

## GLOBAL CROSSING DEDICATED INTERNET ACCESS (DIA) SERVICE

Secure, reliable high-speed connectivity from a Tier 1 ISP



### COUNT ON GLOBAL ACCESS THAT GROWS WITH YOUR BUSINESS

Global Crossing Dedicated Internet Access (DIA) connects your enterprise network to the Internet for transmitting data to and from any point in the world at a specified bandwidth. Conduct business anywhere, anytime with exceptional speed, security, and reliability. Increase the quality of your customer experience by combining DIA with optional Global Crossing Managed Network Services (MNS). DIA can also be integrated with Global Crossing IP VPN (Virtual Private Network) or other types of transport services as one seamless offer to reduce your management load, total bandwidth requirements and expenses. DIA service provides you with a single relationship for all of your global IP service needs.

### SPEED AND EFFICIENCY FOR TODAY AND TOMORROW

Get what you need today for high-speed browsing, eCommerce and enabling communication among employees, customers, and business partners with Global Crossing DIA. Leverage our scalable bandwidth for increased capacity whenever you need it. Combining our status as one of the world's few global Tier 1 Internet Service Providers (ISPs) with our single AS (Autonomous System) number yields the ultimate in high-speed data transport. For you, fewer data hand-offs translates into faster transmission, less down-time, and greater productivity. Speed without security would be senseless so rest easy knowing that our network operates under the watchful eye of the US federal government, in compliance with our precedent-setting National Security Agreement (NSA).

DIA is scalable and flexible enough to grow with you as you discover new requirements for IPv6 and 10 Gigabit Ethernet service, including LAN/PHY and WAN/PHY interfaces. Global Crossing was the first—and remains the only—global communications provider with IPv6 natively deployed in both its private and public backbone networks. We are uniquely qualified to enable your transition to IPv6, today or tomorrow.

### IN BRIEF

- > **Connectivity** – Tier 1 ISP owning/operating a global network
- > **Speed & Performance** – Consistent 10GigE service from core to edge
- > **Efficiency** – Optimized network with single AS#, MPLS and more
- > **Security** – Unprecedented security mandated by US federal government
- > **Flexibility** – Broad spectrum of access and billing options
- > **Value-Added Services** – We have what everyone else has and more
- > **Features** – Seamless integration of emerging technologies
- > **Service Level Agreement** – Share our confidence in your choice
- > **Converged & Complementary Services** – Future-proof your network

### IN DETAIL

#### Global Connectivity

- > **Tier 1 Internet Service Providers (ISPs) are the best choice for global connectivity and Global Crossing is one of the few truly global Tier 1 ISPs**
- > **Extensive global private and public peering**

- Reaching 100% of the Internet with as few hops as possible with direct connectivity into top Internet destinations
- 300+ Gbps of peering capacity with 250+ private peering interconnections
- > **We own and operate our own global network**
  - One seamless global IP network (AS#3549) with end-to-end control
  - 100,000+ Miles/160,000+ Kilometers on 6 continents, in 60+ countries and 600+ major cities
  - Fewest network hops into at least 90% of your destinations using MPLS mesh architecture

#### Speed

##### > Global Crossing supports 10 Gigabit Ethernet from Core to Edge

- Access speeds from E1/T1 to OC48/STM-16 or 10GigE
- We were the first carrier to deploy OC192 IP DWDM Transatlantic
- 10 Gigabit Ethernet LAN/PHY & WAN/PHY
- Ethernet interfaces provide the performance and error reporting of traditional SONET/SDH interfaces at a significantly lower cost

##### > In addition to potentially dramatic cost savings, many network managers have significant experience with Ethernet interfaces, which eases their administrative burden

#### Continuous Availability

- > **Global Crossing's IP network availability consistently exceeds 99.994+% while sustaining double-digit traffic growth quarter after quarter**

#### Efficiency

##### > Network Design

- Uniform global architecture applied in all PoPs and Inter-PoP connections
- Engineered with redundancy and capacity to ensure optimal performance and survivability of the network
- Unique hub architecture ensures very high levels of resilience and minimizes single points of failure
- Global Crossing does not oversubscribe or overbook bandwidth at a customer-impacting level

