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Product Catalog: Media



WE ARE

Astound Business Solutions



A top-tier, national network solutions provider

We are a national telecommunications company that delivers standards-based Video Transport Solutions over a diverse, carrier-grade network that provides high-speed, reliable, and secure connectivity for mission-critical media delivery services.

The Astound Fiber Network

Powering Video Transport across the U.S.

20+

METRO AREAS IN 12 STATES

42,000+

FIBER ROUTE MILES

20,800+

ON-NET BUILDINGS

262,000+

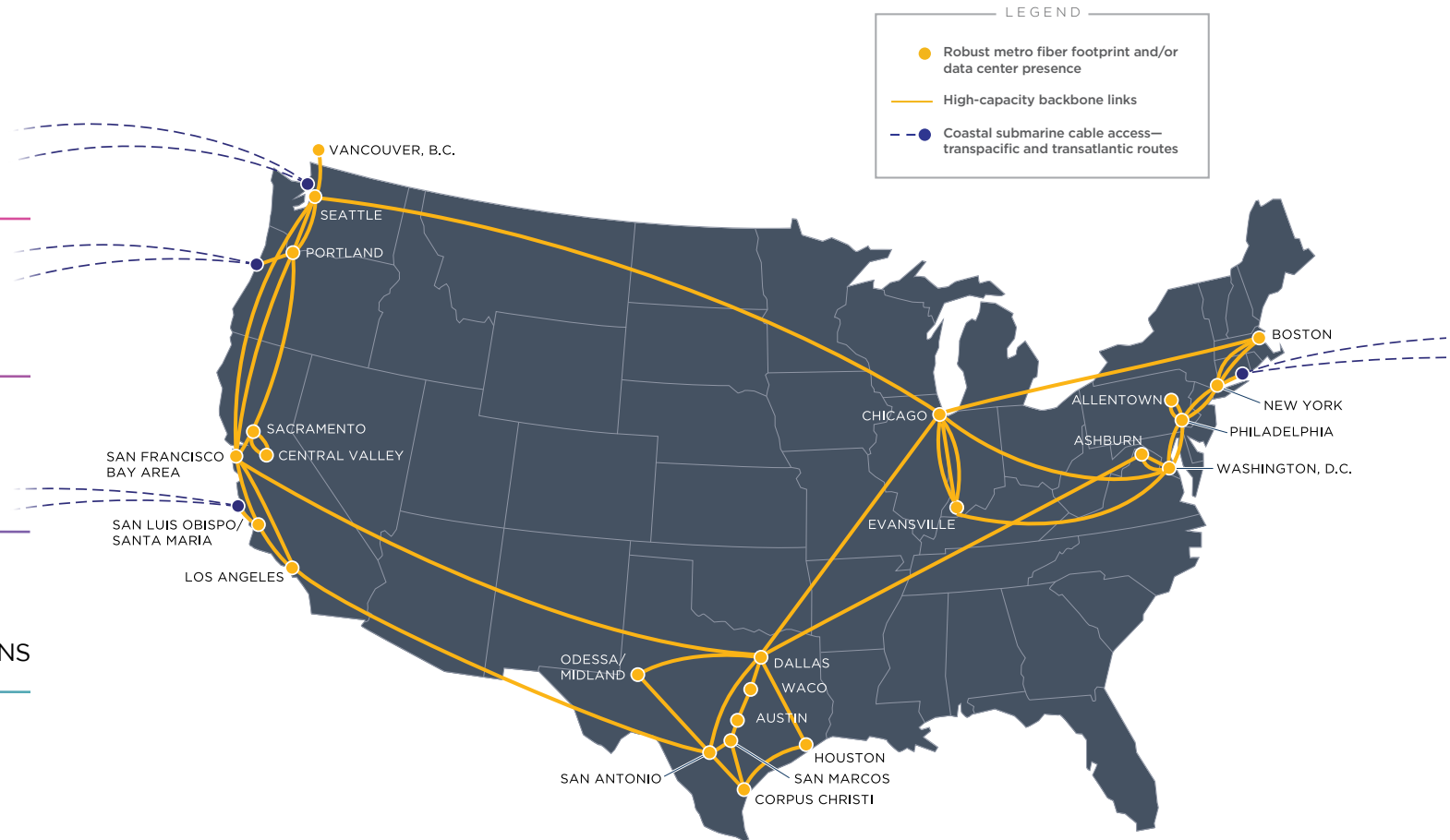
VETTED NEAR-NET LOCATIONS

120+

DATA CENTERS

2,000+

CELL TOWERS



We Deliver Solutions Over the Most Reliable Network:

- Connectivity
- Internet
- Voice/Unified Communications
- Cloud Networking
- Custom Solutions/Advanced Services

Video Transport Solutions

Using the latest technology, Astound offers Video Transport Service (VTS) as a reliable and flexible suite of services designed to deliver connectivity to stadiums, media centers, production studios, broadcast centers, Outside Broadcast (OB) Trucks, and more.

Why choose Astound for Video Transport?

- Low latency performance
- Capacity for growing bandwidth needs
- Supported by local teams that know the industry
- Protected hitless options



Advanced Solutions at a Glance

Video Transport Service (VTS)

Dedicated point-to-point or multi-point connectivity backed by carrier-grade fiber to meet the demands of high-bandwidth video productions.

Wavelength

Secure end-to-end connectivity up to 400 Gbps.

Dark Fiber

Secure, scalable bandwidth on your own private network. Manage control and security with no equipment or protocol restrictions.

“

Astound was able to provide us the services that no one else was able to.

— Alden Gleason, Assistant Director of IT, City of Celina, TX

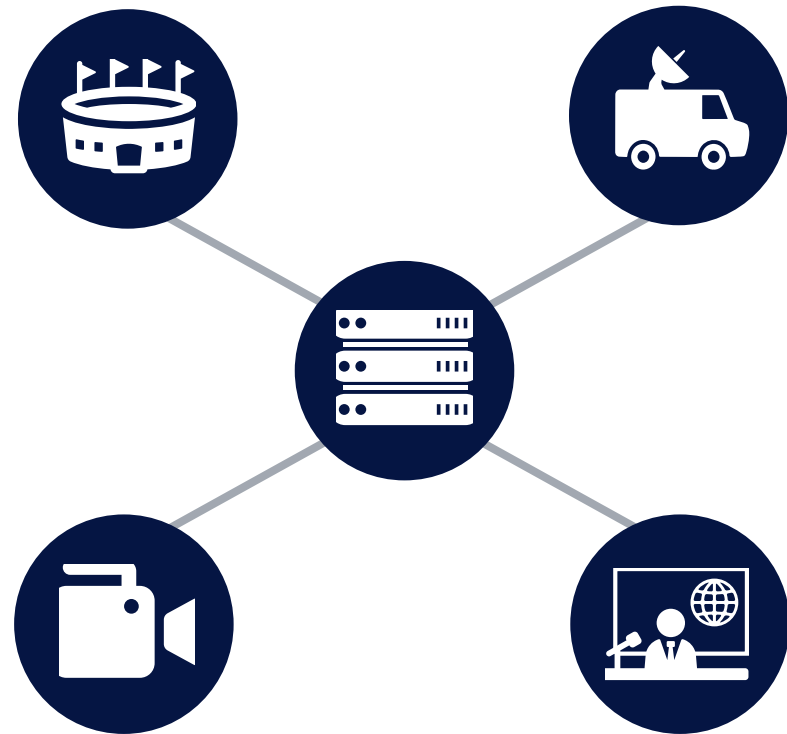
Video Transport Solutions

Get the most flexible point-to-point configurations backed by reliable, carrier-class fiber. Our Video Transport Service meets the demands of high-bandwidth video productions over dedicated fiber so you can meet the unique needs of the broadcast community, including temporary services for special events. We stand behind our solutions with an end-to-end industry-leading Service Level Agreement (SLA) that extends across our backbone, metro core and last-mile network for fiber-based services.

Video Transport Service (VTS)

ASI | SDI | HD-SDI | J2K | SRT | 1 Gbps | 10 Gbps

- Powers high-bandwidth Video Transport compressed or uncompressed using SMPTE industry standards.
- Dedicated managed connectivity between locations across our network, monitored 24/7/365.
- Ideal for media and broadcast businesses that need a secure, private connection between locations.



