GoDirect™ for Fixed and Rotary Wing, Government and Defense

Your Direct Route to Services You Can Rely On

GoDirect™. Connectivity equipment, apps, services and solutions ensuring a safe, secure, successful and connected experience.

Connectivity is all around us, from connected homes, to aircraft to our lives. We have smart devices that put vast stores of information and powerful apps at our fingertips when enabled by connectivity. We empower leaders, mission specialists and passengers to stay situationally connected and to succeed more effectively through connected decision-making.

This is no less important for operators of transport aircraft, head-of-state command posts, sense-surveillance-protect platforms and special operations aircraft in the Government and Defense (fixed-and rotary-wing) and Commercial Helicopter markets.

Global, high-speed and secure connectivity is fundamental to mission success – from transporting critical assets to enhancing law- and-sovereignty enforcement to saving lives. It provides the right information anytime, anywhere.
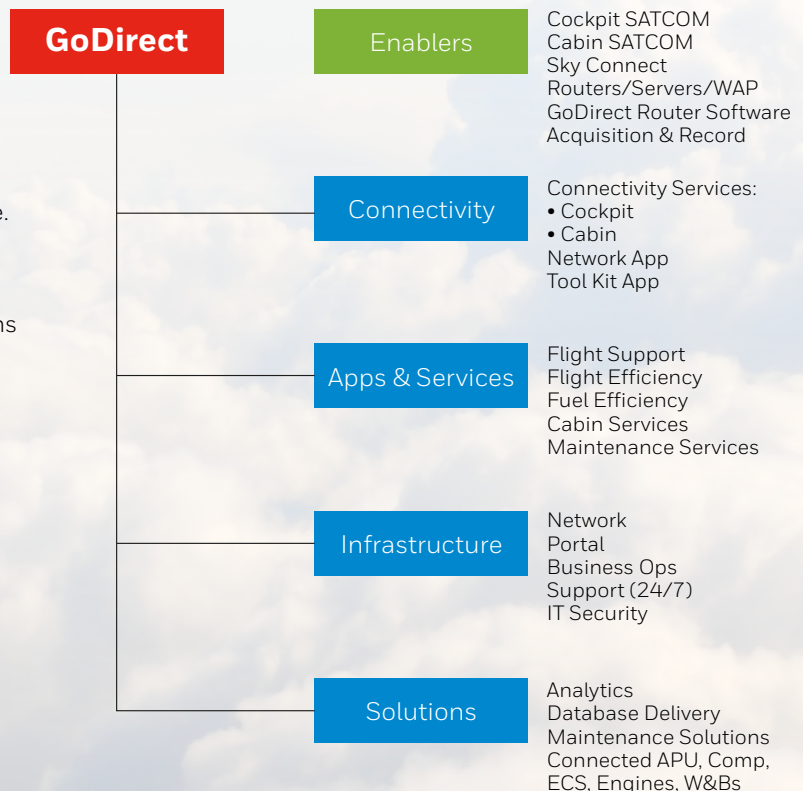
Additional benefits include:

• Consistent data, voice and video communications

• Wi-Fi capabilities like those available at home or in the office

• Enhanced productivity through on-the-move email, internet and streaming

• Improved operations in terms of flight planning, efficiency and safety

• Advanced predictive maintenance and logistics

• Reduced operating costs

Staying connected during all operational phases is key to achieving your objectives while realizing value-added benefits.

GoDirect is the one-stop shop for the necessary equipment, apps, services and solutions.

All backed by a complete set of communication channel partners as well as a secure ground network, customer portal, business operations, and end-to-end field, network and technical support.

Honeywell GoDirect service enables total solution and onboard network matching your mission need.

GoDirect		
	Enablers	Cockpit SATCOM Cabin SATCOM Sky Connect Routers/Servers/WAP GoDirect Router Software Acquisition & Record
	Connectivity	Connectivity Services: • Cockpit • Cabin Network App Tool Kit App
	Apps & Services	Flight Support Flight Efficiency Fuel Efficiency Cabin Services Maintenance Services
	Infrastructure	Network Portal Business Ops Support (24/7) IT Security
	Solutions	Analytics Database Delivery Maintenance Solutions Connected APU, Comp, ECS, Engines, W&Bs

Connectivity enablers from a proven equipment portfolio.

