

# DDoS Detection and Mitigation

## Ensure application availability



### A Growing Network Threat

Distributed Denial of Services (DDoS) attacks target web sites, hosted applications or network infrastructures by absorbing all available bandwidth and disrupting access for legitimate customers and partners. DDoS attacks can bring mission-critical systems and business operations to a halt, resulting in lost revenue opportunities, decreased productivity or damage to your reputation.

### Protect Your Business

Tata Communications offers the world's largest deployment of DDoS detection and mitigation capabilities\*. Our award-winning service scrutinizes your network traffic in real time to identify anomalies and quarantine attack packets. Only malicious traffic is blocked—legitimate traffic continues to flow through so your network and applications remain available to legitimate users.

Our service is backed by 24x7x365 management and monitoring by expert security staff, as well as performance-based SLAs, providing comprehensive protection for the network resources that power your business.

### Network-based Defense

While premise-based devices leave last-mile bandwidth vulnerable, our network-based DDoS service removes attack traffic while still within our global IP backbone.

### Sophisticated Detection Capabilities

In addition to built-in profiles of common attacks, our DDoS Detection service uses statistical and behavioral analysis methods to identify attacks in progress, leveraging state-of-the-art Arbor Peakflow DDoS analysis technology.

### Immediate Notification

When an attack is detected, our DDoS Detection service generates corresponding alerts, classified as low, medium or high severity. Alerts can be sent via email or displayed on the Security Portal; high-severity alerts trigger phone notifications.

### Key Benefits

- Bypass traditional, tedious fault-resolution procedures with monitoring and notifications
- Ensure business continuity by protecting access to critical resources
- Improve network and application uptime
- Safeguard your customer experience and business reputation
- Enjoy lower total cost of ownership against premise-based solutions
- Avoid capital expenditures and lost revenue from service outages
- Be prepared for a range of attacks with mitigation based on maximum attack size, not bandwidth
- Protect last-mile bandwidth and avoid costly over-provisioning

\*Arbor Networks PR - May 6, 2008



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Security

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## Proactive, Real-time Mitigation

Mitigation of attacks happens rapidly, before your last mile and data center resources are overwhelmed. Our skilled security services staff manage and monitor your solution 24x7x365, to respond to anomalies immediately. Mitigation services support either dedicated or shared configurations, depending upon risk tolerances.

## Service Delivery and Support

### Certified Expert Staff

Our Security Services Operation Center (SSOC) is staffed with certified and experienced security professionals who monitor and manage your services 24x7x365. The SSOC is a global operation center and a single point of contact for all your support needs, and is certified to ISO 27001.

## Industry-Leading SLAs

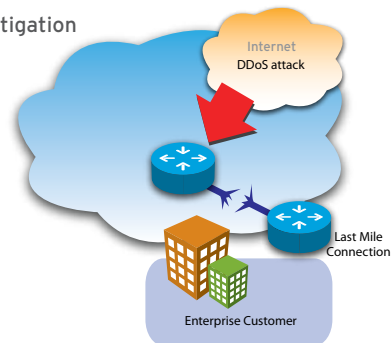
Tata Communications provides money-back guarantees on the performance and responsiveness of our DDoS Detection and Mitigation service.

- \_ 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

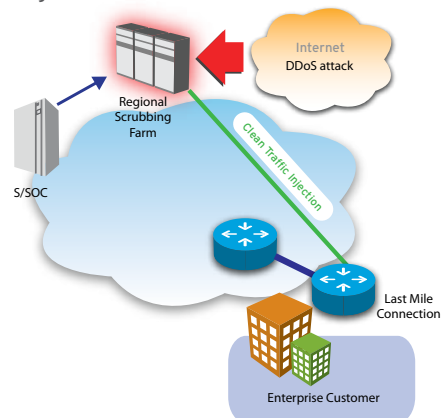
## Comprehensive Reporting

Leverage our security services portal to gain visibility into your network traffic, including high, medium and low severity alerts. Reports available include traffic and alert report summary, TCP and UDP protocol traffic summary and Top IP "talkers" summary.

Without Mitigation



With Mitigation



**For more information about DDoS Detection and Mitigation, please visit:**

[www.tatacommunications.com/contact](http://www.tatacommunications.com/contact) or email [security.solution@tatacommunications.com](mailto:security.solution@tatacommunications.com)

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