



# IN-FLIGHT CONNECTIVITY SOLUTIONS

SATELLITE NETWORK SERVICES





# IN-FLIGHT CONNECTIVITY SOLUTIONS

## SELECTING THE RIGHT NETWORK SERVICE FOR YOUR AIRCRAFT

SD offers a wide variety of connectivity options for your aircraft. The best solution will be based on your aircraft type, mission, routes, passenger demand, and installation requirements.



### SATELLITE NETWORKS

**Intelsat FlexExec:** Offered exclusively by SD, FlexExec is a global, multi-layered Ku-band High Throughput Satellite (HTS) service dedicated to business aviation. FlexExec delivers a best-in-class experience on every flight, with no data caps, no speed throttling, and no overages, so passengers can stream, use cloud-based apps, or enjoy in any other data-heavy experience at their leisure. Flexible service plans provide cost-efficient, optimized connectivity.

**Inmarsat Jet ConneX (JX):** Jet ConneX is the fastest in-flight internet connection available in the world today, allowing you to stream videos, make phone calls, and watch live television – just like you would in your home or office. JX provides consistent, continuous coverage around the world via a single satellite operator and is the only connectivity solution to guarantee minimum data rates per subscription level.

**Inmarsat SwiftBroadband (SBB):** Inmarsat's SwiftBroadband provides global voice and high-speed data, simultaneously through a single installation on the aircraft. SBB offers 'always-on' packet switched data and voice over IP (VoIP) service. SwiftBroadband enables all key cockpit and cabin applications, including: telephony, text messaging, email, internet and intranet access, as well as flight plan, weather and chart updates.

**Iridium:** Iridium's fully meshed orbiting satellite network provides an interconnected "canopy over the earth" including polar regions where no other communications are available. Iridium services enable global voice, fax and flight deck datalink communications to business and military aviation. SD has also been named a Value Added Manufacturer (VAM) and Service Provider for Iridium Certus, coming online in late 2019.

**Viasat:** Viasat high-speed internet delivers a high-quality internet experience over land and water via the Viasat global network. Customer can do all of their normal office tasks plus streaming media and teleconferencing. Viasat services deliver predictable monthly fees, a high-speed connection, generous data allowances, and are available during all phases of flight.

### AIR-TO-GROUND (ATG)

**SmartSky Networks:** SmartSky Networks 4G LTE provides an airborne, domestic Wi-Fi connection that delivers streaming video and typical office tasks – in real-time, at speeds rivaling that of terrestrial broadband connections. SmartSky leverages the proven performance of a 4G beamforming-based ground based wireless platform with the most substantial radio spectrum ever deployed in the industry – all built upon a low-latency foundation. Available in 2019.



# THE SD DIFFERENCE

## UNBEATABLE VALUE AND SUPPORT

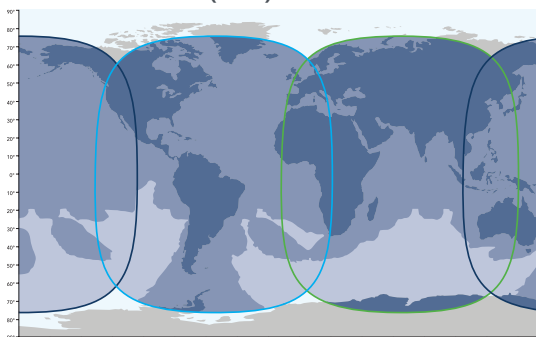
Combine connectivity with SD services to make the best use of the network connection, allowing you to manage and maximize bandwidth, improve voice call quality, prioritize passenger data, protect your information and more.

SD EXCLUSIVE SERVICE*	BENEFITS TO SATELLITE NETWORK SERVICES
Advanced Connectivity	Predictive forecasting of connectivity availability based on flight plans, as well as recording connectivity quality and status during a flight
AeroXR®	SD software to accelerate and maximize your bandwidth
AeroV®	VoIP calling with improved quality using your own device
FlightDeck Freedom	Secure, robust datalink (ACARS) communications software that integrates flight deck and cabin communications and connects with third party flight planners
Cyber Threat Monitoring	Protect airborne communication and data with a wide spectrum of solutions, including threat monitoring and the SD Private Network
SD GeoServices	Boundary notifications and geographical region alerts uplinked to the flight deck via Flight Deck Freedom
SD Pro®	A single cloud-based platform, accessible via desktop or mobile helping flight teams view current connectivity/usage, predict connectivity outages, control cost, manage maintenance and monitor aircraft cycles
SD Flight Tracker	Accurate real-time position data in all phases of flight
Satcom Direct Router (SDR®)	The SD router of choice keeping the entire aircraft connected
Unity <sup>SM</sup>	Connect to various SATCOM systems for troubleshooting, diagnostics and configuration information

