



## Architecture & New Technology Committee

March 27, 2017

Eccles Broadcast Center, Dumke room

# Agenda

1. Network vision statement
2. Private IP space allocation management
3. Senate Bill 14 compliance proposal
4. New UIT storage solutions and pricing
5. Open floor
6. Adjourn

# 1. Network vision statement

Clayton Barlow, associate director of Enterprise Architecture, will discuss the “network vision statement” created by the Network Architecture Community of Practice, which was briefly discussed in the February meeting. [A copy of the network vision statement can be found on the Box folder.](#)

The committee is being asked to provide input, and could also approve the document as is or with minor changes.

## 2. Private IP space allocation management

Clayton Barlow, associate director of Enterprise Architecture, will discuss progress by the Network Architecture Community of Practice regarding the allocation of private IP space. There are three documents associated with this agenda item:

1. [Private address space 2017](#) - Where we delineate what types of private space allocations will exist and the standard that explains how we use private space.
2. [Use of IPv4 Private Address Space RFC 1918](#) – Which defines the actual breakdown of Private Space allocations in specific detail of ranges and what would be routable and non-routable.
3. [Use of IPv6 ULA Address Space RFC 4193](#) – Which defines the standards we are proposing for ULA usage throughout the network.

The committee is being asked for input on the direction this discussion has taken so far, and could vote to approve the approach as is or with minor changes.

### 3. Senate Bill 14 compliance proposal

Mike Ekstrom, UIT director of Network and Communications Infrastructure, is returning to ANTC with a proposal to meet the requirements of Senate Bill 14, which he discussed in the February meeting.

The Utah Legislature passed Senate Bill 14, which affects organizations that run multi-line telephone systems. [The text of the bill can be found here.](#) Barring a veto by Gov. Gary Herbert, the bill will require the University of Utah to meet three conditions by July 1.

1. Users must be able to make an emergency phone call by dialing 911 without a prefix.
2. The system must be able to forward the building address and room number from which a 911 call was made to emergency responders.
3. The University must ensure the accuracy of the location database, including updating any changes to the location of a telephone within one business day of completion.

If the University cannot meet these requirements, the law states the university must post a sign within five feet of each telephone that indicates:

- How a person may dial 911 on that telephone.
- The location of the telephone, including address, office or building name and number, and room number or equivalent detailed location information.

Ekstrom has the following proposal:

For CenturyLink telephones that meet the location requirement but not the 911 without a prefix requirement, CenturyLink is working on a fix. If there is a fix forthcoming, no action will be required on the university's part in relation to copper-based telephones.

For Voice Over Internet Protocol phones managed by the university, they are already in compliance with the requirement to dial 911 without a prefix. In order to make them compliant with the location requirement by July 1, UIT would change a back-end configuration in the VoIP systems (Avaya and Skype for Business) that would disable any VoIP telephone that is disconnected from its registered network port and plugged into a different network port. To re-enable calling functionality, a user would have to confirm the phone location with the campus or hospital help desk. The help desk would then update the 911 database, whose changes are sent to the national database each night.

While this may cause some temporary loss of telephone functionality when a VoIP phone is moved, UIT believes it is the least expensive and most unintrusive way to verify the location information of each phone and comply with the letter and spirit of Senate Bill 14.

The committee is being asked for its thoughts on this proposal and, if it chooses to do so, to vote on whether to implement this process to meet the requirements of SB14.

## 4. New UIT storage solutions and pricing

Chief Technology Officer Jim Livingston will present the committee with updated pricing for UIT storage options, as well as a new hybrid cloud storage option and pricing.

The committee is being asked for its feedback on this information.

## 5. Open floor

Any issues that need to be discussed here publicly before we next meet?