AppLogic NETWORKS

EdgeX

Bringing ActiveLogic intelligence to the network edge

USE CASES

- Aviation
- Maritime transport
- Cruise lines
- Offshore
- Remote enterprise
- Mining
- Government / Defense
- Satellite services

CAPABILITIES

- Optimize upstream / downstream bandwidth
- Local policy enforcement
- Application visibility and subscriber awareness
- ActiveLogic intelligence at the edge

BENEFITS

- Maximize satellite bandwidth
- Improved user experience
- Elevated observability
- Service customization
- Cost control

DEPLOYMENT

- Standalone: Ideal for compact edge deployments requiring local application-aware traffic management
- With ActiveLogic Core: Delivers end-to-end optimization by applying downstream policies in the core and upstream policies at the network edge for maximum bandwidth efficiency

EXECUTIVE SUMMARY

Built on the same field-proven ActiveLogic software deployed in hundreds of production networks, EdgeX delivers application-aware traffic management in a compact deployment profile optimized for resource-constrained environments. Supporting deployment profiles starting at just 2 vCPUs and 3 GB of RAM, EdgeX extends shaping, filtering, subscriber-aware policy control, and application intelligence to locations where traditional infrastructure is impractical or cost prohibitive.

EdgeX is an optimized ActiveLogic deployment profile – not a separate product. It uses the same software foundation, licensing model, and operational approach trusted across existing ActiveLogic deployments.

WHY EDGEX?

For many operators, the connectivity problem is no longer the only challenge. The next challenge is delivering better user experiences while controlling the cost of bandwidth in constrained edge environments.

As hybrid LEO/GEO satellite and remote-edge architectures become more common, operators must:

- Protect real-time applications such as Teams and Zoom from contention with software updates and background traffic
- Ensure business-critical traffic is prioritized appropriately against entertainment and lower-value usage
- Reduce unnecessary consumption of expensive premium bandwidth
- Differentiate connectivity offerings and create new revenue opportunities
- Extend application-aware control closer to users, devices, and edge locations

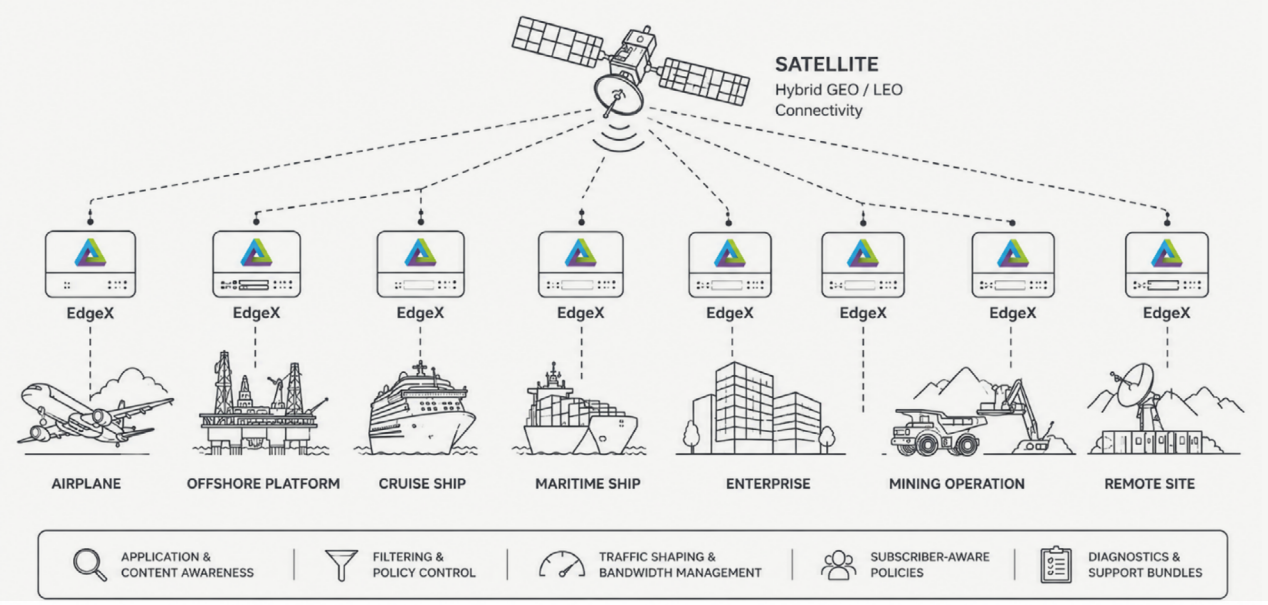
Traditional platforms are often too large or resource-intensive for these deployments. EdgeX addresses this challenge by extending ActiveLogic intelligence to compact environments where space, power, and compute resources are limited.

