

## IRIDIUM IN A SNAPSHOT

100% Global coverage connects people and IOT in remote & compromised locations

Single global network, single device and SIM, helps simplify installation and maintenance



66 x Satellites
Fully Meshed
Low Earth Orbit
Real Time



## High reliability

and service availability complements terrestrial & cellular

#### Flexible services

help meet unique user requirements across different vertical markets

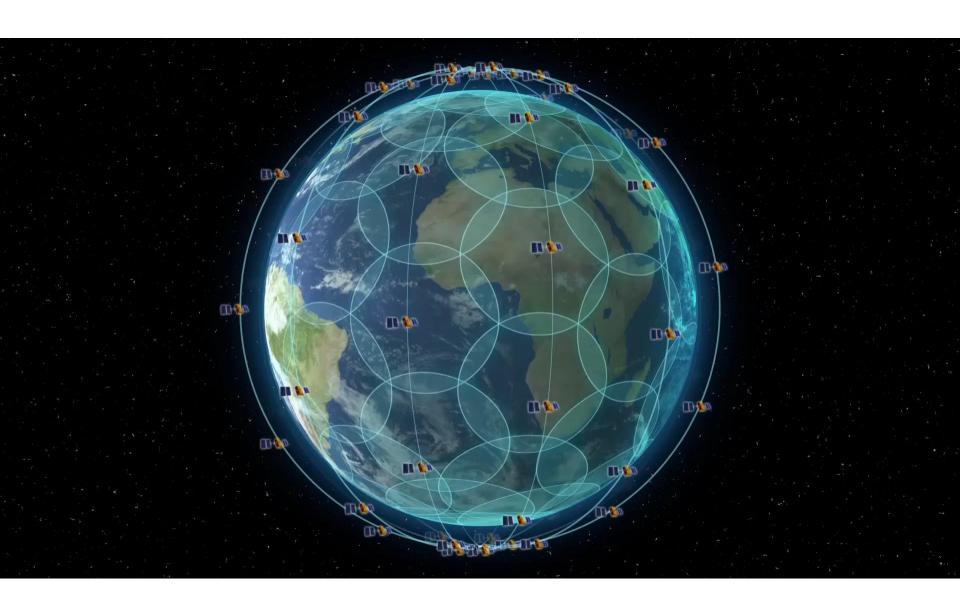




1,000,000 subscribers

~\$433M LTM Revenue Full Year OEBITDA ~ \$254M

## THE IRIDIUM® CONSTELLATION



## GLOBAL SMART-GRID FOR THE CONNECTED SHIP

Iridium NEXT network architecture Low-Earth-Orbit L-band



Highly reliable and pervasive network coverage:

- Interconnected mesh architecture, routing through outer space without reliance on local infrastructure
- Global coverage, Pole-to-Pole
- Multiple satellites overhead handling communication traffic simultaneously
- Uniform low latency signaling and transmission
- High Performance, fastest L-band speeds
- Weather resistant connectivity
- Small form factor devices, low power
- Highly secure and redundant
- Optimized for high volumes of simultaneous IOT data sessions
- Single price around the world, no roaming
- Network Longevity beyond 2030



#### LAUNCH UPDATE

#### The Iridium NEXT Constellation

- SpaceX successfully completed 5 launches for Iridium
- As of May 1, 44 Iridium NEXT SVs are in commercial service
- 6<sup>th</sup> launch scheduled for May 19<sup>th</sup> at Vandenberg Air Force Base (VAFB)
- All Iridium NEXT satellites have exceeded our operational KPI's
- On target for full constellation deployment in 2018
- Expected Commercial Service Introduction (CSI) of Iridium Certus Services and Products by summer 2018



