

Tata Communications Content Delivery Network - Secure Content Delivery

A good customer experience is based on a mix of security and performance. If either falters, customer loyalty and brand equity are affected. The dilemma facing many organisations today is that while their website allows customers to interact digitally, it also exposes their applications, databases, and critical data to sophisticated and targeted threats. As hackers devise smarter ways to access web applications and common tools and encryption protocols become more prone to cybercrime, organisations need to defend their assets and ward off escalating assaults.

You also need to stay vigilant about the increasing number of DDoS attacks. In the early days, DDoS attacks meant hackers flooded the network with traffic and overwhelmed server connections. Today, the emerging trend in DDoS is a multi-layer attack combining flood attacks with application and state exhaustion attacks. Infrastructure devices are targeted in a single, sustained onslaught. Since these attacks generally consume less bandwidth, they are easier to launch, stealthier, and far more challenging to detect and defeat than volumetric attacks. What's more, they can have a catastrophic impact on business availability by threatening critical HTTP, DNS, VoIP, and SMTP applications and shutting down websites and web-based services. Therefore, compared to a few years ago, it is more important now than ever to have a DDoS protection plan in place.

Be it DDoS, DNS, or application level attacks, you need the best solutions to protect yourself and your customers.

Tata Communications Secure Content Delivery


Tata Communications' Integrated Security and CDN solution detects and mitigates volumetric attacks on your properties, prevents attacks on your web applications and secures your DNS. These functionalities, coupled with an inherently fast CDN, give you a unique combination of speed and security.

Tata Communications' CDN and security layers are built on a world-class Tier 1 ISP platform that detects real-time threats and provides a secure environment to deliver content seamlessly to end-users.


Unified enterprise grade security platform for CDN

 **DDoS mitigation:** Distributed, on-net and off-net DDoS protection offer real-time non-invasive monitoring of volumetric attacks. Distributed scrubber farms deliver clean traffic back to the origin.


- Distributed deployment of detection and mitigation capabilities
- Network-based service addresses distributed threats at the network edge
- Scrutinises traffic in real-time to identify anomalies
- Only malicious traffic is blocked – legitimate traffic continues to flow, so network and applications remain available

 **Bot management:** A robust bot management solution aligned with CDN delivery to detect bots at the edge, complemented with a self-service dashboard for rule definitions and analytics.


- Prevent content scraping
- Prevent misuse of resources and ensure they are used only by legitimate visitors

 **DNS security:** Our CDN service's integrated, comprehensive DNS security layer protects your website and applications against attacks targeted at the DNS.

- A global, over-built, DDoS resilient anycast network with a reliability history backed by 100% uptime SLA
- Low latency DNS intelligently routes around disruptions and sends every user to the fastest origin
- Leverage your telemetry to build policies that meet your unique business use cases and the go-to-market needs of specific applications
- Cloud-native, API-first architecture integrates with DevOps tools to increase development and deployment velocity


 **WAF:** State-of-the-art Web Application Firewall infrastructure with customisable levels of protection helps you fight off web attacks without sacrificing quality.


- Highly efficient Cloud WAF at the edge to detect risk continuously
- A combination of always-on security and expert-created surgically accurate security rules to patch the vulnerabilities through WAF with assured zero false positives
- Zero performance impact, as CDN edges accelerate the traffic


 **Tokenisation:** A comprehensive tokenisation solution to secure and protect your streams at the segment level using custom tokens based on multiple parameters.

- Tokenisation capability with varying locations of hash components
- Manifest level and segment level tokenisation for HLS and DASH
- Easy migration from existing tokenisation logic


Tata Communications advantages

 **Scalable DDoS protection:** Non-intrusive, in-parallel DDoS monitoring of the entire traffic flowing through the CDN edge nodes to your website, with no impact on performance

 **Robust bot management:** Leverages the bot management dashboard to allow authorised partner bots to complement your business and stop bad bots from undermining customer confidence

 **Continuous risk detection:** Continuously identifies your application security posture through automated security scans and manual pen-testing

 **Immediate application protection:** Always-on security and expert-created surgically accurate security rules to patch the vulnerabilities through WAF with assured zero false positives

 **World-class DNS security:** Next-gen DNS delivers 360-degree security against DNS Flood, amplification, protocol/hijacking (DNS and BGP) attacks, and DNS cache poisoning and tunnelling

Trusted by our customers



Tata Communications CDN reviews

By Tata Communications in global CDN

4.6 ★★★★★

Customer experience

Evaluation & contracting	4.6	★★★★★
Planning & transition	4.5	★★★★★
Delivery & execution	4.7	★★★★★

Future-proof your Content Delivery Network by switching to our end-to-end, managed and hybrid ecosystem! Talk to one of our experts today at MES@tatacommunications.com

Contact us

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