

Barnes City Cooperative Telephone Company
Network Management Policy and Disclosures
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SCOPE OF COVERAGE OF SUBMISSION

Name of Filer: Barnes City Cooperative Telephone Company

Filer's FCC Registration Number 0003-7458-25

Trade name or DBA: N/A

Type of ISP service: wireline DSL

Description of service covered by the disclosure: Broadband Internet access service provided to business and residential customers.

Effective date: January 21, 2019

Type of Filing: First time disclosure

CERTIFICATION AS TO ACCURACY

I, Doris Freeborn, Office Manager for Barnes City Cooperative Telephone Company, certify that I have examined the information contained herein and that all such information is true and correct, to the best of my knowledge, information and belief.



Doris Freeborn

OVERVIEW

As an Internet service provider ("ISP") Barnes City Cooperative Telephone Company ("we," "us" or the "Company") invests significant resources to bring Internet access to our customers and strives to provide customers an optimum online experience that enables them to access all available and lawful online content and services. The purpose of this document is to disclose information regarding the Company's network management practices, performance, and commercial terms of its broadband Internet access service, sufficient for consumers to make informed choices regarding use of such services and for content, application, service, and device providers to develop, market, and maintain Internet offerings, consistent with applicable federal regulations.

In delivering broadband Internet access services, we may utilize wholesale or other "upstream" providers. This Network Management Policy is specific to the Company's network and network management practices, and services may also be subject to the network performance and network management policies and practices of our upstream providers. Without limiting the preceding, Aureon is the Internet upstream provider for the Company. Information and documents concerning Aureon's policies and practices can be found online at www.netins.net.

NETWORK MANAGEMENT PRACTICES

General. High-speed bandwidth and network resources are limited and managing the network is essential to promote the use and enjoyment of the Internet by all of our customers. The Company is committed to providing the best online experience possible for all of its customers and uses reasonable network management practices to ensure that our services are used in ways that are consistent with the specifications of a shared network. The network management practices used by the Company are consistent with industry standards. For example, we use tools and practices to reduce the negative effects of spam, viruses or other harmful code or content, security attacks, network congestion, and other risks and degradations of the service. By engaging in reasonable

and responsible network management, the Company can deliver the best possible broadband Internet experience to all of its customers.

The primary features of the Company's network management practices are:

- **We do not block, throttle, or inhibit any lawful content, specific applications or classes of applications.**
- **We do not restrict the types of devices that can be connected to our network.**
- **We do not engage in paid prioritization or affiliated prioritization.**

Congestion Management. The Company proactively monitors its network on a continual basis to determine if an area of congestion could occur, and if areas of possible congestion are identified, may make network improvements or prior to any congestion occurring. These network improvements may include: the addition of network hardware or network segregation to accommodate additional traffic. If a period of congestion occurs, customers may experience things like: longer times to download or upload files, surfing the Web may seem somewhat slower, or playing games online may seem somewhat sluggish. The Company does not manage congestion based on the online activities, protocols or applications an individual customer uses; it only focuses on the areas with the heaviest usage and works to alleviate any congestion prior to any customer impact. The purpose is to eliminate periods of congestion as quickly as possible.

Application or Content Specific Behavior. The Company does not discriminate against particular types of lawful online content. The Company provides its customers with full access to all the lawful content, services, and applications that the Internet has to offer. However, we are committed to protecting customers from spam, phishing, and other unwanted or harmful online content and activities. In that connection, we use industry standard tools and generally accepted practices and policies to help ensure that our customers are protected from unwanted or harmful content and activities. The Company's use of these tools, techniques and policies help to identify and restrict certain harmful and unwanted online content, such as spam or phishing web sites. In other cases, these tools, techniques and policies may permit customers to identify certain content that is not clearly harmful or unwanted, such as bulk email or Web sites with questionable security ratings and enable those customers to inspect the content further if they want to do so.

Device Attachments. The Company allows for customer owned equipment to be used on the network, so long as such devices do not interfere with the Company's network or our ability to provide the services. In any, case customer-owned devices are not supported or managed by the Company.

Security. The Company (directly or via upstream providers) employs certain practices to help prevent unwanted communications such as spam as well as protect the security of our customers and network. These practices may include: limiting the number of login, SMTP, DNS, and DHCP transactions per minute (at levels far above "normal" rates) that customers can send to servers in order to protect them against Denial of Service (DoS) attacks and blocking ports that commonly used to send spam, launch malicious attacks, or steal a customer's information, (for example, SQL exploits and Microsoft communication protocol ports). We do not make detailed disclosures concerning these practices in order to better maintain the effectiveness of these defensive measures, which ensure that these critical services are available for all of our customers. In addition, The Company conducts several security initiatives, and offers security tools for our customers, such as DoS monitoring and virus scanning software.