Video Transport Solutions

Benefits of Astound Video Transport Products

Unlimited Scalability - Supports a variety of media services including native uncompressed and compressed video and audio services

Flexibility - Service terms that meet the unique needs of the broadcast community, including temporary services for special events

High Quality of Service - Low latency and efficient use of bandwidth to support the higher demands and increasing requirements of today's video services

Comprehensive SLA - You can run your video production with confidence knowing that your services are managed and monitored

Strong Support - Peace of mind with a local Network Operations Center, providing complete customer service 24/7/365

Reliability - Full redundancy ensures improved reliability and disaster recovery capability

Seamless Integration - Secure, open-source technologies eliminate the risk of being locked into a proprietary solution and allow for seamless integration with your existing publishing and delivery workflows



Wavelength

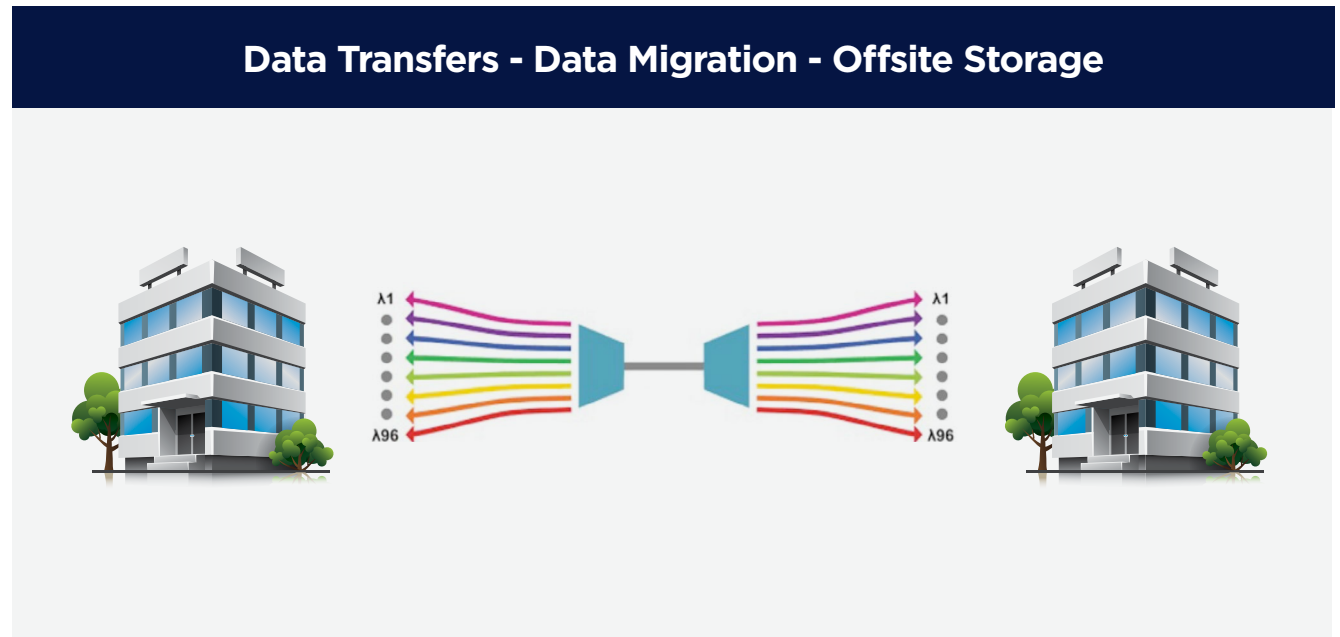
A partially meshed, intra-region, high-performance network that produces unsurpassed connectivity with elegant simplicity. The technology of choice for transporting large amounts of data between sites. Facilities-based network delivering proven optical performance that links high-traffic locations with key data centers and fiber-fed access points for seamless connections. Priced per endpoint (no standard price).

Standard Symmetrical Offerings

10 Gbps | 100 Gbps | 400 Gbps

Wavelengths have fewer points of failure and provide better security compared to switched/routed IP services

- Service level agreements
- Predictable performance
- No variance in latency or jitter
- Dedicated capacity that assures application performance
- Protected routes are available
- DWDM - Dense Wavelength Division Multiplexing
- Simple point-to-point pipe



Dark Fiber

Dark Fiber is a dedicated strand of fiber optic cable that connects your locations within the same metro areas, and it allows you to increase connectivity, network efficiency, and speed for your customers.

You have end-to-end control, unlimited bandwidth, and the flexibility to run unique protocols and use your own equipment. A Dark Fiber network offers maximum security, since you are not running through someone else's network.

Typical bandwidth plans often do not address the increasing demand for bandwidth or account for secure Internet capabilities to transmit large files and sensitive data. They also do not consider the need for scalable, end-to-end network control that requires instant response times for point-to-point communications.

Workloads and operational demands continue to increase while budgets decline. This drives you to improve efficiencies and cut costs. However, leasing more line capacity on existing networks or purchasing more bandwidth presents economic challenges when faced with return on investment pressures.



