

Ka band and the Evolution of the VSAT Operator's Business Model September 2012



iDirect is the industry's leading IP-based satellite communications company providing

hardware, software, and services that enable partners to optimize networks and profitably expand their business





100% focused on providing the ground infrastructure technology that allows our partners to:

Build the best, most optimized networks

Seize new revenue opportunities

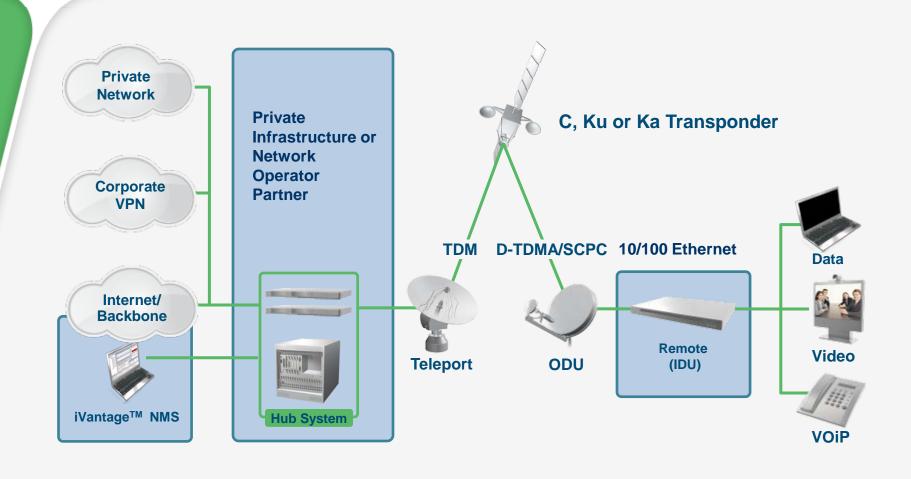
Maintain margins and lower TCO

Differentiate and expand their business





# iDirect Ground Infrastructure Technology

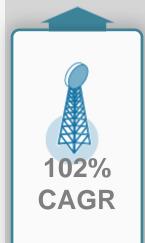




# VSAT Landscape Demand for VSAT is rising

#### Cell Backhaul

Small cells / 3G helping Mobile Operators reach new customers, bringing new value to the backhaul market



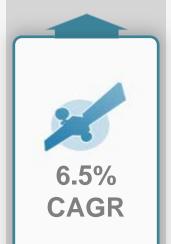
#### Government

Budget cuts are forcing more effective intelligence sharing and higher reliance on COTM



#### Oil & Gas

High bandwidth applications pushed offshore, urgency to protect pipeline and meet safety, environmental reporting requirements



#### **Utilities**

Government regulations, legacy SCADA systems driving upgrades and connectivity to edge of the network



### Maritime/ Mobility

Requirements
expanding from
crew welfare to
reliance on
VSAT for
essential
operational
needs





# HTS/Ka will Provide Influx of Capacity to Fuel Further Growth





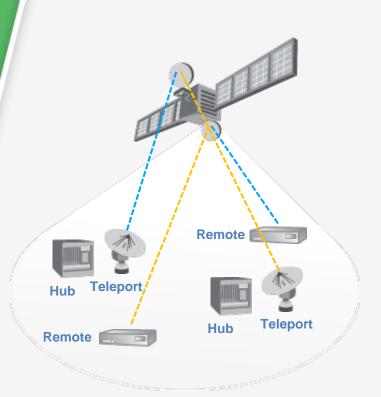
# Ka Implications: The Market

- Massive amount of capacity ~90% by 2015 according to Simon Bull, Comsys
- Clear benefits: less cost, higher speed
- Originally deployed for consumers; next wave of Ka capacity addresses enterprise and government needs
- Will dramatically expand the VSAT market and create opportunity for Satellite Service Providers
- Evolutionary shift in industry dynamics and economics
  - Large quantities of bandwidth at lower cost
  - Will open new users, applications and markets
  - Significant implications to our industry

