

# Quarterly Networking BILT Meeting – November 6, 2014

## Meeting Minutes

### Attendance

Ron Halbach – Juniper Networks  
Lenny Portelli – Seminole State College  
Scott Veibell – Cisco Systems  
Robert Thomas – DHS/FEMA  
Sean Harrington- Century College  
Helen Sullivan – Collin College  
Julie Hietschold – Collin College  
Diana Sukut – Collin College  
Mark Dempsey- Collin College  
Ann Beheler – Collin College  
Jen McGarvey – Collin College  
Molly Guard – Collin College  
Saydi Tillman – Collin College  
Christina Titus – Collin College  
Susie Davisson – Collin College  
Lynn Mortensen – Retired from Raytheon  
Eliazar Martinez – El Centro College  
Catherine Oleksiw – Measured Transitions LLC  
Rene Bylander - WITC  
Jonathan Davis- Cleveland Community College  
Mercedes Fisher – MATC  
Jim Meeks – San Jacinto College  
Bill Saichek – Orange Coast Community College  
Kurtis Sampson – Phillips Healthcare  
Justin Ranton – Click4Corp  
Tu Huynh – Comerica Bank

Nisheeth Agrawal – Calhoun Community College  
David Keathly – UNT  
Mark Krzyszkowski – Waukesha County Tech. College  
Kpayah Tamba – Citrix  
Mike Vickers – Tallahassee Community College  
Mark Whigham – Calhoun Community College  
Craig Tidwell – Seminole State College  
David Pope – Ozarks Technical Community College  
John Nelson – Del Mar College Center for Economic  
Steve Linthicum – Sierra College  
Rajiv Malkan – Lone Star College  
Pam Betts – San Jacinto Community College  
Zak Cernoch – Northwest Vista College  
Matt Glover – AMX  
Nancy Cerritos – Wisconsin Indianhead Tech. College  
Belicia Miraval Albornoz – El Centro College  
Kim Ehlert - WCTC  
Charles Dessassure – Tarrant County College  
Rafat Elsharef – Milwaukee Area Tech. College  
Kathy Fant – Collin College  
Joselle Gatrell - AACC  
Chris Hasler – Waukesha County Tech. College  
John Huff – Polk State College

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### Welcome and Introductions – Ann Beheler

#### Industry Trends

Kurtis Sampson – Phillips came out with an architecture where we are more focused on the consumer. It is a major change in Phillips Healthcare. It is going to take a while for the rubber to hit the road on this. We're not downplaying the products but they are a component in this digital platform. We'll be looking for people that are IT savvy, as well as the IT business.

Ron Halbach – I can't help but think that at some point your toothbrush will talk to my iPhone and tell me that I forgot to brush my teeth this morning.

Helen Sullivan – When you think about how we translate that into the classroom, do you see where this can be taught or is it a concept?

Ron Halbach – Students are going to have to learn about how all of this connects. You'll have to work your way into analytics. I think awareness of the internet of things will be very important. I just don't think there is anything that you need to go out of your way to teach for this.

Sean Harrington –With regards to training and education, there is a cybersecurity training and awareness bill that is moving through the system. We are also trying to get the college involved with the NSAs. The theme that I'm seeing is that it is difficult to attract good talent. There is a general sense that there is not enough talent coming out of schools. There are a lot of people coming over from IT and various disciplines. They are getting on the job training but not background from the schools.

Ann Beheler – One problem that the schools are having is that cybersecurity is built on the basis of IT. You have to have some type of IT foundation to build on it. There are a lot of restrictions to get all the courses in because of the credit limits.

Ron Halbach – There is one thing that I want to bring up, which is Ethernet. There will come a time when Ethernet will be the only option. The other thing is the impact of SBN; moving from one truck roll to a mouse roll to install a service. You take a look at the job impact of this with careers. There is going to be a significant hit in the jobs in this industry; not just the technical side but the project management side.

Helen Sullivan - What about security and how it relates to the internet of things?

Ann Beheler – I heard that carriers can keep track of the internet use on my phone. You can opt-out but they don't tell you how.

Bob Thomas – The reason why they are doing the tracking is because eventually they will target you with ads. They are just trying to figure out how they are going to make more money on this.

Ron Halbach – That sounds wonderful until someone hacks into the system and has months' worth of information on you.

Ann Beheler – Another example is that Sprint is making it very difficult to set up my voicemail unless I listen to their ads.

Ron Halbach – At one point in 2010, somewhere between 12-15% of internet use was rerouted to China. I don't remember us discussing this. Imagine that – they rerouted 15% of the world's internet traffic.

Ann Beheler – How do we help this? Make every IT student learn cybersecurity?

Ron Halbach – How much awareness should someone have of security? Clearly, this is becoming a bigger concern. One of our PLM people was talking and he said that World War 3 has started and it will be based on IT attacks.

Sean Harrington – One thing that I find missing from this discussion is the legal component of cybersecurity. What ISPs can do and what rights they have, and the realities that they will alienate their customers. This is all equally important as the policies that we're discussing. I think these concepts need to be included in curriculum.

\*\*\* - If you are looking at international traffic, how alert or aware do our students need to be to get legislature's attention?

Sean Harrington – Everything that we're talking about right now would fit into a four year program, not a two year program. Getting the core skills down in a two year program and then have them pick the rest up in a four year program after they have learned from the company.

Bob Thomas – I just want to make sure that everybody understands that from my perspective, if I'm going to hire a security person, they need to have the IT background.

