SUMMARY FOR ARCHITECTURE & NEW TECHNOLOGY COMMITTEE
DATE: February 26, 2018
TIME: 10 a.m. – 12 p.m.
LOCATION: Dumke Room, Eccles Broadcast Center

IN ATTENDANCE:
Mark Beekhuizen  Pieter Bowman  Joe Breen  Steve Dean
Tim Ebner  Jeff Folsom  Matt Harting  Matt Irsik
John Levandowski  Jim Livingston  Jim Logue  Chris Roberts
Steven Seal  Jon Thomas  Daniel Trentman  Rob White
Thomas Wolfe

COMMITTEE SUPPORT: Scott Sherman, Emily Rushton

UNABLE TO ATTEND:
Rebwar Baesmat  Derick Bingman  David Blackburn  Demian Hanks
Sylvia Jessen  Josna Kotturappa  Wes Tolman

AGENDA ITEMS DISCUSSED:
• Introduction of new UIT associate directors
• Student computer lab usage data dictionary
• Options for moving faculty to O365
• Introducing UCloud, the U’s new hybrid cloud service
• UConnect on RFC 1918 space revisited
• Open floor

Introduction of new UIT associate directors

Randy Arvay, Chief Information Security Officer, introduced the new associate director over Identity and Access Management: Chris Stucker.

Mike Ekstrom, director for UIT Network and Communications Infrastructure, introduced the new associate director over Unified Communications: James Rice.

Student computer lab usage data dictionary

Jon Thomas, director for Teaching and Learning Technologies, reviewed the statistics collected by 18 computer labs across campus from Nov. 1 to Dec. 15, 2017, and explained some of the difficulties experienced in collecting the data. Some labs simply didn’t provide any data; some did, but expressed concerns with the accuracy and validity of the data and/or the statistics software (in most cases, LabStats). Thomas asked ANTC to weigh in on the possibility of a working group defining a data dictionary to specify what statistics labs should be required to provide in the future.
One member questioned the reasoning behind gathering lab statistics at all, and another member explained that data is driving most decisions at the administrative level. If data is not defined or identified for labs across campus, there’s a risk that important decisions will be made concerning labs without any supporting data.

After further discussion, the group was unable to come to a consensus, and it was decided that the committee chair and IT director for Quinney College of Law, Mark Beekhuizen, would initiate discussions with key members of the original lab statistics working group before bringing the topic back for further discussion at a future ANTC meeting.

**Options for moving faculty to O365**

Mike Ekstrom, director for UIT Network and Communications Infrastructure, presented the next steps for migrating University email accounts to Office365 (O365). He explained that cloud email is industry standard practice, but there are challenges with this because not all of the U’s email environment works well in the cloud (specifically, the ability to view and change calendars in real time is diminished due to the latency caused from the cloud to desktop email clients). Ekstrom explained that his department has successfully migrated 130,000 student email accounts to O365 and asked ANTC for guidance on how to approach moving faculty email accounts.

The committee spent some time discussing the pros and cons of moving faculty email accounts to the cloud, the cost (which is financially neutral), the technical aspects of cloud vs. on-premise, and the difficulties in moving employees who need the live calendaring feature (currently not functional through the cloud). Finally, CTO Jim Livingston suggested addressing this issue on a department-by-department basis, working with IT professionals on whether the faculty in their organization should be moved to O365. Another member suggested creating a decision flow chart to help decide who should be migrated, and there was general agreement on this idea. Ultimately, Ekstrom agreed to come back to ANTC to discuss this topic again at a future date.

**Introducing UCloud, the U’s new hybrid cloud service**

Jim Livingston, Chief Technology Officer, presented on the U’s new university-owned, on-premise, private cloud service: UCloud. Livingston equated the U’s current, traditional environment to the Toyota Prius — a good solution that gets the job done. But UCloud is a paradigm shift — similar to a Tesla. The downtown data center is moving to software-defined “everything,” with complete orchestration and automation. Livingston explained that UCloud will cost less than public cloud services, specifically for enterprise-level applications and services.

He walked through screenshots of the user experience and showed the cost model for the service in comparison with two leading cloud providers. The U’s traditional environment will stay in place until
the hardware lifecycles out, with support remaining the same during that time. Livingston also answered questions regarding cost model, initial funding sources, and future plans to add Linux distributions to the working profile. The new technology has only been available to UIT and ITS employees, but will be opened to the rest of the university on March 30 with orderable services via a self-service portal accessed from ServiceNow.

**UConnect on RFC 1918 space revisited**

Trevor Long, associate director for UIT Network and Core within UIT Network and Communications Infrastructure, presented a recommendation from the Network Architecture Community of Practice regarding moving the general UConnect service over to private IP space to address the issue of running out of public IP addresses on campus. The network group has estimated there won’t be enough contiguous public addresses to meet demand by Fall 2018.

The committee spent some time discussing this, with one member in particular stating that the first bullet point in Long’s justification document was incorrect, and others in the room saying it was correct. After some general back-and-forth, committee Chairman Mark Beekhuizen motioned to approve the project moving UConnect to RFC 1918 space and the justification document as it was currently written with no changes. The motion was seconded, and voted in favor to approve, with a single opposition vote.

**Open floor**

Randy Arvay, Chief Information Security Officer, briefly spoke about the problem of Duo two-factor authentication (2FA) users electing to use the telephone option for 2FA. This method incurs extra costs for the university and has been an ongoing issue. Arvay’s team has attempted to educate the community against using this option with little success, so he’ll be bringing the issue back to the Strategic Information Technology Committee for discussion.

Jim Livingston, Chief Technology Officer, mentioned that the Outlook client for Android and iOS has been turned on for university users. It was previously it was blocked for security reasons that have since been remedied.

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<th>Action</th>
<th>Topic</th>
<th>Person/Group</th>
<th>Next step</th>
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<td>Approved</td>
<td>UConnect on RFC 1918 space</td>
<td>Committee</td>
<td>UIT will move the general UConnect service over to RFC 1918 private IP space to address the issue of running out of public IP addresses.</td>
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