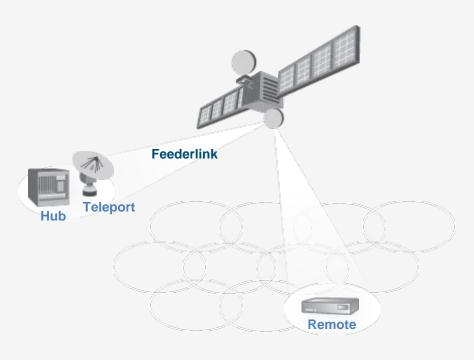


# Ka Typically Delivered via HTS Satellites Fundamentally Different Architecture

### **Traditional Satellite**



### **HTS Spotbeam Satellite**



HTS economics drive a centralized infrastructure model





# Ka Implications: The VSAT Operator

- Centralized infrastructure changes the dynamics for the VSAT operator
- Infrastructure is just part of the equation —the value add for the service provider remains unchanged
- Bringing on Ka requires a versatile VSAT platform:
  - Allows you to serve widest range of markets
  - Provides high adaptability; freedom to choose best business models and quickly adjust to change





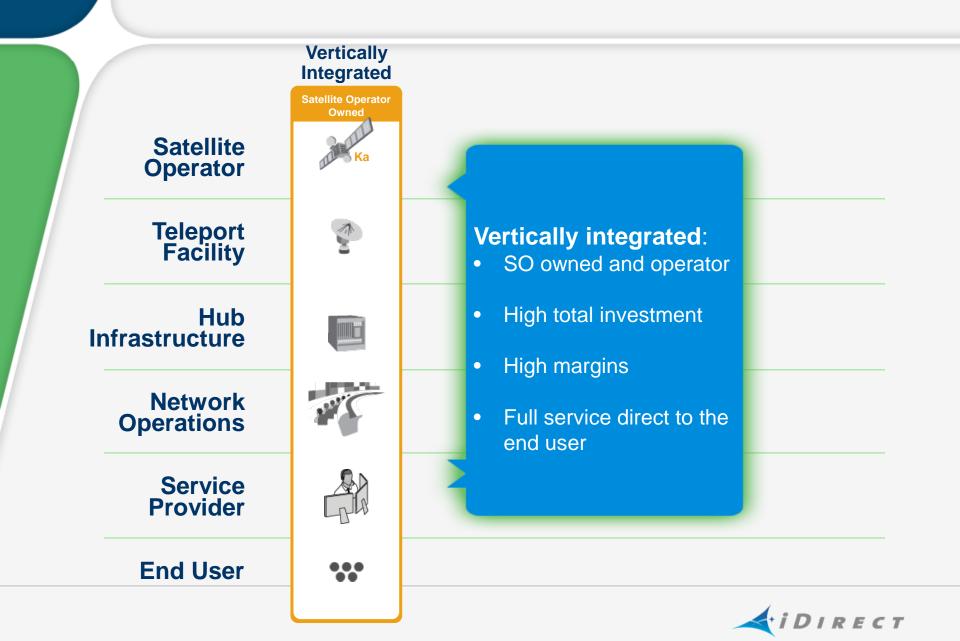
# The Evolution of the VSAT Operators Business Models

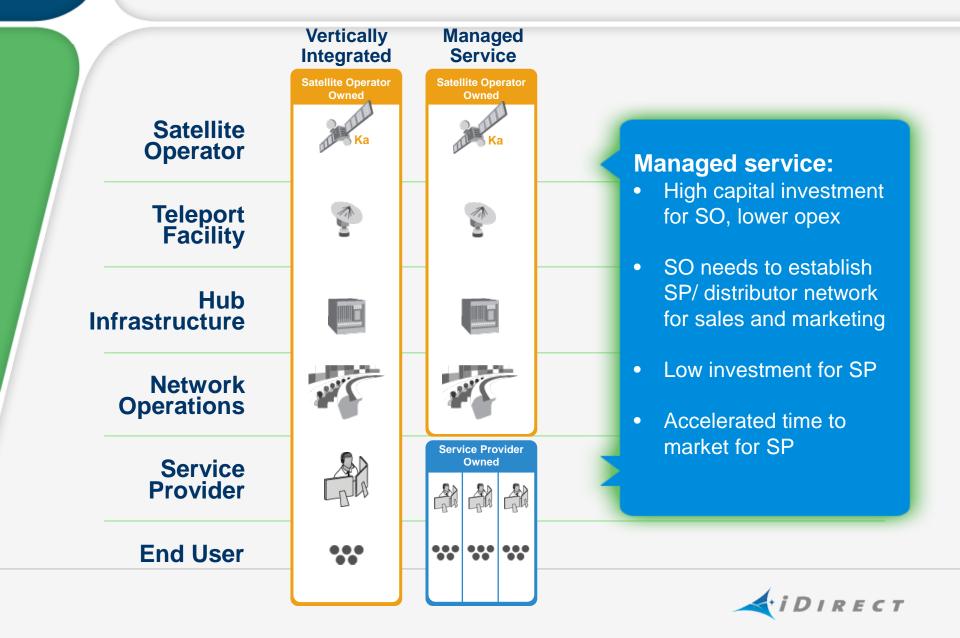
iDirect pioneered a flexible satellite hub technology platform that enabled multiple business models

