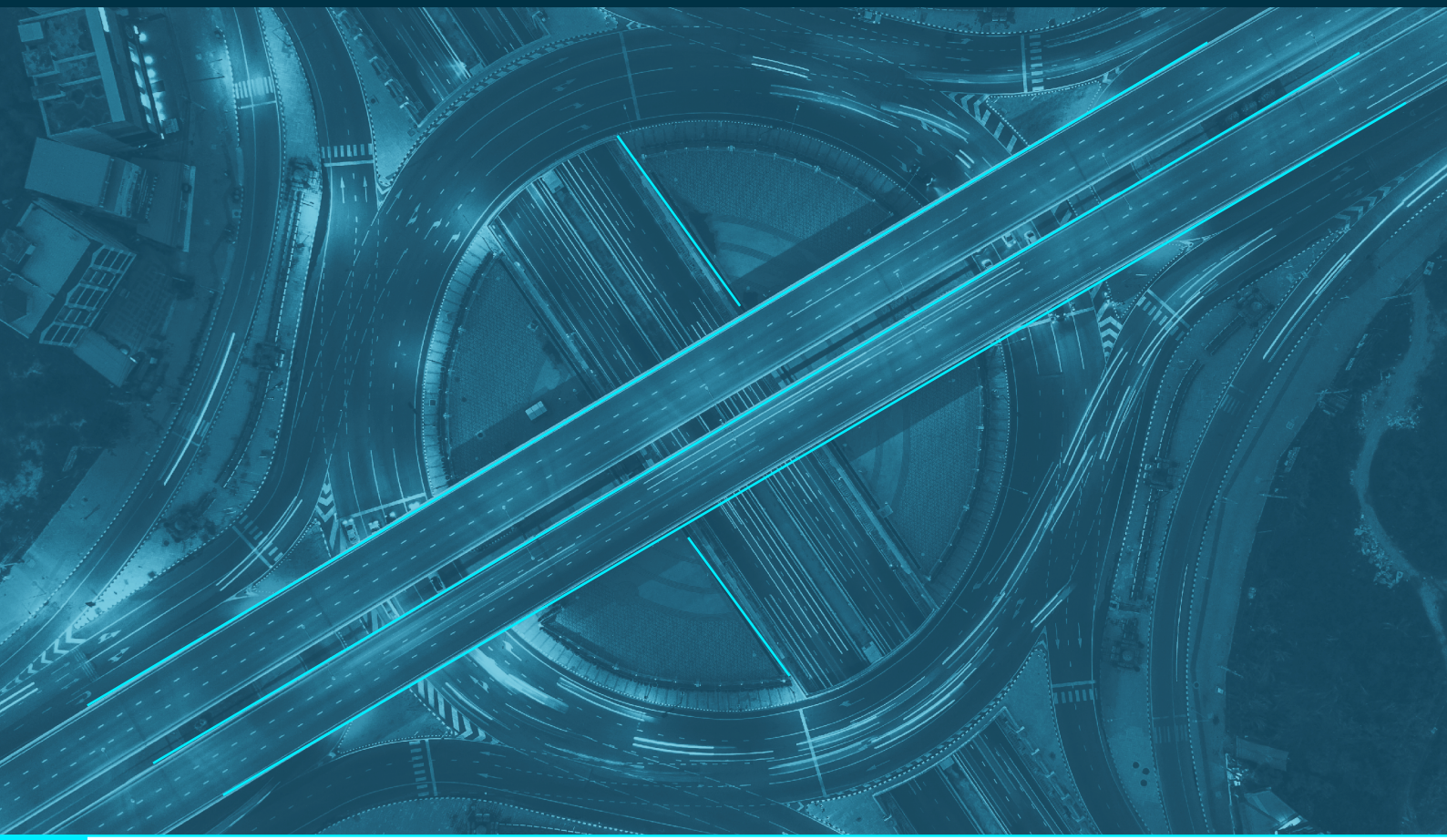
Telefónica | GLOBAL SOLUTIONS

Signalling - LTE Diameter Exchange

The solution to support international roaming for 4G networks with mobile operators worldwide

LTE Diameter Exchange offers the routing and signalling capabilities necessary to enable 4G roaming for your end-users. Our robust solution is the gateway to a new way of experiencing roaming, data usage and additional services. Built over our IPX network, we provide redundancy, geographical diversity, reliability and scalability to safeguard your business and customers.



Key Benefits

- **Short time to market:** One interconnection and one contract to access multiple international destinations, without the worry of interoperability issues.
- **Global capillarity/coverage:** Points of presence all around the world which guarantee the best connectivity.
- **Cost effective:** Reduced operating costs and minimal upfront investment required.
- **Simplicity:** Centralized Diameter Routing architecture.
- **Seamless and ubiquitous:** Complete interoperability amongst networks, regardless of technology or location.
- **Flexibility/scalability:** Service adapted to technological evolution to meet current and future needs.
- **Security:** Deployed on top of our IPX network for additional peace of mind.
- **QoS improvement for users:** Customer roaming experience is the same as at home.

