



KINBER Update - SAC-PA2 Workshop

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KINBER Overview

Pennsylvania's Research, Education, and Community Network

- Established in 2010 through a \$99.6M grant from the NTIA funding 1800 middle-mile fiber build to re-establish a state-wide research and education network in Pennsylvania.
- Provides connectivity, technology infrastructure solutions, training and professional development opportunities tailored to support the needs of organizations in Pennsylvania ranging including colleges, universities, K12, libraries and healthcare organizations.

KINBER Network Map

KINBER, the Keystone Initiative for Network Based Education and Research, is a trusted technology partner that provides a strategic and competitive advantage to Pennsylvania-based organizations through high-speed broadband connectivity, collaboration, and innovative use of digital technologies.



- 1 GE Connection
- 10 GE Connection
- 100 GE Connection
- ★ Service Nodes

PennREN Connected Institutions

(updated April 2018)



Higher Education

Allegheny College
Bloomsburg University of Pennsylvania
Bucknell University
Bucknell University Small Business Development Center
Bucks County Community College
Butler County Community College
California University of Pennsylvania
Carnegie Mellon University
Cheyney University of Pennsylvania
Clarion University of Pennsylvania
Community College of Beaver County
Community College of Philadelphia
Delaware County Community College
Drexel University
East Stroudsburg University of Pennsylvania
Edinboro University of Pennsylvania
Franklin and Marshall College
Harrisburg Area Community College
Harrisburg Area Community College Lebanon Campus
Harrisburg Area Community College Midtown Campus
Harrisburg Area Community College York Campus
Indiana University of Pennsylvania
Kutztown University of Pennsylvania
Lafayette College

LaSalle University
Lehigh Carbon Community College
Lehigh University
Lock Haven University of Pennsylvania
Lock Haven University of Pennsylvania Clearfield
Luzerne County Community College
Mansfield University of Pennsylvania
Millersville University of Pennsylvania
Montgomery County Community College
Northampton County Community College
PASSHE Center City Multi Campus
Penn State Abington
Penn State Beaver
Penn State Behrend
Penn State Berks
Penn State Brandywine
Penn State DuBois
Penn State Fayette
Penn State Greater Allegheny
Penn State Harrisburg
Penn State Hazleton
Penn State Hershey
Penn State Lehigh Valley
Penn State Mont Alto
Penn State Schuylkill
Penn State Shenango
Penn State University Park
Penn State Wilkes-Barre

Penn State Worthington Scranton
Penn State York
Pennsylvania College of Technology
Pennsylvania Highlands Community College
Reading Area Community College
Shippensburg University of Pennsylvania
Slippery Rock University of Pennsylvania
Susquehanna University
Thaddeus Stevens College of Technology
Thiel College
University of Pittsburgh
University of Pittsburgh Bradford
University of Pittsburgh Greensburg
University of Pittsburgh Johnstown
University of Pittsburgh Pymatuning
University of Pittsburgh Titusville
University of Scranton
Villanova University
West Chester University of Pennsylvania
Westmoreland County Community College
K-12
Fannett Metal High School
Hempfield School District
Lancaster Country Day School
Penn Manor School District
The Hill School
Troy Area School District

Hospitals/Healthcare

Butler Memorial Hospital
Geisinger Health System

Library/Library System

Centre County Federation of Public Libraries
Union County Library System

Public Media

WQED Multimedia

State/Local Government

Area Transportation Authority of North Central PA
Lackawanna County
Borough of Pottstown

Non-Profit/Cultural

Camp Susque
PSECU
Meta Mesh Wireless

Commercial

Bopax/Subway
DSS/Contegix
Empire Access
MAW Communications
New Leaf Initiative
The Pajama Factory
River Valley Internet
Sunesys/Crown Castle
TierPoint
The WARE Center
Zito Media

SAC PA Workshop – Day 1 Wrap Up

- Importance of an integrated cyberinfrastructure environment in support of campus based research and education activities.
- Wide set of existing infrastructure and service resources available regionally to help navigates and support the critical services within your campus environment.
- Importance of People resources – learning and leveraging from others; collaborations; affinity groups.

SAC PA Workshop – Day 1 Wrap Up

- Significant funding opportunities are available from the NSF and other regional and national organizations
 - Not just for Research 1 universities.
 - Not just faculty, but for information technology staff as well.
 - For cyberinfrastructure, software development and in some cases support personnel.
 - Collaborative proposals are encouraged.

Cybersecurity Working Group (CSWG)

KINBER Cybersecurity Working Group established in Fall 2016 in order to provide a collaborative environment on information sharing, best practices, guest speakers/topics, collaborative projects, grant opportunities, and more in the area of security.

Cybersecurity working Group meets monthly virtually on the fourth Tues. of the month (usually).

Open to anyone in Pennsylvania.

National Omni-SOC Discussions

- Indiana University announced in March 2018 the establishment of a Big Ten Omni-SOC led by IU GlobalNOC, which is also the PennREN NOC.
- Omni-SOC discussions happening at a national level among the R&E community about regionalization of Omni-SOC models.
- Scaling Omni-SOC services and support to interested communities through regional aggregation models.
- KINBER is one of 5 R&E Networks (FLR, MCNC, OSHEAN, GPN) participating in these early discussions.

KINBERCON

KINBER's annual conference which has a cybersecurity track each year featuring talks, presenters, programs from Pennsylvania and around the country.

2018 security sessions included:

- Charlie Gero, CTO, Akamai Technologies, *Zero Trust* (Keynote)
- Von Welch, Director, IU CARC; Director, TrustedCI , *Cybersecurity and Open Research: A Match Made in Higher Ed*
- Peter Romness, Cybersecurity Programs Lead, Cisco, *GDPR*
- In-person meeting of Cybersecurity Working Group

Resources

- KINBER Cybersecurity Working Group
 - June 27, 2018 Cybersecurity Working group meeting information
<http://events.eventzilla.net/e/iune-cybersecurity-working-group-meeting-2138961628>
 - Meeting Archives
<https://kinber.box.com/s/xeiz85v7tktol36udpcms4ucl19ktxk3>
- KINBERCON 2018 Archives
 - <http://kinbercon.org/archive-2018/>
- OmniSOC
 - <https://er.educause.edu/blogs/2018/4/omnisoc-whv-higher-ed-needs-operational-collaboration-in-cybersecurity>

Q&A - Thank you

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