



Metro Ethernet for Government

Enhanced Connectivity Drives the Business Transformation of Government

Why You Should Choose Cox Metro Ethernet

To meet the critical demands of better supporting local emergency services and to foster better collaboration between government and public sector entities, local and state governments are substantially increasing their requirements for secure, reliable, high-bandwidth connectivity. This instant connectivity is transforming government services and the way our public leaders and citizens interact.

To gain additional network flexibility and capabilities at a profitable price point, Cox Business encourages governmental entities and others in the public sector to investigate our Metro Ethernet services. Cox Metro Ethernet services can cost-effectively provide robust bandwidth, enable new services, and support the convergence of voice, data and video over one reliable network.

Technology Is Key to Enhancing Delivery of Government Services

Always-available, “Always On” connectivity helps bridge the gap between the requirements for services from constituents, institutions, public service entities and businesses. The need for a secure, reliable and high-capacity network with Cox Business is what sets government entities apart in the quality of care delivered to customers.

Today, local governments and associated private agencies are challenged by the demand to provide more communications capacity for the government agencies they support. Specifically, that challenge is finding a reliable technology solution for the following key imperatives:

Secure Inter-Agency Communication and Collaboration

Within a municipality or other government agencies, the process of individuals or organizations sharing resources is what a collaborative environment is all about. This communication between departments fosters better planning, implementation and evaluation of the project at hand. With a Metro Ethernet solution, local agencies can now not only coordinate their efforts with others in the community, but also improve the delivery of overall services to their constituents. This improvement manifests itself by providing fast, remote access to centrally managed applications and critical data. Obviously, this transfer of information between departments, outside contractors/businesses and the public is under strict information policies as set by federal and state standards. With this continued adoption of new technologies comes the increased requirement for robust connectivity and secure, high-speed, resilient bandwidth.

Supporting E-Government

E-government refers to the use by government agencies of information technologies (such as Wide Area Networks, the Internet and mobile computing) that have the ability to transform relations with citizens, businesses and other arms of government. The objective of an e-government technology approach is to improve public sector services, transactions and interactions. In the end, this results in government organizations being able to deliver better service and

achieve operational productivity for their citizens. These enhanced technologies also enable delivery of services for more immediate interactions with their business and industry constituents.

Enhanced Delivery of Emergency Services

To ensure the safety and security of citizens, collaboration between agencies and governmental entities is essential. Police, fire, ambulance, biohazard teams and other organizations in the public sector are the first-wave responders to all local emergencies and natural disasters. Communication and coordination of efforts and resources is essential in the delivery of the needed swift response to the particular emergency at hand. In the business of saving lives, seconds make the difference in determining the best possible outcome of an emergency situation. First responders need reliable, interoperable broadband communications to support real-time, high-quality multimedia content and to open up real-time access to valuable information sources, like crime labs and closed-circuit video.

Promoting Local Economic Growth

The viability of a community is linked to its access and use of information and communications technologies. Technology today is as vital to economic growth as transportation and utility systems were in the past. A key government responsibility is to spur economic growth with new jobs, as well as increase productivity, innovation and investments. Connected communities, where a city/community utilizes a shared infrastructure to deliver citizen-centric services that support economic and social growth, and attract higher-level businesses and employees.

Convergence of Voice, Data and Video

The mission of government is to protect and serve the citizenry. In the digital economy, that objective is accomplished by using enhanced technology and creating intelligently designed networks that adapt as times and needs change. IP-based convergence, which brings together all forms of communication onto a single infrastructure, is a critical concept in modern telecommunications. The days of legacy technology and siloed operations are on the road to extinction.

Cox Metro Ethernet Meets the Needs of Government

Cox Metro Ethernet allows for the connection of multiple locations through the simplicity and reliability of Ethernet over a highly resilient, self-healing MPLS core infrastructure providing our customers with scalable solutions that are designed to carry converged services such as voice, data and video.

