



LTE Roaming Exchange

Aicent LTE Roaming Exchange is a global, private, IP transport network providing end-to-end quality of service and application level support.

As the mobile evolution continues in full force with the rapid adoption of smart devices, so does the demand for anywhere and anytime access to services, content, and applications. In order to sustain this growing demand, mobile technology must also evolve in order to keep up with expectations for mobile broadband. For many operators, the solution is migrating to an LTE network.

Aicent LTE Roaming Exchange Overview

As the demand for mobile broadband services continues to rise, LTE and its ability to cost-effectively provide fast, multimedia mobile data services is quickly becoming the network technology of choice for 4G deployments around the world.

Mobile operators, as a result, will need to deal with the specific challenges that LTE raises, including interoperability with legacy and other 4G systems, ensuring end-to-end network quality of service (QoS), and high-quality service delivery and interaction with IMS for the delivery of multimedia services and voice.

With this in mind, Aicent developed their LTE Roaming Exchange service, a managed IP network ecosystem designed to deliver voice, data, and video services all with assured QoS and guaranteed security.

How It Works

On top of a secure, QoS enabled IPX network infrastructure, Aicent deploys a wide range of service functions and features supporting all IP-based service communications between two mobile operators and their corresponding enterprise customers. These IPX supporting functions are the essential building blocks for Aicent's LTE Roaming Exchange service.

By converging their voice and data services into IP packets and exchanging them over the IPX network, mobile operators can rapidly deploy services, offer reliable service support, and control of each service while maintaining visibility at the individual subscriber level.

Benefits to Mobile Operators

Aicent's IPX service gives operators implementing LTE Roaming an easy path to reduce their capex and opex for international voice and data services while offering access to new revenue generating services.

By implementing Aicent's LTE Roaming Exchange service, operators will realize:

Better quality of service: Along with a comprehensive, next generation IPX network, mobile operators can rapidly roll-out innovative and differentiated 4G services including the delivery of IP-based voice, data, and rich multimedia communication services on any device.

Aicent LTE Roaming Exchange Service

Cost reductions: By integrating all IP services onto a single network, operators can lower their total cost of operations while improving ARPU opportunities.

Improved network management: Available through a robust set of web-based tools with comprehensive traffic reporting and troubleshooting capabilities.

Aicent IPX Transport Service for LTE Roaming

Aicent's LTE Roaming Exchange service is built upon Aicent's IPX Transport service supporting mobile data transit demand with multiple Class of Service (CoS) and end-to-end QoS commitment offerings. Features include:

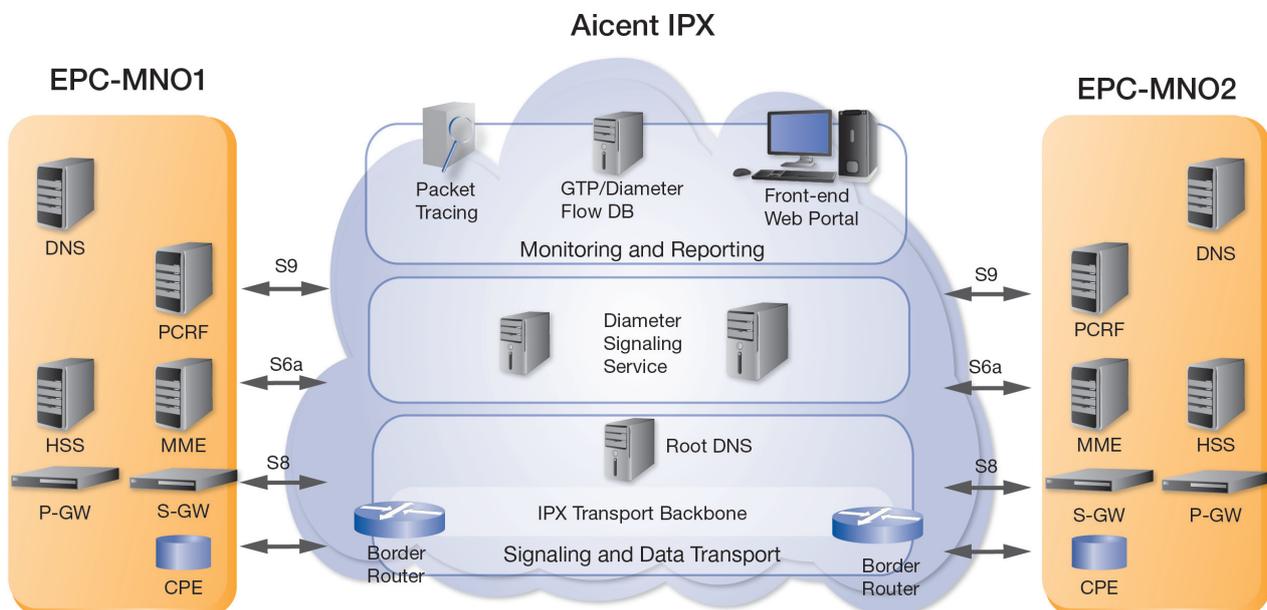
- Single IP connection with QoS for multiple data, signaling and voice transport
- Immediate worldwide roaming coverage
- Multiple Class of Service support to meet different application demands including LTE signaling and bearer transit
- Guaranteed end-to-end QoS commitment backed by a SLA
- Real-time operator monitoring tools and traffic reports with 24x7 support

Aicent IPX Diameter Signaling Service for LTE Roaming

On top of the IPX Transport Service, Aicent deploys a state-of-art Diameter routing platform – a centralized platform based IPX service – for managing the LTE roaming and signaling, in addition to roaming control.

Aicent's Diameter Signaling Service supports both home routed and local break-out roaming scenarios providing the following main functions between two roaming partners:

- Guaranteed interoperability between two Diameter implementations from two networks
- Provides roaming policy monitoring and enforcement
- Supports versatile Diameter routing options by Diameter application, realm, command, host, IMSI ranges, roaming route
- Proactively monitors Diameter signaling, traffic and sends alerts on roaming problems
- Generates comprehensive roaming reports



Aicent IPX for LTE Roaming - IP connectivity and transport is provided between two LTE networks via Aicent IPX Transport

Serving more than three billion mobile users around the world, Aicent, Inc. is a leading provider of data network services and solutions for global mobile operators. Aicent operates one of the largest GPRS and 3G network exchanges supporting over two hundred customers including nine of the ten leading global mobile operators and operator groups. The company also operates integrated mobile messaging services, including one of the first and largest multimedia messaging exchanges, and offers other value-added services to help operators maximize revenue opportunities.

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