NextGen Unit Representatives

April 20, 2015
Today’s Discussion

WiFi Expansion Project
MiWorkspace Update
WiFi Expansion Project

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Wireless

- 800 MHz for walkie talkies
- Cellular
  - Telephone and texting
- WiFi
  - Productivity
  - Life Safety
  - Possibly telephone
- Future
  - Super WiFi
  - WiGig
<table>
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<tr>
<th>Coverage</th>
<th>Capacity</th>
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| - Provide good “signal”  
- Deployments prior to Summer 2014 were optimized to cover as much area with as few APs as possible  
- Not suited for a world where everyone carries 3-5 WiFi enabled devices  
- “I have 4 bars but I can’t make a call” | - Deployments based on number of expected devices, not area  
- Shrink “cell sizes” to more efficiently reuse spectrum  
- Use specialized equipment to fit more APs in a given space  
- Required to meet tomorrow’s demands  
- We will eventually need to deploy an AP in every office |
WiFi Investment Proposal

- First two projects almost complete ($1.2M, $3.6M)
- Wall to wall and basement to penthouse coverage
- Provide each person with enough capacity to handle video service
- Current proposal $18.5M
  - 116 buildings in two years
In-Building Financial Issues

- WiFi investment impact
- WiFi as ubiquitous infrastructure
- WiFi upgrades every six years
- Similar hardware and configurations lead to savings
- Request: Have ITS design and operate networks
  - One network per building instead of individual unit networks
- Leverage our scale
Future WiFi (WiGig)

- Available in 5-6 years
- Requires fiber cable
- Designing now to reuse as much as possible
- WiGig in every office
- May decrease need for use of wired in office
  - (still need wires for wireless)
Questions?

Andy Palms - palms@umich.edu (Network)
MiWorkspace Monthly Status Update

Bob Jones - rjonesii@umich.edu
MiWorkspace Status Updates

- MiWorkspace Advisory Group

- MiWorkspace Updates
  Self-joinable MCommunity group:
  MiWorkspaceUpdate@umich.edu
May Topics

- Conversation with Laura Patterson
- Questions or Feedback - philray@umich.edu
Thank you