Chicago Southland Fiber Network – Cook County Grant for Expansion 2022

Urban Communications, Inc.
Urbancom.net Fiber Operations, Inc.
Clearvon LLC. (Illinois CLEC)

Urbancom.net Wireless, LLC
Urbancom.net Fiber Operations, Inc.

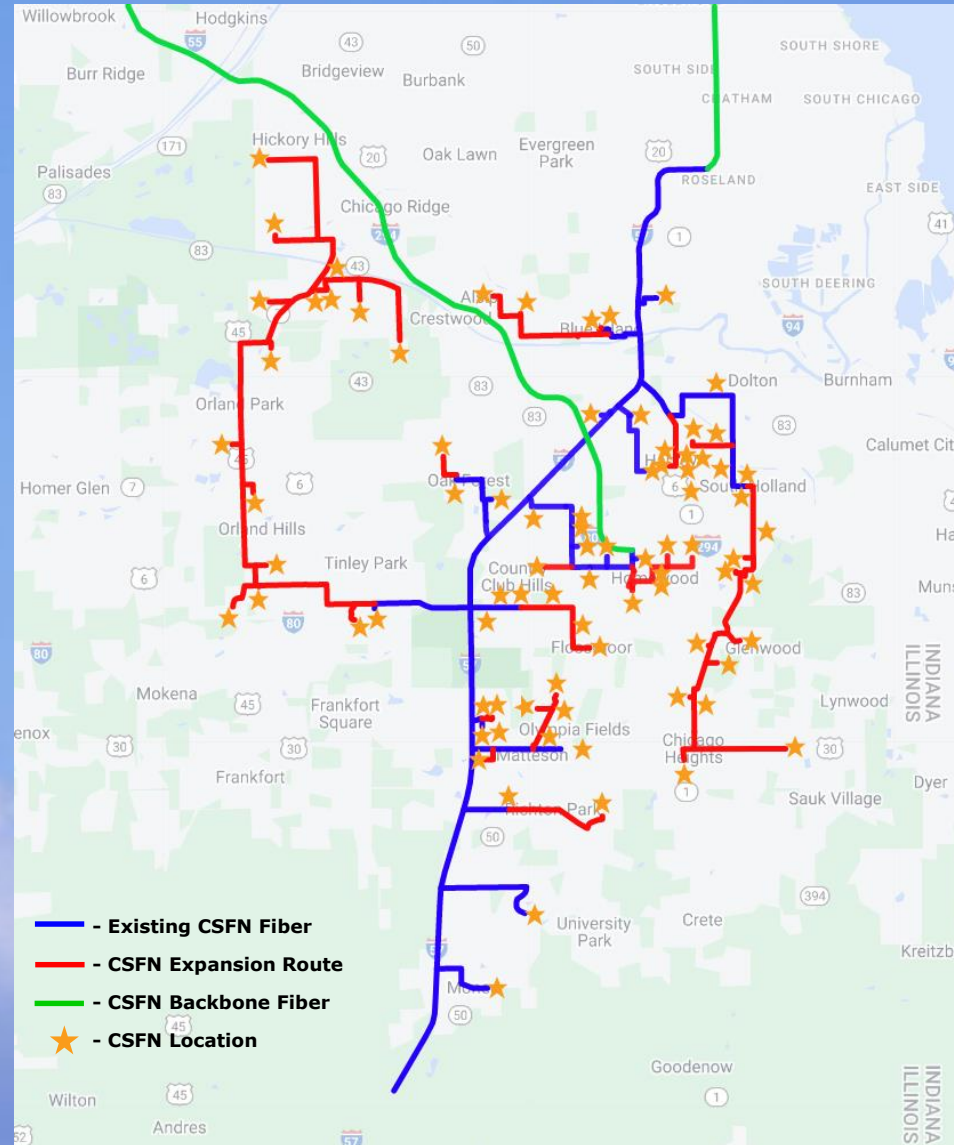**BROADBAND INTERNET SERVICES PROVIDER**

CSFN History

- The Chicago Southland Fiber Network was initially constructed with Build Illinois funds with the design starting in 2012. The network went live in 2015.

- The network initially connected SSMMA member communities adjacent to I-57 with the $6M state funding provided under the state grant.

- In January 2020 the Cook County Board of Commissioners adopted a resolution entitled "Creating Digital Equity in Cook County" to address connectivity for unserved and underserved communities particularly in the south suburbs of the county.

- Cook County received an initial Connect Illinois Grant from the state of Illinois for nearly $1.9 million and has committed an additional nearly $2.3 million to expand the broadband infrastructure in the Chicago South suburbs to support the expansion of the Chicago South and fiber network

- Cook County has additionally committed federal ARPA dollars for additional expansion beyond the original routes approved by the State of Illinois.

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CSFN Expansion

- The expansion will allow constituent customers to connect to a multi 100 GB backbone allowing for 100 GB, 10 GB and 1 GB connections at prices far below commercial carrier costs.

- The network will allow traffic between government locations in the Southland and other interconnected government networks to be direct and not transverse to the public internet at large.

- Municipal networks can connect between Village hall locations, Police, Fire and Public Works in a direct fashion without traffic going through distant central offices as with commercial carriers.

- Direct connection to Cook County and the State of Illinois Networks for CABS and LEEDS

- Connect via a Layer 2 connection to area PSAP dispatch locations CALCOM, SOUTHCOM, E-COM

- Backhaul data from video surveillance cameras directly to police dispatch

Cook County & State of Illinois Expansion Grant

- Existing CSFN Fiber
- CSFN Expansion Route
- CSFN Backbone Fiber
- CSFN Location

Benefits of the CSFN Connections to Fiber Services Provided by Urbancom

Dedicated Fiber Connections

Backup/Disaster Recovery

Microwave Broadband

VoIP/Hosted Voice PBX

Enterprise Co-Location

Private Fiber

Email/Cloud Hosting

Consulting Services

Spam /Email Filtering

Municipality Infrastructure

Website Development

IP Security Cameras

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Urbancom Fiber Solutions

- Operating on Urbancom owned fiber and BTOP funded fiber networks, (iFiber & SSMMA / CSFN / Cook County / City of Aurora / Kane County) Urbancom can provide Metro Ethernet services for both internet transit and private connectivity to customer locations within a large service footprint at speeds up to 10 Gbps/10 Gbps.

- Urbancom can connect customers directly to major internet backbone locations in Chicago, Oak Brook and St. Louis.

- Urbancom is able to provide broadband services to customers within its service footprint that many competitors are unable to reach.

Urbancom Wireline & Fiber Services

- **_Tier 1 Internet Service_**
  Urbancom has Wholesale interconnect agreements with major backbone providers including Cogent, GTT, United-IX Exchange as well as private peering connections including a connection with the Illinois Century Network (State of Illinois). We connect with up to a 100 GB fiber connection to 350 E Cermak, Chicago. Capacity to increase to multiple 100 GB fiber connections.

- **_Highly Redundant_**
  Self-healing redundant Cisco IP architecture and Ciena fiber transport hardware offering high-performance Dedicated Internet Access services that can support multiple, mission-critical traffic types concurrently, without fear of bandwidth starvation or service loss.

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Urbancom VoIP Solutions

- *Hosted Cisco Call Manager Solution & SIP based hosted PBX*

  A hosted Cisco or SIP VoIP solution allows an organization to leverage our hosted solution to provide enterprise level solutions to small or large customers.

- *Scalable*

  Traditional PBX (Private Branch Exchange) based phone systems are limited in ability to scale and it may be necessary to periodically scrap existing systems and replace hardware; this is not the case with VoIP systems. We can provide SIP trunking to scale as the customers needs grow.

- *Next Generation Video Conferencing*

  Urbancom SIP based H.264 VoIP video conferencing allows remote users to collaborate in live HD 720p tele-presence at cost effective rates.

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Co-located Server, Cloud & Hosted Servers

- Co-location at secure data centers in Oak Forest, IL and Oak Brook, IL. Our Oak Brook facility is housed in a 48,000 sq foot (SSAE) No. 16 certified facility.

- Connectivity to multiple tier 1 internet service providers and Urbancom fiber.

- 24 hour monitoring via Urbancom NOC.

- State of the Art redundant power and environmental controls.

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CSFN Network Services

- 24/7 365 Urbancom NOC resources include CISCO CCNA, CCDA, CCDP, CCNP, CCIE & CISM level engineers.

- Configuration and deployment of best of breed practices to safeguard critical assets and data.

- Establishment of security processes based upon industry best practices.

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Cloud Computing – Data Centers

Colocation & Cloud Computing Oak Brook & Oak Forest IL
Our data center suite is built to meet the needs of the most demanding IT environments. We have designed services to deliver the reliability that businesses need to ensure they have the necessary resources to operate. Our data centers feature:

- **Redundant Power**
- **N+1 Redundant Generator Systems**
- **N+1 Cooling**
- **Multi Layer Security**

Managed Security – Many types of Managed Security Services are available to ensure that your co-located or managed hosting environment is secure. Managed Firewall, Intrusion Detection, Managed VPN. With additional services like email spam and virus-filtering, we offer a comprehensive suite of managed security solutions to cover all aspects of your infrastructure.

Managed Backup and Recovery – Urbancom managed backup solutions feature industry leading backup systems protect your critical business data from loss and ensure timely recovery. Veeam Cloud Connect provider.

Managed Storage – Storage Area Network (SAN) and direct attached storage improve the ability for you to have reliable, consistently available data with Urbancom managed solutions.

