

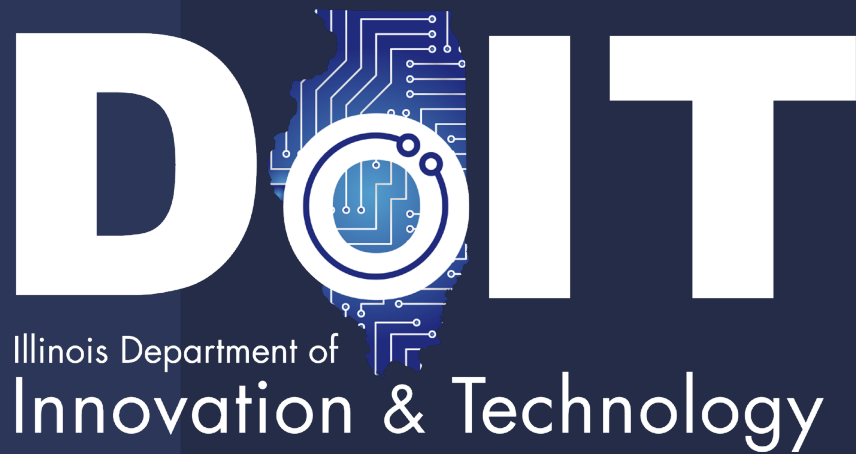


DISCOVER THE BENEFITS OF THE ILLINOIS K-12 BROADBAND NETWORK

NOVEMBER 7, 2024

**ILLINOIS
CENTURY
NETWORK™**
Illinois Department of Innovation & Technology

DOIT
Illinois Department of
Innovation & Technology



WELCOME

ILLINOIS CENTURY NETWORK TEAM

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ILLINOIS K-12 BROADBAND NETWORK & E-RATE CONSORTIUM

K-12 School
Districts and
Libraries

Broadband Circuits

Illinois Century
Network

Services

Public Internet
Access

E-rate
Administration

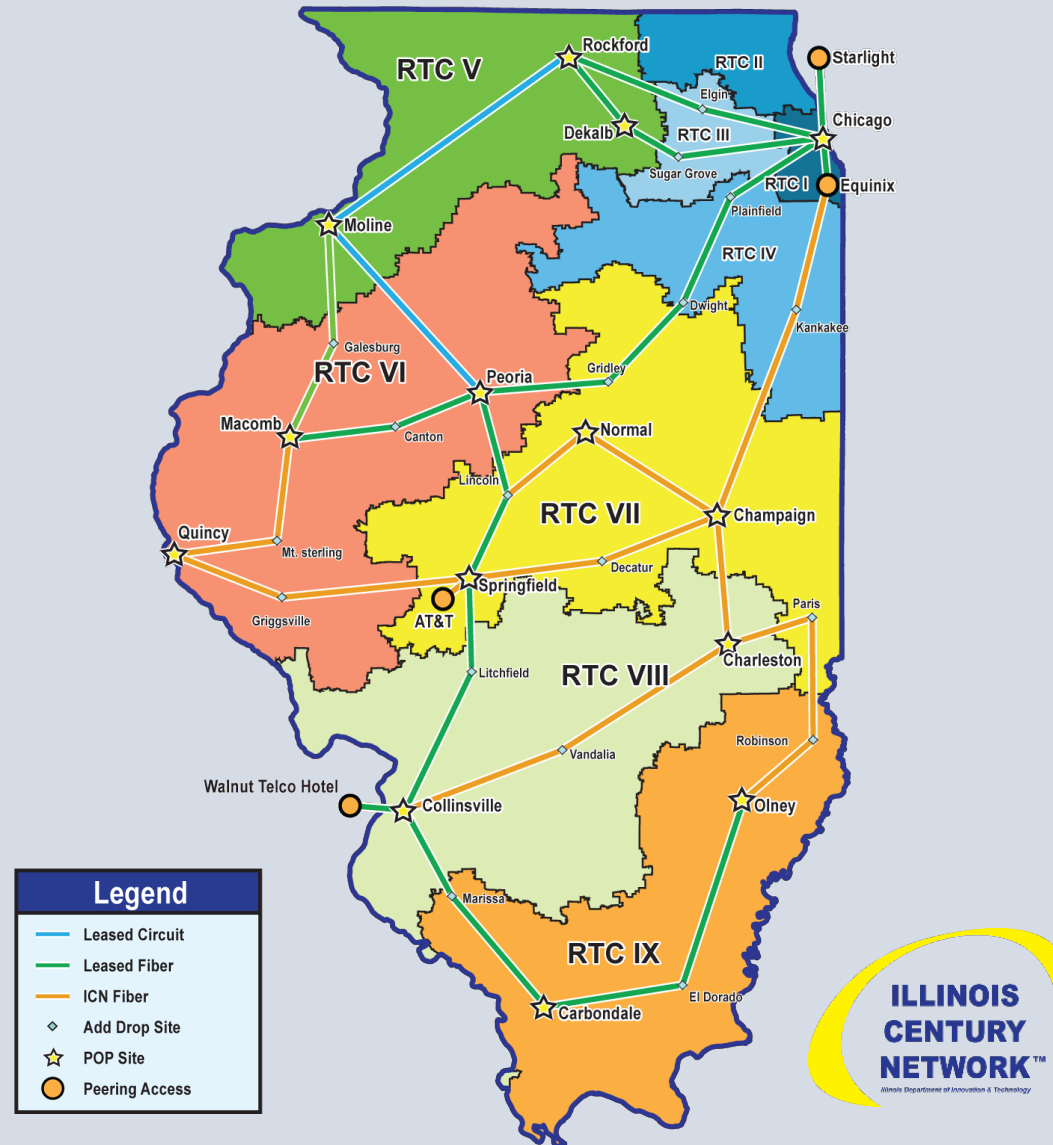
ICN AT A GLANCE

OVERVIEW

- Open Access
- 2,000 Miles of Fiber
- 200GB Backbone
- High Availability
- High Speed
- Internet2 Connection

SERVICES

- Internet -10Mb to 10Gb+
- Point to Point Ethernet
- Dark Fiber
- Co-location
- Content Filtering
- Centralized Firewall
- Multicasting
- QoS
- Equipment Discounts
- Internet2
- DDOS Detection and Mitigation
- Network Consulting & Provisioning



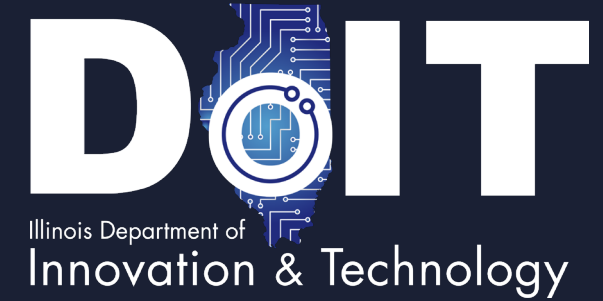
HISTORY

- 1995 created as a K-12 network by ISBE
- 1999 20 ILCS 3921 created the ICN
- 2004 ICN consolidated into CMS
- 2005 state agency network migrated to ICN
- 2010 awarded \$96M in federal stimulus & state capital funds to build fiber backbone
- 2014 fiber backbone completed
- 2019 awarded \$20M for upgrades and K-12 connectivity

CUSTOMERS

- 2,948 K-12
- 154 Higher Education
- 170 Libraries
- 1,566 State & Local Government
- 66 Service Provider Interconnects
- 22 Wholesale Customers

TIMELINE



- Establish Consortium
- Competitive Procurements
- ICN upgrades
- Unlimited Internet for 183 currently connected districts (21%)
- Security Services

Year 1
July 2019

- ICN Upgrades
- Unlimited Internet expanded to 223 districts (26%)
- Security Services

Year 2
July 2020

- ICN upgrades
- Unlimited Internet expanded to 324 districts (38%)
- Security Services

Year 3
July 2021

- ICN POP upgrades
- Unlimited Internet expanded to 383 districts (45%)
- Security Services

