



DIRECT INTERNET ACCESS

US Signal's Direct Internet Access (DIA) product is built on proven SONET and DWDM transport technologies that provides customers with access to the Internet through redundant upstream and third party content providers.

AT-A-GLANCE

- + Dedicated, fixed, and burstable bandwidth speeds from 1.5 Mbps to 10 Gbps
- + Pair DIA with US Signal's Managed Router product to offload the management of a layer 3 device on premise
- + US Signal's network is interconnected to the Internet via multiple up stream providers for high redundancy and availability
- + Directly connected with large content providers to provide lower latency to hosted content
- + Meshed network protection with physical and logical core and edge architecture resiliency providing sub-50ms path switching
- + Automated network protection with dynamic BGP routing over geographically diverse transit Internet peers and within the internal core network, coupled with a ringed fiber topology to protect against PoP and/or fiber outages

TECHNICAL OVERVIEW

- + Dedicated synchronous access speeds ranging from 1.5 Mbps up to 10 Gbps
- + Internet Protocol (IP) v4 and v6 dual stacked network
- + Pair with US Signal's Managed Router service to offload the configuration, capital expense, and ongoing monitoring and management of a router for access termination
- + Domain Name System (DNS) services provided for all Dedicated Internet Access customers

US SIGNAL ADVANTAGE

Serviceability

A high density of central offices and on/off ramps serving tier 1, 2, and 3 markets.

Order and Fulfillment Process

High touch service delivery processes to effectively manage client information, provisioning, support and billing.

DIRECT INTERNET ACCESS TECH SHEET



KEY

- Active & Dark Fiber Routes
- Data Centers
 - + ILLINOIS: Oak Brook
 - + INDIANA: Indianapolis, South Bend
 - + WISCONSIN: Madison
 - + MICHIGAN: Detroit Metro, Southfield, Grand Rapids South, Grand Rapids East
- Peering
 - NETWORK EXCHANGES:
 - + Chicago, IL, Detroit, MI, Madison, WI
 - INTERNET EXCHANGES:
 - + Chicago, IL (GTT & Hurricane Electric)
 - Indianapolis, IN (CenturyLink)
 - Detroit, MI (Cogent)
 - Columbus, OH (AT&T)

DIA PERFORMANCE METRICS

Traffic performance will be measured using four parameters: availability, latency, packet loss, and jitter.

Performance Metrics

Availability	Latency	Packet Loss	Jitter
99.995%	15ms	<=0.1%	4ms

TRANSIT AND PEERING

US Signal interconnects with multiple upstream transit partners in redundant locations to provide customers with highly available access to Internet resources beyond the US Signal network. BGP routing protocol ensures availability to remote destinations by dynamically modifying traffic patterns in the event of provider outages downstream.

Additionally, US Signal peers with 115+ third party content providers and delivery networks including Amazon, Facebook, Cloudflare, Netflix, Microsoft, Akamai, and Yahoo. These direct peering connections allow for your public Internet traffic to traverse US Signal's direct connection with these providers to improve traffic speeds while reducing latency.