Austin and its IT Governance initiatives.

Projects

A. Research Computing – TACC ($14M):
   1) Refresh and expansion of data repository
   2) Additional cloud and analytics capacity (Lonestar 5)
   3) Support, tools development, data curation and training

B. Connectivity – OTS and ITS ($7M):
   1) Increase UT System state backbone network from 20G to 100G
   2) Increase UT Austin connection to external world to 100G
   3) Add resilient 100Gbps connection for TACC

C. Data Center – ITS ($3M):
   1) Refresh data center network (from 1G to 10G for servers)
   2) Add colocation capacity for other UT System institutions
   3) Enhance electrical systems
Information Technology Services (ITS) Zero-Based Budget – Update

In 2009, the Strategic IT Advisory Committee asked ITS to develop a zero-based budget. The SITAC report also recommended we update the zero-based budget every five fiscal years, which was recently completed. The goal of the zero-based budget process is to evaluate and prioritize ITS projects and services and be more transparent and accountable to campus. Before any service is added or retired, that service is evaluated in terms of the services currently offered and the resources available. Aging, underutilized or not-secure services are retired and funds are reallocated to higher value IT services. Rates for ITS services are also reviewed every two years to verify that the actual costs are offered at fair and competitive rates--set by the Chief Financial Officer’s rate setting team--that are easily accessible on the ITS website. ITS focuses on continual improvement and have conversations with the campus community via IT governance to understand which IT services could be delivered better, more cost effectively, and faster.

From fiscal years 2009 to 2013, 44 services have been introduced and more than 30 services have been retired.

Over the past five fiscal years, ITS added new services, addressed growth, and increased value in the face of a constant-level budget. From fiscal years 2010 to 2015, 44 new ITS services have been introduced and more than 30 services have been retired. Examples of new services are UT Login, UTmail, Canvas, Box, Qualtrics, and VoIP. Examples of retired services are University Mail Box Service, Fat Cookie, laptop check-out, printer repair, and Blackboard.

Over the past five fiscal years, ITS added new services, addressed growth, and increased value in the face of a constant-level budget.

A detailed report is available in the Reports section of the Chief Information Office website: https://www.utexas.edu/cio/updates.
More than 30 proposals were submitted for the 2015-2016 Longhorn Innovation Fund for Technology Award competition. The proposals came from across campus and included several first-time proposers. Ultimately, $457,569 was allocated to five proposals selected for funding.

### 2015-2016 Longhorn Innovation Fund for Technology Awardees

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interactive Anatomic System Dashboard (IASD)</strong></td>
<td>Robert Ligon, Health Informatics &amp; Health IT; Luis Francisco-Reveilla, PhD,</td>
</tr>
<tr>
<td></td>
<td>Texas Advanced Computing Center; Y.W. Francis Lam, PharmD, Department of</td>
</tr>
<tr>
<td></td>
<td>Pharmacology &amp; UT HSC; Kavita Radhakrishnan, PhD, UT School of Nursing;</td>
</tr>
<tr>
<td></td>
<td>Zacharia Varghese, MD, Health Informatics &amp; Health IT</td>
</tr>
<tr>
<td><strong>The Scaling and Enhancing Location-Based Learning and Aesthetic Experiences</strong></td>
<td>Bruce Pennycook, College of Fine Arts: CEAT; Paul Toprac, GAMMA Program</td>
</tr>
<tr>
<td><strong>Simulated Training in Evidence-based Practice for Stuttering (STEPS)</strong></td>
<td>Courtney Byrd, Founding Director of Michael and Tami Lang Stuttering Institute, Moody College of Communications</td>
</tr>
<tr>
<td><strong>Solar Energy Visualization System</strong></td>
<td>Beth Ferguson, Visiting Research Scholar &amp; Sol Design Lab Director; Jack</td>
</tr>
<tr>
<td></td>
<td>Risley, Chair, Department of Art and History; Kevin Chandra, Cockrell School</td>
</tr>
<tr>
<td></td>
<td>of Engineering; Karen Blaney, Office of Sustainability, Program Coordinator;</td>
</tr>
<tr>
<td></td>
<td>Anna Wittenmyer, Cockrell School of Engineering; Delia Brownson, Biology</td>
</tr>
<tr>
<td></td>
<td>Instructional Office, CNS</td>
</tr>
<tr>
<td>**Virtual Reality for Journalists – An open-source virtual reality framework for</td>
<td>Simon Su, Texas Advanced Computing Center; R.B. Brenner, The School of</td>
</tr>
<tr>
<td>experiential storytelling**</td>
<td>Journalism</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>