Year 4
July 2022

- Unlimited Internet expanded to 490 districts (58%)
- Security Services

Year 5
July 2023

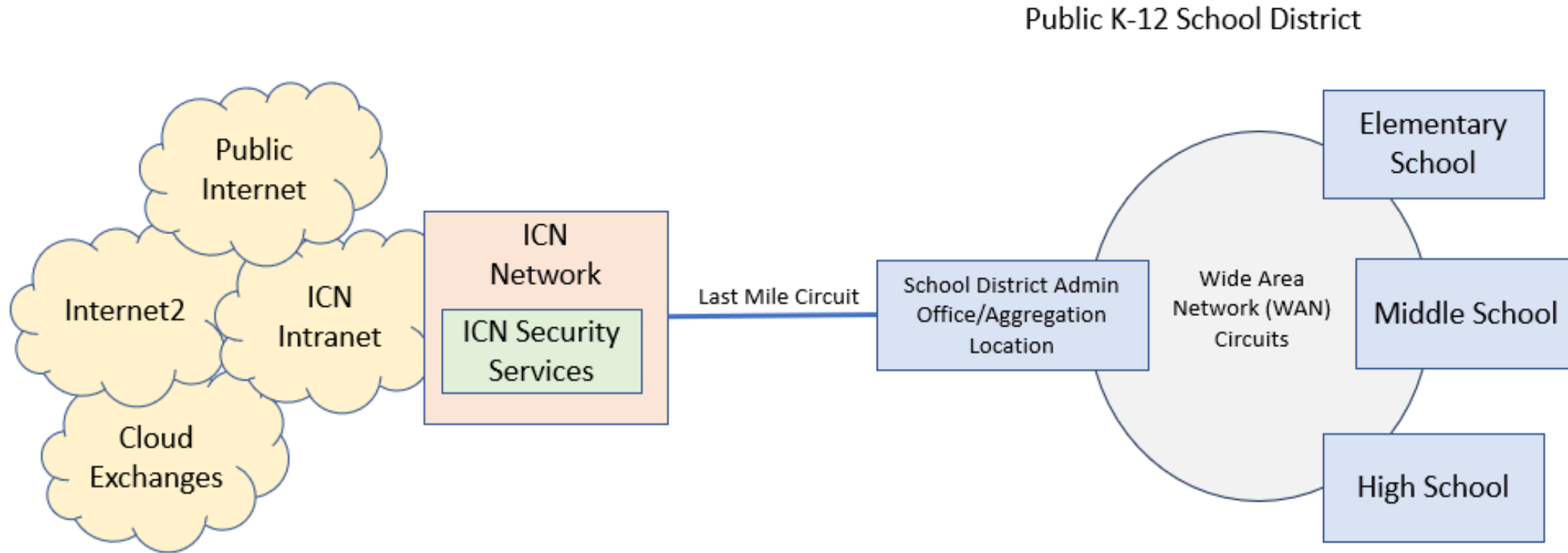
- Unlimited Internet expanded to 567 districts (66%)
- Security Services

Year 6
July 2024

GOAL:

Ensure all 852 public K-12 school districts have sufficient, secure, and fully funded Internet bandwidth to support digital learning.

THE DoIT K-12 CONSORTIUM - ARCHITECTURE



SECURE INTERNET ACCESS - BROADBAND CIRCUITS - ROUTERS - SECURITY SERVICES

THE DoIT K-12 CONSORTIUM - SECURITY SERVICES



AUTO DISTRIBUTED DENIAL
OF SERVICE PREVENTION



VULNERABILITY
SCANS



CISCO UMBRELLA



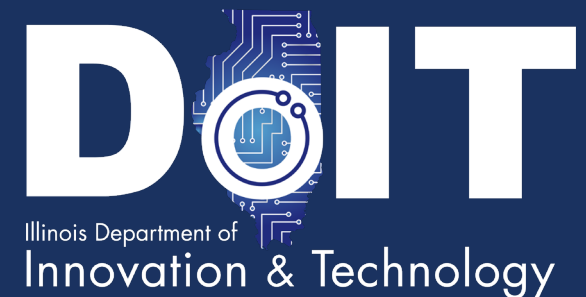
PUBLIC K-12 TRAFFIC
SEPARATION

All Illinois E-rate Eligible
Entities

Public K-12 (no charge)

