



Publish Date: July 2025

Product Catalog: Wholesale



WE ARE **Astound Wholesale**



A top-tier, national network solutions provider

We focus on providing scalable access to easily extend your reach outside of your footprint.

Privately held by Stonepeak, an investment firm specializing in infrastructure assets, it allows us to support underserved areas and supply our partners with competitive, high-quality access options.

The Astound Fiber Network

Powering businesses across the U.S.

20+

METRO AREAS IN 12 STATES

42,000+

FIBER ROUTE MILES

20,800+

ON-NET BUILDINGS

262,000+

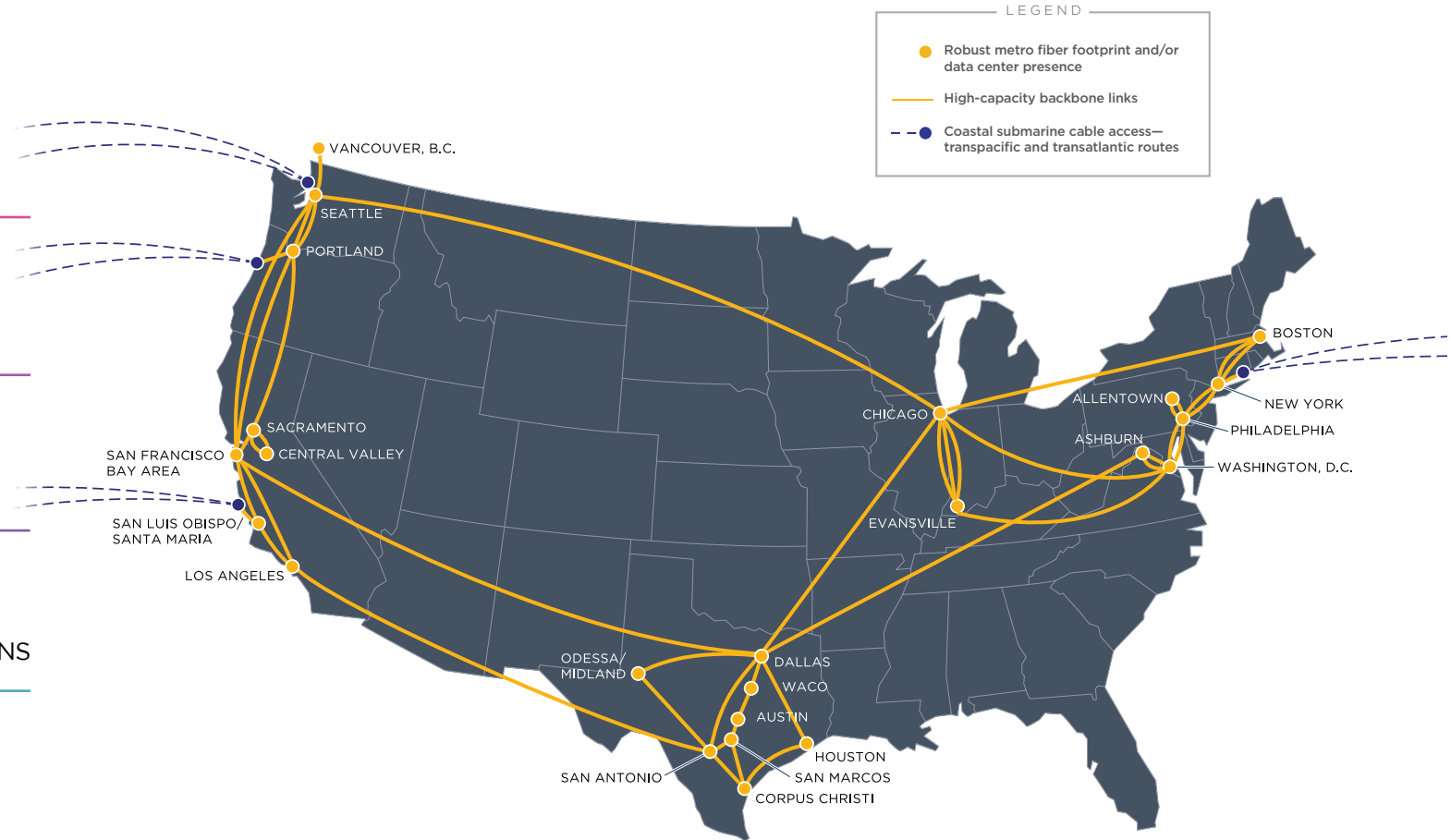
VETTED NEAR-NET LOCATIONS

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

Visionary Spotlight Award Winner

Astound Wholesale has been proud to be consistent winners of the Visionary Spotlight Award from *ChannelVision Magazine* in the **Service Provider Technology** category for **Wholesale Broadband and Capacity**.

Winning the award for the fifth consecutive year is a reflection of Astound Wholesale's dedication to innovation, hard work and dependability— providing last-mile Ethernet, broadband, wavelength, and DIA services across a 100 percent fiber network.



Access Solutions

Astound delivers access options to accommodate your network needs. We support facility and non-facility based providers with nationwide access across our 100% fiber network. Our universal rate card keeps you competitive regardless of last mile delivery. No need to compromise your design based on costs to accessing the last mile delivery that is best for you.

E-NNI

Graceful E-NNI policy gives our partners flexibility to deploy 10 Gbps and 100 Gbps hubs without monthly fees or minimum spend requirements.

Ethernet/E-Access

Dedicated access for last mile to NNI/IP, point-to-point or multi-point solutions across carrier-grade fiber. Offering speeds from 5 Mbps to 90 Gbps.

IP Transit

A highly diverse, densely peered product that connects with scalable capacity and the lowest latencies - to ensure the fastest and most direct route possible.

Dedicated Internet Access (DIA)

Premium service, with performance guarantees up to 100 Gbps, built for mission critical applications. Effective and reliable for areas without a deployed NNI.

Wavelength

The technology of choice for transporting large amounts of data between sites, this facilities-based network delivers proven optical performance to link high-traffic locations.

Data Center Internet Access (DC-IA)

Port and Access with the last mile cost removed. Created specifically for customers in a data center location and require service to a cage, cabinet, or suite.

High Speed Internet

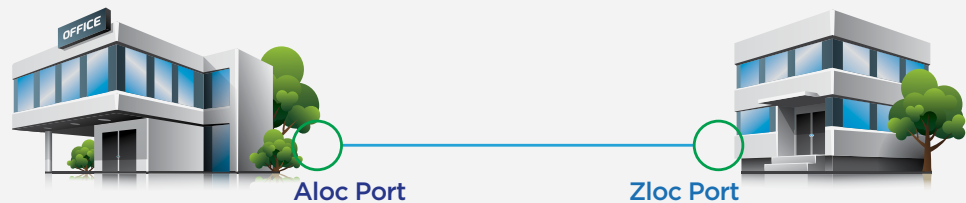
We offer a range of fast, economical asymmetrical and symmetrical broadband options with speeds up to 5 Gbps, where available.

Ethernet Private Line (EPL)

Point-to-point access utilizing our reliable, nationwide carrier-class fiber network. Our EPL service meets your bandwidth requirements by offering speeds from 5 Mbps to 90 Gbps. Use EPL access for high-bandwidth opportunities that need to bypass interfacing with NNI.

Ethernet Private Line — Point-to-Point Ethernet Connectivity

- Commercial building to data center
- Data center to data center
- Building to building
- Bandwidth options from 100 Mbps to 90 Gbps
- Dedicated connectivity between two locations across our Ethernet network
- Ideal for companies that need a secure, private connection between two locations. Transparent plug and play



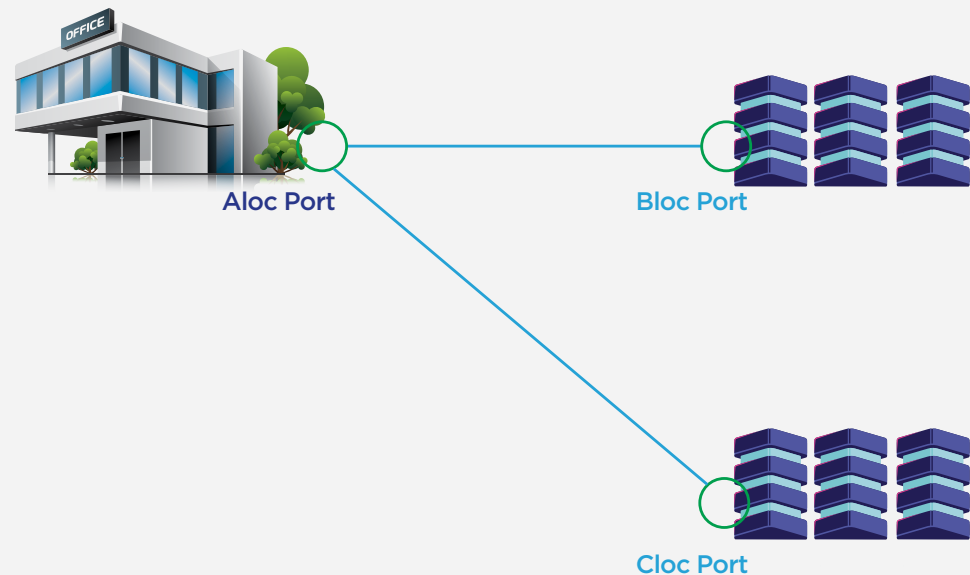
Ethernet Virtual Private Line (EVPL)

Connect end user to data center for opportunities needing large bandwidth that cannot be accommodated by E-NNI deployment.

Ethernet Virtual Private Line

Point-to-Multipoint Connectivity:

- Dedicated connectivity between more than two locations, with a “hub-and-spoke” topology
- Ideal for multi-location companies that want to maximize network control at one primary location, or that have a designated HQ and branch office structure. Reduces number of network ports required



Data Center E-Access (DC-EA)

Ethernet Access is fiber-based access between an end user location and an E-NNI deployed between the supplier service provider and service provider end customer.

Data Center E-Access

- Available increments of 10 Mbps between 10 Mbps and 100 Mbps
- Available increments of 100 Mbps between 100 Mbps and 1 Gbps (*Exceptions of 150 Mbps and 250 Mbps)
- Available increments of 10 Gbps between 1 Gbps and 90 Gbps
- Transparency of routes to provide unique and diverse solutions
- Provides access to all on-net buildings within Astound service footprint
- Custom build options to suit your needs
- Hand off at MPOE or customer suite
- We have a partnership approach working with each customer to design, engineer, and build the best solutions to meet individual network requirements



Ethernet Solutions

Benefits of Astound Wholesale's Ethernet Products

Unlimited Scalability – Speeds that support any size application from regional to global scale, with the ability to grow your public domain

Flexibility – Scalable bandwidth without the need to reinstall new service

Dedicated Access – Private connectivity designed to guarantee network performance

Enhanced Uptime and Reliability – You can support your end users with confidence using our nationwide 100% fiber network

Strong Support – Pre- and post-sales teams are dedicated to support the unique requirements of our Wholesale Partners, including a responsive and proactive Commercial Network Operations Center that provides complete customer service 24/7/365

Quality of Service – Full redundancy ensures improved reliability and disaster recovery ability

Simple Rate Structure – We took the guesswork out of pricing by offering competitive rate cards using a flat rate based on speed, term and region for both DIA & E-Access. If you can't deploy an NNI, utilize our DIA access at the same rate to expand your reach

Symmetrical – Upload speeds match download speeds



Wavelength

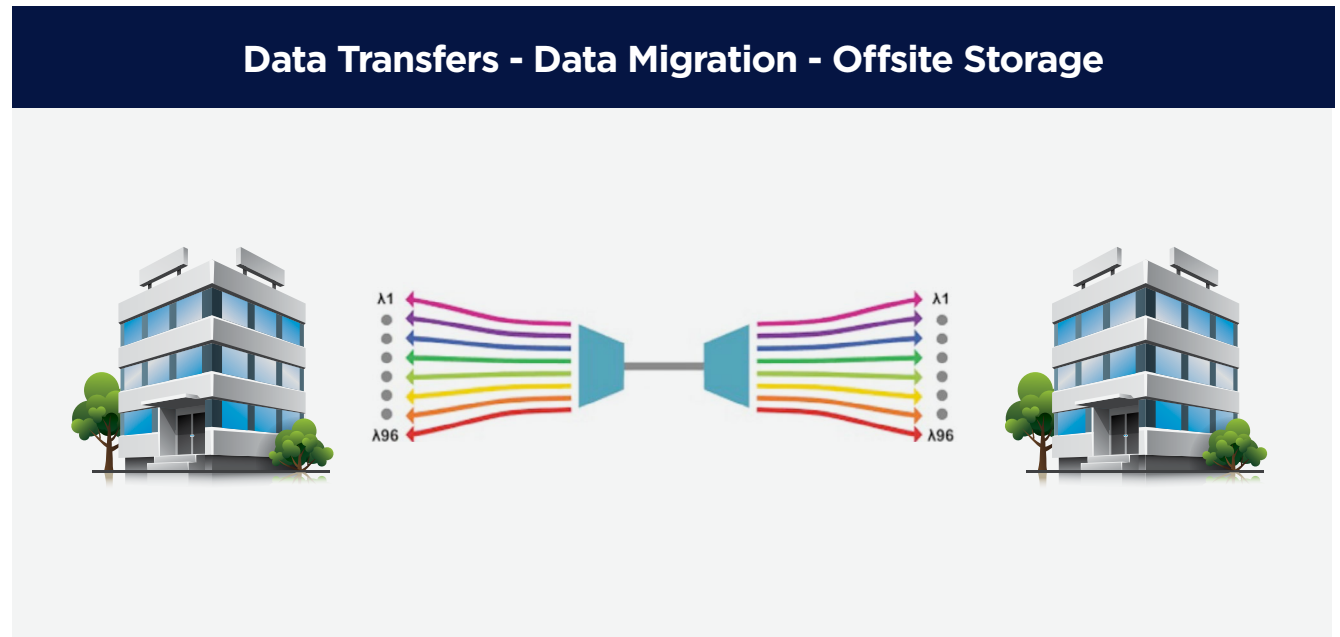
A partially meshed, intra-region high-performance network that produces unsurpassed connectivity with elegant simplicity. The technology of choice for transporting large amounts of data between sites. Facilities-based network delivering proven optical performance that links high-traffic locations with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

Standard Symmetrical Offerings

10 Gbps | 100 Gbps

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



IP Transit

Built for performance with the lowest latencies and shortest routes

Astound provides a highly diverse, densely-peered Internet transit product that connects with scalable capacity. To ensure the fastest and most direct route possible, Astound has engineered private and direct connections with destination networks for over 70% of our traffic. Astound peers with seven of the worlds biggest Tier 1 providers for global backbone Internet connectivity.

BENEFITS

Guaranteed performance levels for:

- **Throughput**
- **Packet Loss**
- **Latency**
- **Availability**

Multiple connectivity options, including:

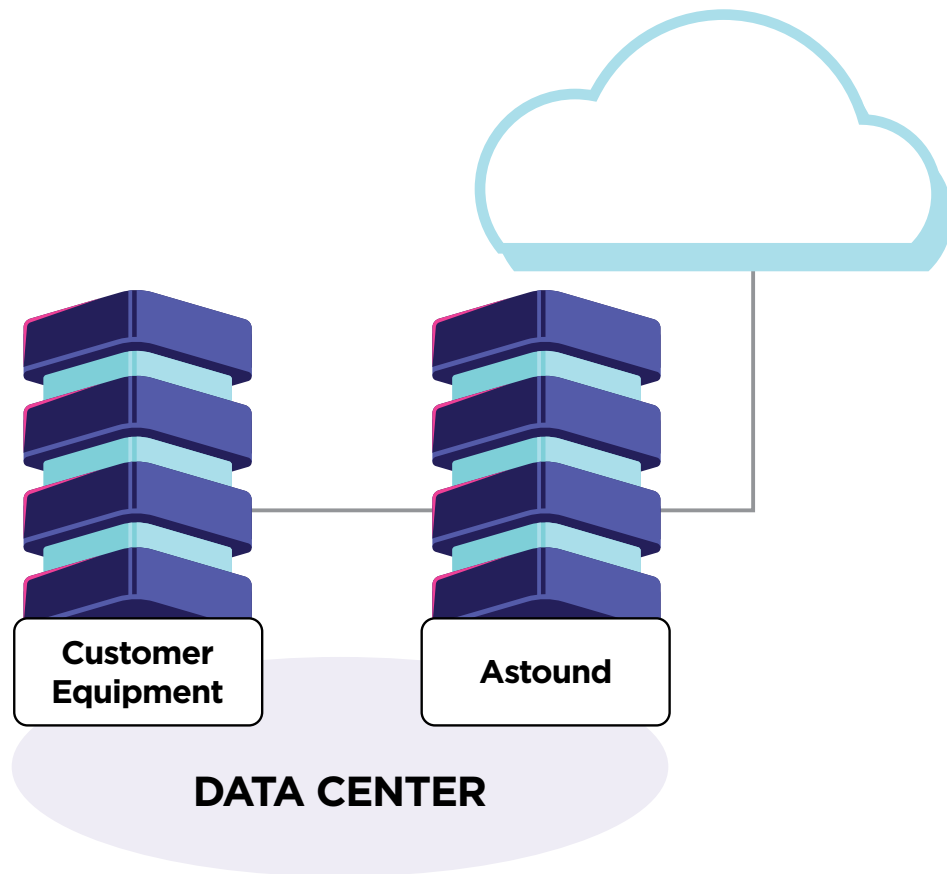
- **Static route connection with IPv4 or IPv6**
- **Full routing participation using Border Gateway Protocol (BGP)**
- **Direct traffic to specific BGP partners for direct access to optimize routing**

With IP Transit from Astound, you'll benefit from:

- Highly diverse, densely-peered Internet transit
- Low-latency connectivity to the Internet
- Secure, symmetrical, always-on connections with guaranteed up-time
- Cost-effective options with flat monthly rates

Data Center Internet Access (DC-IA)

For customers that have a presence in a data center location and require Internet service to a cage, cabinet, or suite.



Key Differentiators vs DIA:

- Powerful Internet access without a remote access tail
- Must be co-located in the same data center

Data Center	City
Equinix-DC2	Ashburn, VA
CoreSite-NY1	New York, NY
Markley-1 Summer	Boston, MA
Equinix-CH2	Chicago, IL
Equinix-DA2	Dallas, TX
Equinix-SEA10	Seattle, WA
Equinix-SV5	San Jose, CA
EdgeConneX	Hillsboro, OR

Dedicated Internet Access (DIA)

Speed and Reliability Across Our 100% Fiber Network

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
- Do not have an NNI deployed nearby

Non-shared, direct connection to our fiber network

- Use or host cloud-based applications
- 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

Key Attributes

- Redundant
- Private network
- Dedicated symmetrical connectivity
- Service level agreement
- 10 - 100 Gbps increments available
- Automated pricing tools
- The access option where NNI's are not deployed

ADD-ONS

- Static IP & Subnets
- Bursting
- Border Gateway Protocol (BGP)

High Speed Internet (HSI)

The ever-increasing data needs of businesses means offices need fast, reliable Internet. We offer a range of fast, economical, asymmetrical business broadband options to meet your company's needs and those of your employees.

High Speed Internet (HSI)							
55 Mbps	110 Mbps	250 Mbps	500 Mbps	1 Gbps	1.5 Gbps	2 Gbps	5 Gbps
Less than 10 users or devices	Up to 10 users or devices	10 to 25 users or devices	25 to 50 users or devices	50 to 100 users or devices	100 to 150 users or devices	150+ users or devices	300+ users or devices
Basic Web Browsing and Email	Heavy Web Browsing	Advanced Internet Needs	eCommerce and Hosted Servers	Multiple Server Hosting	Multiple Server Hosting	Possibilities Are Endless	Possibilities Are Endless
Point-of-Sale Systems	Online Backups and File Sharing	Regular Online Backups and File Sharing	Heavy Internet Usage	VoIP / UCaaS Applications	Constant Cloud-Based Computing	Supersonic Operating Speed with Near-Zero Interruptions	Supersonic Operating Speed with Near-Zero Interruptions
		Video and Web Conferences	Cloud Applications Connectivity	Cloud-Based Computing	Additional Customer Connections		

BENEFITS OF HSI

- Low cost, low hassle, low complexity, quick install
- HSI cable insulation reduces interference for audio and video
- National access options for over 300K locations

ADD-ONS

- Static IPs
- Free Modem

Why Astound Wholesale?

With over 42,000 route miles of metro fiber, we offer the access your company needs to make the most of your opportunities. Spanning the United States, our dense 100% fiber network provides additional footprint and high capacity to our wholesale customers.

We deliver the collaboration, dedication, and performance you need by championing these three guiding principles...

TRANSPARENCY

We provide a level of transparency beyond other providers. We share our network routes and the information you need to know regarding exactly what underlies the network you're leveraging to extend your services.

CUSTOMIZATION

We partner with wholesale customers to design, engineer, and build the solution that fits their specifications. Our experience gives us the know-how to customize a solution for your needs, whatever they may be.

PARTNERSHIP

We understand the intricacies of network demands. We approach the wholesale relationship with our partners' best interests in mind. We aren't satisfied until we've met your specifications, and we're committed to quality in every project.

Whether you need infrastructure or services, count on Astound to work with your team — step by step, mile after mile — to ensure you have the right solution for your business demands.

Connect with Astound Wholesale today!





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