

True Broadband Air-to-Ground In-Flight Connectivity

**WAEA Technical Committee
Meeting**

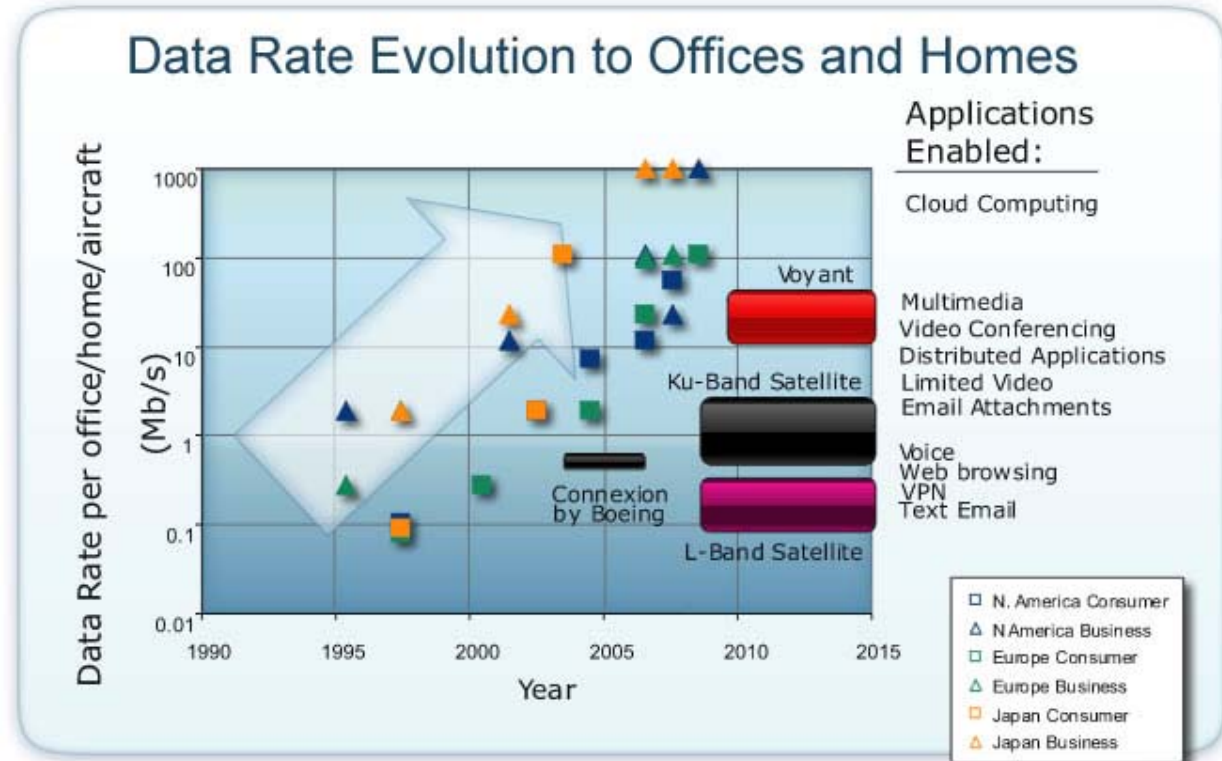
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Evolving Consumer Expectations

- Suppliers must provide sufficient bandwidth to meet consumer expectations for 10 years
- Solutions must be able to scale at a reasonable cost
- What will be the next killer app for end users?
 - History shows that, whatever it is, it will be bandwidth-consuming



Passengers want to be almost as connected in the air as they are in their homes or offices.

