

## MOBILITY SERVICES

## GLOBAL SIGNALLING

MANAGE GLOBAL ROAMING AND MESSAGING  
TRAFFIC, WITH OPTIMUM COST CONTROLHOW DO YOU GUARANTEE HIGH AVAILABILITY OF GLOBAL ROAMING  
AND MESSAGING TRAFFIC, WHILE STILL CONTROLLING COSTS?

To ensure a high-quality roaming experience, you need to minimise service disruption. At the same time, with increasing margin pressures, accelerating technology evolution and growing international roaming traffic volume, reducing operational costs is also important.

Tata Communications' Global Mobile Signalling solutions optimise the delivery of signalling traffic for international roaming and messaging services. Our core offerings, including SCCP, STP Transit and Diameter, enable the routing and delivery of signalling traffic to both bilateral and hub destinations.

- Enhance your subscribers' experience by minimising routing delays, thanks to our intelligent routing service
- Ensure high service availability with our resilient infrastructure
- Reduce downtime during outages with 1-hop delivery to 200 destinations, direct ANSI termination, Mobile Number Portability (MNP) correction and SMS security compliance
- Protect your network against fraudulent access and protect your customers from potential financial loss, with built-in signalling security
- Seamless migration toward 5G, with our Diameter signalling service, and manage 2G to 5G services - supported by a combination of SS7 and Diameter-based signalling, with enhanced security functions
- Benefit from superior reliability with our owned and operated network
- Minimise access costs with local network capabilities in key markets worldwide

## Key Features

- Select SCCP or STP Transit on a per-destination basis
- Accommodate high volume traffic efficiently with SIGTRAN connectivity
- Built-In security and proactive signalling monitoring and reporting with 24x7 support
- Multi STP configuration. 6 STPs on 3 different continents. Regional traffic localisation, SigTran ring and STP redundancy
- Efficient provisioning to add new roaming partners
- Optional ANSI/ITU signalling standard conversion
- Intelligent Routing service
- Business intelligence - 'Signalling Monitoring and Reporting Tool' (SMART) reporting by origin and destination for voice, data & SMS traffic

## A BEST-IN-CLASS CUSTOMER EXPERIENCE ACROSS NETWORKS

With the world's largest on-net signalling network, we deliver signalling on a predictable path with minimal delays and fewer hops. Our owned and operated global network, built around a unique core of three geographically redundant STP pairs (North America, Europe, Asia), ensures high reliability and reduces 3<sup>rd</sup> party involvement. By leveraging our global footprint, you benefit from high availability with minimal intermediate hops, improved traffic symmetry and resilient network design.

## EFFICIENT GLOBAL SERVICE DELIVERY AND COST SAVINGS

Our dedicated teams are on hand to support new customers during migration, to minimise the impact of transition and reduce costs. We'll help you simplify bi-lateral and hub inter-provider relationship management to improve efficiency. Our Intelligent Routing Service (IRS) and Wireless Global Roaming (WGR) provide value-added routing and signalling translation functions to optimise service delivery.

With IRS you can define the most cost-effective and high-quality routes on a destination basis. And WGR provides ANSI/ITU conversion for your customers roaming in and out of North America, including support for number portability and direct termination to major mobile service providers in the US and Canada.

## LEVERAGE SERVICES THAT EVOLVE WITH YOUR BUSINESS

Our Global Mobile Signalling solutions are transported across different network options, including TDM, Public IP, Global VPN and IPX Connect. We support signalling evolution from SS7 to Diameter, for easy migration to IMS-based services and LTE / 5G roaming.

Designed to support the needs of emerging mobile ecosystems and platforms, our mobile signalling solutions are part of Tata Communications' IPX+ Framework. Providing the industry-leading solutions to enable inter-provider mobile service delivery and management.

## SECURITY BUILT-IN

Tata Communications provides comprehensive SS7 and Diameter signalling security capabilities to monitor traffic and block attacks, avoiding major network disruption. Protection from external attacks ensures compliance with subscriber security requirements and minimises the impact of service disruption for the end customer.

Tata Communications security capabilities protect the signalling network from fraudulent activity and potential financial loss, by continuously scanning mobile operator networks to identify external threats. The service ensures that you avoid the legal and financial consequences of responsibility for an unsecured network and meet national and international security obligations.

### Why Tata Communications?

- Largest global reach, with extensive local network capabilities for mobile signalling
- #1 on-net mobile signalling footprint, built on our industry-leading global network, with ~200 direct connects and 800+ reachable MNOs
- Largest ANSI/ITU conversion provider with signalling conversion, number portability, and direct termination support to North America
- Market-leading reliability and service availability, with dedicated 24x7 support
- Comprehensive signalling security to protect your network and your customers

## About Tata Communications

Tata Communications Limited (CIN no: L64200MH1986PLC039266) along with its subsidiaries (Tata Communications) is a leading global provider of A New World of Communications™. With a leadership position in emerging markets, Tata Communications leverages its advanced solutions capabilities and domain expertise across its global network to deliver managed solutions to multi-national enterprises, service providers and consumers.

The Tata Communications global network includes one of the most advanced and largest submarine cable networks and a Tier-1 IP network, as well as nearly 1.5 million square feet of data centre and collocation space worldwide.

Tata Communications Limited is listed on the Bombay Stock Exchange and the National Stock Exchange of India.

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