CUSTOMER OUTCOMES

With EdgeX, operators can:

- Improve user experience by prioritizing latency-sensitive and business-critical applications
- Control bandwidth cost by applying shaping, filtering, and policy enforcement closer to the edge
- Differentiate services through application-aware treatment and premium connectivity options
- Extend observability and control into locations where traditional ActiveLogic deployments are not practical

Figure 1



IDEAL DEPLOYMENT ENVIRONMENTS

EdgeX is particularly well suited for:

- Commercial aviation
- Maritime transport
- Cruise lines
- Offshore platforms
- Remote enterprise
- Mining
- Government / Defense
- Satellite service providers

In general, EdgeX is designed for environments where:

- Space is constrained
- Power is limited
- Compute resources are scarce

TYPICAL DEPLOYMENT MODELS

Standalone deployment

EdgeX can be deployed as a standalone solution where a compact ActiveLogic deployment is required for local application-aware traffic management.

Edge deployment with ActiveLogic in the core

EdgeX is often most powerful when combined with ActiveLogic in the core network.

In this model:

- ActiveLogic in the core helps optimize downstream traffic before it traverses expensive transport links
- EdgeX at the edge applies local policy enforcement, upstream optimization, application visibility, and subscriber-aware control
- Together, they help maximize bandwidth efficiency while improving overall user experience

HYBRID NETWORK SUPPORT

In hybrid satellite environments, EdgeX helps enforce application-aware treatment at the edge. EdgeX can classify traffic and rewrite DSCP values so adjacent routing, transport, or network devices can make path-selection decisions based on service intent.

This allows EdgeX to support broader traffic-steering workflows without positioning it as the device that makes the routing decision itself.

COMPACT DEPLOYMENT PROFILES, SCALE, AND DEPLOYMENT

ActiveLogic EdgeX introduces two compact deployment profiles:

EdgeX	Resources	Transaction Rate	Wireline Deployments	Wireless Deployments
Profile 1	2 vCPUs, 3 GB RAM, 10 GB Storage	3K cps	Up to 1 Gbps	Up to 600 Mbps
Profile 2	4 vCPUs, 6 GB RAM, 10 GB Storage	3K cps	Up to 2 Gbps	Up to 2 Gbps

Note:

- Performance testing conducted using virtio-based virtual environment using older Intel Xeon reference platforms.
- Performance numbers to be used as general sizing guidance rather than platform-specific performance commitments.
- Final sizing should be aligned to the target use case, traffic mix, and deployment models.

CORE EDGEX CAPABILITIES

- AppLogic classification for application and content awareness
- Subscriber-aware policy control through static provisioning, APIs, and integrations
- Traffic shaping and bandwidth management
- Filtering rules for policy enforcement and security
- Layer 3 traffic channels with static routing
- Auditing and configuration tracking with minimal storage requirements
- Diagnostics and support bundle generation

The 4 vCPU / 6 GB profile can support additional ActiveLogic functionality. Final sizing should be determined based on the target use case and deployment model.

BRING ACTIVELOGIC WHERE THE EDGE DEMANDS IT

By combining application awareness, subscriber-aware policy control, and a compact deployment profile, EdgeX helps operators improve user experience, control bandwidth costs, maximize the value of constrained network resources, and deliver differentiated services at the network edge.

ABOUT APPLOGIC NETWORKS

AppLogic Networks' cloud-based App QoE portfolio helps customers deliver high quality, optimized experiences to consumers and enterprises. Customers use our solutions to analyze, optimize, and monetize application experiences using contextual machine learning-based insights and real-time actions. Market-leading classification of more than 95% of traffic across mobile and fixed networks by user, application, device, and location creates uniquely rich, real-time data that significantly enhances interactions between users and applications and drives revenues. For more information visit **https://www.applogicnetworks**.com or follow AppLogic Networks on X **@AppLogic Networks**.

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