

Wireless Committee meeting
August 17, 2006
650 Kommas Drive, Board Room
1:00 pm

Minutes:

I. Executive Update and Q&A

Steve Hess, Associate Vice President, Office of Information Technology
Chris Kidd, Director, Privacy and Information Security Office, University Health Care ITS

Steve Hess – happy to be here, thank you for all your efforts on the Wireless Committee. Pierre Pincetl, Chris Kidd, Steve Hess, Dave Huth, & Kevin Taylor have met to talk about campus wireless policies & funding.

- Wireless uses the electromagnetic spectrum; harder to draw boundaries around it.
- HSC and lower campus need to work together to provide a good wireless experience to our users (particularly students)
- It has been decided that for now we will delay persistent roaming because of the one-vendor solution; we have a considerable installed base of multiple vendor hardware on campus. Future devices that will use wireless are still a little ways away.
- Departments CAN run their own wireless. Please cooperate in setting and following campus wireless standards to provide as seamless an environment as possible.
- The Administration is very supportive of a campus wireless environment. They don't want turf wars.
- The ITC is a campus body that is charged to implement enterprise-wide policies. They take advice from ITAC, who gets input from this body.
- The administration wants to increase interdisciplinary research (think Brain Institute; biomedical and bioengineering). This will mean faculty members with laptops moving around campus.
- The administration wants to increase collaboration with "downtown" – transferring technology/research developed here to business. Need to allow these business folks to have connectivity.
- International: exporting to other countries. Need to provide connectivity.

Chris Kidd – cooperation and collaboration needed. A 3-5 year plan by the Wireless Committee to ITC would be welcomed.

Funding: all Task Force requests will be funded (if they haven't been already). The delay was in finding extra money; will make adjustments next year for extra wireless funding requests. Following a campus standard that is decided in this group means the money will flow.

Andrew: thank you for the clarification, particularly on departments doing their own wireless.

II. Campus Standards (uconnect / hotspot) Update
Dave Packham & Mindy Tueller

Hotspot: the MPLS tunnel is working. It goes from under Dave's desk, thru EBC, UEN, into side of router (can't get it in front of the firewall). Two sets of firewall rules – one for hotspot, one for campus. Still trying to figure out a way around that issue. Dave is getting a 205 address; port-scanning Jonzy as hard as he can to see if he'll notice. Everything works. BGP wasn't propagating for a couple days; removed an ACL and things are working. 512 down / 256 up. Nor port restrictions (except firewall). Disclaimer: uconnect is preferred. You will be scanned. With Clean

Access, we can turn an ActiveX component that queries your hardware for a correct MAC address – works fine on Unix, Macs. How soon? Implementation to production: will have to call an outage to convert to a trunked interface. That will need to happen after Rob W is back next week – then a one week outage notice. (August 30 – Sept 2). Will adjust hotspot timeline next meeting. Asked Kevin for clarification on where ITC expects hotspot zones (it is an opt-in). And if insecure has to go away (Dave has received requests to keep it up.) Should either kill it or do an education blitz. Andrew would like to stand by the initiative that ITAC approved to kill it. Andrew will bring this up in ITAC today. Call 1-4000 and ask for a TT if you're ready to bring up Hotspot. Bryan Morris is the guy to ask about using department gear to interoperate with campus routed wireless. There are some caveats.

Uconnect: currently have a way to redirect secure.utah.edu traffic (leaving the encryption intact) upon a web browser being opened to see a notice on uconnect. It is only going to work on OIT-supported Trapeze gear. 50% of the secure areas are covered by OIT. A secure user will likely roam to one of our spots over the next few months. If we wanted to change department-run secure WAPs – would have to span VLANs. Steve Scott has grabbed all uNIDs that have logged onto both secure and insecure networks – we'll send it out tomorrow. Uconnect timeline – currently through the end of the year. There is a Windows XP uconnect installer available – uconnect only. (Won't delete your secure profile.) This will allow users to get to both networks for a while. Fliers and posters will be distributed as requested to campus departments. Andrew: probably a small number of users who will not have heard about the switch in January who will need some hand-holding. (*ActiveX capability to pop up the installer – could put it on the hotspot login page.) HSC will be rolling out uconnect in the same timeframe as lower campus. HSC-Managers list can be sent a message about the changes. Dave: a concern is that if left to the wireless geeks, the system will not work for end users – the wireless that we create must be usable for the end users. Question: is the VPN working on hotspot? Yes – no port restrictions (if you login to the VPN before the hotspot role is activated). No VLAN management for uconnect (probably drop you in the same VLAN as secure was). Q: using own IP space for secure. What are others doing? 50/50. Uconnect will be done the same way. Chris: departmentally operated secure/uconnect is on IP space that departments own or negotiated. OIT has a block of address space reserved for secure/uconnect. ISO would like to see a one-to-one relationship for every address. When departments get a block, they as well as ISO/OIT should be listed as a point-of-contact for the space.

III. Roaming Update & Roaming Document Review Bryan Morris & Andrew Goble

Andrew: a great first step would be role-based authentication. (IP space handed out based on who you are). Users get the same experience everywhere this way.

Bryan: has a DRAFT handout (that the subcommittee hasn't yet seen). Please review it later due to time constraints; email Bryan your concerns and suggestions. No pressure to get this all done before school starts. This is probably a 3 year goal. Andrew: we should put the roaming discussion off to a later time.

Need to reschedule the hotspot timeline. Will set up the next meeting the last week of August (there will be lunch): Wednesday, August 30th. Also, talking about the Radius mesh with Terry Simons. May want to revisit the Radius standards with another sub-committee for a consistent authentication system. A first Radius subcommittee meeting will be in early September.