Standard Offerings	
STRAND	PAIR
<p>Unlimited Bandwidth - Ensures the necessary bandwidth, with optimal connectivity</p> <p>Secure - Your sites are directly connected and avoid any outside network traffic</p> <p>Scalability & Flexibility - Increase bandwidth as you grow or reduce when necessary</p> <p>Control - Create a network strategy and structure for your needs</p> <p>Reliability - Full redundancy ensures improved reliability and disaster recovery</p>	

Why Choose Dark Fiber from Astound?

Our extensive fiber footprint, assets, routes, and secure rights-of-way provide your network infrastructure with the reliability, scalability, and flexibility to support mission-critical applications. It also enables you to support different configurations, services, and applications that standard bandwidth plans cannot handle. Dark Fiber is an affordable strategy to ensure your business maintains complete control over your network infrastructure.

Dedicated Internet Access (DIA)

Speed. Reliability. Guaranteed. Dedicated to your Success.

With DIA, you're guaranteed to receive the exact bandwidth you purchased, 100% of the time. It's a great fit for businesses that:

- Use or host cloud-based applications
- Require dedicated bandwidth
- Need high-bandwidth upload and/or download capability

Fast, Secure Connections

Astound's DIA enables mission-critical business activities via:

- Dedicated, reserved, symmetrical high-bandwidth Internet speed
- Secure connections with guaranteed up-time and always-on connectivity
- Scalable solutions

Non-shared, direct connection to our fiber network

- Symmetrical upload and download
- Reliability backed by Astound's 99.99% Service Level Agreement
- Speeds up to 100 Gbps
- IPv4 blocks up to /24 w/ IPv6 support
- DDoS Mitigation
- 24/7/365 expert support

Standard Symmetrical Offerings

50 Mbps, 100 Mbps

200 Mbps, 300 Mbps

500 Mbps

1 Gbps

2 Gbps

3 Gbps

5 Gbps

10 Gbps

20 Gbps

30 Gbps

50 Gbps

100 Gbps

Key Attributes:

- Redundancy
- Private Network
- Dedicated Symmetrical Connectivity
- Service Level Agreement

ADD-ONS

- SD-WAN
- Static IP & Subnets
- Business Router, Managed Router
- Business Wi-Fi
- Bursting
- Border Gateway Protocol (BGP)
- Wireless Internet Backup

Astound is the #1 Business Internet Service Provider



Astound has been recognized by PCMag's Business Choice readers as the **top Business Internet Service Provider (ISP) in the nation,* ranking #1 in:**

- Overall Satisfaction
- Speed
- Reliability
- Ease of Use
- Likelihood to Recommend

We maintain a local, customer-centric approach, with dedicated industry experts on-hand 24/7, as we partner with businesses and help them grow and remain competitive.

Our NOC and U.S. call center, along with our local Sales Reps and Account Managers, provide excellent support to our customers.

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Azure ExpressRoute

Your private fast lane to Azure, for quick, reliable uploads and downloads with increased agility.

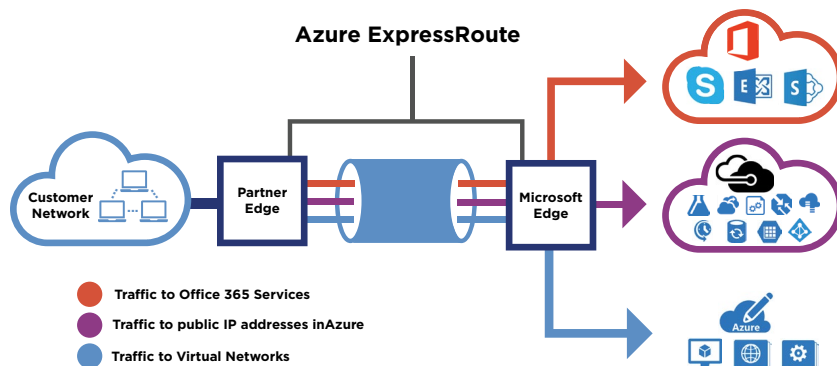


Astound enables your office locations and data centers to connect directly to Microsoft Azure ExpressRoute and other public and private cloud platforms. With bandwidth options up to 100 Gbps over dedicated fiber, our data center access solutions bypass the public Internet, ensuring data privacy and guaranteeing enhanced scalable throughput speeds through optimized connectivity.

Benefits

Get a more consistent network experience than Internet-based connections.

- **Lower Cost of Ownership** - Experience cost savings when compared to standard Internet access charges into Microsoft Azure ExpressRoute.
- **Better Resiliency** - Our fiber ring topology helps protect critical data with superior network availability.
- **Enhanced Security** - Data is routed across the Astound network and isolated from the public Internet.



