



National Business and Industry Leadership Team (BILT) Meeting for Networking and Convergence Technology

August 16, 2016

Rules of Engagement

1. **Mute your phone** if you're not talking – on WebEx, that's *6.
2. You have to **pick an audio channel** – you can't listen on your phone and also listen through your computer. That creates an echo and you will be muted.
3. **Do not put us on hold** – we prefer to not hear your hold music.
4. Feel free to speak up, but always **say your name** so everyone knows who's speaking.
5. We'll be monitoring the WebEx **“Chat” tool** for questions. Do not use the **“Q&A” tool**. Send your chat comments and questions to the Host. Do not send messages to us via e-mail.



AGENDA

- | | |
|---------|---------------------------------|
| 8:30am | Welcome and introductions |
| 8:35am | Trends |
| 8:55am | KSA update – Tiger Team results |
| 9:15am | “America’s Promise” grant |
| 9:30am | Teaching “internet of things” |
| 10:00am | adjourn |



Welcome and Introductions



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Trends



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KSA update Tiger Team results

KSA update

Biggest three changes:

1. “Convergent Network Technologies” (K5) renamed to “Collaboration Technologies.” The topic list is now bulleted for easier reading and now includes: video telepresence, Presence, instant messaging and text messaging, mobility, and IMS overview.

2. “X as a Service” (K14) renamed to “Cloud and Cloud Services.” Now includes a broader overview in addition to specific topics: “Understanding what the cloud is, what are public/private cloud services, what is in a hybrid cloud, and what are the challenges and difficulties of using the cloud. Plus also awareness of mashups and API (application programming interface).”



KSA update

Biggest three changes:

3. Added a new entry – “Script Automation and Application Programming Interfaces” is the new KI7. “Global automation in a single push; writing, executing and debugging (Python, Java, etc). This can be a differentiator: understanding the basics/benefits of combining scripting and API will help students. This is used throughout all of the Ks above.”

KSA update

Smaller adjustments and edits. Recommending that...

- * On-site tours be considered.
- * ITIL elements (change management & root/cause analysis) are covered as needed.
- * Unix/Linux and Windows Server curriculum be current within three years.
- * Log files and patches are added to Operating System Maintenance (K3) curriculum.
- * For the OSI model (K4), instructors provide basic framework for how it all works, including how cloud computing has impacted the conceptualization of the seven layers. Plus and awareness of IP multimedia services.
- * Instructors note that Network Devices (K6), WAN (K7), and Wireless/WLANs (K8) all run on “collaboration technologies” (K5) and will all be merging together over time.
- * Wireless LAN controllers (with MAC and ARP) be added to Network Devices (K6) curriculum.

KSA update

Smaller adjustments and edits. Recommending that...

- * SIP and Web RTC protocols be added to WAN Technologies (K7) curriculum.
- * Bluetooth be added to Wireless Infrastructure and WLANs (K8) curriculum.
- * Specific cloud-based diagnostic software examples are mentioned in Troubleshooting (K9) curriculum.
- * Fiber and fiber-splicing awareness are added to Troubleshooting (K9) curriculum.
- * Infrastructure Monitoring (K10) include physical and virtual infrastructures and cover automated tools and optimizing performance.
- * WPA2 be added to Network Security (K11).
- * A high level of cloud should be included in Virtualization Technologies (K12).



KSA update

Smaller adjustments and edits. Recommending that...

- * Broader concepts of Soft Skills (K15) be considered in addition to the more specific examples already mentioned: team building, project management, time management. Ideally, each student has a different job working toward a common goal. That is, don't wait until the final capstone to address these skills.
- * PMLC, ITIL, and SDLC be mentioned as framework examples for Basic Project Management (K16).



“America’s Promise” grant proposal



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Teaching “internet of things”

What should be covered in an IoT class?
What should graduates know?



Thank you!

Next BILT meeting: Tuesday, November 15
8:30am-10:00am Central
via WebEx webinar



This material is based upon work supported by the National Science Foundation under Grant No. 1205077. Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.