

# New Satellite Designs & Concepts

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David Abrahamian

Director, Space Systems

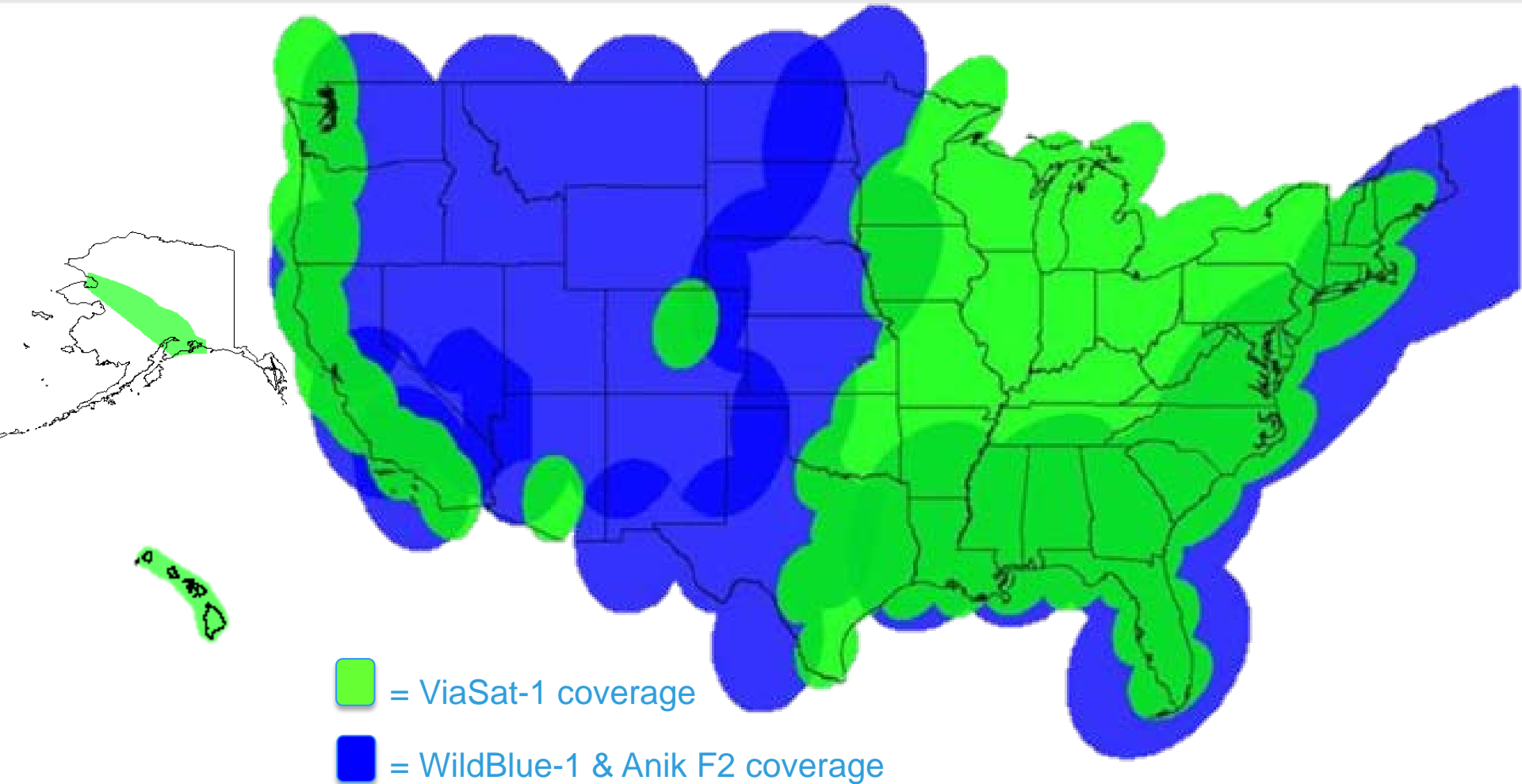


# Next Generation Satellites: Enabling New Applications

- » Much greater capacity per satellite
- » Economics of high-throughput satellites make applications viable over satellite that weren't before
  - › Broadband that is actually usable
    - › Exede
    - › Xplornet
    - › Tooway
  - › Mobile broadband
    - › JetBlue
    - › United
  - › Portable broadband
    - › ViaSat SurfBeam 2 Pro Portable terminal
  - › Satellite news gathering



# Exede Geographical Coverage



# Exede by ViaSat

## Impressions from the Press

“The 12MB download speed is very impressive, exceeding most DSL services and mobile broadband.”

“My nugget after trudging among 3100 exhibitors (at CES) is

“I got a speedy 10 Mbps download and 2 Mbps upload. I like and want

“Based on my first blush with it, Exede will at a minimum **exceed current expectations** for satellite broadband, and may give give terrestrial wireless services and DSL some **substantial competition.**”

“Satellite internet just **got a lot more attractive...** will potentially **impact millions of people** living in rural America.”

“The overall latency is

*Ars Technica*

broadband **is suck.**”

*Ars Technica*

*Engadget*

*Ars Technica*

*CNET*

# SurfBeam 2 Pro Portable

## Small Footprint, Big Bandwidth

### SurfBeam 2 Pro Portable Characteristics

Antenna	75cm or 50cm Petal
Ethernet	4 auto sensing ports
Terminal Rx Rate	50 MSym/s
Terminal Tx Rate	20 Msym/s
Ruggedization	IP 66 / MIL-STD-810
Size	Airline Checkable
Weight	35lbs
Op. Temp.	-20°C to 50°C
Power	1x input, 1x 12 or 24V output
AC	96-240VAC
DC	12-32 VDC
Battery	BA-5590 (1-3hr Operational)



**Demonstrated ability: 20 Mbps Rx / 10 Mbps Tx**



# Exede by ViaSat

## Satellite News Gathering (SNG)





<http://www.viasat.com>  
<http://www.viasatresidential.com/exede>