## **Iridium NEXT**

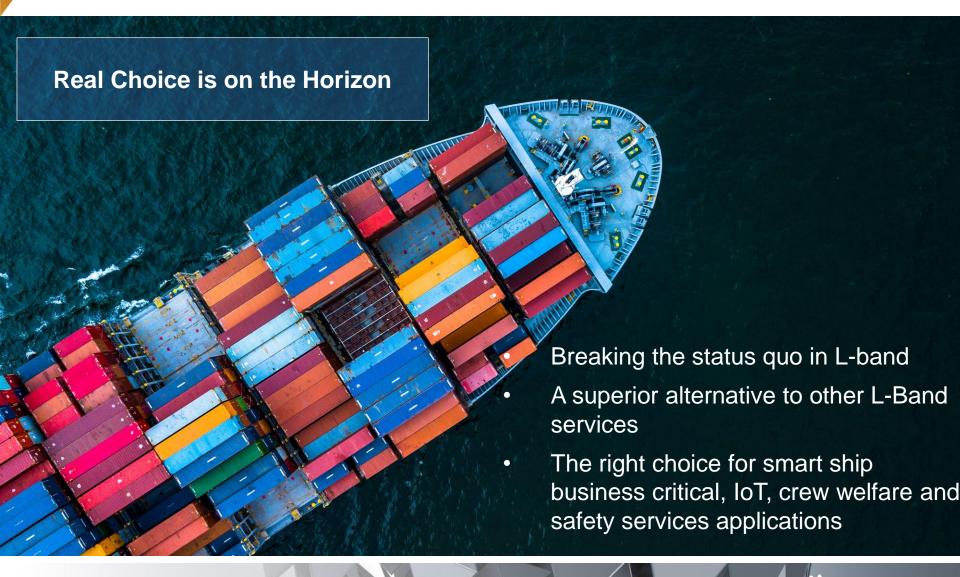
Achieving a successful update to our network

## **Iridium Certus**

Expanding our capabilities and competitiveness



## IRIDIUM CERTUS



## **GROWTH THROUGH INNOVATION**



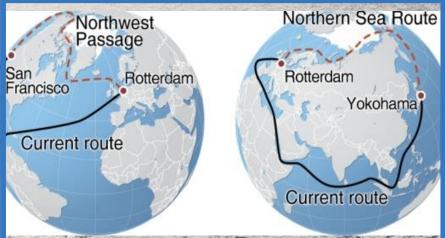
#### ENTRY BROADBAND MARKET LEADERSHIP WITH IRIDIUM OPENPORT®

Iridium Pilot®'s proven performance, reliability, features and value are a solid foundation for expanding the market with Iridium Certus

Leading Market position for 'stand-alone' and 'VSAT companion' use



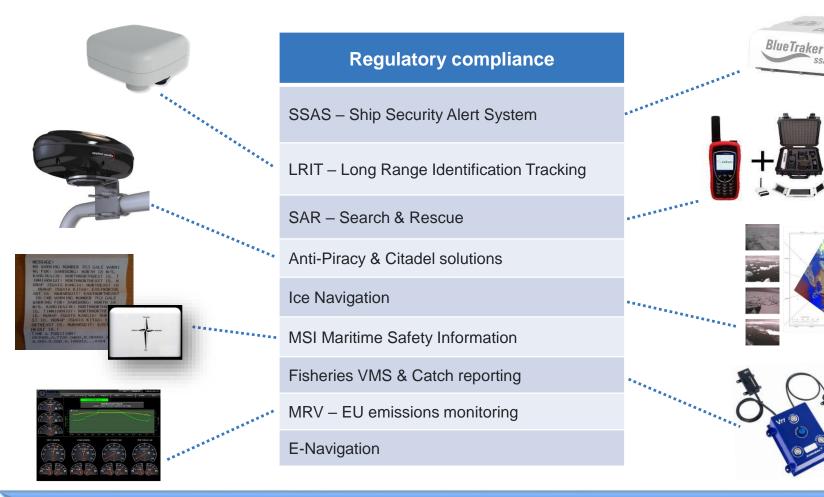




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## COMMITTED TO SAFETY & SECURITY AT SEA







## DRIVING THE DIGITAL TRANSFORMATION

- Different Industries, Same Drivers, Same Network
- "Iridium Inside" Strategy
- Global Smart-Grid for IOT Applications

