

# Availability, flexibility, reliability and control



**It is more important than ever to have a responsive, easy to manage and secure network that is engineered to meet your unique business requirements.**

AT&T Ultravailable® Network Service gives you maximum flexibility in bandwidth design and allows you to run your entire business across a highly available, private, flexible and highly secure infrastructure that can accommodate multiple applications and protocols. This private network infrastructure is fully managed allowing you to focus on more important things ... your business.

## Potential benefits:

- Agility – Rapid provisioning to scale your ring to virtually unlimited bandwidth
- Reliability – 24 hours a day 7 days a week network monitoring options and management tools to help ensure that your network performs at its optimum level so that you can focus on your core business
- Flexibility – Your integrated ring solutions employing DWDM, storage, Ethernet, and SONET technologies offer flexibility and ease of application integration

## Features:

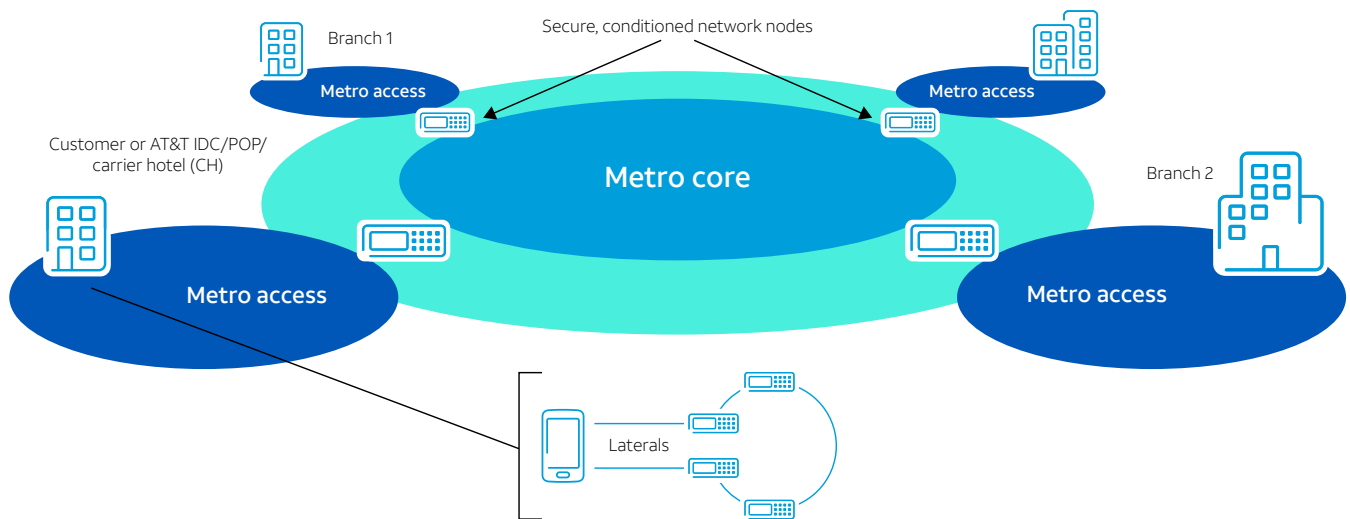
- UVN battery backup service (UVN BBU)
- Extended demarcation

## Designed to meet your networking needs

Are you operating multiple locations in a metropolitan area? Do you have several different network applications and want a highly secure network to deploy them on? Ultravailable Network Service from AT&T can answer your needs by providing a single network that can carry all your traffic regardless of protocol.

AT&T Ultravailable Network Service (UVN) is a classic solution for cloud computing infrastructure, SONET/TDM migration support, IP Data services support, storage networking, network consolidation, call center management, healthcare applications, security solutions, access to and consolidation of existing services, transport circuit aggregation, reliable Ethernet transport, and the need for flexible, growing, or high bandwidth. With the security and versatility UVN offers, it may be the only network you need!

### Ultravailable® Network Service rings



### Ultravailable Network Service rings

UVN takes advantage of Ethernet, DWDM (dense wave division multiplexing) and SONET (synchronous optical network) technologies to deliver service on a single dedicated ring platform. You can easily integrate Ethernet, DWDM and SONET applications onto a seamless integrated ring for maximum efficiency and long-term growth capability; therefore, your network is ready to expand as your business needs do.

Integrated rings with SONET/Ethernet/DWDM are a good choice for you when your business requires the ability to support multiple applications utilizing various protocols. For example, you may have data needs requiring large amounts of bandwidth along with voice and video applications. SONET can carry your voice, video and data but if you also need a secure storage network that uses a different protocol than SONET or want the ability to compress or

segment your traffic in other ways, integrated rings provide a network solution for everything you need because they allow you to run applications that use both SONET, Ethernet and DWDM all on the same network. UVN is your solution for a single dedicated network that can handle all of your traffic in a highly-secure environment.

UVN rings can grow with you by giving you the option to build your ring as just SONET at first with room to grow into more bandwidth and protocols as well as the option to utilize existing fiber in some cases.

