

Intelsat Epic^{NG} Satellites

The Next-generation, Global
High-performance Satellite Platform



Performance. Coverage. Control.

Intelsat's next-generation platform delivers high performance, increased control and all-region coverage – positioning our customers for operational and business success.

The Intelsat Epic^{NG} platform is an innovative approach to satellite and network architecture utilizing C-, Ku- and Ka-bands, wide beams, spot beams, and frequency reuse technology to deliver more throughput per unit of spectrum. Designed as a complementary overlay, Intelsat Epic^{NG} is fully integrated with Intelsat's existing satellite fleet and global IntelsatOne[®] terrestrial network.

Intelsat Epic^{NG} is based on an open architecture and is engineered for backwards compatibility, allowing communications, media and government organizations to realize high-throughput performance utilizing their existing hardware and network infrastructure. At the same time, increased control means these organizations can offer their end users customized, differentiated solutions by defining network topology, hardware and service characteristics.

Intelsat Epic^{NG} meets the demand for broadband connectivity around the globe, enabling delivery of a greater variety of solutions to more customers with improved economics.

Intelsat Epic^{NG} performance across a wide range of communications, media and government applications

Intelsat Epic^{NG} for Fixed and Wireless Broadband



For broadband, Intelsat Epic^{NG} enables higher data rate applications and smaller terminals, providing expanded market opportunities that can be served by satellite. Plus, with Intelsat Epic^{NG}, customers have flexibility in

their network solutions to utilize a combination of C-, Ku-, and Ka-bands. For cellular backhaul, Intelsat Epic^{NG} provides the high throughput required to support 3G/4G backhaul bandwidth requirements, allows dynamic bandwidth allocation for asymmetric multimedia requirements, and allows load sharing of links during network congestion. The efficient platform overcomes lower-revenue-per-site barriers in remote areas and enables satellite as a primary or backup solution for backbone links in populated areas.

Intelsat Epic^{NG} for Media



With the Intelsat Epic^{NG} platform, channels can be customized for a specific region and beam. Spot beams and frequency reuse provide greater throughput and drive lower cost per Mbps, changing the economic model for

delivering localized content – by country, region, language and even culture – and increasing ARPU. Intelsat Epic^{NG} provides economic transmission to cable head ends, as well as point-to-point routes with scalability and cost-effective contribution links for Occasional Use video applications.





Evolving Our Fleet With Epic Benefits

Intelsat Epic^{NG} wraps a multitude of benefits into a single, powerful platform:

- ▶ Higher performance and lower cost per bit
- ▶ Wide beams and spot beams in the same band
- ▶ Multi-band frequencies aligned to region- and application-specific requirements
- ▶ Open architecture:
 - Backwards compatibility in most cases; customer-defined network topology and use of existing network infrastructure
 - Forward compatible as ground technology advances
- ▶ High throughput, high efficiency, high availability enables smaller terminals, supporting mobility and aviation applications, and benefitting data-centric services like cellular backhaul

Intelsat Epic^{NG} for Mobility



Through the use of focused spot beams in key mobility routes, the Intelsat Epic^{NG} platform was designed to meet the throughput and performance needs of maritime and aviation applications. Current users of Intelsat's existing

mobility networks will benefit from the global wide coverage beams, complemented by Intelsat Epic^{NG}, high-throughput beams over high traffic routes without having to invest in new platform or terminal solutions.