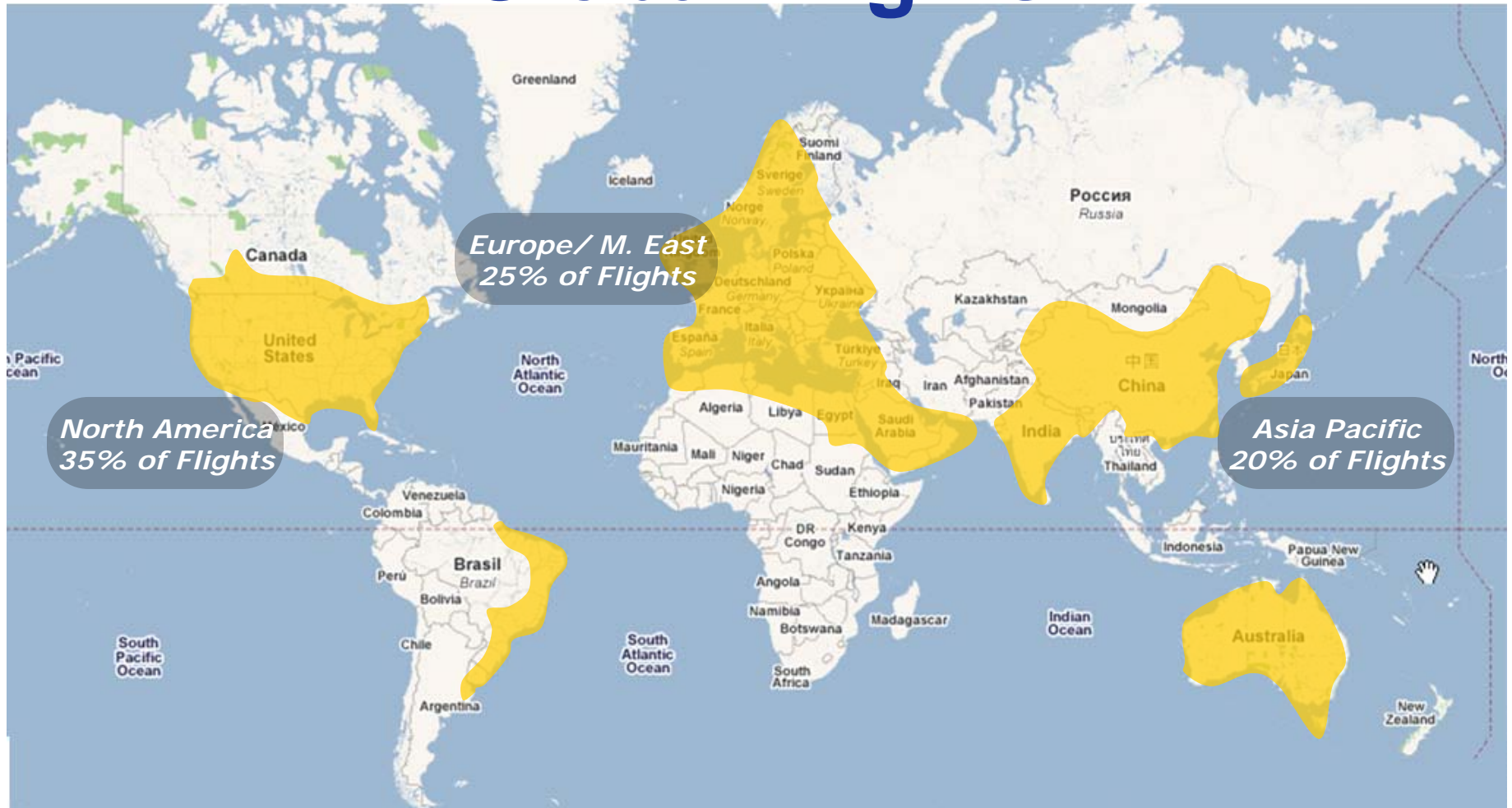
Passenger Requirements

- We must deliver *true* broadband connectivity to their personal devices
- Passengers want an experience comparable to passengers' homes and office environments
- Passengers want to stay connected, informed and entertained
- Access costs cannot be more than those at Hot-Spots, hotels and other Internet access venues

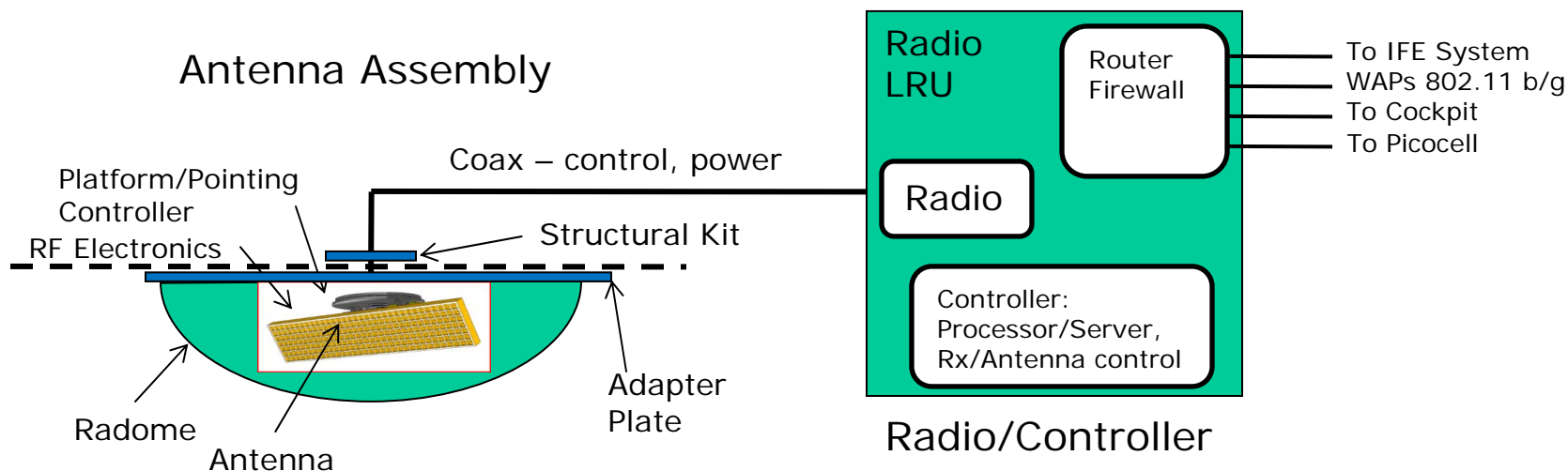


* At carrier's and regulatory discretion; some services not currently permitted in U.S.