#### Condition based monitoring











**Emission &** Fuel monitoring



**Predictive** maintenance





"Optimizing supply chain logistics"

"True end-to-end visibility across water and land"









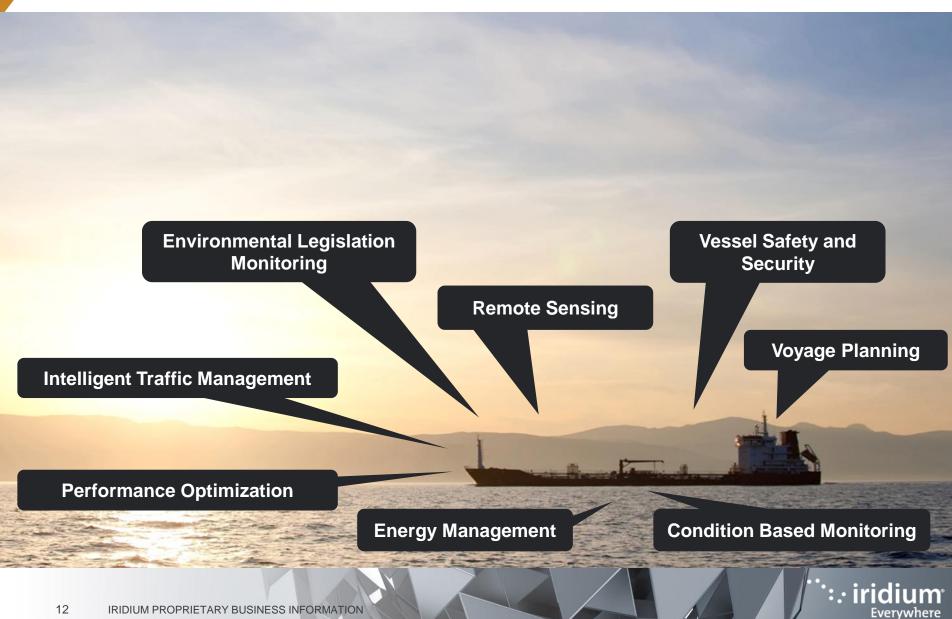


**Making Your Business** Smarter, Safer, Greener, More profitable

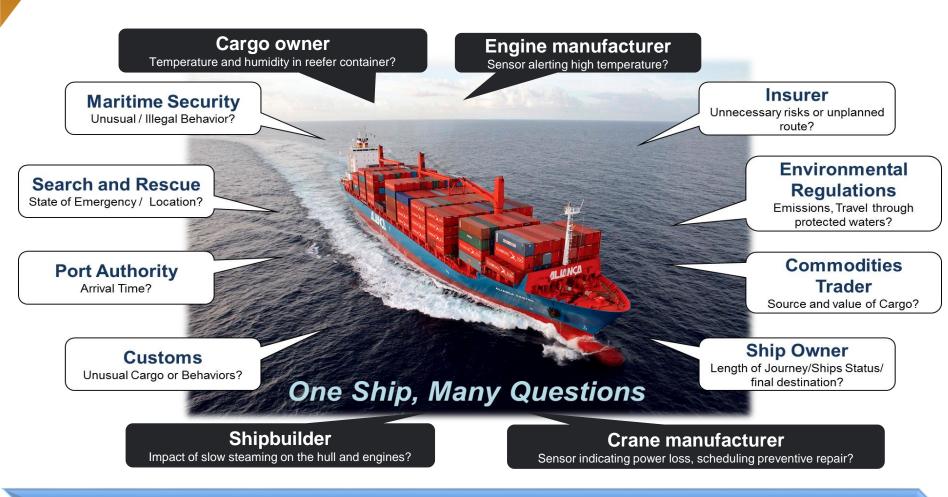




## IRIDIUM® MARITIME IOT FOCUS



## THE CONNECTED SMART SHIP



Delivering answers in real-time

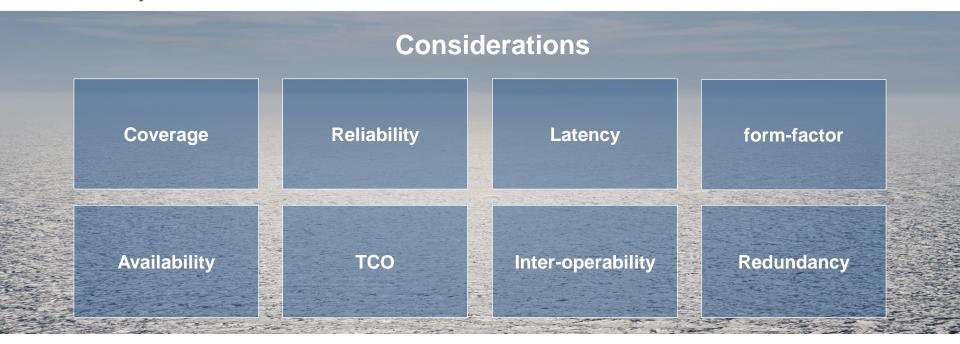
Powerful combination of satellite L-band & AIS





## BIG DATA, WHAT ABOUT THE CONNECTION?

- Is L-band still relevant?
- Myriad of connectivity options: 4G / L / Ku / Ka / ...
- Confusing Market place, lack of standardization
- Many Maritime markets, not a one-size-fits-all



Iridium Certus introduces standardized high-quality reliable connectivity

#### IRIDIUM NEXT ADVANTAGE



Everywhere

## Iridium Certus<sup>SM</sup>



kbps

#### 1408 | Iridium Certus 1400

- High Definition Video
- Video Conferencing
- Multi-User Internet/ VPN
- Telemedicine

## kbps

## Iridium Certus 20

- (L) Global Maritime Distress and Safety System (GMDSS)\*
- ( ACARS
- Asset Tracking
- eLog Book
- (M) Telemetry
- Remote Monitoring

#### Iridium Certus 100

kbps

- Internet/VPN
- (a) Email
- Photo Transfer
- © Credit Card Validation

176 kbps

#### Iridium Certus 200

- ECDIS Updates
- (2) Aeronautical Charts
- Streaming Audio

#### Iridium Certus 700

- Standard Definition Video
- Video Conferencing
- 🛕 Multi-User Internet / VPN
- (ป๋า) Telemedicine

kbps

#### ridium Certus 350

- (6) Flight Data Recorder Streaming
- VSAT Redundancy
- Low Resolution Video

\*IMO Approval Expected in 2018

#### IRIDIUM CERTUS MULTI-SERVICE PLATFORM

Streaming IP Data Iridium **IP** Data Certus **Short Burst Data** 

High Definition Voice

Safety Services GMDSS\*

Prepaid services

\*IMO Approval Expected in 2018

#### HIGH DEFINITION VOICE

Voice

New and improved voice codec for delivering superior voice quality

- Double bandwidth allocated to HD calls
- Near toll-quality (3.5 MOS)
- Low latency for real-time connection
- Minimized distortions

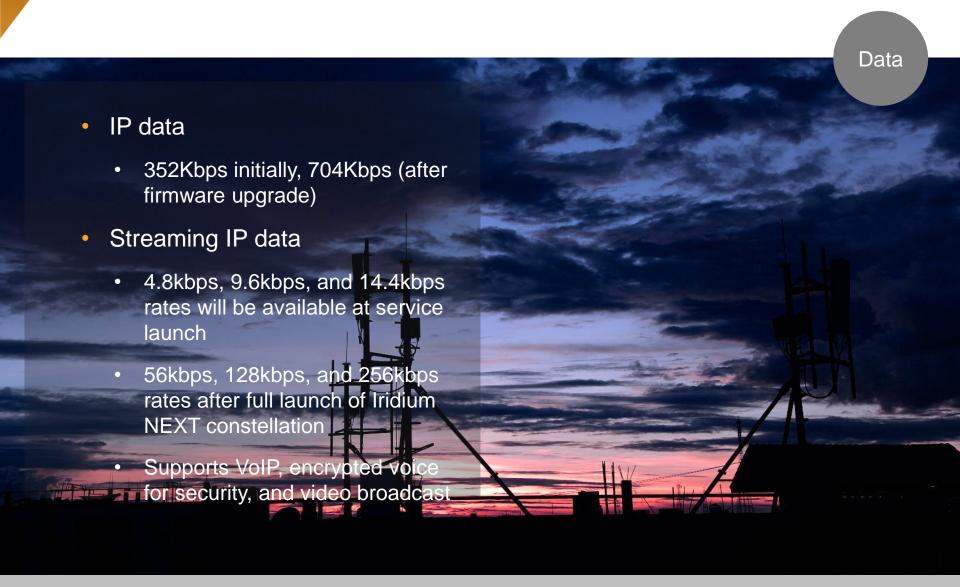
Provides cellular phone-type voice quality in mobile satellite network

"It sounded just like a call from a mobile phone...."

"That has to be the best satellite voice quality and latency I have ever heard...."



#### IP DATA & STREAMING IP





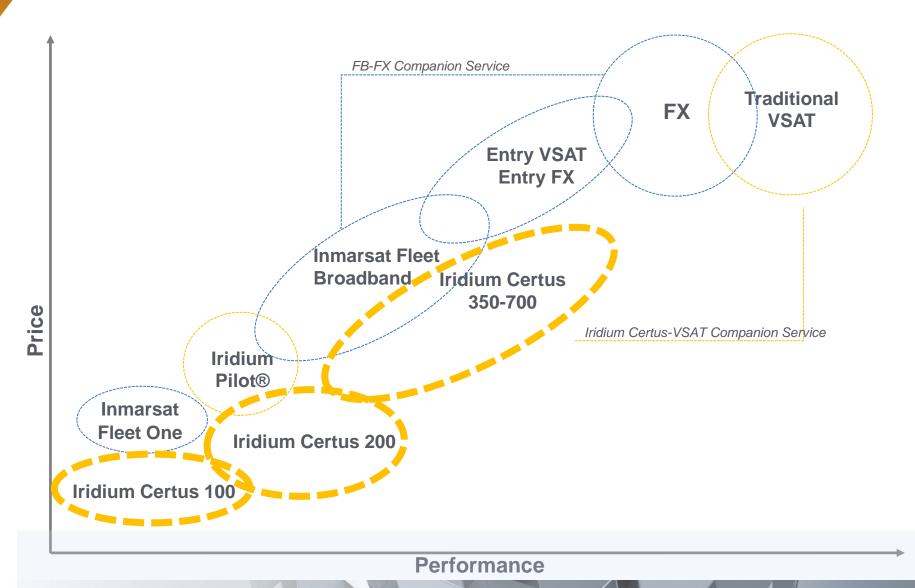
# Simple and efficient network transport capability

- Transmitting short data messages between equipment and hosted applications
- Works exactly like theIridium 9602 and Iridium 9603

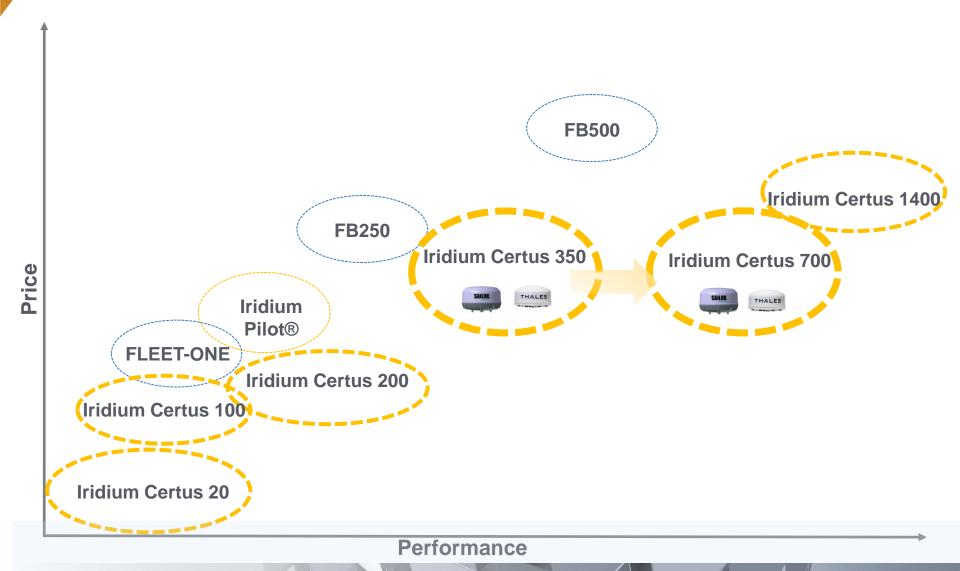
Simplifies integration with existing SBD® solutions



### MARITIME SERVICE POSITIONING



## MARITIME TERMINAL POSITIONING



## MARITIME TERMINAL COMPARISON





Terminal	Sailor 4300	VesseLink	FB250	FB500
Max Download	704k	704k	284k	432k
Antenna Weight	7kg	3kg	5kg	20kg
Antenna Diameter	38cm	35cm	35cm	63cm
Antenna Height	23cm	27cm	35cm	68cm
Phone Lines	3	3	1	1
Price	\$\$	\$\$	\$\$\$	\$\$\$\$

#### THE IRIDIUM CERTUS ADVANTAGE - TERMINALS

Delivering fastest L-band at the best value to any point on the globe:

## **Easy install**

Compact light-weight antenna Dual mounting options for BDU

## Easy upgrade

Compatible with existing mounting Ability to re-use existing cabling

#### Robust

Virtually maintenance free Solid-state antenna

No moving parts

## Supported

Global support networks for after-sales and installation Best-in-class warranty



## **INSTALLATION ADVANTAGE**









#### MARKET OPPORTUNITIES FOR IRIDIUM CERTUS



Merchant Shipping: Cargo ships, tankers, bulk carriers, Ro-Ro







Research Vessels: Scientific, Polar, Fisheries, Seismic

Recreational: Yachts, sailboats, private/polar cruise, kayak, fishing



Commercial Fishing: Catch processors, seiners, trawlers, trap setters

Fixed: Jack up rigs, platforms, buoys, submersibles, floats, gliders, offshore construction



#### IRIDIUM CERTUS PRIMARY

Iridium Certus is ideal for high speed communications requirements on a wide variety of vessels.

#### Iridium Certus delivers

- Optimal benefits of L-Band and Low Earth Orbit in a high speed solution.
- Standardized packaging and speeds.
- No asterisks, caveats and small print

Iridium Certus is easy to position as a turn key standard solution to a market increasingly confused by non-standard metered VSAT and heavily-caveated budget plans

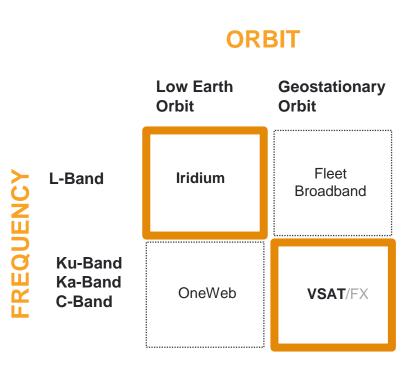


#### IRIDIUM CERTUS COMPANION TO TRADITIONAL VSAT

Iridium Certus is also an excellent traditional VSAT companion system.

When paired with traditional VSAT, Iridium Certus delivers an ideal hybrid solution combining the benefits of low earth orbit with geostationary orbit and the benefits of L-band with Ku-band.





#### **IRIDIUM GMDSS\***

- Will cover the entire globe
- Tri-service terminals
  - Simpler process
  - Clear Information
  - Less risk of False SAR
- Lower Cost Solution for GMDSS Voice, Messaging and MSI
- A better system for those who need it the most (non-SOLAS)
- Wide variety of complementary services
- Looking at new innovation



## Choice is on the Horizon

\*IMO Approval Expected in 2018

### **READY TO MAKE GMDSS TRULY GLOBAL**