Connectivity Equipment
The Connection Enablers

- SATCOM systems – i.e., terminals, antennas, and related units – for L-band operation with Aspire 200™, Aspire 400™ , HSD 400/440 and MCS-7000, as well as Ka-band operation with our state-of-the-art JetWave™

- Sky Connect Tracking System

- CNX cabin routers with GoDirect Router Software, the Honeywell Next Generation GoDirect Router and our wireless access points

Honeywell has equipped fixed and rotary wing aircraft with connectivity equipment solutions for decades.

And it continues to deploy new enablers and next generation systems delivering new frequency ranges, increased speed-and-throughput and greater routing efficiency.

GoDirect Connectivity Services
The Connection "Airtime"

- Cockpit ACARS, Safety Services, database, Datalink, messaging, video and voice via VHF as well as L-band Classic and Swift Broadband (SBB) SATCOM

- SkyConnect voice, flight tracking and fleet management

- Cabin data, e-mail, internet, messaging, streaming, video, voice including Voice-over-IP (VoIP), and Virtual Private Network (VPN) via cellular as well as L-band Classic, L-band SBB and Ka-band Global Xpress (GX)

All supported by key partnerships with cellular, radio, satellite and ground network providers.

See final two pages for a list of the comprehensive Honeywell Connectivity Services offerings.

L-band Iridium or Isat I-3   L-band Isat I-4   Ka-band Isat I-5

iridium

inmarsat

GoDirect Router & Software

HF/ VHF

4G LTE

NOC (PAS)   NOC (PHX)

POP NY

POP AMD   POP SYD

AMD	Amsterdam	PHX	Phoenix
HF	High Frequency	POP	Point-of-Presence
NOC	Network Op Center	SYD	Sydney
NY	New York	VHF	Very High Frequency
PAS	Paris		
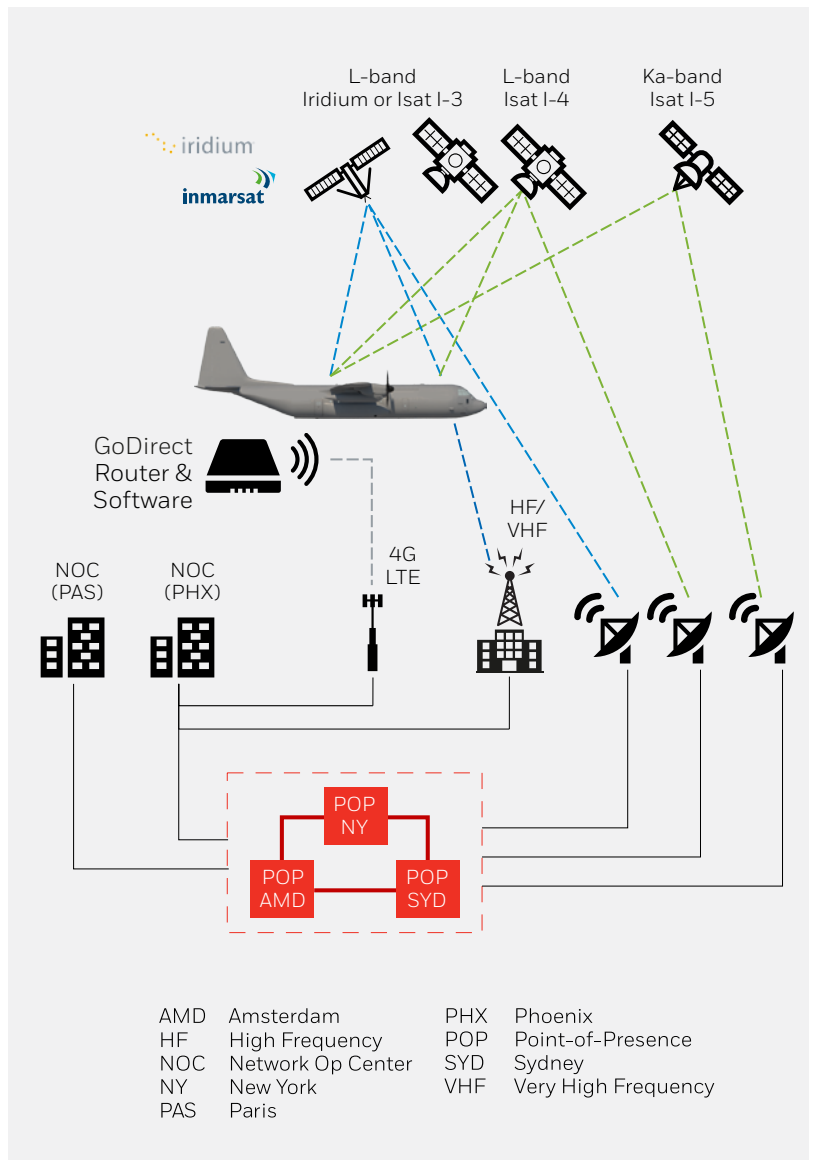
GoDirect connectivity controls and provides real-time info and the power-to-manage network connections.