ATG Addresses Over 80% of Global Flights

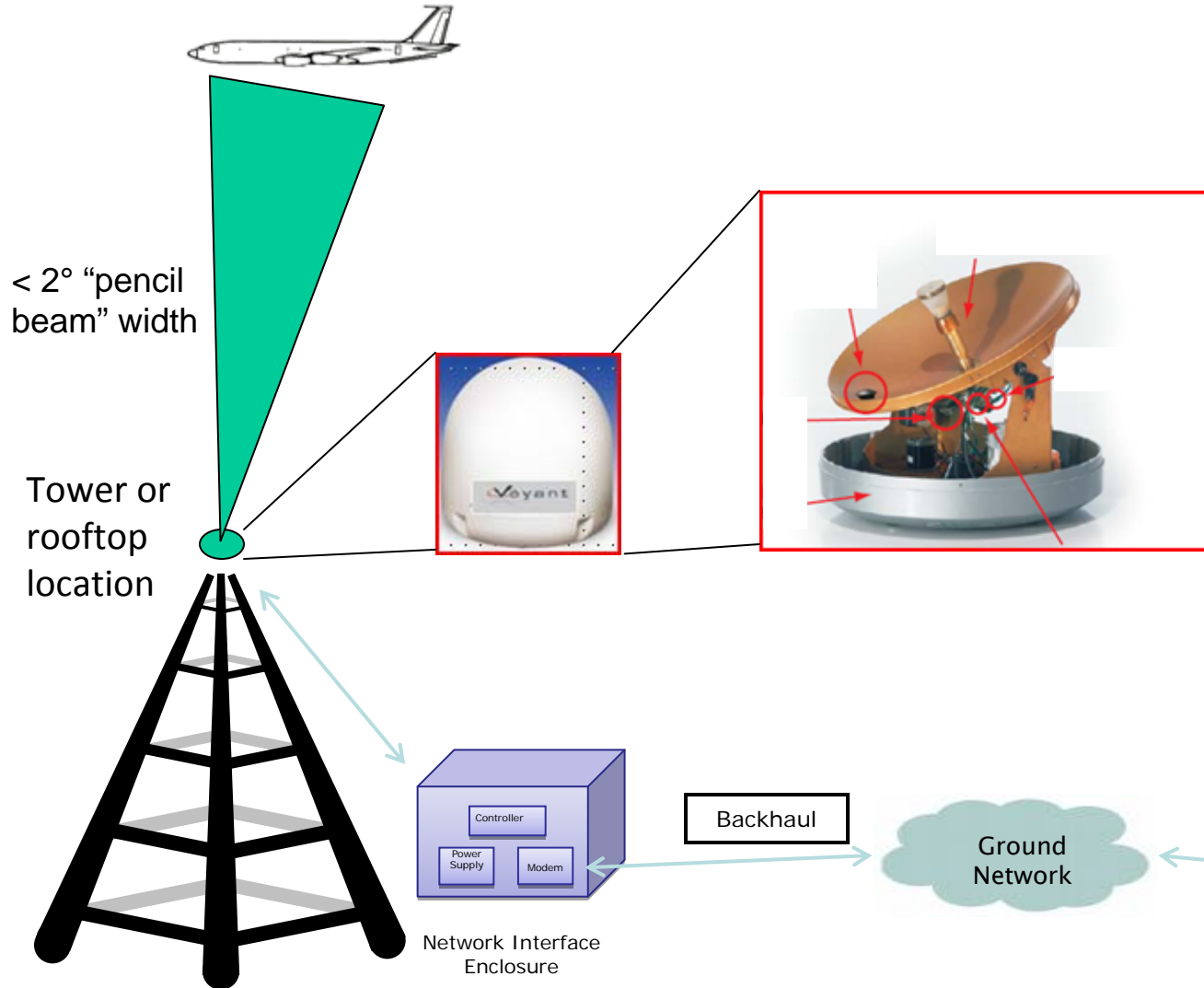


Aircraft Equipment

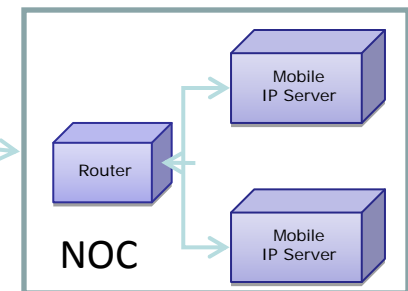


Total airborne equipment weight: ~40 kg

Ground Architecture



- One tracking antenna serves one aircraft at a time
- Horizon-to-horizon Coverage
- Connectivity from 10,000 ft to 45,000 ft
- Provides up to 35 Mbps per aircraft
- Cover a continent with ~300 locations and ~2000 antennas



For more Information:

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