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FleetBroadband – Grand Banks Solution

October 7, 2009

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Husky Energy Overview

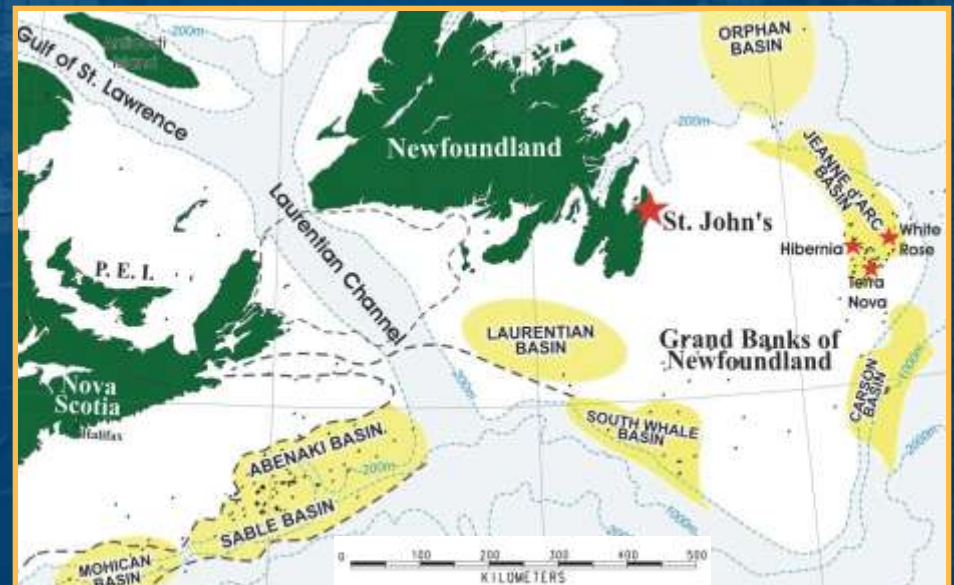
- Fully integrated energy company
- Market capitalization approximately \$25 billion
- Enterprise value \$29 billion
- Operations in Canada, USA, Greenland, China and Indonesia
- Three business segments – Upstream, Midstream & Downstream





East Coast Operations

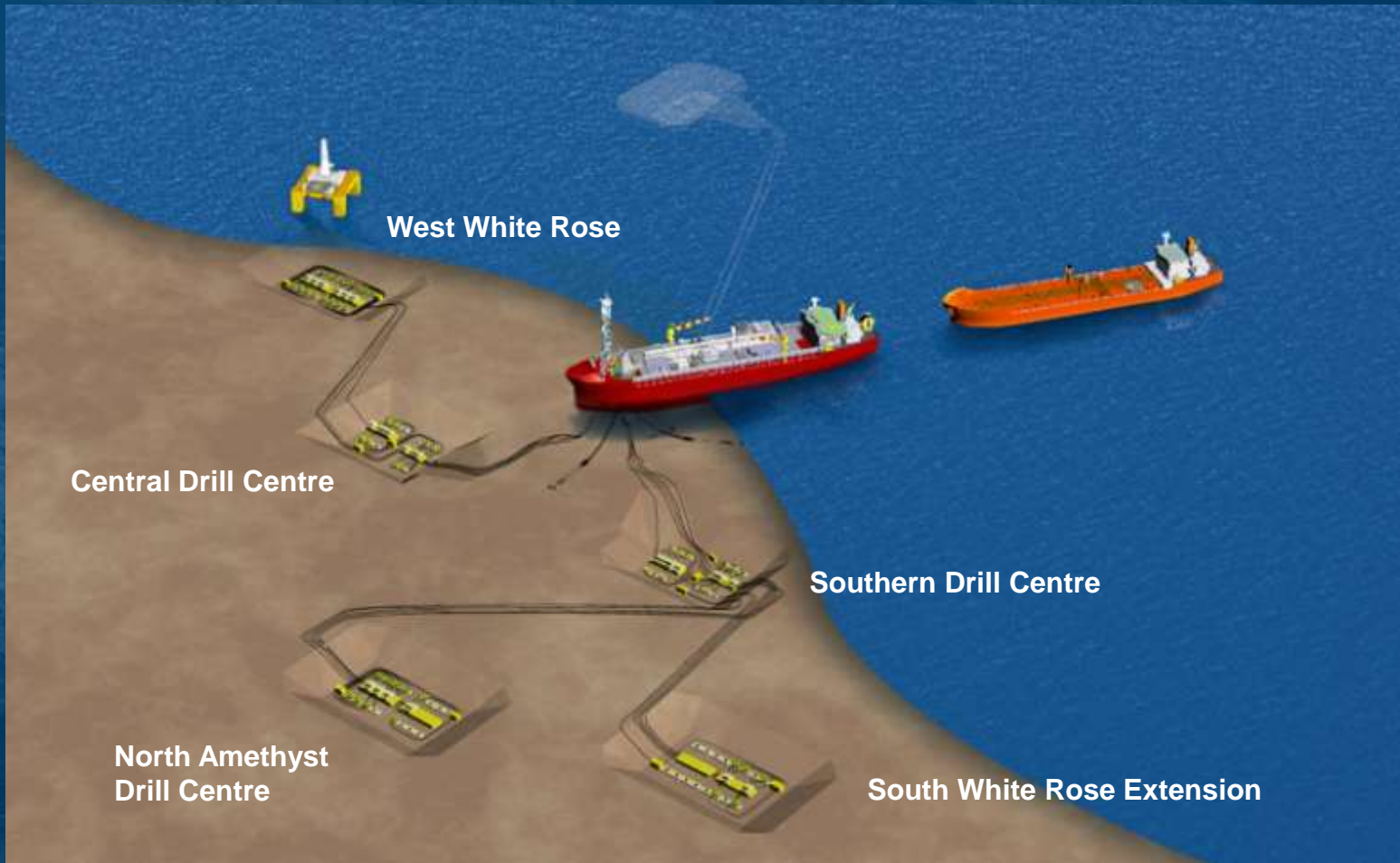
- Active for over 25 years
- Operator of White Rose oil field, and North Amethyst satellite field
- Third producing field offshore Newfoundland & Labrador
- Located 350km offshore
- Harsh environment