Service Features

- **Compliance with GSMA recommendations:** support for S6a, S6d and S9 interface defined by 3GPP.
- **Extensive Value Added Service Portfolio:** integrate seamlessly with Welcome SMS, Steering of Roaming or Connectivity Hub.
- **Geographic Redundancy:** with 4 DRAs located in America and Europe.
- **Enhanced Security:** with signalling screening and topology hiding functionalities.
- **SCTP Multi-Homing:** enables multiple IP addresses to connect to a peer device, ensuring reliable end-to-end multi-path transmission.
- **Diameter Relay Agent:** simplifies interworking between different network elements.
- **Diameter Proxy Agent:** enables the routing of Diameter messages based on the different parameters.
- **Hosted Diameter Edge Agent:** optional functionality to help operators expedite the launch of LTE roaming services and reduce investment as a result of the provision of a dedicated customer virtual DEA.

The management of our customers' signalling enables us to provide **value added** services and cover additional **customer needs.**

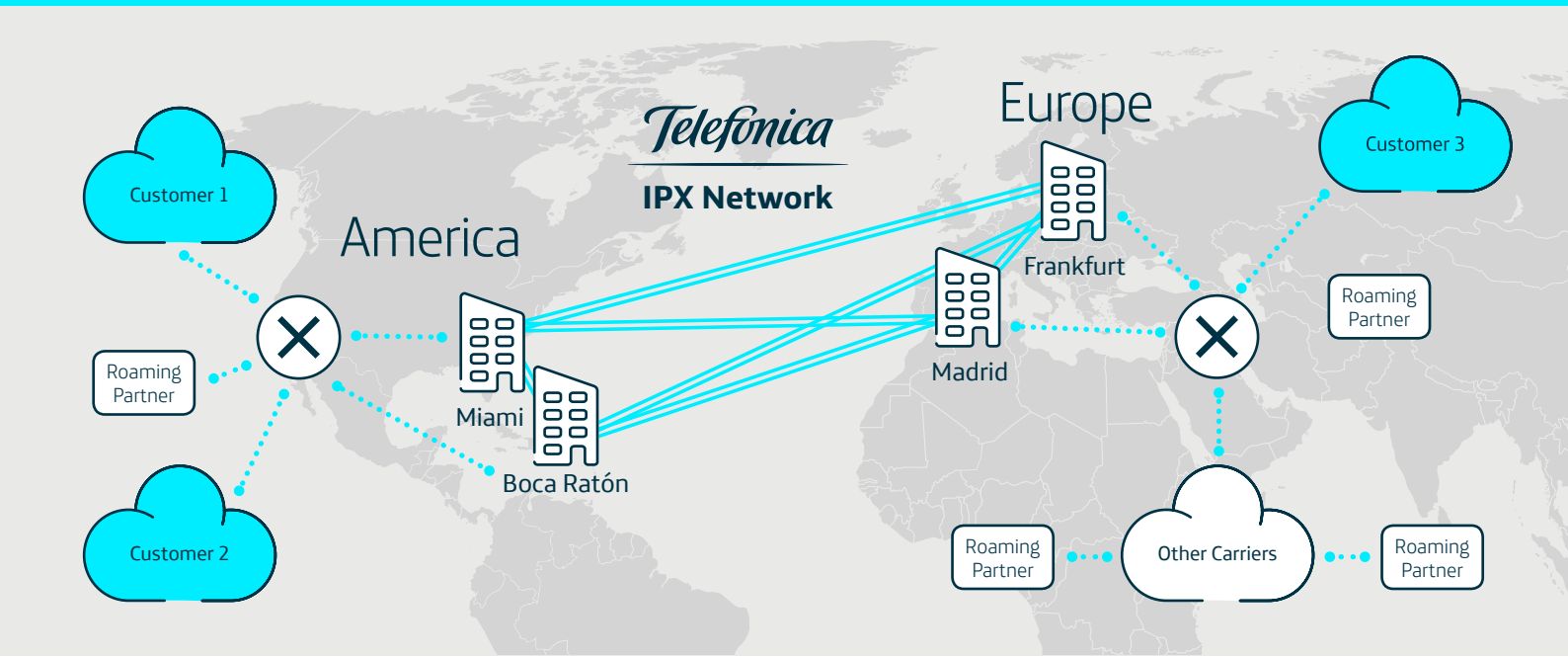
Welcome SMS | Business Analytics

Steering of Roaming

Marketing Campaigns Manager | Connectivity Hub

Coverage

The LTE Diameter Exchange service offers worldwide coverage to over 500 destinations directly connected to our network or reachable through our agreements with our peer Tier-1 carriers.

Service architecture

Our LTE Diameter Exchange Service consists of a geo-redundant signalling network with four DRAs: