

PORTFOLIO: LTE/5G ROAMING



DELIVER MORE, WITH LTE & 5G ROAMING INTERCONNECTION

IN AN INCREASINGLY COMPETITIVE MARKET, KEEP YOUR HARD-WON CUSTOMERS BY OFFERING THE SUPERIOR SERVICES THEY DEMAND.

4G/LTE has been widely adopted in the mobile communications market, nevertheless legacy networks (2G/3G) remain. Mobile Network Operators need to manage a mixed network environment. With the advent of 5G and the need to retire older generation networks, this complexity increases.

Wholesale interconnect and roaming processes are becoming increasingly integrated. That's why you need a unified management capability to address service interoperability and network interworking, in conjunction with international interconnection.

THE BUILDING BLOCKS FOR LTE ROAMING INTERCONNECTION

Tata Communications gives you all the tools you need to monetise your LTE investments and prepare for 5G. Our LTE architecture supports the deployment of multimedia and IP-based communications services with options for VoLTE roaming including S8HR, LBO and R-VoLTE.

DIAMETER SIGNALLING EXCHANGE

- Available from 74 on-net PoPs in 40 countries
- Service levels exceeding GSMA IR.34 requirements
- Fully compliant with all relevant GSMA PRDs, including IR.88 and IR.77
- Network topology hiding to remove external threats
- Interworking with Diameter signalling manipulation
- Advanced congestion control and load balancing.

MULTI-SERVICE IPX

- Defined bandwidth per service
- Independent routing and addressing
- Ability to upgrade each service independent

SUPERIOR TRANSPORT PERFORMANCE

- Proven experience with QoS management for MPLS services
- RTD that meets market requirements
- Packet loss $\leq 0.01\%$, easily surpassing GSMA IR.34 minimum requirement of 0.05-0.08%
- Jitter values satisfying CoS demanding applications
- Superior redundancy in worldwide fibre transmission network

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

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ENUM

Tata Communications manages the combination of T0 and T1 ENUM functions plus T2 number portability. support.

JOIN A GLOBAL COMMUNITY

Tata Communications' LTE Hub gives you access to a global community, comprising hundreds of MNOs, with 80 IPX voice interconnections. This means fast access to multiple services, including VoLTE, VoIP, ViLTE, VoWiFi and LTE roaming, with fast implementation and easy access to our highly available network.

GLOBAL REACH, THROUGH A SINGLE CONNECTION

IPX Gateway: Interconnection and Interworking		
Voice	Roaming	Signalling
TDM, HD Voice, VoLTE, VoIP	2G, 3G, 4G, 5G	SS7
Optimal Routing	GRX	SigTran
TDM/ VoIP transcoding & interoperability	Data roaming boost (regional breakout)	Diameter
Registry services/ ENUM	Wi-fi roaming	

IPX Transport	
Billing, Clearing & Settlement	QoS, CoS Management
Security, Fraud Prevention, Risk Management	Reporting & Analytics

NETWORK BENEFITS

- Worldwide IP coverage with regional reach
- 99.995% MPLS core backbone availability with redundancy and scale
- Diameter signalling routing mated pair, with full geo-redundancy
- Peering at major GRX peering points
- Roaming interconnect designed, deployed and managed from the physical to application layer

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About Tata Communications

Tata Communications is a leading global digital infrastructure provider that powers today's fast growing digital economy.

The company's customers represent 300 of the Fortune 500 whose digital transformation journeys are enabled by its portfolio of integrated, globally managed services that deliver local customer experiences. Through its network, cloud, mobility, Internet of Things (IoT), collaboration and security services, Tata Communications carries around 30% of the world's internet routes and connects businesses to 60% of the world's cloud giants and 4 out of 5 mobile subscribers.

The company's capabilities are underpinned by its global network. It is the world's largest wholly owned subsea fibre backbone and a Tier-1 IP network with connectivity to more than 240 countries and territories.

Tata Communications Limited is listed on the Bombay Stock Exchange and the National Stock Exchange of India and is present in over 200 countries and territories around the world.

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