Non-Public K-12 – Pass
Through

THE DoIT K-12 CONSORTIUM ELIGIBILITY



DoIT K-12 CONSORTIUM - JOINING

- Receive Internet access via the ICN, and receive ICN services
 - Can connect to the ICN via your own circuit or have the consortium procure the circuit
- Consortium can also procure your WAN circuits.
- Document available that describes the ICN services, and provides step by step guidance on E-rate Form 470 to procure your own circuit to the ICN

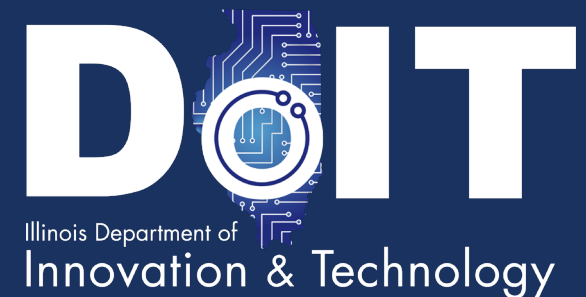
ICN Services

- Requires a connection to the ICN, a point to point connection from your head end location to the ICN

Why procure circuits via the consortium?

- The awarded vendor may be the same as your current vendor
- You can pick and choose the consortium circuits to move forward with – for example, you may choose just the last mile circuit to the ICN
- Allows to compare pricing
- You're not obligated to move forward with the consortium

THE DoIT K-12 CONSORTIUM WHY JOIN?



2024-2025 SCHOOL YEAR

567
PUBLIC K-12 CUSTOMERS

20
VENDORS

1609
CIRCUITS

Vendor	Circuits
Comcast	577
AT&T	510
Vero Fiber Networks	156
MCC Network Services	105
Delta Communications	41
Consolidated Communications	40
iFiber (now Stratus Networks)	40
Frontier North, Inc	35
Metro Fibernet, LLC	26
Wabash Independent Networks	16
MTC Communications	12
Missouri Network Alliance	12
Adams TelSystems	11
Stratus Networks	8
Futiva	6
Syndeo Networks, Inc	5
Northern Illinois University	3
CIRBN	3
Velocity Fiber LLC	2
Windstream Services, LLC	1
Total number of circuits	1609

DoIT K-12 CONSORTIUM OUTREACH TEAM



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DoIT K-12 CONSORTIUM REGIONAL TECHNOLOGY CENTERS (RTC)



9 Regional Technology Centers (RTC)
servicing all of Illinois

Provides local consultation services and
advanced technical support

Know your local RTC Team ... staff contact is
available at Illinois.net

RTC staff will assist with installation,
provisioning and testing for circuits

24/7 NOC Support

STAY CONNECTED

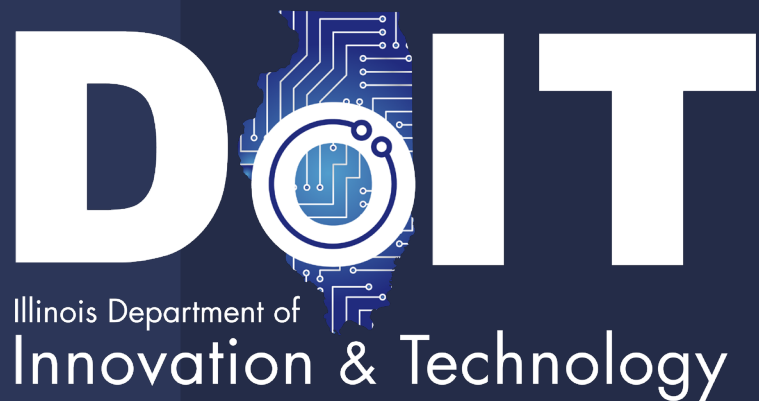
CONTACT US

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Social Media: [@illinoisdoit](https://twitter.com/illinoisdoit)





READY TO JOIN?

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Q&A

