

**SUMMARY FOR ARCHITECTURE AND NEW TECHNOLOGY COMMITTEE**

**DATE: November 26, 2018**

**TIME: 10:00 a.m. – 12:00 p.m.**

**LOCATION: Eccles Broadcast Center, Dumke Room**

**IN ATTENDANCE:**

Mark Beekhuizen	Peter Bowman	Tim Ebner	Jeff Folsom
Demian Hanks	Steve Hess	Matt Irsik	Sylvia Jessen
Jim Logue	Jim Livingston	Jon Thomas	Thomas Wolfe

**COMMITTEE SUPPORT:** Jesse Drake, Emily Rushton

**UNABLE TO ATTEND:**

Rebwar Baesmat	Derick Bingman	David Blackburn	Joe Breen
Steven Dean	Matt Harting	Sylvia Jessen	Josna Kotturappa
Chris Roberts	Steven Seal	Wes Tolman	Rob White

**AGENDA ITEMS DISCUSSED:**

- Expanding campus alerts with desktop notifications
- Geographic Information Systems (GIS) subcommittee
- UMail migration 2016
- Cellular on campus
- Network Architecture Community of Practice update

**Expanding campus alerts with desktop notifications**

Stuart Moffatt, associate director for Emergency Management Services in the Department of Public Safety, presented a proposal to expand the capability of Campus Alert (the university's mass notification system) to include notifications to desktops in student, staff, and faculty spaces on lower campus. The initiative has leadership support from University President Dr. Ruth Watkins, as well as from the university's Situation, Triage and Assessment Team (STAT). Though the Campus Alert process is reviewed regularly, Moffatt said that the recent homicide of a university student elevated the need for a new alert method.

Campus Alert currently has various notification delivery methods, including a mobile application, social media, email, and most effectively, SMS. Moffatt said that the text-based method is capable of delivering 75,000 alerts in three to five minutes.

The committee approved Moffatt's proof of concept. He will conduct a pilot program with a small number of campus groups/departments and IT professionals to deploy and test the additional desktop method, leveraging an existing Alertus Technologies license managed by U Health. The pilot will gather feedback on how the notification push interacts with desktop applications, with special consideration given to the potential impact on patient care.

## **Geographic Information Systems (GIS) subcommittee**

Dan Thornley, associate director for Quality Assurance in University Support Services, gave a brief history on the current state of Global Information Systems (GIS) at the university and proposed the creation of a UGIS subcommittee to address the U's GIS strategy, as well as prioritize the various GIS project requests on campus.

GIS services on campus began with the establishment of the DIGIT Lab, an auxiliary facility of the U's Department of Geography, in 1987. In 2008, a GIS team was established in Facilities Management (FM). In 2014, one of the first major GIS projects not directly associated with Facilities issues was the creation of a campus map for the University Marketing & Communications group. Since that time, there have been several other campus-wide, GIS-based projects, including a wireless coverage map, an IT services status map, campus security cameras, and a campus fiber optic location map. This fall, due to employee turnover and other factors, key stakeholders determined that the best way forward would be to transition back-end GIS personnel into UIT.

Thornley shared the subcommittee charter and explained the driving force behind the subcommittee, namely, more closely integrating GIS with critical UIT resources and services, providing more transparency, and better coordinating GIS activities. The largest consumer of GIS at the U is FM, but other groups have expressed GIS needs as well. Demian Hanks, IT director in the College of Social & Behavioral Science, recommended that Thornley reach out to DIGIT Lab administrators for more information about existing ArcGIS licenses and space planning data. Ultimately, ANTC voted to approve Thornley's request to create the subcommittee.

## **UMail migration 2016**

Mike Ekstrom, director for Network and Communications Infrastructure, updated the committee on the timing and next steps regarding a backend environment upgrade for UMail. To date, 1,440 users have elected to switch over to Microsoft Exchange 2016, a small fraction of the 237,000 users at the university with email in an Exchange environment. Ekstrom went over some Issues specific to the 2016 version that have been reported, and explained how UIT is addressing them. In addition, a Microsoft engineer was recently assigned to UIT, and is helping to remediate any lingering issues. UIT is not forcing migrations. A timeline and communications plan are being developed for an eventual conversion sometime in 2019. This was an information-only item.

## **Cellular on campus**

Ekstrom presented an update on cellular coverage at Rice-Eccles Stadium following the first full season with Verizon, AT&T and T-Mobile on the stadium's distributed antenna system. Ekstrom also presented an update on Utah SB189, the Small Wireless Facilities Deployment Act, which passed this last legislative session. The bill gives wireless cell carriers the right to petition cities for access to install small-scale antennas on existing infrastructure, under certain conditions. Ekstrom said that the concern remains that any entity claiming to be carrier can request being added to a campus antenna, particularly in a prime location, then charging other carriers. He said that UIT is engaged with the Office of Space Planning & Management and the Office of General Counsel to develop a design standard for the use of university antennas. This was an information-only item.

**Wi-Fi strategy update**

Trevor Long, associate director for UIT Network & Core, delivered a progress update on the university’s wireless network strategy. UConnect as a 5GHz-only network is now the baseline frequency in 28 campus buildings, with 15 more scheduled for 2019. 5GHz-only makes coverage more reliable and increases the capacity to support a surge of new Wi-Fi devices on campus by offering an additional 22 channels. It allows for greater frequency re-use and lower channel utilization, and brings university buildings up to current industry wireless standards. Long said that in buildings where 5GHz is now the standard, help tickets about Wi-Fi connections have dropped to zero. Long also gave an overview of ULink, a new network for IoT devices. This was an information-only item.

**Network Architecture Community of Practice update**

Long also updated the committee on the Network Architecture Community of Practice (CoP) and its recommendation to ANTC regarding how the U should move forward in regards to implementing protect-by-default. The committee approved moving forward with the CoP’s recommended implementation plan that poses minimal ITIL change risks, but will require evolving existing procedures and practices with some new automation and self-service. Long will come back to ANTC to present the formal execution plan for approval at a later date.

Action summary			
Action	Topic	Person/Group	Next steps
Approved	Expanding campus alerts with desktop notification	Stuart Moffatt, Emergency Management Services	Conduct a pilot program to test an additional desktop alert method.
Approved	Geographic Information Systems subcommittee	Dan Thornley, University Support Services	Identify members and proceed with the formation of the subcommittee.
Approved	Network Architecture Community of Practice update	Trevor Long, Network & Core	Develop and return with a formal plan for network protect-by-default implementation.