Government Requirement	Cox Metro Ethernet Service
Communication/Collaboration	
<ul style="list-style-type: none"> • Ever-increasing bandwidth needs • Anytime, anywhere access • Real Time Applications such as VoIP, Video Conferencing and Video Monitoring for critical infrastructure, crime prevention and homeland security measures 	<ul style="list-style-type: none"> • Cost-effective, scalable bandwidth up to 1Gb and beyond • Near-ubiquitous availability of Ethernet over Cox's Hybrid Fiber Coax Network, enabling quick deployment and unique applications such as traffic cameras, video surveillance and digital signage for public safety
Supporting E-Government	
<ul style="list-style-type: none"> • Regulatory compliance • Private, secure connectivity • Resiliency • Secure access to critical data 	<ul style="list-style-type: none"> • Standards-based MEF-certified Ethernet solutions • Private Metro Ethernet solution backed by stringent security safeguards and monitoring
Enhanced Delivery of Emergency Services	
<ul style="list-style-type: none"> • Reliable communications • Security • Anytime, anywhere access 	<ul style="list-style-type: none"> • Extensive facilities-based network coverage within our markets • Highly redundant and reliable metro network architecture • 24/7 support and local network monitoring
Promoting Local Economic Growth	
<ul style="list-style-type: none"> • Connection to multiple locations • Private, secure connectivity • Instant access to critical data • Scalability 	<ul style="list-style-type: none"> • Strong local community presence in markets Cox Business serves • Extensive facilities-based coverage and flexible solutions
Convergence of Voice, Data and Video	
<ul style="list-style-type: none"> • Single network – voice/data • Voice over IP • Video Traffic Monitoring, conferencing and surveillance for public safety • Collaboration 	<ul style="list-style-type: none"> • High-speed, metro-area-wide Ethernet connectivity to enable voice, data and video • Class of Service support for reliable voice and video communications



Cox Metro Ethernet Service

Extensive Availability With Flexible Fiber and HFC Access

Cox Business is unique in its ability to deliver access to Metro Ethernet services over its own direct Fiber-To-The-Premise (FTTP) and Hybrid Fiber Coax (HFC) connections. An array of Metro Ethernet services and topologies – point-to-point, any-to-any and hub-and-spoke – can be combined to meet the specific needs of individual locations.

The Simplicity of Ethernet, the Reliability of MPLS

While Ethernet itself is simple and ubiquitous in corporate networks, Metro Ethernet, or Carrier Ethernet, as it is sometimes known, can seem complicated. It comes with its own set of acronyms – EPL, EVPL, ELAN, EVC¹ – and questions about whether a Metro Ethernet service in one location is truly interoperable with a service in another.

Cox Business makes Metro Ethernet simple. Cox enables government entities to extend the reach and capacity of their networks over Cox's own optical fiber network – a highly secure, fiber-optic-based architecture – with a lower cost for both equipment and service. It's a combination of standards-based design, flexible access, security and unparalleled scalability at highly competitive flat-rate pricing.

¹Ethernet Private Line (EPL), Ethernet Virtual Private Line (EVPL), Ethernet Local Area Network (ELAN), Ethernet Virtual Circuit (EVC).



Certified by the Metro Ethernet Forum

The Metro Ethernet Forum is a global industry alliance composed of service providers, cable operators, MSOs, network equipment vendors, software manufacturers, labs and testing organizations.

The MEF develops technical specifications and implementation agreements to promote interoperability and deployment of Carrier Ethernet worldwide.

The Metro Ethernet Forum (MEF) has certified Cox Metro Ethernet Fiber services as CE 1.0* and CE 2.0 compliant, hallmarks for carriers who deliver advanced Ethernet services. Cox Business customers can be assured that the services they purchase today align with industry directions, and will continue to support their evolving needs in the future.



Unparalleled Scalability and Reliability

As a facilities-based provider that maintains control over its extensive network, Cox Business is able to provide unsurpassed reliability in keeping its Metro Ethernet service connectivity ready to meet the needs of its customers 24/7. Additionally, this highly scalable Ethernet connectivity solution offers a range of bandwidth speeds to meet the needs at each location along the network. Cox Metro Ethernet connections scale from sub-10Mbps to 1Gbps and beyond. Bandwidth speeds can be easily adjusted as needs change.

The Security of Dedicated Connections

Security is clearly important to government entities of all types and sizes. Cox Metro Ethernet services establish dedicated Ethernet Virtual Connections (EVC) between sites on the network. These connections prevent data transfers between sites that are not part of the same EVC. This same secure transport applies to point-to-point and multipoint-to-multipoint connections.