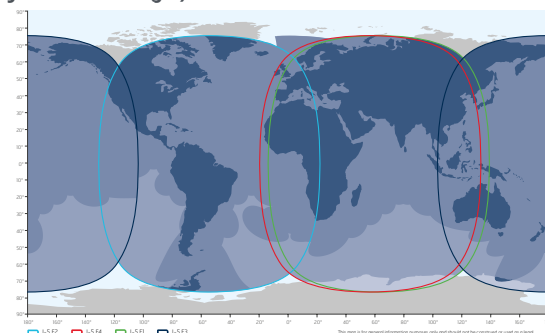
\* Not all SD Exclusive Services may apply; ask your SD sales team for details.

### COVERAGE AREAS

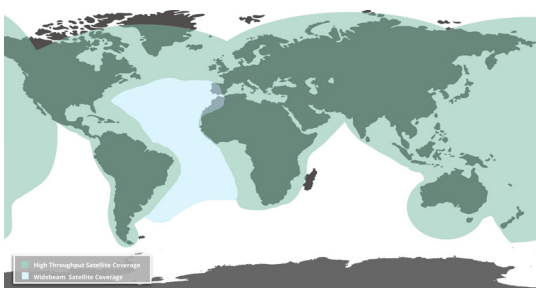
#### SwiftBroadband (SBB)



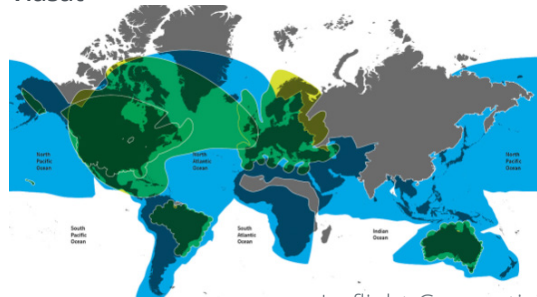
#### Jet ConneX (JX)



#### FlexExec



#### Viasat



In-flight Connectivity  
©2019 Satcom Direct, Inc. All rights reserved. 08/2019



# IN-FLIGHT CONNECTIVITY

## MAKING THE RIGHT CHOICE

	Intelsat FlexExec	Iridium Network	Inmarsat SwiftBroadband	Viasat Ku	Inmarsat Jet ConneX
Technology	Satellite Ku-band HTS	Satellite L-band	Satellite L-band	Satellite Ku-band	Satellite Ka-band
Antenna	Tail mount	Fuselage mount	Tail mount	Tail mount	Tail mount
Coverage	Worldwide	Global (including polar areas)	Worldwide	Worldwide	Worldwide
Latency	Medium	High	High	Medium	Medium
Maximum Speed*	10 Mbps	Voice	432 Kbps per channel	6 Mbps	20 Mbps
Email/Text	✓	✓	✓	✓	✓
Voice/VoIP	✓	✓	✓	✓	✓
VPN Access	✓		✓	✓	✓
Flight Deck and Crew Apps	✓	✓	✓	✓	✓
Audio/Video Conferencing	✓	✓ Audio	✓	✓	✓
Large File Transfers	✓		✓ Bonded streaming	✓	✓
Web Browsing and Social Media	✓		✓ Bonded streaming	✓	✓
Streaming Media (YouTube, TV, Netflix, etc.)	✓		✓ Bonded streaming	✓	✓

\* See Committed Information Rate (CIR) and Maximum Information Rate (MIR)

## FOR MORE INFORMATION

To learn more or to help you determine which in-flight connectivity solution is right for your aircraft, contact our sales team at +1 321.777.3000, email us at [sales@satcomdirect.com](mailto:sales@satcomdirect.com) or visit our website at [satcomdirect.com](http://satcomdirect.com).



In-flight Connectivity

©2019 Satcom Direct, Inc. All rights reserved. 08/2019