

Tata Communications Edge Distribution Platform (EDP)

Secure Edge platform built for Performance, Resilience,
and Intelligence



INTRODUCTION

As digital experiences become central to enterprise business models, the edge has become the new centre of gravity for application delivery, security and performance. Enterprises are at an inflection point: the rapid rise of distributed applications, APIs, AI workloads and non-human consumers has minimised the relevance of traditional CDN architectures. Fragmented delivery stacks, siloed security controls and inconsistent visibility expand the attack surface and increase operational complexity. An **Edge Distribution Platform (EDP)** addresses this shift by unifying delivery, security and intelligence at the edge, enabling enterprises to deliver fast, resilient and secure digital experiences at global scale.

Key Highlights

- ▶ Amongst the **Top 3** providers in performance across key geographies
- ▶ **65+ Super-PoPs**, extendable to **300+** across the Tata Communications network
- ▶ **150+** peerings on a Tier-1 backbone, enabling low-latency delivery at scale
- ▶ Protection against **60+** DDoS attack vectors (L3/4 and L7)
- ▶ **100%** availability with global defence and **100%** in-country delivery
- ▶ **AI-agent** powered identification and mitigation of vulnerabilities within ~72 hrs at <1% FP rate

SOLUTION OVERVIEW

Tata Communications Edge Distribution Platform (EDP) is a globally distributed, carrier-grade edge platform that combines content delivery, DDoS protection, WAAP, real-time analytics, and edge compute into a single, unified solution. Built on Tata Communications' Tier-1 global network and technology stacks, EDP enables enterprises to deliver fast, secure, and scalable digital experiences while protecting applications, APIs, and data from evolving threats.



Performance

Deliver fast, consistent digital experiences everywhere



Security

Comprehensive security for applications and APIs



Resilience

Multi-layered, coordinated protection ensuring uninterrupted business



Intelligence

Real-time intelligence driving proactive detection and automated response



Content Delivery Network



Web Application & API Protection (WAAP)



Edge Computing



Distributed Denial of Service



Customer networks

Edge Distribution Platform

Global network backbone (service chaining)



- Hyperscalers
- SaaS
- Custom cloud apps

Key use cases

Secure enterprise apps and APIs

Enhanced customer experience

Comprehensive DDoS protection - L3 to L7

Unified managed services

Simplify function deployment at edge

PLATFORM FEATURES



Content delivery and user experience

A global, highly available CDN delivers secure live and on-demand content at scale, absorbing traffic spikes and ensuring consistent quality across devices. Intelligent caching, modern streaming protocols and token-based protection enable efficient delivery with IPv4 and IPv6 support.



DDoS protection

Comprehensive protection against volumetric, protocol and application-layer attacks, with globally distributed mitigation and scrubbing performed closest to the attack source. Integrated native cyber threat intelligence, flexible mitigation controls and historical attack visibility enable proactive, controlled defence.



Web application and edge security

Security is enforced at the edge with TLS 1.3, edge-to-origin encryption and origin protection. Integrated WAAP capabilities - including WAF, API security, bot management, traffic control and Layer 7 DDoS defence, deliver resilient, policy-driven protection with built-in compliance support.



Intelligent edge compute

Deliver customised experiences by running functions at the edge, using ready-to-use edge compute templates that automate deployment and reduce operational effort.



Unified orchestration and visibility

A single, intelligent platform orchestrates petabyte-scale traffic with support for high request volumes and massive concurrency. AI-driven analytics deliver real-time visibility and anomaly detection, enabling automated optimisation, rapid onboarding and faster time to value through self-service, role-based insights.



Managed services and support

Fully managed services with 24x7 India-based technical support ensure enterprise-grade operational readiness. Tata Communications provides end-to-end service management to operate, monitor and optimise edge environments at scale.



Proactive defence

Continuous vulnerability reduction using an integrated application scanner, SLA-driven blocking actions, and AI-powered policy fine-tuning to minimise false positives.

CUSTOMER BENEFITS



Consistent, high-performance digital experiences

Reduced latency and fewer performance spikes across geographies



Stronger security with reduced attack surface

Threats mitigated at the edge, improving protection and compliance



Future-ready for AI and modern applications

Built to support real-time, API-driven and AI workloads



Simplified operations

One unified platform replaces fragmented point solutions



Predictable costs and reduced egress exposure

Optimised routing and edge caching minimise origin pulls

THE TATA COMMUNICATIONS ADVANTAGE



Global Tier-1 network leadership

Extensive backbone reach with 130+ peerings and deep connectivity to ISPs and hyperscalers.



Edge, network and security expertise

Proven experience operating mission-critical networks and security services at global scale.



AI-ready, future-focused architecture

Built to support next-generation digital and AI-driven use cases.



Enterprise-grade trust and managed services

End-to-end lifecycle support backed by robust SLAs and operational excellence.



Compliance-ready global delivery

100% in-country delivery options supporting data sovereignty and regulatory needs.

TATA COMMUNICATIONS EDGE DISTRIBUTION PLATFORM

Delivering next-generation digital experiences - at the edge.

For more information, visit us at www.tatacommunications.com

CONTACT