SERVICE PERFORMANCE

Service Technologies. The Company provides broadband Internet access utilizing fiber, coaxial, copper and wireless service technologies. Speed and other performance characteristics may vary based on service technology, and not all service technologies are available in all locations.

Advertised Speeds. The Company provides residential and business customers with a variety of high speed Internet service packages, including the service packages and performance tiers identified in "Commercial Terms" below. The Company advertises its speeds as "up to" a specific level based on the tier of service to which a customer subscribes, and engineers its network to ensure that its customers can enjoy the speeds to which they subscribe. However, the Company does not guarantee that a customer will actually achieve those speeds at all times. In the absence of purchasing an expensive, dedicated Internet connection, no ISP can guarantee a particular speed at all times to a customer.

Actual Speeds and Latency. The "actual" speed that a customer will experience while using the Internet depends upon a variety of conditions, many of which are beyond the control of any ISP. These conditions include:

- Performance of a customer's computer or device, including its age, processing capability, its operating system, the number of applications running simultaneously, and the presence of any adware and viruses. You should make sure you are running the most up-to-date operating system your computer or other Internet connected device can handle (with all available patches installed) to maximize your connection speeds.
- Type of connection between a customer's computer and modem. If there is a wireless router between your modem and your Internet connected device, the connection speed you experience can often be slower than direct connections into a router or modem and depends on the model and configuration of the router that you use. Certain routers are able to pass data to your Internet connected device more quickly than others. Wireless connections also may be subject to greater fluctuations, interference and congestion. Wireless modem connections used with higher speed tiers may be particularly impacted, as many wireless connections do not perform at the speeds delivered by these tiers.
- The distance packets travel (round trip time of packets) between a customer's computer and its final destination on the Internet, including the number and quality of the networks of various operators in the transmission path. The Internet is a "network of networks." A customer's connection may traverse the networks of multiple providers before reaching its destination, and the limitations of those networks will most likely affect the overall speed of that Internet connection.
- Congestion or high usage levels at the website or destination. If a large number of visitors are accessing a site or particular destination at the same time, your connection will be affected if the site or destination does not have sufficient capacity to serve all of the visitors efficiently.
- Gating of speeds or access by the website or destination. In order to control traffic or performance, many websites limit the speeds at which a visitor can download from their site. Those limitations will carry through to a customer's connection.
- The performance of modems or other equipment installed at your premises. Modem performance may degrade over time, and certain modems are not capable of handling higher speeds. Our highest speed services may be particularly impacted by computer and communications limitations. We encourage you to promptly contact customer service if you have any concerns about your modem performance or speed capabilities.

Real Time Applications. The Company offers a variety of service packages, with different speeds. For each of these packages, the Company utilizes service technologies with latency characteristics suitable for real-time applications such as voice communication or video streaming services.

Customer Speed Test. The Company offers its customers to the ability to test the speeds that they are receiving on the Company's network from the customer's computer to a test site on the Company's network. Simply go to the speed test site for your service location to test your connection at: aureon.speedtestcustom.com. Please note that this and other commercially available speed tests are dependent on several of the factors outlined above, especially the customer's own Wi-Fi network. Therefore, these tests do not necessarily reflect the performance of the Company's network alone.

COMMERCIAL TERMS

Service Packages. The Company offers a variety of service packages, which include pricing for Internet services that vary depending upon the plan and whether the services are bundled with one or more of our other service offerings. Please see below for monthly pricing information for our currently available service packages:

Available Service Plans:

	<u>Download</u>	<u>Upload</u>	<u>Price</u>
DSL*	2	1	\$34.95
DSL*	4	1	\$44.95
DSL*	6	1	\$59.95

* Service Plan requires bundling with wireline telephone service and separate, \$50 installation fee

Except as disclosed above, the Company does not limit the amount of usage (by imposing specific data caps) or impose usage-based fees. Except as disclosed above, the Company also does not impose fees for early termination.

Impact of Non-Broadband Internet Access Services. The Company does not currently offer other data services that affect the last-mile capacity or performance of our broadband Internet access services.

Privacy and Other Policies. In addition to this Network Management Policy, the Company's broadband Internet access services are subject to our Privacy Policy, Acceptable Use Policy and Terms of Service, the most recent versions of which are available at our business office, 445 Broadway Street, Barnes City, Iowa.

Redress Options. If you have questions, concerns or inquiries regarding this Network Management Policy or customer redress options, please contact us via phone at: (641) 644-5214 or email at dorism@netins.net.