GoDirect Connectivity Controls
The Network Essentials

- The Network app makes it fast and easy to configure the onboard Wi-Fi, check its status and find ways to restore connectivity

- The Toolkit app enables technicians to easily access and e-mail troubleshooting data

- GoDirect Access provides a seamless way to activate connectivity, manage VPNs and view your bill

- GoDirect Routing allows you to configure and optimize the SATCOM traffic and performance

- GoDirect Filtering monitors and guards against wasteful data consumption and is a sophisticated manager-and-sustainer of satellite and ground links during transitions.
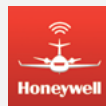
Network App – Inform and Control
Status end-to-end communication path and resolve issues
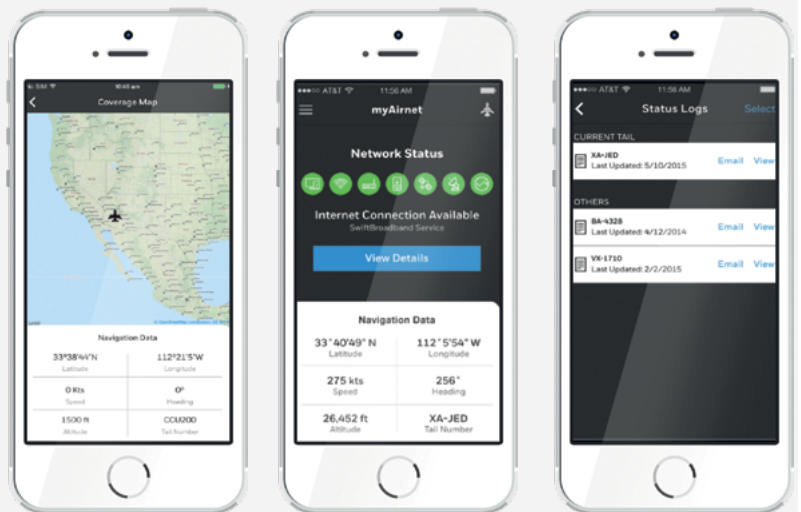
Tookit App – Install, Maintain and Troubleshoot
Services most Honeywell SATCOM and router products
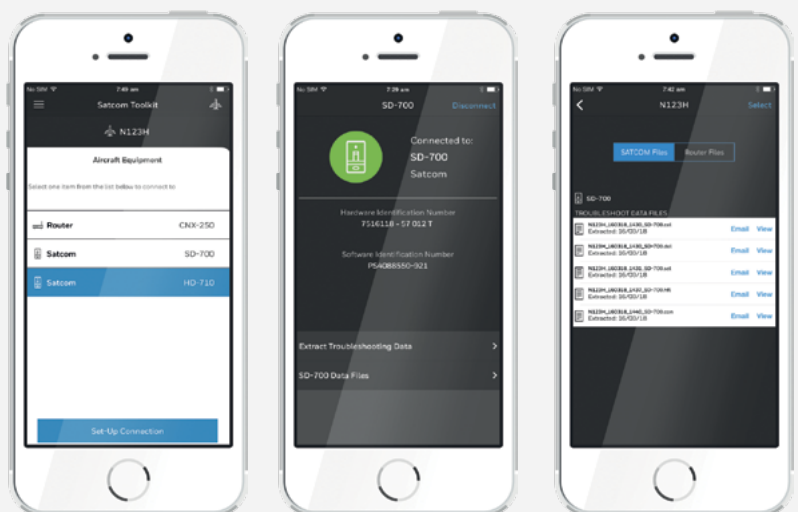
GoDirect Apps and Services