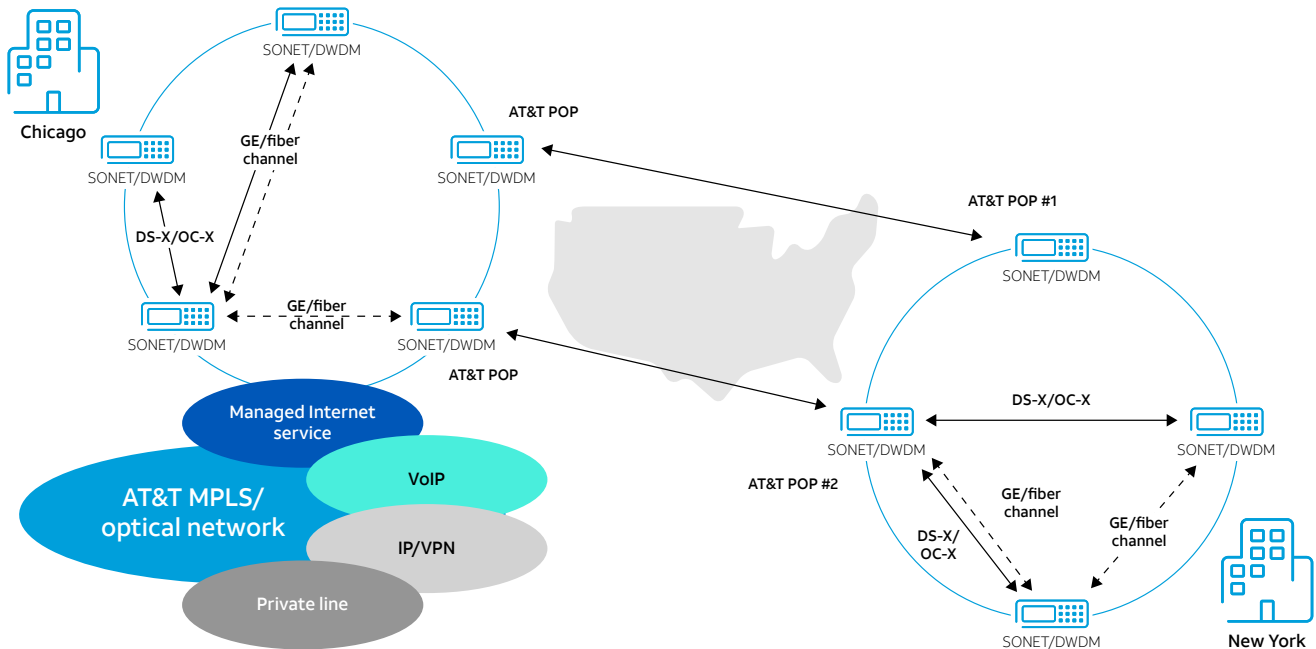
### Available where you need it

AT&T Ultravailable Networks are customized to your individual needs. UVN can interconnect with long haul core wavelengths to connect your ring into a larger network while maintaining the resilience, reporting and convenience you expect.

Because UVN can accept so many protocols there are several options of services that you can connect to including AT&T VPN, AT&T Managed Internet Service (MIS), VoIP, Ethernet, private line, and wavelength services.

You can use UVN as part of your national network while using the features of UVN to help ensure that wherever your traffic is coming from or going to, it is secure.

### Ultravailable® networks connected nationwide



### Additional UVN Features

UVN can be designed to include the following additional features.

#### UVN Battery Backup Service (UVN BBU)

You can have a more comprehensive managed service by providing an additional level of power diversity and protection which will assist you in mitigating potential ring failures due to commercial power outages, brown-outs, etc. Based on your requirements and the UVN design, AT&T will custom engineer and install either a 4 or 8 hour battery back-up power source at the locations you choose and provide both preventative and proactive maintenance. UVN BBU is automatically and

immediately enabled when your building's DC power becomes unavailable so that even when your power is out, your network is running.

#### Extended Demarcation

You can extend the UVN demarcation patch panel, which is normally co-located with the UVN equipment, to another location which can be on the same floor or even another floor. AT&T will engineer, install, and maintain an "Extended Demarcations" patch panel and associated cables. This allows you to put your vital equipment and connections where you need them, whether you want a separate location for security or convenience.

## Benefits

### Agility

Rapid provisioning to scale your ring to virtually unlimited bandwidth.

- Quickly respond to unpredictable network demands
- Grow your network as business application require
- Add or change applications as your business needs dictate
- Choose the connectivity options your business requires
- You are in charge of your network at all times

### Reliability

24 hours a day 7 days a week network monitoring options and management tools to help ensure that your network performs at its optimum level so that you can focus on your core business.

- You have access to technical support, a life cycle manager as well as business manager. This team is in place to assist you with network analysis, new service provisioning, development of strategic plans as well as billing support, and will work with you for the duration of your contract
- Your network gets service assurance testing to help ensure that your UVN is fully operational now and ready to rapidly make any changes you might want in the future
- Testing activities include: fiber characterization, ring, wavelength, and channel testing, mapping verification, alarm reconciliation, verification of proper timing/synchronization for each SONET ADM node

### Flexibility

Your integrated ring solutions employing DWDM, storage, Ethernet, and SONET technologies offer

flexibility and ease of application integration, and supports multiple applications such as:

- Business continuity and recovery
- Virtualization, replication/storage
- SAN extension, data center connectivity
- SIP trunking, telepathology, IP/video
- and more

### Performance

High performing infrastructure allowing easy and highly secure transmission of your large data files among your various locations with high reliability.

- Connects sites in a metropolitan area network (MAN) environment
- Connects geographically dispersed metro areas if required
- Transports multiple data signals and protocols over a single fully managed and maintained network
  - Specifically designed to meet your current and future requirements
  - Technical support and ongoing lifecycle management

### AT&T Ultravailable Network Service

- Fully-managed dedicated customer rings
- Multiple-protocol support – supported protocols include, but not limited to: 100G, 40G, 10GE, Ethernet and sub-rate Ethernet, Fiber channel, and SONET
- Available in many metropolitan areas throughout the United States
- Can provide connectivity to AT&T POPs, AT&T LNS service centers, co-location facilities, carrier hotels, etc.
- Can also connect to ILEC or CLEC SWCs (as required)

For more information contact your AT&T Representative or visit us at [www.att.com/ring-services](http://www.att.com/ring-services).