EPL or EVPL directly connected to Azure

Standard Symmetrical Offerings

ExpressRoute	ExpressRoute Direct
Mbps: 100, 200, 300, 500 Gbps: 1, 2, 5	Gbps: 10, 40, 100
With Microsoft Azure ExpressRoute from Astound, you'll benefit from: <ul style="list-style-type: none">• Increased security• Predictive network latency• Low jitter/packet loss• A more consistent connection experience than over the public Internet• Symmetrical bandwidth options up to 100 Gbps• Backed by our SLA	

City	Site Name
Ashburn, VA	Equinix - DC2 & DC11
Dallas, TX	Equinix - DA2
San Jose, CA	Equinix - SV5
Seattle, WA	Equinix - SEA10

AWS Direct Connect

Pair our powerful Cloud Networking with AWS Direct Connect and hosted connections to maintain network resiliency



Through AWS Direct Connect, we can establish a dedicated private network between your office, data center, or co-location environment to AWS and its more than 175 services.

AWS recommends connecting via multiple locations to help you maintain network resiliency. You can set up multiple diverse circuits by connecting to any AWS node, routing anywhere on the AWS backbone.

We Offer Two Types of Connections:

Dedicated (EPL) – high bandwidth with a direct connect

Hosted (EVPL) – virtually connect to AWS

City	Site Name	Dedicated	Hosted	Region
Ashburn, VA	Equinix DC2/DC11	✓	✓	US-East 1
Boston, MA	Markley 1 Summer	✓		US-East 1
Chicago, IL	Equinix SH2	✓	✓	US-East 2
Dallas, TX	Equinix DA2	✓		US-East 1
New York, NY	CoreSite NY1	✓	✓	US-East 1
San Jose, CA	Equinix SV5	✓	✓	US-West 1
Seattle, WA	Equinix SEA10	✓	✓	US-West 2

Standard Symmetrical Offerings

Hosted

Mbps: 50, 100, 200,
300, 400, 500

Dedicated

Gbps: 1, 10, 100

With AWS Connect from Astound Business Solutions you get:

- Increased security
- Predictive network latency
- Low jitter/packet loss
- A more consistent connection experience than over the public Internet
- Symmetrical bandwidth options up to 100 Gbps
- Backed by our SLA and customized support

Custom Wi-Fi

A Wireless Internet Solution Built Just For You

Custom Wi-Fi from Astound delivers a turnkey Wi-Fi platform that is designed, developed, deployed, and supported precisely to suit your business needs, today and tomorrow. From the ground up, this tailor-made wireless connectivity solution is built to operate as uniquely as you do — because no two organizations are alike, especially the customers you serve.

Powered by Astound's fiber-rich network, this enterprise-grade connectivity solution factors in every key characteristic — the specifications of your physical property, your indoor and outdoor bandwidth requirements, and your daily operational needs.



IDEAL CANDIDATES:

Commercial buildings, stadiums, outdoor public venues, campuses, retail centers, hotels and resorts.

Key Benefits & Results

- **Tailored Fit and Function:**
Extensive design customization options including unlimited Access Points (APs)
- **Hands-off Management:**
Astound handles all network setup, maintenance, and management
- **Lower Costs:**
We free up time and internal resources so you can optimize your team while decreasing costs

Tailored to Perform

Higher speeds with fewer disruptions for delivering peak performance, all with expert technical support 24/7/365.

Custom Wi-Fi from Astound. It's as custom as custom gets.

Why Astound for Video Transport?

Astound Business Solutions provides high-capacity, secure connectivity for mission-critical Video Transport applications, while increasing overall agility and responsiveness.

- **Custom, Robust Solutions**

We take a consultative approach by first understanding your distinctive needs to deliver a unique solution designed especially for you.

- **Speed to Market**

Unlike larger competitors, we focus on rapid installations and upgrades and do not rely on third parties to meet deadlines.

- **Award-Winning Customer Service**

24/7/365 local dedicated support with industry experts on-hand around-the-clock to help businesses stay on top of today's evolving IT technology and remain competitive in their markets.

- **Fiber-Rich Network**

We operate a sophisticated network with a network backbone featuring a smaller node size and robust fiber capacity. See our map and stats on page 2 to get the details of our coverage.

Astound is an Internet, Connectivity,
Unified Communications, Cloud Networking,
and Solutions company.

Let's talk about your needs.





astoundbusiness.com

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