

# Global Mobile Signalling Solutions

How can you guarantee high availability of global roaming and messaging traffic while controlling costs?

With a global partner that has the largest on-net SS7 network.

## Key Benefits

Enhance customer experience by minimising routing delay

Ensure high availability with resilient infrastructure

Lower downtime during outages with 1-hop delivery to 290+ destinations, direct ANSI termination and Mobile Number Portability (MNP) correction and SMS security compliance

Meet traffic growth demand with scalable solutions such as SIGTRAN

Take advantage of superior reliability with our owned and operated network

Minimise access costs with local network capillarity in key markets worldwide

To ensure a high-quality roaming experience, mobile service providers need to minimise service disruption to roaming subscribers. Amid increasing margin pressures and international roaming traffic volume, reducing operational costs also becomes imperative.

Tata Communications Global Mobile Signalling Solutions optimise the delivery of signalling traffic for international roaming and messaging services. Our core offerings, SCCP and STP Transit, enable the routing and delivery of signalling traffic to both bilateral and hubbed destinations. Value-added solutions include Intelligent Routing Service (IRS) and Wireless Global Roaming (WGR).

## Deliver best-of-class customer experience across networks

With the world's largest on-net signalling network, we deliver your messages 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 in North America, Europe and Asia, ensures higher reliability and reduces third-party involvement. By leveraging our global footprint of 290+ direct connects and 900+ reachable destinations, mobile service providers can benefit from higher availability with minimal intermediate hops, improved traffic symmetry and highly resilient network design. Our Signalling Monitoring and Reporting Tool (SMART) provides MSU and Opcode reporting by origin and destination, as well as SMS reporting.

## Drive efficient global service delivery and cost savings

Our solutions further simplify bi-lateral and hubbed interprovider relationship management and improve efficiency. Intelligent Routing Service (IRS) and Wireless Global Roaming (WGR) provide value-added routing and signalling translation functions to optimise service delivery. IRS allows you to define the most cost-effective and high-quality routes on a destination basis. 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 U.S. and Canada. New customers are supported by dedicated teams for migration to minimise transition impacts and costs.

## Key Features

Access to the largest on-net mobile signalling community

Option to select between SCCP and STP Transit on a per-destination basis

SIGTRAN connectivity to accommodate high-volume traffic with better cost efficiency

Proactive signalling traffic monitoring and reporting with 24x7 dedicated specialists

Extensive SS7 network scalable for traffic growth

Efficient system provisioning to quickly add new roaming partners

Flexible pay-as-you-use or fixed billing options

Optional ANSI/ITU signalling standard conversion (Wireless Global Roaming)

Optional origin-based routing features (Intelligent Routing Service)

## Leverage services that evolve with your business

Our Global Mobile Signalling Solutions are transported over a number of network options, including TDM, public IP, Global VPN and IPX Connect. The solutions support the signalling evolution from SCCP to Diameter, ready for IMS and LTE roaming capabilities and beyond.

Global Mobile Signalling Solutions are a component of Tata Communications IPX+ Framework, which provides industry leading solutions to enable interprovider mobile service delivery and management, and are designed to support emerging and evolving mobile ecosystem needs.

### Global Mobile Signalling Solutions: At-a-glance

#### Signalling value-added services

- ANSI/ITU signalling conversion (Wireless Roaming Service)
- Intelligent Routing Service for hub and Application to Person (A2P) access

#### Core services

SCCP and STP Transit

#### Signalling evolution

LTE Roaming (via Diameter)

#### Network Connectivity

TDM, Public IP, Global VPN and IPX Connect (SIGTRAN)

## The Tata Communications advantage

- Largest global reach and extensive local network capillarity for mobile signalling
- #1 on-net mobile signalling footprint, built on our industry-leading global network with 290+ direct connects and 900+ reachable destinations
- Largest ANSI/ITU conversion provider with signalling conversion, number portability, and direct termination support to North America (Tata Communications Lanka Limited) and Nepal (United Telecom Limited).
- Market leading reliability and service availability with dedicated 24x7 global technical support

For more information about Global Mobile Signalling Solutions, please visit: [www.tatacommunications.com/contact](http://www.tatacommunications.com/contact) or email [GCS-Marketing@tatacommunications.com](mailto:GCS-Marketing@tatacommunications.com).

## About Tata Communications

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 and pan-India network to deliver managed solutions to multi-national enterprises, service providers and Indian consumers.

The Tata Global Network includes one of the most advanced and largest submarine cable networks, a Tier-1 IP network, with connectivity to more than 200 countries across 400 PoPs, and nearly 1 million square feet of data centre and colocation space worldwide.

Tata Communications' depth and breadth of reach in emerging markets includes leadership in Indian enterprise data services, leadership in global international voice, and strategic investments in operators in South Africa (Neotel), Sri Lanka (Tata Communications Lanka Limited) and Nepal (United Telecom Limited).

Tata Communications Limited is listed on the Bombay Stock Exchange and the National Stock Exchange of India and its ADRs are listed on the New York Stock Exchange. (NYSE: TCL)