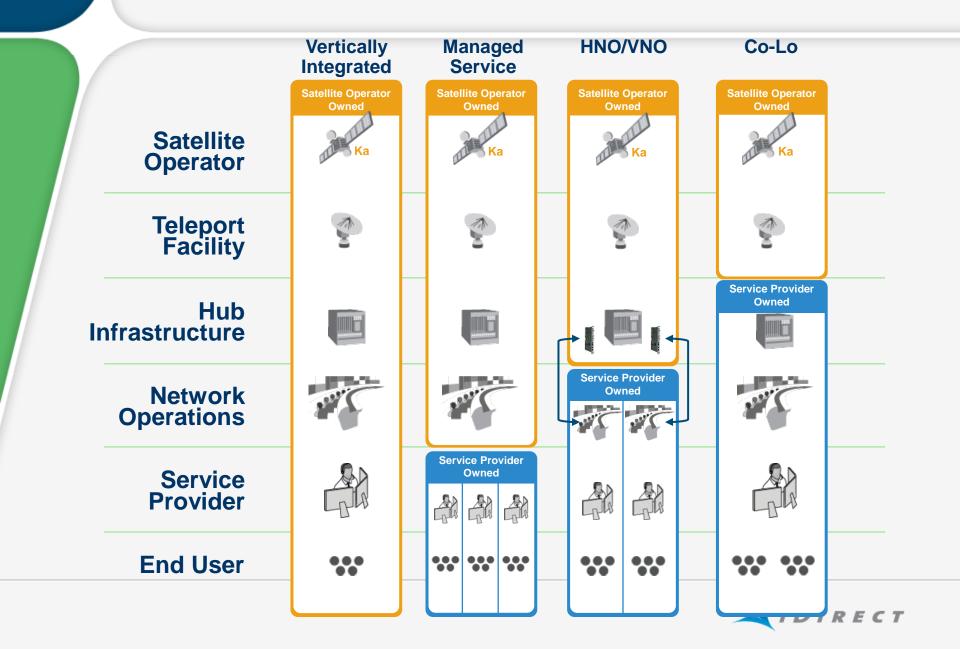


### Business Model Evolution: The Value Chain

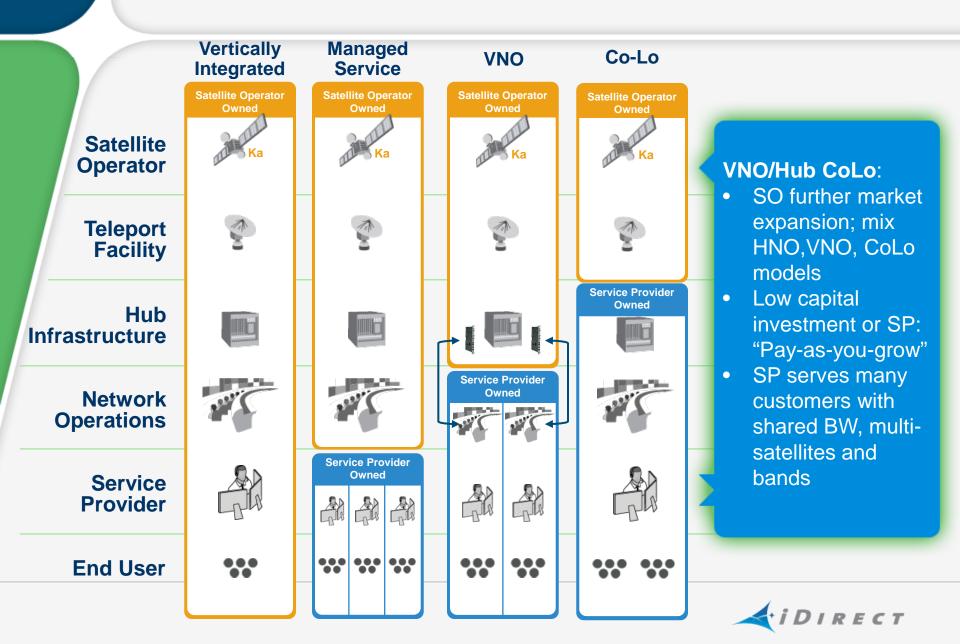




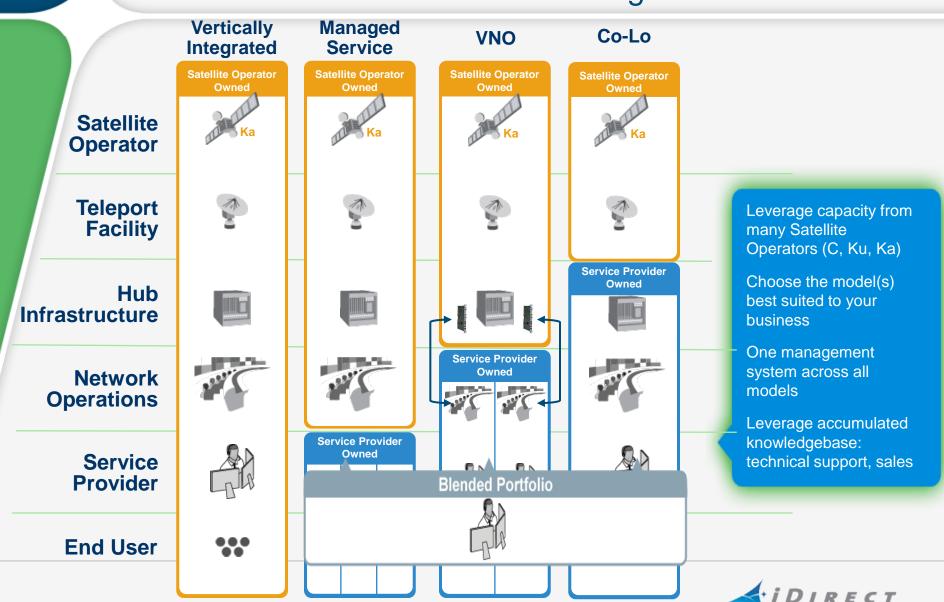








# Service Providers can Leverage a Blended Portfolio using the iDirect Platform





# Taking Advantage of Ka: The Successful VSAT Operator

- Will draw from multiple business models for bandwidth choices - C/Ku and Ka – managed a blended portfolio
- Will choose how to best offer multi-band services
- Will leverage existing investments, managing from a common platform, to optimize business operations
- Will stay focused on value-added differentiation to the customer



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### Ka and the iDirect Platform

- Optimized for all frequencies, all networks
- Broad range of remotes:
  - SOHO, enterprise, government, mobility
  - New class of embedded routers for specialized integrated terminals
- Highest higher performance, availability and reliability
- Single, web-based management of all customers no matter what infrastructure

One platform enabling service providers to adopt the most effective technology for their business





**Thank You**