

# IPX Services

Single converged connection  
for end-to-end delivery of  
voice and 4G/5G data





# IPX Services is an ecosystem, which is a private, secure IP network with global reach.

Integrating Big Data management and analysis at a network and business level, with an emphasis on security and firewall solutions, is what IPX Services offers whilst maintaining quality and redundancy with a resilient IPX backbone network.

## IPX main services

- LTE firewall
- SMS mobility
- GRX/IPX
- LTE diameter signalling
- 5G interworking and roaming
- Signalling firewall
- VoLTE services
- VAS of Signalling
  - Steering of roaming traffic
  - Welcome SMS
  - Insight for data analysis
  - Virtual home environment
  - National border roaming
- SMS gateway
- SMS firewall
- Internet of Things





## Enabling limitless roaming capabilities

The IPX Services by Carrier & Wholesale division of e& provides a future-ready platform for data roaming and multi-service data transport in 4G/5G, while positioning MNOs for existing and emerging mobile broadband services, and enabling interworking and fallback with existing technologies for end-to-end service delivery. IPX Services supports GRX, LTE Roaming, enables data roaming amongst LTE-ready 5G MNOs with Diameter Signalling exchange whilst providing the managed transport for services delivered across MNO networks, with the quality, security, scale and agility required for application needs as MNOs evolve their GSM technology.

Rapid changes in mobile user behaviour, technology evolution and ecosystem dynamics demand faster response and create new opportunities for MNOs. More than ever, an adaptable and scalable infrastructure is required for MNOs to capture these opportunities with agility and efficiency.

IPX Services supports data roaming and data transport service across MNO networks to deliver superior subscriber experience with efficiency. It also accelerates time to new revenue by providing a converged interconnect platform for data roaming and data transport to deliver seamless user experience across MNO networks, ready for both existing and emerging LTE-enabled services.





**Drive efficiency and faster time to new revenue.**

**Deliver quality subscriber experience.**

IPX Services offers data transport for multiple services with consolidated access over a converged network, supporting voice, signalling, messaging, roaming, video, and more, making it.

Backed by industry-leading SLAs defined by GSMA, resiliency features and a secure network, separate from the public internet, IPX Services provides high availability and performance required for mission-critical applications such as IoT.

To provide differentiated services according to application needs, IPX Services provides Quality of Service (QoS) support to meet the most stringent requirements from rich media applications, allowing the flexibility needed for multiple services over the common network. Built on own extensive global MPLS network, IPX Services offers the scalability needed for mobile data growth, as well as the visibility and control required to optimise user experience.

## Benefits

- Network simplicity and full visibility
- High security and high reliability
- IPX can help operators fully exploit the advantages of end-to-end IP networks control
- IPX provides fixed and mobile operators with high-quality, cost-effective interconnect services
- IPX over e& MPLS network makes it the ideal foundation for international voice and data as well as mission critical applications
- Improve subscriber experience with scale, QoS, security and availability
- Accelerate time to new revenue with multi-service support
- Efficient direct network interconnect over common IP-based infrastructure
- Ensure success of 4G/5G migration across services with a trusted partner experienced in VoIP, global network and reliable mobile signalling on-net community

## Features

- 4G & 5G data roaming over GRX with global coverage reach
- LTE roaming with resilient diameter signalling architecture on the reliable on-net mobile signalling network
- Interworking and fallback from 5G, 4G to 3G or earlier technology
- 24/7 proactive monitoring and customer support
- Conforming to GSMA standards including IR.34 and IR.77
- Wide range of services, including roaming (signalling, data roaming), communication (VoIPX, VoLTE, ViLTE, HDVC, anti-fraud), VAS
- Flexible customer routing decision and control
- Worldwide coverage with PoPs in key geographies, both in developed and emerging economies





## Why choose IPX Services



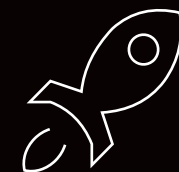
### Extensive on-net coverage

e&'s ecosystem constitutes the most extensive international network that links 160+ international voice carriers with its international mobile network reaching over 870 destinations thus making interconnectivity across networks a simple and seamless reality for your subscribers.



### Local in-country access

Not all IPX are created equal and some carriers use any internet or international long distance to access the IPX network. We value transparency and our IPX network enables local in-country access without the need for internet or long distance interconnections.



### Competitive edge

e& is an active member of the GSMA Forum and shares inputs regularly to enhance IPX Services in the future. We are committed to expanding our extensive on-net IPX coverage and launching innovative new products and applications over our global IPX platform to help service providers get a competitive edge.







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