Internet Clean Pipe - DDoS Protection
Global Tier-1 network with built-in DDoS Detection and Mitigation services

Tata Communications’ Dedicated Internet Access provides a clean pipe solution for high speed Internet built on a global, Tier-1, IP backbone with bundled DDoS (Distributed Denial of Service) protection.

While premise-based devices leave bandwidth vulnerable, Tata Communications’ combined service provides a network-based security solution that delivers Internet connectivity plus security protection. Dedicated Internet Access is particularly suited for organizations that require secure Internet access across multiple countries and geographies. Additional DDoS security features are delivered in the cloud to rapidly and proactively mitigate attacks.

Better Bandwidth Utilization with Network-based Defense
As a Tier-1 provider with a global IP network with 1.5Tbps capacity meshed with 10G backbones, Tata Communications’ network ranks in the top 10 of all worldwide autonomous systems with over 1,000Gbit/s of peering connectivity. By removing attack traffic within the Tata Communications’ IP backbone, the Internet Clean Pipe solution rapidly clears threats in the cloud before they hit the customer network. The solution also provides users with multiple bandwidth speeds and ensures optimal bandwidth usage.

Proactive, Real-time Mitigation
Tata Communications offers the world’s largest DDoS Detection and Mitigation service* built into a global IP backbone for full transparency to users once mitigation begins. The service scrutinizes network traffic in real-time to identify anomalies and quarantine attack packets. Only malicious traffic is blocked – legitimate traffic continues to flow through so network and applications remain available to users. Also, Tata Communications identifies the need for mitigation much faster than an in-house staff or solutions.

A Growing Network Threat
DDoS attacks saturate target networks with external communications requests that block legitimate traffic and disrupt access for customers and partners. By targeting websites, hosted applications, and network infrastructures, DDoS attacks can bring mission-critical systems and business operations to a halt, losing revenue opportunities, decreasing productivity, and damaging business reputations.

Single Point of Contact
By securing bandwidth and security features from the same provider, companies work with a single source for all their support needs, ensuring problem escalation and resolution occur immediately for reduced support costs. In addition, a single, centralized billing source simplifies processing and payment.

*Arbor Networks PR - May 6, 2008
Internet Clean Pipe

Sophisticated Detection Capabilities

In addition to built-in attack profiles, the Dedicated Internet Access/DDoS Detection and Mitigation service uses statistical and behavioral analysis methods to identify attacks in progress, leveraging state-of-the-art Arbor Peakflow DDoS analysis technology.

Comprehensive Reporting

Tata Communications provides 24X7x365 monitoring and a state-of-the-art security services portal so customers can gain visibility into network traffic, including high, medium and low severity alerts. Available reports include traffic and alert report summary, TCP and UDP protocol traffic summary, and a top “IP talkers” summary.

Immediate Notification

When an attack is detected, the DDoS detection service generates corresponding alerts, classified as low, medium or high severity. Alerts can be sent via email or displayed on the online security portal; high-severity alerts trigger phone notifications to the customer’s designated point of contact.

Certified Expert Staff

Tata Communications’ Security Services Operation Center (SSOC) is staffed with certified and experienced security professionals who monitor and manage services 24X7X365. As a global operations center, the SSOC is certified to ISO 27001 and provides centralized support.

Reliability and Maximum Uptime

Reliability is backed by best-in-class Service Level Agreements (SLAs), which guarantee 100 percent network uptime, zero latency and zero packet drop. Tata Communications also provides specific guarantees on the performance and responsiveness of the Dedicated Internet Access/DDoS Detection and Mitigation service.

- Attack notification via email within 15 minutes of identification or 20 minutes via phone
- Mitigation commencement within 30 minutes either of attack identification or customer authorization, per customer preference

Key Benefits

- Grow with a global Tier-1 network that extends into over 200 countries and territories
- Benefit from a single point of contact and dedicated Internet access to 1.5Tbps IP network from virtually any country to one of Tata Communications’ 90+ global Points of Presence (PoPs) around the world
- Leverage Tata Communications’ global reach, scale and Tier-1 IP backbone and the world’s largest DDoS Detection and Mitigation Service
- Collaborative teaming with Tata Communications for Denial of Service attacks – the customer can leverage Tata Communications’ security expertise to customize an effective mitigation response
- Protect against a range of attacks with mitigation based on maximum attack size, not bandwidth
- Safeguard last-mile bandwidth and avoid costly overprovisioning
- Save on hardware and costs to maintain and manage equipment compared to premise-based solutions

For more information on the Internet Clean Pipe Solution, please email:
security.solution@tatacommunications.com

www.tatacommunications.com