### **KSA Follow Up**

Ann Beheler – I know several of you want to match the KSAs against your courses. I will take what was done last May. The BILT took what we did and looked at it outside of the box. I spoke with Matt Glover and we came up with an approach that I'm going to share with all of you. We just need to figure out how the college can use this. I do think we can use for now. Typically, if you look at column B, we had the KSAs down the side (knowledge areas). This is very difficult to cross reference against the courses. In an attempt to make it where it could be used, I took the groupings and listed below them the KSAs numbers and C numbers that corresponded. If your program is covering any of these, you might want to be aware of this. The BILT thought that this grouping of K and C numbers rolled together. A grouping of courses would cover all of them. You might have thorough coverage under K6.

(See attached KSA List Below)

Matt Glover – We worked really hard to keep the groupings in place and I didn't want to lose that. I'd like to think what other businesses think about it.

Ann Beheler – The thought is that the courses need to cover all of the K and C areas. It is the same kind of thing but it is more of guidance from BILT regarding whether someone wanted to cover some but not all of the areas.

Matt Glover – We could also make an interactive excel. The way we have it laid out is easy for it to see if it is printed.

Ann Beheler – I think Kim said you would be using this immediately. I will be more than happy to work with it.

Nancy Cerritos – We're interested in working with it as well.

Ann Beheler – This is a way to capture what the BILT was trying to do for us in regards of groupings. We'll need to finalize it. We'll send a copy of the spreadsheet out to everyone.

### **Student Portfolio Tiger Team report**

Ann Beheler – We had a Tiger team about portfolios and we came up with a summary of what we put together. We can send it out to everybody after this meeting.

Matt Glover – What is really great about having a portfolio is you can track your achievements to show other people. We all got together to figure out what would be a really great portfolio for the students to have in a shareable way; think of it as an actor carries headshots. If our students have the ability to capture moments where they turn in assignments and grades, this would be a great asset to an employer looking for certain skills. We just wanted to understand how to capture buildable portfolio elements in a meaningful way.

Ann Beheler – I heard from several of you that you wanted students to come into interviews with documentation of their skills so we thought this would be important.

Matt Glover – We want them to capture the highlights and be able to speak to.

Ann Beheler – The idea was that if a student comes to an interview without a portfolio, they would have difficult questions that would be asked in order to assess their skills. Having a portfolio eliminates this need.

Susie Davisson – The portfolio workshop with Justin was excellent. It was well-received and he gave valuable information and ideas. Students were engaged and taking notes. Justin did an excellent job to give guidance and applying information to students. He also provided websites that would help create things. He also offered to look over portfolios once they are complete.

Ann Beheler – The whole concept of documenting a project is a way for students to practice the soft skills. We hear this over and over again. We don't have any other way of doing it.

Tu Huynh – The student has a story to tell and they need to know how to share their achievements. On paper, they tend to remember what they have done.

Ann Beheler – We did come up with a one-page summary of the Tiger Team, so we will circulate that to everyone. We can record the next workshop to share with everyone.

Susie Davisson – I do think that Justin recorded it.

Bill Saichek – I've been following this discussion. I've been doing this in my classes because we try to do a large skill-based project. A few students have been able to use it on their interviews. I've been pushing students to get their writing skills right. Students have been nothing but successful for them. I think the portfolio had a lot to do with it.

Justin Ranton – It was a pleasure to be there. We covered what the portfolio should entail as far as providing a problem that they were able to find a solution. We wanted to focus on how they worked with other team members and how they brainstormed. We also discussed how to put this on an image platform to include on their resume or even a pdf to include in an email. Students were great about grasping this. I did share with students about how they can screen grab their work and how they can refer to it. We also discussed networking skills to use their portfolio. All in all, it was really good. I was able to see the evaluation from students and I'll be restructuring the workshop so that we can show different portfolios for each section so that they can retain the information.

**Other Tiger Team topic follow-up (next: SDN and Mobility)**

Ann Beheler– We have SDN and Mobility at the top of our list for other Tiger teams. We have Eliazar, Ron Halbach, and Charlie Bess for SDN that have asked to be included. In Mobility we have Ron Halbach and Charlie Bess. Are there any other volunteers to be involved in this?

David Pope – I'd like to be involved in SDN.

Mark Krzyszkowski – I'd like to be involved with mobility.

Ann Beheler – We'll set up some times to meet and we can come back with initial reports for what needs to be done with curriculum.

Matt Glover – I'll like to be put on both of them. When can you schedule another portfolio workshop with Justin to get that back in front of the students and the professors? How can we package this and have it move throughout the nation?

Justin Ranton – We didn't know what knowledge that students had on portfolios. This was really informative about the questions they had. The next round can be synthesized of the basic template for the students. Then we can provide additional resources and links for them. I think the next step would be to give them a lot of resources. Where we have a struggle is getting things out of online to share; so I want to focus on that. We need to give employers something to screen before they even come in for interviews.

Ann Beheler – Maybe you can do it as a webinar in the spring to try with our partners.

Matt Glover – You think it would be too much to do a round two with students that have already participated as well as the nation-wide address?

Justin Ranton – That would be a good plan of action. Hopefully by then, we can have a student who has built a portfolio, gotten feedback from employers, and possibility getting a job from it. Then we can package that nation-wide. Click-For-Corp has offered free server space to Collin students to host an online portfolio. They will need to contact me but it will be free to them. We have our own servers and we'll need to evaluate as the work comes in, if we need to dedicate a server for just the portfolio. It is something that we discussed that we want to do for students.

**Other topics of interest**

Ann Beheler – I will report that we are leading a technical assistance grant that is funded by the NSF grant to provide support for four rounds of DOL TAACCCT grants. I just came back last night from a DOL conference, and they want to find out how we work with business. There is a lot that the BILT has been a process of building. This will continue on even though the DOL grant will be over. The Technical Assistance grant will continue on for four years.

**Wrap and date for next meeting – Tuesday, February 10**

*Meeting adjourned.*