Iridium - Unique Global Network

- 66 cross-linked, low earth orbit (LEO) satellites
- Only fully global voice and data provider; over 869,000 subscribers
- Efficient operations using only 8.725 MHz of spectrum worldwide for uplink and downlink
- Messages are routed from satellite to satellite and grounded at teleports around the world
- Added redundancy and exceptional network availability

Iridium constellation with 100% global service area

Architecture of 6 orbital planes of 11 satellites each at 780 km altitude
Iridium NEXT Positions Us For the Future

- $3 billion, fully funded plan for next-generation system
- 66 new mission satellites, 6 in-orbit spares plus 9 ground spares
- Backward compatible with existing network and devices
- Expanded capacity and higher speeds through Iridium Certus℠ broadband services
- Successful first SpaceX Falcon 9 launch of 10 satellites January 14, 2017; next 10 satellites launched June 25, 2017
- Remaining SpaceX Falcon 9 launches scheduled 2017-2018
## Iridium’s Many Vertical Markets

Well positioned to address global MSS market needs

<table>
<thead>
<tr>
<th>Market Position</th>
<th>Iridium Advantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land/Mobile</td>
<td></td>
</tr>
<tr>
<td>Market leader with premium product offering</td>
<td>• True mobility</td>
</tr>
<tr>
<td></td>
<td>• Global coverage</td>
</tr>
<tr>
<td></td>
<td>• Reliability</td>
</tr>
<tr>
<td>Premium provider with rapid subscriber growth</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Global coverage</td>
</tr>
<tr>
<td></td>
<td>• Low latency</td>
</tr>
<tr>
<td></td>
<td>• Throughput</td>
</tr>
<tr>
<td></td>
<td>• Uniform global service</td>
</tr>
<tr>
<td>M2M</td>
<td></td>
</tr>
<tr>
<td>Value provider; large addressable market</td>
<td>• Global coverage</td>
</tr>
<tr>
<td></td>
<td>• Low cost</td>
</tr>
<tr>
<td></td>
<td>• Small antenna</td>
</tr>
<tr>
<td>Maritime</td>
<td></td>
</tr>
<tr>
<td>Market leader in GA; broadband opportunity</td>
<td>• Global coverage</td>
</tr>
<tr>
<td></td>
<td>• Low cost</td>
</tr>
<tr>
<td></td>
<td>• Small device</td>
</tr>
</tbody>
</table>
Strong U.S. Government Relationship

While Iridium’s current subscriber base is ~90% commercial, USG was our first customer and remains our largest today

• Serves all DoD branches and US Government agencies
• Strong 15-year relationship under DISA EMSS program
• Unique capabilities
• Subscriber growth of 10% in 2016
Iridium’s Spectrum Neighborhood

- Iridium currently licensed to operate in 1617.775-1626.5 MHz
- 8.725 MHz total spectrum to provide uplink and downlink service links
Regulatory and Business Evolution of Mobile Satellite Service (MSS)

- 1994- FCC adopts the Big LEO Order to designate spectrum for Mobile Satellite Service (MSS) operations, including Iridium’s
- 1995- Iridium obtains satellite authorizations
- 1995-96- Ligado launches satellites
- 1998- Iridium completes launch of first constellation
- 2001- FCC starts rulemaking to create Ancillary Terrestrial Component (ATC) rules
- 2003- FCC adopts ATC Order which sets rules for licensing and operation of ATCs, including requirement that ATC operations protect satellite (§ 25.255)
Regulatory and Business Evolution of Mobile Satellite Service (MSS)

- 2004- Ligado obtains FCC approval for ATC authority
- 2007- FCC revises Big LEO band plan to reallocate spectrum among Iridium and Globalstar to provide additional spectrum to Iridium
- 2009-2011- Ligado seeks additional waivers of the ATC technical rules, FCC grants Conditional Waiver Order
- 2012- Following rounds of testing and NTIA raising unresolvable interference issues, FCC seeks comment on suspending the Conditional Waiver Order and Ligado’s ATC authorization
- 2012- Ligado files for bankruptcy
- 2015- Ligado files a new series of applications with the FCC seeking flexibility for its terrestrial operations
Interference to Iridium Caused by OOBE from Nearly Adjacent Terrestrial Network

• Billions of dollars of investment made in reliance on a satellite spectrum allocation in adjacent bands (unlike 2 GHz Band flexibility)

• ATC decision based on “ancillary” operations included regulatory decision (47 C.F.R. § 25.255) that terrestrial operations would not interfere with MSS operations

• Ligado’s proposed network will potentially deploy millions of mobile devices transmitting just 1 MHz away at 1627.5-1637.5 MHz from the spectrum that Iridium utilizes for all of its critical uplink and downlink satellite services, including SATCOM aviation services

• Ligado’s OOBE result in unwanted emissions in the Iridium band and cause interference to Iridium services
Maureen C. McLaughlin  
Vice President, Public Policy  
Iridium Communications, Inc.  
Maureen.McLaughlin@iridium.com