

**NTNC Steering Committee meeting
December 4-5, 2017
Wash D.C.**

Present:

Marc Wallman, NDSU
Mike Milliken, Merit
Valerie Crepeau, U-MT
Howard Pfeffer, Internet2
Rob Vietzke, Internet2
Linda Roos, Internet2
Dave Lois, Wiscnet
Jeanne Skul, UW Madison
Ryan Knutson, SDSU
Kristen Pratt, AIHEC
Matt Riley, U-MT
Kim Owen, NDSU
Jonah Keogh, PNWGP
Sasi Pillay, WSU

Internet2 updates provided by Internet2 colleagues: Howard Pfeffer, Internet2 President & CEO; Rob Vietzke, Internet2 Vice President for Network Services; and Linda Roos, Senior Director of Service Implementation & Retention.

- Opportunities for Internet2 going forward include intersection of network storage and computing (edge/fog/etc) with the goal of making Internet2 a more secure network. Priorities are networking, trust and identity, and ensuring services work end-to-end. Services are expensive and there is a lot more that can be done to make things more efficient. The core of the value message used to be capacity, and that's not relevant any longer. As people want to move their infrastructure to the cloud, the R&E community can provide the best path to get there.
- Internet2 has engaged in strategic planning over the last two years. Completed a call for papers and follow up meeting in Tempe, AZ in January 2017. One recommendation was to implement a call for proof of concepts: Core, Edge, Collaborative service delivery. NTNC submitted white paper in December 2017; the content of which coincided with NTNC strategic planning and final results reported at annual meeting in July, 2017. Internet2 proceeds with next phase at meeting in January 2018 where proposals will be accepted on proof of concept (PoC) for collaborative service delivery models. Internet2 will review and hope to have selected a list of PoCs by February 2018 with anticipated project completion date of September 2018. Most of the work will happen out in the R&Es but Internet2 will help and support as they are able and as needed. NTNC to consider submitting a proposal.

AIHEC/TCU collaborations

- Welcome to Kristen Pratt, Program Coordinator for AIHEC who joined the meeting. The NTNC working group on Tribal College & University relations has been working with Kristen and her team to identify potential areas for collaboration. A summary of recent activity was provided by Dave Lois, Kim Owen and Kristen Pratt. Current options to consider include NTNC presentation at the upcoming national AIHEC conference in March, 2018; and extending an invitation to TCUs in the NTNC region to attend the annual NTNC conference in July 2018. It was noted that this is not a call for NTNC membership by the TCU's – rather an opportunity for collaboration.

Steering committee business

- Summer meeting minutes accepted as read.
- Financial report: Cash position as of 10/31 is \$188,484
 - Discussion: No financial challenges that are weighing on us at this time; Keep the funds in place in order to have the flexibility to pursue consulting or other services to the benefit of the whole group. Our message to members and prospective members should be consistent - that we want to share with all members

- Infrastructure working group: The goal of the work of this task force initially is to develop an inventory of the collective assets of the full NTNC. The working group will pursue and have more to report out in 2018.
- Review action items from NTNC 2017 annual conference
 - Still need to explore peering opportunities – will be addressed through the work of the infrastructure working group
 - Expand memberships – actually have dropped a couple so need to circle back to them and others in the region who have not been members.
 - Explore models employed by other RONS: peering services where participating institutions are in the same rack and benefit by good support from across participating institutions to keep things running smoothly. For Big 10 schools, these resources are used by more than 150 content providers and a majority of traffic is via peering. Providers like Amazon and Google provide research peering.
 - NTN would need to upgrade capacity to meet this type of demand. North Dakota is the only state in the NTNC that does not allow peering. For many states, access to the Big 10 network is a key driver to expand access to resources for both academics and research.
 - Increase NTNC membership in order to increase assets that can be used to fund special initiatives. A model would need to be developed to allow equal access, where outcome-based objectives would focus on benefits across the larger group. Special initiatives include strengthening engagement with community anchor institutions and Tribal colleges.
 - Strengthen partnerships at the regional level to keep the organization as a whole stronger, resulting in access to more services and resources, more negotiating power with vendors, etc.
 - Consider budgeting for: outreach and training, impact studies, partnership activities.
- State reports: Reminder to send Kim any updates in writing and they will be added to the minutes. Updates from member states provided by the following: MI – Mike Milliken, ND – Marc Wallman, WA – PNWGP, WSU – Sasi Pillay, SD – Ryan Knutson, NE – Greg Gray, Wiscnet – Dave Lois, U-WI – Jeanne Skul, MT – Matt Riley
- **ACTION ITEMS:**
 - NTNC exec team to develop proposal for steering committee to include the following: budget and project details; call for proposals to NTNC membership for projects that could be supported by NTNC with the purpose of serving the larger NTNC community.
 - NTNC/AIHEC working group proposal:
 - Requests up to \$20k to cover any potential costs for upcoming annual conference to include relevant topics and possible training opportunities for participants (IT topics).
 - Discussion: working group will plan to communicate back to steering committee prior to signing contracts with speakers and others details for the program.
 - CC* proposals planned for submission by members at this time include U-MT; WSU; NDSU
- **2018 Annual meeting**
 - Want to make it as accessible as possible for any TCU's that may attend so AK is likely out. Other options: Mpls, Boulder or Denver, Chicago. The deciding factor will be lowest cost and will try to schedule in 2nd or 3rd week of July.

