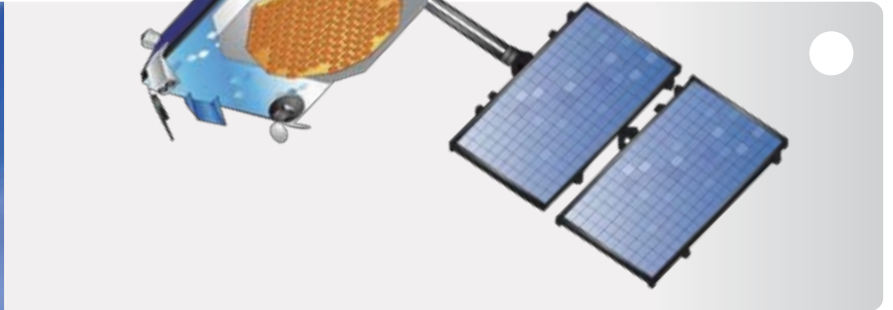


Iridium

# NEXT

Satellite Constellation



All systems **G** 

 **iridium**<sup>®</sup>  
Everywhere

# The bold future of satellite communications

## Iridium NEXT Set for Launch

We're about to redefine global satellite communications – again. Iridium NEXT is designed to incorporate the best elements of the current Iridium network, while delivering more bandwidth and higher data speeds to support powerful new devices and more global subscribers.

As always, Iridium is going boldly into the future. With an expected total cost of approximately \$2.9 billion, Iridium NEXT will be nothing less than the world's largest commercial space venture.

## Enhanced Features

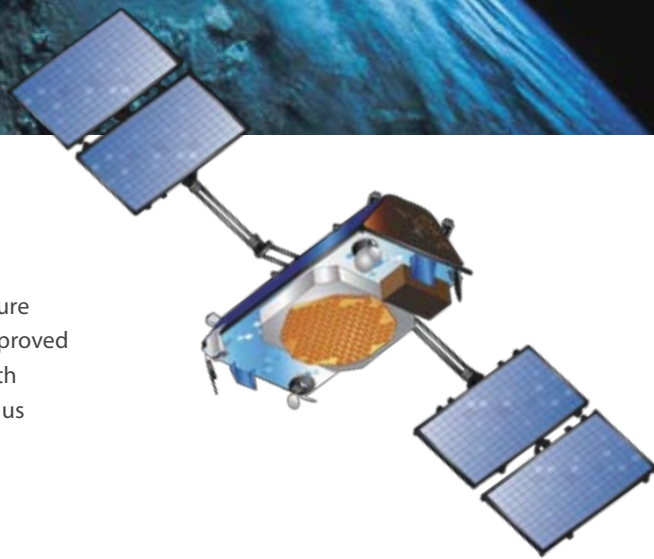
In addition to seamless backward compatibility, Iridium NEXT will feature substantially greater bandwidth, improved data speeds, more flexible bandwidth allocation and enhanced services, plus support powerful new devices and innovative applications.

## Secondary Payloads

Iridium NEXT is designed to accommodate secondary payloads. Real-time data feeds anywhere on Earth, plus secure tasking, command and control, and opportunities for payloads such as climate change surveillance, low-resolution Earth imaging, and space weather.

## Same Global Coverage

Only one network provides truly global coverage, and we will continue to do so. Iridium NEXT will be arrayed in the same successful cross-linked architecture as the current constellation, ensuring reliable 24/7 observation over 100% of the Earth's surface.



**Iridium NEXT is nothing less than the world's largest commercial space venture – set to launch in 2015.**

## Today's Network

- Cross-linked architecture
- 66 low-Earth orbit satellites
- Multiple in-orbit spares
- 2 million subscriber capacity
- L-band data speeds of up to 128 kbps
- Truly global coverage
- High voice quality
- High reliability and low-latency

Iridium NEXT is fully backwards compatible and will continue to deliver all of today's functionality and coverage.

## Iridium NEXT Plan

- Cross-linked architecture
- 66 low-Earth orbit satellites
- 6 in-orbit spares, 9 spares on the ground
- 3 million subscriber capacity
- L-band data speeds of up to 1.5 Mbps
- High-speed Ka-Band service of up to 8 Mbps
- Truly global coverage
- Enhanced voice quality
- High reliability and low-latency
- Flexible allocation of bandwidth
- Private network gateways
- Backward compatibility with current handsets and devices
- Software upgradable – capable of supporting future product enhancements
- Efficient integration of applications
- Advantages of IP Technology
- Designed to host secondary payloads

Iridium NEXT incorporates the best of our current satellite network – plus an array of truly remarkable enhancements and innovations.

## The Iridium Global System

Iridium NEXT is the evolution of the most reliable, truly global mobile voice and data satellite communications network anywhere. It has three components: the satellite constellation, the ground network, and subscriber products and solutions.

### Unparalleled Reach

The unique geometry of Iridium NEXT will provide coverage of regions not served by geostationary satellites, while the low-Earth orbit allows for portable phones or fixed installations with very small external antennas and superior voice connections.

### Unrivaled Availability

An independent study\* reported that more than 99% of calls placed through Iridium handsets were successfully connected, compared to 51.3% from a competitor's handset.

### Unmatched Reliability

Data is routed through Iridium's cross-linked network without touching the ground, ensuring secure, reliable connections for

our customers in virtually every industry, everywhere on the planet – even where terrestrial communications are unreliable or simply not possible.

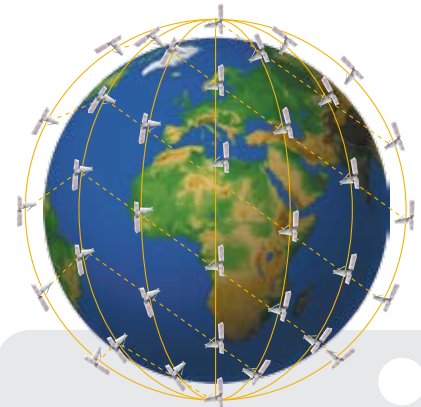
### Ground Support & Control

There are two facets to the Iridium ground network. System control supplies global operational support and control services for the satellite constellation, delivers satellite tracking data to the gateways, and controls termination of Iridium messaging services. At the same time, our commercial gateway connects Iridium satellites with terrestrial communications networks.

### Communications Versatility

Iridium NEXT will continue to support customized mobile communications in maritime, aviation, emergency services, national defence, oil and gas, forestry, mining, journalism and other highly mobile, reactive, or remote industries – advancing the way global enterprises do business.

\* Frost & Sullivan, 2008. Study commissioned by Iridium.



## Truly Global Coverage

The only company to provide pole-to-pole coverage including extreme Polar regions.

- Unique cross-linked architecture
- Total of 81 satellites
  - 66 low-Earth orbit
  - 6 orbiting spares
  - 9 spares on the ground as part of a hybrid insurance strategy

**Only one communications company connects the entire globe**

Iridium is the world's only truly global mobile communications company, with coverage of the entire Earth, including oceans, airways and Polar Regions. Iridium voice and data products provide communications solutions that allow global companies, government agencies and individuals to stay connected, everywhere. The unique Iridium constellation of 66 Low Earth Orbiting (LEO) cross-linked satellites routes communications traffic through space and around the world, creating highly efficient and reliable connections.

[www.iridium.com](http://www.iridium.com)



RELIABLE • CRITICAL • LIFELINES