- Airtime activation

- Analytics

- Flight support solutions spanning Operations, Flight and Fuel Efficiency, and Weather

- Solutions such as Global Number, Media and Voice (VoIP)

- Maintenance solutions leveraging Condition-Based Monitoring, Health Usage and Monitoring, and Predictive Trend Monitoring and Diagnostics

- Database delivery

- Connected avionics and mechanicals such as Auxiliary Power Units, Components, Environmental Control Systems, Engines, Flight Management Systems, and Wheels and Brakes

FLIGHT PREVIEW

Our innovative Flight Preview app gives pilots an exact picture of the runway environment on their iPad, long before they begin their approach. The app uses regulatory authority data to render a flight path including waypoint sequencing and vertical and lateral profiling in three dimensions, so pilots know exactly what to expect.
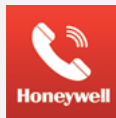
GODIRECT VOICE

Honeywell's GoDirect Voice is an easy-to-use app that enables voice calls for passengers who need to stay connected while in-flight.

FUEL EFFICIENCY

The GoDirect Fuel Efficiency app tracks aircraft operation and resulting fuel consumption through all phases of flight and provides guidance on how the flights can be more fuel-efficient. The app also lets pilots manage their company's fuel accounts and purchasing agreements – all by touching just an icon or two.

WEATHER INFORMATION SERVICE

The GoDirect Weather Information Service app uses an easy-to-read map to provide flight crews with the most accurate weather information available in flight so they can avoid severe weather, enhance flight efficiency and improve safety and passenger comfort and complete the mission.
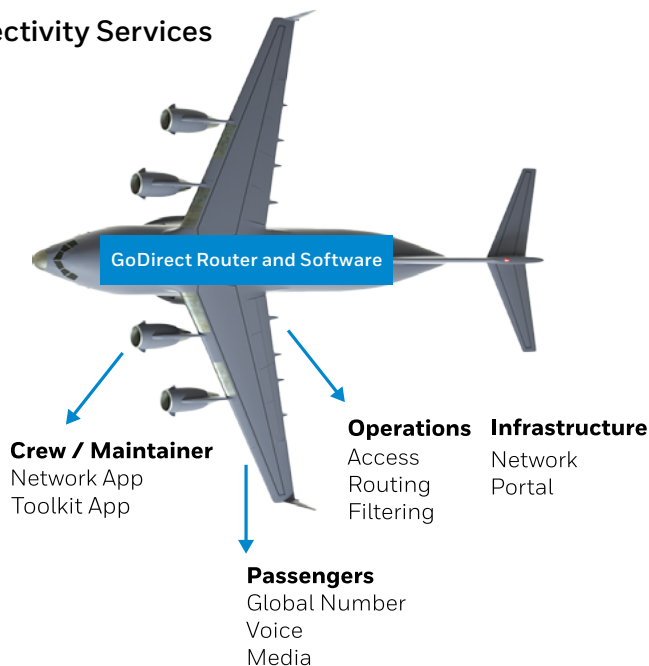
SATCOM TOOLKIT

Honeywell's GoDirect Satcom Toolkit app makes it much easier for maintenance technicians to troubleshoot and service the aircraft's Honeywell satellite communications and router hardware as well as the end-to-end connectivity network.

SATCOM NETWORK

Honeywell's GoDirect Satcom Network app allows flight crew and/or passengers to diagnose and troubleshoot in flight Wi-Fi connectivity.

Connectivity Services

GoDirect Router and Software

Crew / Maintainer
Network App
Toolkit App

Operations
Access
Routing
Filtering

Infrastructure
Network
Portal

Passengers
Global Number
Voice
Media

- *Enabled by GoDirect Connectivity Services*

- *Built on proven GoDirect Router Software*

- *Include key GoDirect support apps*
Network	*Inform and Control*
Tool Kit	*Install, Maintain and Troubleshoot*

- *Span critical GoDirect Services (Cabin)*
Access	*Activation, VPN, Billing*
Routing	*Acceleration, Bonding, Mobility*
Filtering	*Guard, Monitor*
Global Number	*One Number Dial*
Voice	*Voice Over IP (VoIP)*
Media	*Streaming, IPTV*

- *Backed by GoDirect Network and Portal*

Successful operations begin with GoDirect.

GoDirect Network
The Secure Infrastructure

GoDirect Network, a state-of-the-art, secure infrastructure:

- Spanning customer business operations, portals and IT purposely located next to the support engineering

- Ensuring highly-reliable performance of the GoDirect Connectivity, Flight, Cabin and Maintenance apps, services and solutions

- Providing user-friendly customer engagement

- Protecting your data, including routing traffic to your region regardless of aircraft location

GoDirect Portal
The Direct Access

Via a single login, you can view your subscriptions as well as new offerings that further optimize the experience. Includes inform-and-control tools for managing data traffic assurance, provisioning, and shaping.

All backed by a 24/7 GoDirect Customer Support directly accessible by phone or e-mail and staffed by aviation professionals, dispatchers, pilots, and field + network + technical experts.

This combination of GoDirect Network, Portal and Support is already providing Dispatch, Flight Plan, Decision Support, Schedule, Flight Follow, Fuel Pricing, Global Weather, International Trip Support and Connectivity for 1,800+ business aviation aircraft operating worldwide.

GoDirect – the one-stop shop delivering your fixed- and rotary-wing Connected Aircraft needs for mission success

Years of Datalink and SATCOM experience surpassing all other providers combined.

- Ground Network Engineers
- Connectivity Engineers
- DataLink Engineers
- Technical Operations
- Specialists

Support Information
GoDirect Connectivity EMEAI:

Phone: + 45 46154546
Fax: + 45 46154536
Service 24/7/365 days a year
GoDirect Activation service:

AeroActivation@Honeywell.com
GoDirect Technical support service:

AeroCustomerSupport@Honeywell.com
GoDirect Cockpit service:

Toll Free: (888) 634-3300
International:
+1-602-365-7020
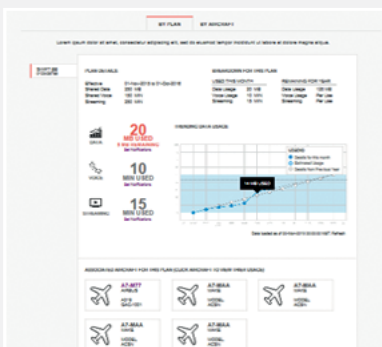Email: flightservices@Honeywell.com

GoDirect Portal
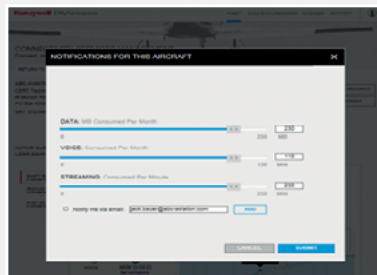
Notifications (operator-set alerts)
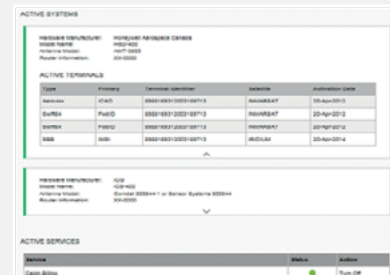
Control of Service

Fleet Consumption (including aircraft)

Aircraft Consumption

Fleet Consumption (including aircraft)