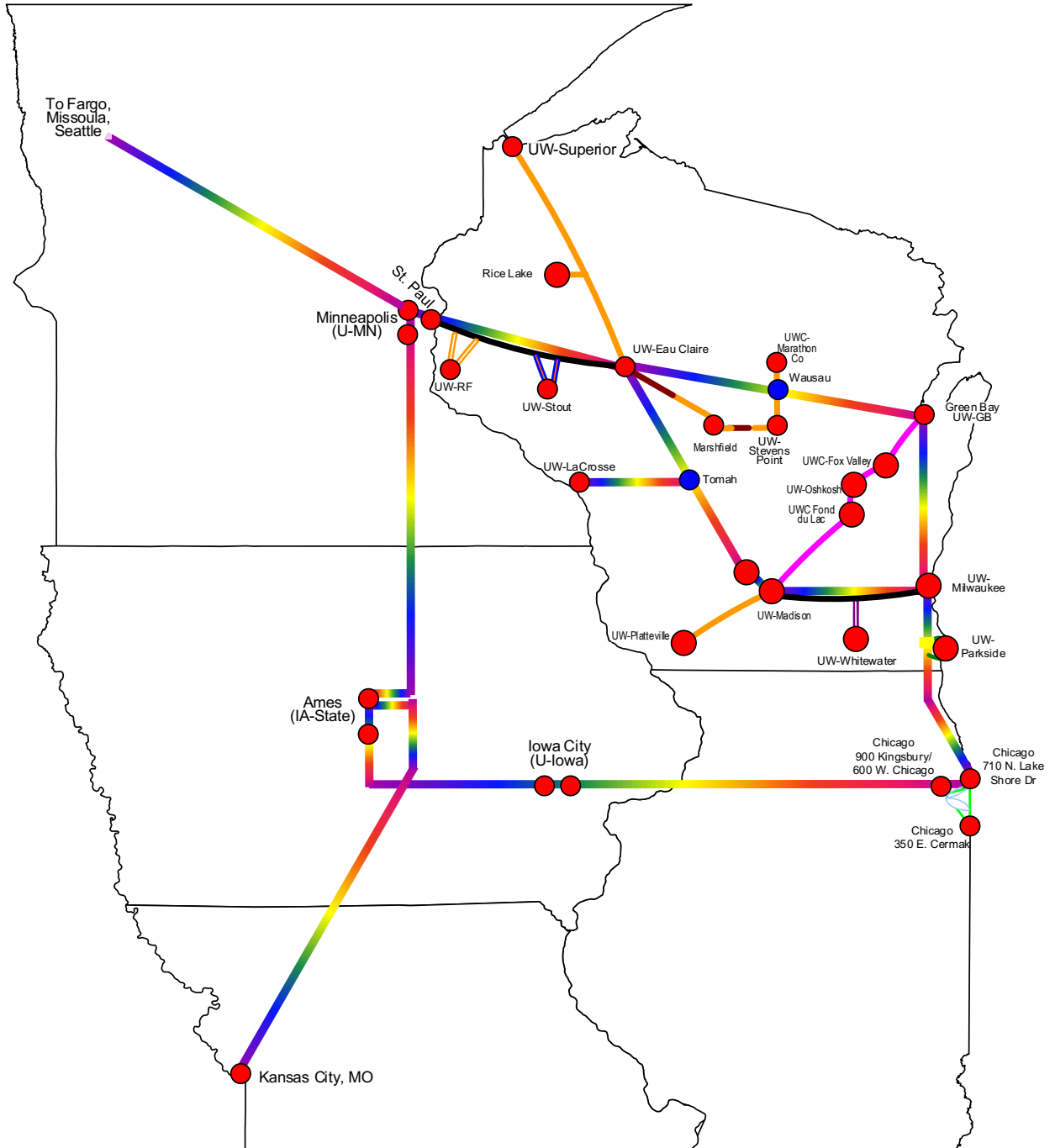
WI NTNC Updates

University of Wisconsin State Report

- Leadership changes at U-WI
 - John Krogman retiring 12/31/17
 - New UW CIO search commencing soon
 - UW-System CIO selection soon
- BOREAS-Net added WiscNet as an affiliate consortium member & considering other member/service opportunities
- BTAA (formerly CIC) OmniPop extended IRU for 104 strands of fiber in metro Chicago by 10 years (to 2034) with Level3 (now CenturyLink)
 - Extension includes Level3 “education AUP” that precludes competitive commercial traffic from 2024-2034
- Preparing 5-7yr CapEx/OpEx budget including 2020 network refresh with & without Infinera
- UW-System Network updates
 - No decision FCC Rural Healthcare application
 - 10k applications; if approved UW-System will receive <93.5% of what we’re eligible for due to \$400MM program cap and program demand
 - UW / AT&T relations evolving
 - considering transit purchase from AT&T
 - UW-System Network participating via OmniPoP in Internet2 DDoS service
- UW-Madison added 100Gbps circuit to Chicago; separated research & academic/admin traffic

BOREAS-Net & UW-System Network 2017

WI NTNC Updates



* Several groups involved in governance yet traffic flows seamlessly