Background

• Rob Reis
  • Founder and CEO

• Company History
  • Founded 2013. 30 employees. Intelsat investor/satellite partner.

• California-based
  • Manufactured in U.S.A.
Higher Ground Product

- Messaging service that extends beyond cell coverage areas
- Higher Ground’s SatPaq device is a satellite transceiver embedded in a smartphone case, connected via Bluetooth to the consumer’s smartphone
Higher Ground Application

• Operate Earth terminals on:
  • 5925-6425 MHz (SatPaq transmit)
  • 3700-4200 MHz (SatPaq receive-only)
• Operate on a non-interference basis
• Waiver request for portable operations and for database-driven interference protection for fixed point-to-point microwave operations
Interference Protection

- Uses FCC’s ULS database to protect current and future point-to-point microwave links
  - Permission-based transmissions—requires geographic separation and vacant spectrum
  - Updates daily from ULS for any new microwave links
  - Network-controlled—can shut down single SatPaq or entire network
  - Transmission log will ensure record of all operations
- Protects against adjacent satellite interference
Benefits

- Full-CONUS+ consumer messaging
- Smartphone innovation
- More efficient use of spectrum
- Other applications…
  - IoT in remote areas
  - Other?