GoDirect Connectivity Services

Constellation: **Inmarsat** Connectivity: **Ka-Band Global Xpress (GX)**					
SERVICE AIRTIME PLAN	MIR DOWN + UP or FWD + RTN (MBPS)	CIR DOWN + UP or FWD + RTN (MBPS)	INCLUDED DATA (IF APPLICABLE) GIGABYTES	PERIOD	NOTE(S)
Service Plan. Select one of below plans					(1), (2), (3), (4)
i.e., GX Ranger	6.50	Best Effort	30	per month	
or GX Puma	5.30	1.90	30	per month	
or GX Mercury	6.50	1.25	50	per month	
or GX Harrier	7.00	2.50	35	per month	
or GX Tornado	8.90	3.20	40	per month	
or GX Gemini	12.00	2.00	80	per month	
or GX Vulcan	10.70	3.90	45	per month	
or GX Concorde	16.80	7.00	95	per month	
or GX Apollo	15.00	3.75	Unlimited	per month	

Notes: (1): MIR or Maximum Information Rate (2): CIR or Committed Information Rate (3): Down or "Fwd" (i.e., "Forward")is the movement of data traffic from the satellite providers' ground network / stations to in-orbit satellites and then from there down to the aircraft's Satcom terminal (4): Up or "Rtn" (i.e., "Return") is the movement of data traffic from the aircraft's Satcom terminal (up) to in-orbit satellites and then from there to the satellite providers' ground network/stations

Constellation: **Inmarsat** Connectivity: **L-Band Swift Broadband (SBB)**				
SERVICE AIRTIME PLAN	(SUB-)FEATURE	INCLUDED DATA (IF APPLICABLE) MEGABYTES	PERIOD	NOTE(S)
Service Plan - Background IP Select one of below plans	Class 6 & 7 SBB Packet Switch Data			(1)
i.e., Pay-Go	SBB - 0 (MB)	Not Applicable		(2)
or one of the Essential Plans	SBB - 500, 1000, or 2000 (MB)	0.5K, 1K, or 2K	annually	(3), K = 1000
or one of the Pro Plans	SBB - 5000, 8000, or 10000 (MB)	5K, 8K, or 10K	annually	(3), K = 1000
or one of the Team Plans	SBB - 15000 or 20000 (MB)	15K or 20K	annually	(3), K = 1000
or one of the Mission Plans	SBB - 30000 or 50000 (MB)	30K or 50K	annually	(3), K = 1000
or one of the Enterprise Plans	SBB - 70000 or 100000 (MB)	70K or 100K	annually	(3), K = 1000
plus optional				
Service Plan - Stream IP Select one of below "on-demand" SBB streams	Class 6 & 7 SBB Packet Switch Stream	Not Applicable		(4)
i.e. one of the Essential Streams	SBB Stream 8, 16, or 32 (kbps)			(5), per channel
or one of the Pro Streams	SBB Stream 40, 48, or 56 (kbps)			(5), per channel
or one of the Team Streams	SBB Stream 64, 72, or 80 (kbps)			(5), per channel
or one of the Mission Streams	SBB Stream 88, 96, or 104 (kbps)			(5), per channel
or one of the Enterprise Streams	SBB Stream 112, 120, or 128 (kbps)			(5), per channel
or Xstream	SBB Stream 256 (kbps)			(5), per channel
or				
Service Plan - High Data Rate Select from one of below HDRs ...	Class 6 & 7 SBB Packet Switch Stream HDR ## Down / ## Up kbps	Not Applicable		(4), (6)
i.e., one of the HDR Standards	HDR 300 / 64, 64 / 300, or 300 / 150			(5) thru (9)
or HDR Plus	HDR 300 / 300 (down / up kbps)			(5) thru (9)
or one of the HDR Tacticals	HDR 600 / 64 or 64 / 600			(5) thru (9)
or HDR Premium	HDR 600 / 300 (down / up kbps)			(5) thru (9)
or HDR Max	HDR 600 / 600 (down / up kbps)			(5) thru (9)
Service Plan Option	Class 6 & 7 SBB Circuit Switch App	Not Applicable		
SBB Voice	AMBE+2			(10)
SBB Fax	ISDN (Data)			(11)

Constellation: **Inmarsat**   Connectivity: **L-Band Swift Broadband (SBB)**

SERVICE AIRTIME PLAN	(SUB-)FEATURE	INCLUDED DATA (IF APPLICABLE)		
		MEGABYTES	PERIOD	NOTE(S)
Service Plan - Background IP **Select one of below annual data allocation plans**	**Class 15 SBB200 Packet Switch Data**			(1)
i.e., Pay-Go200	SBB - 0 (MB)	Not Applicable		(2)
or one of the Essential200 Plans	SBB - 3600 or 8400 (MB)	3.6K or 8.4K	annually	(3), K = 1000
plus optional				
Service Plan - Stream IP	**Class 15 SBB200 Packet Switch Stream**	Not Applicable		(4)
One of the Essential200 Streams	SBB Stream 8 or 16 (kbps)			(5), per channel
Service Plan Option	**Class 15 SBB200 Circuit Switch App**	Not Applicable		
SBB200 Voice	AMBE			(10)

Notes: (1):"Always on" packet switch-based service supporting **(background) transfers (i.e., data, FTP or File Transfer Protocol), e-mail, (secure) internet & web browsing, messaging, & VPN or Virtual Private Network management** (2):Pay-Go or "Pay As You Go"; i.e., charged per MB of service used (3):Data amount allocated annually; usage tracked monthly from consumption and overage point of view (4): "On demand" packet switch-based service supporting d**ata streaming including video / conferencing as well as VoIP / FoIP or Voice- / Fax-over-IP**; capability provided at the indicated rate in kbps or kilobits per second (5):kbps or kilobits per second (6): HDR or High Data Rate (7): Requires Satcom terminal & antenna combination specifically capable of HDR functionality (8): Downlink or "down" is the movement of data traffic from the satellite providers' ground network / stations to in-orbit satellites and then from there down to the aircraft's Satcom terminal (9):Uplink or "up" is the movement of data traffic from the aircraft's Satcom terminal (up) to in-orbit satellites and then from there to the satellite providers' ground network / stations (10): AMBE (or AMBE+2) or Advanced Multi-Band Excitation operated in circuit switch mode (11): ISDN or Integrated Services Digital Network operated in circuit switch mode

Constellation: **Iridium**   Connectivity: **L-Band Aero**

SERVICE AIRTIME PLAN	(SUB-)FEATURE	INCLUDED MINUTES (IF APPLICABLE)		
		TIME	PERIOD	NOTE(S)
Service Plan - Core Service	Core Service	Not Applicable		
Service Plan - Short Burst Data. Select one of below plans	Short Burst Data			
i.e., GoDirect		None	None	(1)
or Gogo Bronze		20 minutes	per month	(1)
or Gogo Silver		60 minutes	per month	(1)
or Gogo Gold		120 minutes	per month	(1)
or Gogo Platinum		360 minutes	per month	(1)
Service Plan Option	Additional SIM Card option	Not Applicable		
Service Plan Option	On Go Fax option	Not Applicable		

Notes: (1): Indicated "Included Consumption" is quantity of minutes provided to customer at start of each month

Constellation: **Inmarsat**   Connectivity: **L-Band Classic Aero / Swift64**

SERVICE AIRTIME PLAN	(SUB-)FEATURE	INCLUDED DATA (IF APPLICABLE)		
		MEGABYTES	PERIOD	NOTE(S)
Service Plan - Data	Swift64 ISDN or Swift64 MPDS	Not Applicable		(1), (2)
Service Plan - Voice	Classic Aero (Aero H, H+, or I)	Not Applicable		

Notes:(1): ISDN or Integrated Services Digital Network operated in circuit switch mode (2): MPDS or Mobile Packet Data Service operated in packet switch mode

GoDirect – From Honeywell

GoDirect is the latest in a century-long line of service innovations from Honeywell Aerospace, a leading force in the air transport, business aviation, and defense and space industries.

Learn more about our one-stop shop for aviation services and apps at **GoDirect.Honeywell.com**

Honeywell Aerospace

Honeywell Aerospace is a global leader of integrated avionics, engines, surface systems and service solutions for aircraft manufacturers, airlines, business and general aviation, military, space and airport operations. We give you the power to protect and the technology to perform – even in the most challenging environments – while optimizing energy efficiency and product lifespan and increasing the productivity of critical assets in order to minimize maintenance costs.

Honeywell