White Rose Field



White Rose Growth





Atlantic Osprey

- Light Intervention Vessel
- Long term contract to Husky
- Two Remote Operated Vehicles (ROVs)
- Subsea operations support including inspections, installation, modifications
- First platform for FleetBroadband among Husky chartered vessels



Challenge: to improve operational efficiency for Husky staff while functioning in remote locations

Solution: establish 'mobile office'



Evolution of technology





FleetBroadband versus VSAT

Inmarsat

- Operates in L-band
- Not affected by weather – can operate with 100% reliability
- Global coverage
- Bandwidth of up to 432 kbps
- Low capital costs for antennas
- Small antenna/lightweight
- Only pay for WHEN and WHAT you use
- Easy to install and maintain

VSAT

- Operates in Ku-band; C-band
- Affected by weather – not reliable during poor weather
- Expensive capital costs for antennas
- Large antenna
- Typically requires a long term contract commitment
- More time consuming installation - licensing and equipment



Why FleetBroadband?

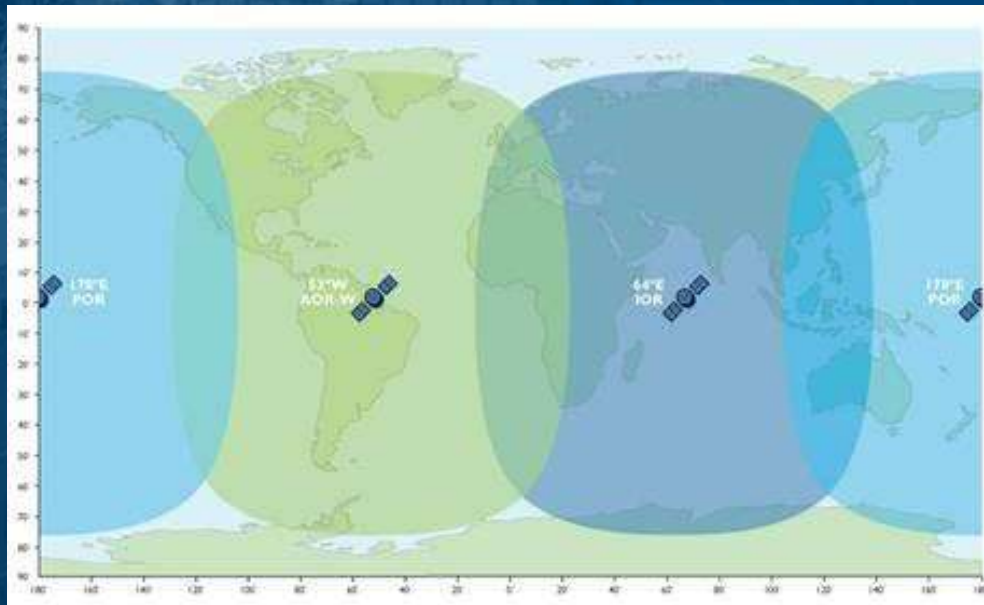
- Always on – Real time communication with HQ
- Easy to extend comms to multiple locations
- Remote diagnostic of bridge system and engine
- Optimize ship management and logistics
- Cheaper per MB
- Simultaneous voice and data
- Standard IP Applications





FleetBroadband Availability

- FleetBroadband will be available over the two I-4 satellites on November 19th
- FleetBroadband will be available with complete global coverage after the successful launch of the third I4





FleetBroadband - 3G

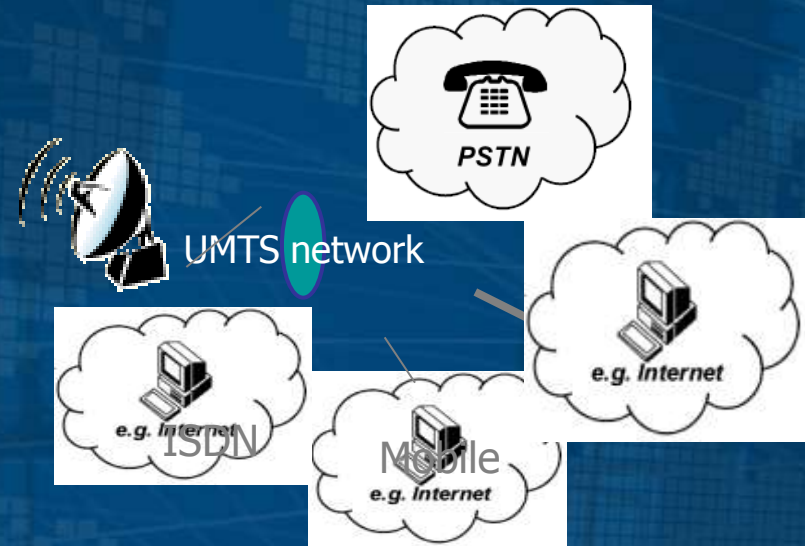


new radio technology

Voice

Data

Streaming with (QoS)





SAILOR FleetBroadband - BDU

- One Below Deck Unit - two SAILOR FleetBroadband products
 - Unique design
 - Built-in web server
 - Supported interfaces/services
 - SIM Card
 - 4 x Ethernet w. PoE
 - ISDN
 - L-Band output
 - Remote On/off
 - I/O interfaces
 - 2 x 2-wire interfaces
 - Basic or Extended cable support
 - Size: H x W x D = 42,5mm x 247mm x 270mm





Standard IP

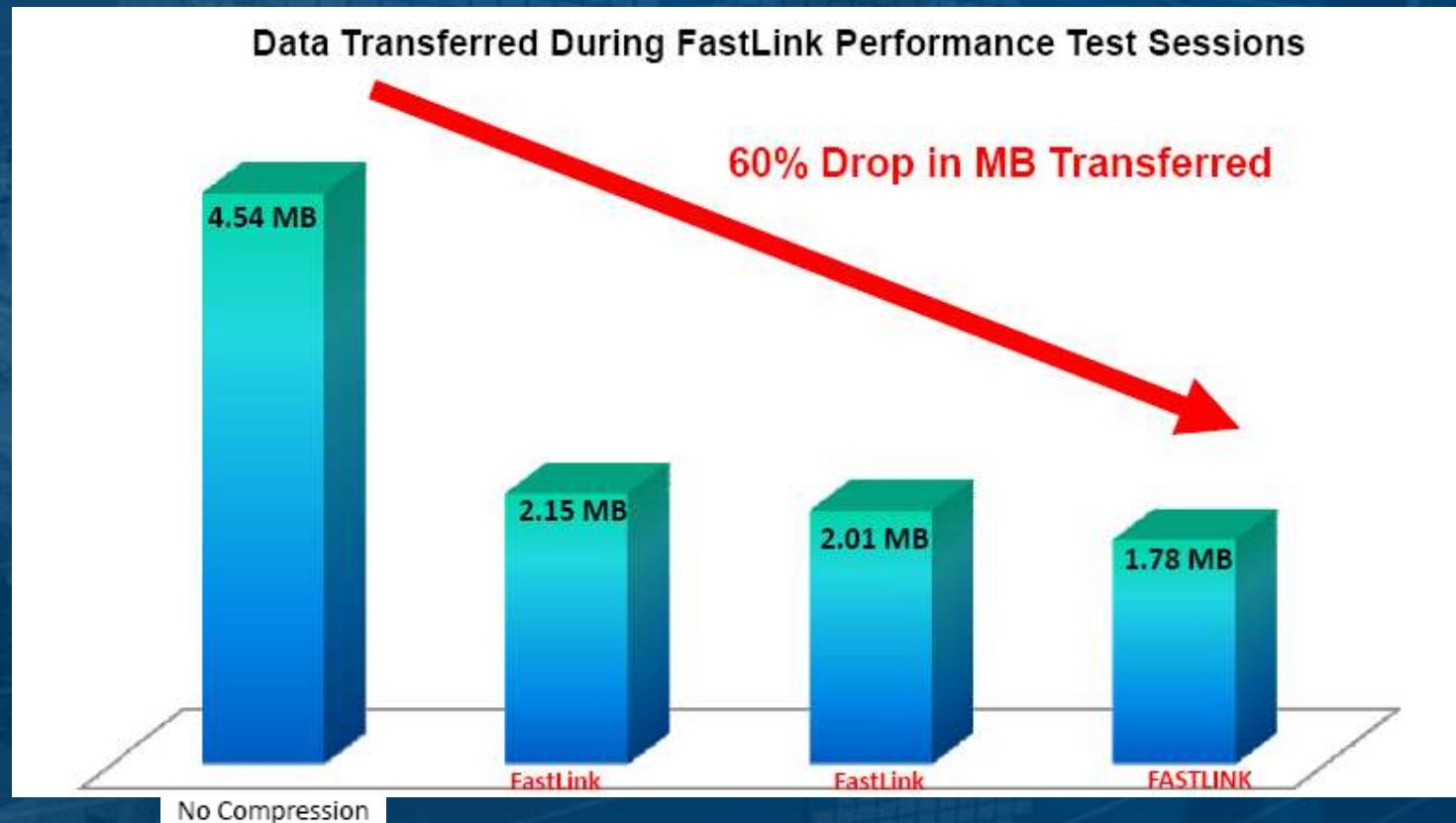
- Basic broadband data service charged for data sent and received
- Connections through to Internet or DP PoP and onwards
- Designed for TCP applications - typical office applications like email, web browsing, FTP, VPN
- Shared connection 'pipe'; less traffic = higher throughput, more traffic = lower throughput; Contention.
- High demand triggers extra capacity allocation; dynamically assigned, real time





FastLink Compression

FastLink maximizes bandwidth by squeezing more into the pipe, by accelerating or compressing IP packets. FastLink is a robust, on-the-fly compression that works with any data type





Crystal Clear Voice telephony

Direct dial voice service

- Available on all new FB terminals
- Landline quality speech (4kbps)
- To and from
 - Terrestrial networks
 - Mobile networks
 - FB to FB
- Can be used simultaneously with data
- Supports Supplementary value-added services
 - Caller ID, Call Hold, Call Waiting
 - Call Forwarding



Return on Investment

Standard Rate Plan

- No Subscription charges
- Voice
 - Less expensive than current Inmarsat voice services
 - Priced competitively against Iridium
- ISDN
 - Priced similarly to current
- IP
 - Significant price reduction – 50% less expensive than MPDS
 - Additional discounts for higher usage

Money Bundle Rate Plans

- Package rate plan available for one vessel/UT
 - Package includes voice and standard IP
 - Flexible
 - Substantial value savings

Shared Fleet Bundle Rate Plan

- Package rate available to a number of vessels in one fleet
 - Package includes voice and standard IP
 - Ability to control costs across a fleet of vessels



Extras

- 24X7 support using toll free number
- Monthly reports including usage MB and phone calls made
- Ability to troubleshoot remotely
- Ease of use by the end user
- Can filter websites not used for business
- Flexible monthly plans availability
- Stratos Dashboard
 - For configurations changes
 - Traffic controll
 - Billing information
- Working with quality people

Thank You



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