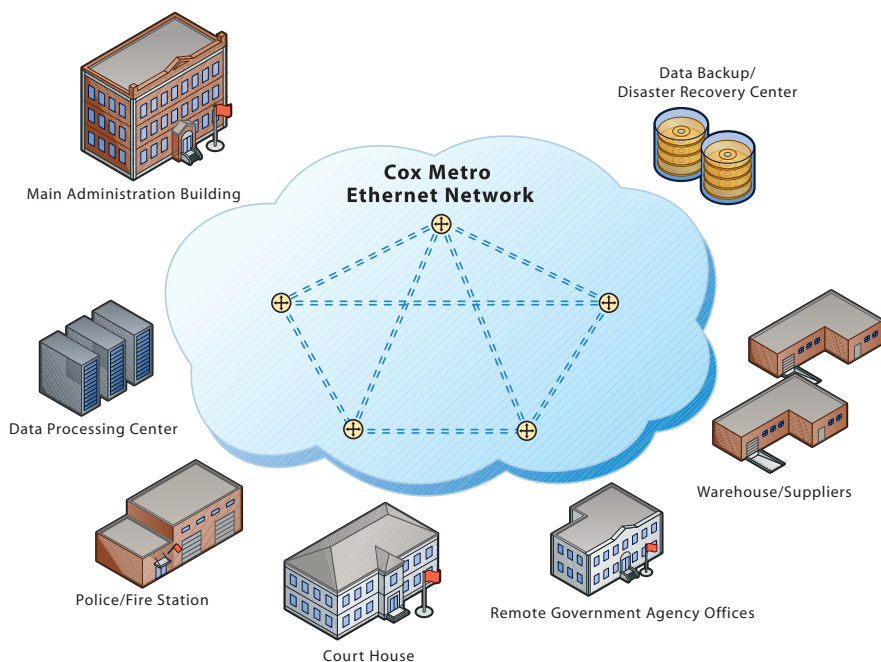
Local Customer Focus, Flexible Solutions

Cox's dedicated local support team is available 24/7. In addition, they monitor their networks from both local and national Network Operations Centers, thus providing responsive, business-class customer service at the highest level of technical expertise and commitment to excellence. Plus, as a facilities-based provider, Cox eliminates the finger-pointing that customers often experience when dealing with other providers.

Why Cox Business for Metro Ethernet Services

Formed in 2000, **Cox Business** maintains a strong and growing presence across the U.S., with more than 300,000 business customers, and 1 million business phone lines. We continue to grow our leadership position and are currently ranked as one of the nation's largest Ethernet service providers based on the number of Ethernet ports in service according to Vertical Systems Group,² a market research firm.

Cox Business offers a complete portfolio of business communications solutions, including voice, data, video and managed services. A proven and trusted communications solutions company, we invest in local support, local engineering and local leadership, uniquely positioning us to understand industry needs and customize deliverable solutions that add value to productivity and service. For more information, please visit www.cox.com.



²"Business Ethernet Leaderboard: Year-End 2012 Results," Vertical Systems Group Press Release, February 2013.

Cox Metro Ethernet – Extend, Empower, Simplify

Cox Metro Ethernet service leverages the simplicity, scalability and economies of Ethernet transport to enable you to customize productivity and connect multiple locations over Cox's intelligent and reliable optical fiber-based metro networks.

Extend

- Cost-effectively extend high-speed bandwidth to more of your locations
- Owned, operated and maintained by Cox: 25,000 miles of metro fiber and 100,000+ miles of hybrid fiber coax
- Redundant architectures supported by local System Operations Centers (SOCs) and a national Network Operations Center (NOC), 24/7



Empower

- Consolidate voice, data and video on one integrated network platform
- Seamless service with speeds ranging from less than 10Mbps to 1Gbps and beyond
- Purchase just the bandwidth you need

Simplify

- Familiar Ethernet technology, end-to-end
- Flat-rate billing and Class of Service options
- It's how Cox does business – local leadership, engineering and technical support for rapid response to your needs

Services and features not available in all areas. Equipment installed by Cox and the installation of networks may vary. LAN wiring and electronics are not included. Other restrictions apply. ©2014 Cox Communications, Inc. All rights reserved.