Intelsat Epic^{NG} for Government

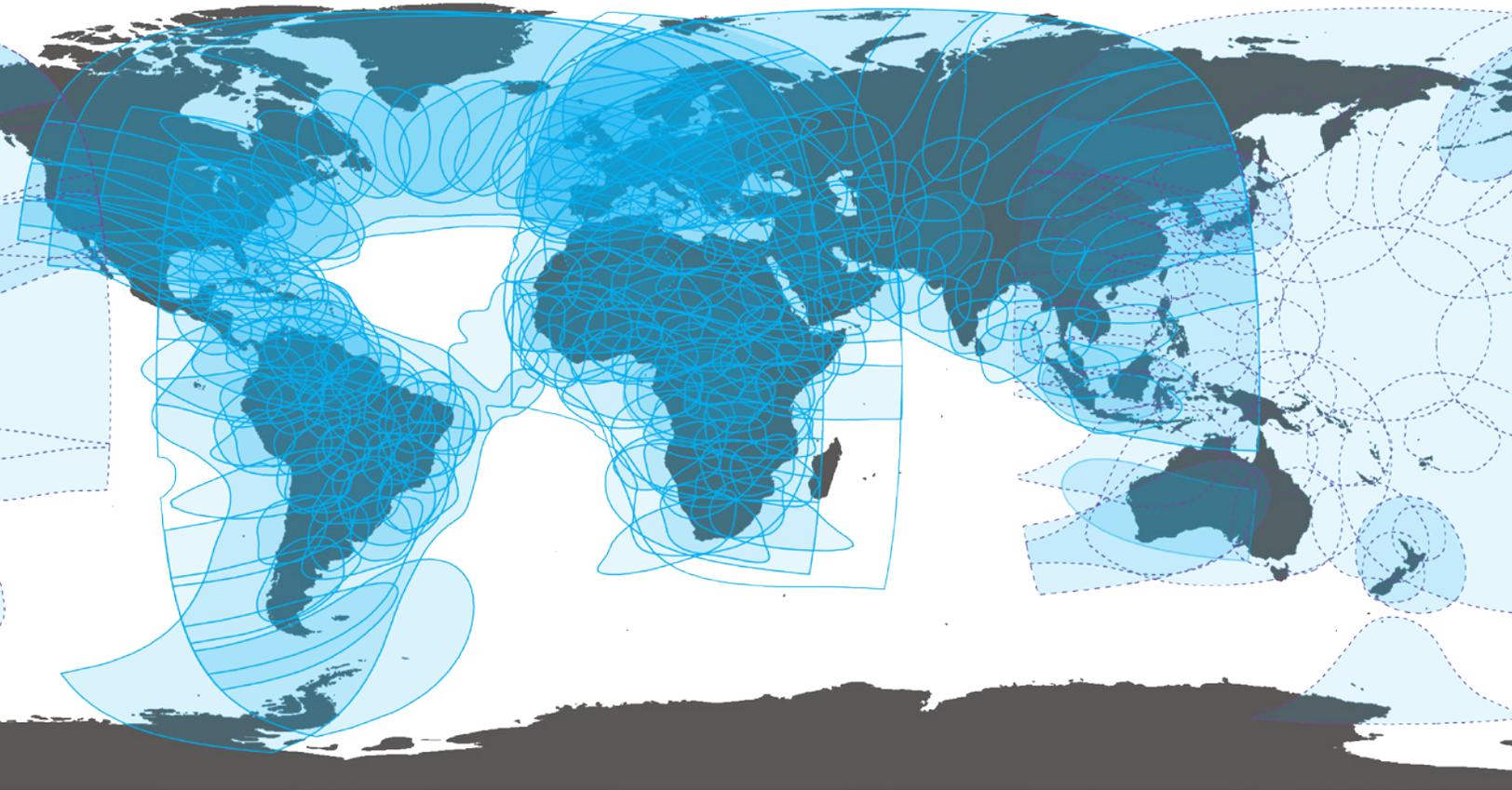


The Intelsat Epic^{NG} high-performance satellite platform provides government and military users with four to six times the bandwidth equivalent of conventional commercial satellites and two to three times that of Wideband

Global SATCOM satellites. By leveraging a mix of wide, steerable and high-performance beams for thin/thick route traffic, as well as existing terminal infrastructures, Intelsat Epic^{NG} offers outstanding performance, flexibility and security, providing the best value for government connectivity solutions.



Intelsat Epic^{NG} Coverage



Intelsat operates the world's first Globalized Network, delivering high-quality, cost-effective video and broadband services anywhere in the world. Intelsat's Globalized Network combines the world's largest satellite backbone with terrestrial infrastructure, managed services and an open, interoperable architecture to enable customers to drive revenue and reach through a new generation of network services.

Thousands of organizations serving billions of people worldwide rely on Intelsat to provide ubiquitous broadband connectivity, multi-format video broadcasting, secure satellite communications and seamless mobility services. The end result is an entirely new world, one that allows us to envision the impossible, connect without boundaries and transform the ways in which we live.



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