##### > MPLS

- MPLS mesh architecture minimizes network hops needed to reach at least 95% of customers' destinations

## GLOBAL CROSSING DEDICATED INTERNET ACCESS (DIA) SERVICE



- Traffic engineering in network core utilizes MPLS-RSVP/TE
- Ensures redundant paths for all LSPs to route in event of network congestion or failure
- QoS in the core
- DWDM complements MPLS to increase network efficiency by running IP directly over fiber without overhead

### Security

- > **Global Crossing Has Unprecedented Network Security**
  - Setting a new security standard, Global Crossing follows the most stringent security measures in telecommunications today, as required by our Network Security Agreement with several U.S. government agencies. Our comprehensive, landmark agreement covers the following areas and all are overseen by a Security Committee of the board of directors and subject to independent third party audits for Physical, Logical, Information and Personnel security
- > **Corporate culture of security based on “Defense in Depth” Approach**
- > **Enterprise Security Program Plan governs all aspects of our security**

### Flexible Access Options

- > **Local Loops, Metro Services, Mid Span Meet, Frame/ATM, Colocation, Ethernet and DSL**

### Features

- > **MLPPP**
- > **Automates dynamic load balancing across all available links**
- > **Can fragmentize packets if necessary for efficient bandwidth utilization**
- > **Best choice for load balancing across different platforms**
- > **IPv6**
- > **Dual-stack edge routers enables v4/v6 on the same port**
- > **Address provisioning, DNS delegation, and caching servers**
- > **Null Route (“Black Hole”) Server to Combat Denial-of-Service (DoS) Attacks**
- > **Free service that allows you to block traffic to the host address range under attack to reduce the traffic flooding your Internet connection**

### Value-Added Services

- > **Optional Value-Added Services**
  - Back Up Services
  - Backup Store and Forward
  - Domain Name Registration and Transfer
  - IP Address Assignment
  - Load Sharing (NxT1/E1/DS3)
  - Enhanced Services
  - BGP v4; Multicast; News Access, Feed and Readers; Primary, Reverse and Secondary DNS

### Service Level Agreements

- > **Industry-leading Service Level Agreements include PoP-to-PoP Network Availability of 100%**

### Converged and Complementary Services

- > **Global Crossing Dedicated Internet Access Service provides a pathway to IP Network Convergence and integrates seamlessly with other products and services**
- > **Complementary Global Crossing Products & Services**
  - Professional Services
  - Converged IP Services including VoIP, IP Video and Collaboration
  - Global Crossing Managed Solutions
  - Managed Network Services
  - Managed Security Services
  - Managed VoIP Services
  - Customer Managed Solutions with Juniper Routers, Applications Acceleration and Security

### ENHANCE YOUR SOLUTION

- > **Managed Solutions for DIA, including Managed Network Services (see below)**
- > **IP VPN – Integrate our state-of-the-art IP offering with our network-based MPLS IP VPN service to support multiple Class of Service (CoS) levels and usage-based billing**
- > **Remote VPN Access – connect mobile workers and telecommuters with ease**
- > **Frame Relay/ATM to IP inter-networking**

### MANAGED NETWORK SERVICES

As an optional upgrade for your DIA service, Global Crossing Managed Network Services provide worldwide support for your CPE needs. Our capabilities include:

- > **Design**
- > **Engineering**
- > **Implementation Management**
- > **Equipment procurement functions for router-based Wide Area Networks (WANs) and Internet Access**
- > **Equipment Installation**
- > **Operations Management**
- > **Life Cycle Management**

### MAXIMUM RELIABILITY

- > **Network Operations Centers monitor and manage the Global Crossing network and switching systems 24x7, providing real-time problem diagnosis and resolution**
- > **Our multilingual Customer Care Centers deliver convenient, one-contact resolution for all network service issues**

### uCOMMAND™ ONLINE TOOLS

uCommand is an industry-leading customer portal. You can use uCommand tools whenever you want to monitor your usage, the health of the network, track provisioning status of all dedicated orders, manage your account, and more. No hold music. No appointment necessary. Just the ultimate in self-service.

**For current specifications and availability, please visit [www.globalcrossing.com](http://www.globalcrossing.com)**