



### Philosophy

At StreamGuys we understand that a streaming service requires a premium network to reliably serve audio and video signals. That's why we engineered our network specifically for the purpose of supporting high volume audio and video streams. Broadcasters need a network that will be up 24/7, 365 days of the year. As a company strategy we have continually invested in providing the best possible service level, taking care to grow our streaming distribution network for the benefit of quality routing.

### Geographic and Network Diversity

We balance the needs of geographic and network diversity. As a global media distributor we need to insure that people all over the world, on a wide variety of internet networks, can receive the broadcast signal. Network diversity is the defining characteristic of an improved network. Geographic diversity also plays a role, by using multiple networks and data center locations, streaming traffic can take the best possible network path to the customer. That's why we use an extremely diverse range of network providers, from premium tier-1 bandwidth carriers to private and public peering; we combine networks to achieve a rich environment.

For geographic diversity we maintain points of presence in key data centers around the world. With three data centers in the US, one in Amsterdam, and one in Tokyo.

### Network Overview

- 34 Core IP POPs capable of delivering multiple-10GbE service.
- Over 900 Gigabits per second of Interconnection capacity with other networks.
- 50 Gigabits per second of trans-atlantic capacity, via 5 diversely routed fiber paths.
- Over 280 Gigabits per second of inter-city long-haul capacity.
- 100% native IPv4 / IPv6 dual-stack network since 2003, with no tunnels or 6PE legacy infrastructure.
- More than 500 10GbE interfaces deployed network-wide.
- 100% uptime SLA



## The StreamGuys Network

**StreamGuys' global IP network provides your company with the reliability and performance needed to keep your infrastructure connected.**

The StreamGuys Network is redundantly connected in all its network POPs, with multiple 10 gigabit connections to both carriers and the network backbone

Using the best technologies from Juniper Networks and Cisco Systems, our network is running some of the best routers in the industry without compromise for optimal routing and availability.

The StreamGuys Network provides service in North America, Europe and Asia. Facilitating hundreds of private peering sessions with other networks, we can deliver your data to its final destination as fast and efficiently as possible.

Here is a map of the US and EU network backbone showing the fiber path and Pop's



### Bandwidth

- Reliable, high-performance 10 gigabit international network
- Instantly scalable connection speeds from 1mb to 10gb
- Worldwide network with POPs on three continents
- Redundant hardware
- DDOS mitigation
- MPLS enabled
- IPV6 available
- BGP4 optimized routing

The StreamGuys Network uses multiple providers to connect to the Internet. Each transit provider was selected for unique aspects of its network. This includes capacity, peering, footprint, performance, and equipment quality.

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### Route Optimization

BGP4 (Border Gate Protocol) technology allows the traffic to your site to travel more efficiently by finding the best route for data to travel. On a typical server the traffic always takes the same route from client to server. BGP protocol repeatedly locates the most efficient path between client and server. BGP is the protocol that combines multiple networks and allows internet networks to share routing information across multiple bandwidth providers.

### 100% Network SLA Guarantee

Our network will be available to your server 100% of the time. We guarantee it. We stand by our commitment to 24/7 availability by backing it with a 100% up time Service Level Agreement. Through the design and implementation of our network, we offer the reliability, performance, and scalability required to maintain 100% uptime.

### Datacenters

StreamGuys colocation and dedicated servers are provided at Equinix, and Qwest Datacenters. Security includes 5 layers of biometric palm scanners to enter and leave the facility, over 600 video cameras with 30 day digital recording, along with kevlar sheathed floors and walls.

We operate in Chicago IL, Ashburn VA, San Jose CA, Tokyo Japan, and Amsterdam NL.

Our data centers offer N+1 Redundant UPS Systems backed up by (6) 250 kW Onan/Cummins diesel generators with 36 hours of fuel. Redundant fiber optic cross-connects to diverse routers ensure 100% uptime.

Tours of the Chicago data center are available as well as traceroute and diagnostic tests on our network.

### Peering

Along with our transit carriers, we also maintain rich peering relationships with content and access networks. This peering enables us to access your destination networks directly, bypassing transit for exceptional speed and reliability. We use a multitude of public and private peering.



## **The StreamGuys Network**

### **Redundancy**

The StreamGuys Network uses redundant border and core routers to ensure 100% network availability. All carriers maintain multi-gigabit links to us, which we require to be fully burstable and redundant. To achieve this, our carriers all maintain redundant routers with a minimum of two OC-48 (2.5 gbps) or OC-192 (10 gbps) connections to satisfy our bandwidth needs.

### **Capacity**

Daily traffic never exceeds 25% of our available capacity to ensure we have the bandwidth available for special events, scheduled maintenance, possible carrier outages, or Denial of Service attacks.

### **Questions?**

If you have additional questions, or would like to speak to a sales associate please phone us at 1.707.667.9749