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

February 11, 2020
**Rules of Engagement**

* **Mute your phone** if you’re not talking – on Zoom, that’s *6.

* 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.

* **Do not put us on hold** – we prefer to not hear your hold music.

* Feel free to speak up, but always **say your name** so everyone knows who’s speaking.

* We’ll be monitoring the Zoom “Chat” tool for questions (it may be closed by default). Send your chat comments and questions to the Host. Do not send messages to us via e-mail.

  >>To maximize our time with the BILT, we encourage CCN educators to use the chat box for questions and comments.

* If you’re having trouble calling in via your computer, hang up and try connecting with a phone.
Agenda

Trends
CTC updates
Finalizing draft “hosted cloud” KSAs
Strategies for staying current in IT
Status of “IT Skill Standards” project grant
LinkedIn poll results
Trends

Discussion format:

* Define the trend
* Discuss the ramifications for educators
* Look at the trend’s timing/adoption
* Identify the mashups needed to make the trend successful
* Project possible risks
CTC updates

Summer Working Connections (July 13-17, Frisco)
* Wireshark
* Mobile App Development
* Python
* AWS Architecting
* Azure
* vSphere
* Leadership Academy workshop (featuring BILT model, KSA process, Carolyn Corbin’s “Indi-preneur”)
CTC updates

“BILT model” training & dissemination

* Conferences
  WASTC, San Jose (Jan 2020)
  HITEC, Portland (July 2020)

* NCPN article – Jan 2020

* Videos
  Editing down “Day in the Life”
  Planning BILT process “breaktime” videos
  Planning administrator testimonial videos
CTC updates

“BILT model” training & dissemination

* #BILTWednesday weekly tips
10,867 impressions on Twitter in 2019
40 tweets in 2019

* Google voting form adoption
At least ten CCN schools testing it
20-min YouTube tutorial

* 16-page PDF “toolkit”
CTC updates

“BILT model” training & dissemination

* Ann named one of the “Future 50 Innovators and Disruptors” by Dallas Innovates
CTC updates

“BILT model” training & dissemination

* “BILT Notebook” quarterly newsletter – April 2020
  145 emails from last two years of conferences

* “BILT Employer Engagement Summit” – fall 2020
Finalizing draft “hosted cloud” KSAs

* BILT request to address workforce demand for hybrid/multi/hosted cloud skills

* Hands-on student group project – using industry SAFe methodology

* Testing it with select CCN faculty now, plan to pilot it in the classroom Fall 2020

* Need the BILT’s help validating/finalizing KSAs

* Once we have KSAs, we can identify what skills will be “new” for the project, what skills might have been covered in previous classes
Group discussion

Which programming languages should students be learning and which industry certifications should students be pursuing?
Strategies for staying current in IT

Presentation by Glenn Wintrich, RDM Innovation Training

Group discussion
  * How do you stay current?
  * What are your best practices?
Future Studies
Search Approach

Glenn Wintrich
Strategies for staying current in IT

- **Frame the domain.** What is the “domain” you will explore?
- **Scan for forces and trends.** Whom will you invite to help you scan? What will your scan include?
- **Backcast.** What milestones must you complete to ensure success in your domain?
- **Forecast scenarios.** What are the plausible futures for your domain?
- **Envision the future.** What does success look like for your domain?
- **Implement.** What must you start now to secure your domain’s future?

Source: Association of Government Risk Pools’ “Framing the Future”
Setting Tripwires (Developed from Backcasting)

- Funded university research
- Patent approval
- Technology standardization (IEEE)
- Regulatory approval
- Products defined on Gartner “hype cycle”
- Competitor has joined a new technology partnership or alliance
- Early adopters (startups and adoption in other industries)
- Commercially available underlying IT products and services
Setting Calls to Action

- Assign someone to track advancement of standards body
- **Assign someone to become knowledgeable on the technology, SME**
- Develop scenarios utilizing case studies from other industries
- **Look for potential partners or alliances**
- Schedule vendor briefing
- **Bring technology into IT sandbox**
Necessary Conditions for Technological Success

- Functionality is as advertised
- Reliable
- Attractive price point for purchase, integration, maintenance, & support
- Dependent technologies are in place
- Integrates well with existing technologies
- Secure
- Minimal to no unintended consequences or social/economic issues
- Standardized and interoperable
- Competitively superior to alternatives to satisfy “Jobs to be Done”
Setting Google Search Criteria

1. Key first step - keep refining search to obtain a manageable number of search results
2. Use quotes and history period (one year or less)
3. “Custom” is helpful to match you Alerts to search criteria
4. Search using “Images” to speedup the process
5. Use operators.
   a. Hyphen (-) directly before a word will exclude results that include that term
   b. Tilde (~) used in the same fashion will return synonyms and other similar terms.
Setting Google Alerts

1. Go to google.com/alerts in your browser.
2. Enter a search term for the topic you want to track
   a. Use your refined search results
3. Choose Show Options to narrow the alert to a specific source, language, and/or region. ...
4. Select Create Alert.
5. Samples will show up as you create the alert
Set Options

Alerts
Monitor the web for interesting new content

future of "edge computing"

How often
At most once a day

Sources
Automatic

Language
English

Region
Any Region

How many
Only the best results

Deliver to

Create Alert

Hide options
## Setting Talkwalker Search Criteria

[talkwalker.com/alerts](talkwalker.com/alerts)

<table>
<thead>
<tr>
<th>Search criteria</th>
<th>Future of edge computing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email address</td>
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<td>Desired search sources</td>
<td>News, Twitter, Blogs, Discu...</td>
</tr>
<tr>
<td>When to notify you</td>
<td>As it happens</td>
</tr>
</tbody>
</table>

- **Preview results**
Strategies for staying current in IT

Presentation by Glenn Wintrich, RDM Innovation Training

Group discussion
* How do you stay current?
* What are your best practices?
ITSS project update

Analyzing and verifying data
- “Infrastructure” cluster
- “Technical Support” cluster
- “Project Management” cluster

Convening SME cluster meetings
- “Data Analysis” cluster
- “Predictive Modeling” cluster
LinkedIn poll responses

BILT members and educators, what’s the one technology or trend you believe will present the biggest change for IT curriculum in 2020?

>>Multi and hybrid cloud
>>Cloud is huge. Also, virtualized networking [NSX, Guardicore, etc] has become something I'm seeing a lot of as well...
>>Cloud and the new CCNA curriculum will be a challenge.
>>We are working on Cloud at this moment. Getting instructors certified is a challenge. Also, getting involved in the advanced topics such as Docker and Kubernetes, automation, machine learning and data science is a big change in mindset for our staff. It will take time, which we do not have, and a lot of effort.
>>We are in the "getting instructors certified" phase ourselves, which is very labor intensive for them alongside their current class loads.
BILT members and educators, what’s the one technology or trend you believe will present the biggest change for IT curriculum in 2020?

>>5G is going to bring a whole new generation of applications and end devices - vehicles, manufacturing, health, education, etc, etc feeding the cloud and communicating device to device. 5G will require backbone updates to optical and the optical network will continue to be pushed out closer to the end devices. This means lots more small cell 5G antennas - people are talking an antenna every 150 feet on highways as an example. High speed, low power and low latency is going to spawn a whole new generation of end devices and applications.
Thank you!

Next BILT meeting
In-person* annual KSA discussion & vote
Tuesday, May 5, 2020
8:30am-2:00pm Central – lunch will be served

*Zoom will also be available

CCN, if you missed the opening roll call please send your name/school to us via the Zoom chat box

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