Strategic Partners

Customer References

City of Aurora	Cook County – Bureau of Technology	Kane County
State of Illinois	iFiber	Oak Lawn Park District
Material Handling Services	Turner Industrial	Village of Frankfort, IL
Village of Tinley Park, IL	Orland Fire Protection District	Governors State University
Winnebago County, IL	Warren Tws. High School District	Village of Glenview, IL
PADS	Village of Franklin Park, IL	Village of Dixmoor, IL
Schwaller Insurance	Salem Media Group	South Suburban College
Atlas Putty	Tinley Park Convention Center	Village of Calumet Park (Calcom Dispatch)
Lincoln Energy	South Suburban Mayors & Managers Asn.	Midwest Generation
Village of Monee, IL	Village of Buffalo Grove	Village of Olympia Fields
City of Green Bay, WI	Northern Illinois University	IGOR

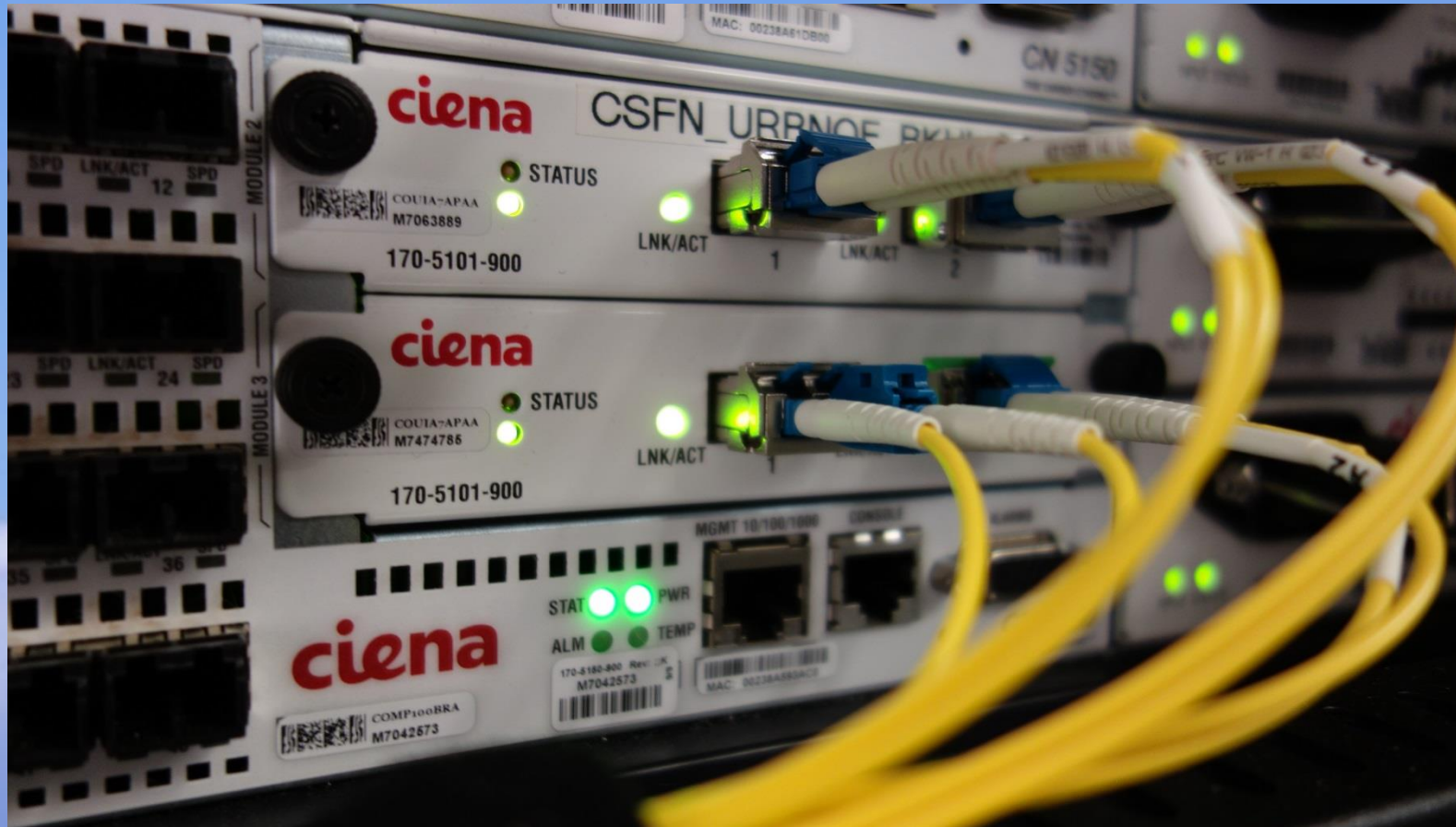# Tower Construction - iFiber

Fiber Construction - CSFN

Former Gov. Quinn & Urbancom CEO Ed Urban
Discuss Gigabit Fiber Optic Networks

Senator Durban & Urbancom CEO Ed Urban Discuss Broadband for Economic Development

Urbancom.net – Providing High-Speed Broadband Internet Service Since 1997

Multi-Gigabit Ultra High-Speed Fiber Optic Network

Safe – Clean Agent Fire Suppression Protects High Density Virtualized Servers