



Aeronet Global Communications Inc.,
Corporation Trust Center, 209 Orange Street,
Wilmington, New Castle, Delaware 19801
Registered in Delaware – 5440011

October 5, 2017

Via Electronic Filing

Marlene H. Dortch, Secretary
Federal Communications Commission 445 12th Street SW
Washington, DC 20554

Re: Ex Parte Presentation, *Use of Spectrum Bands Above 24 GHz for Mobile Radio Services*, GN Docket No. 14-177; IB Docket No. 15-256; RM-11664; WT Docket No. 10-112; IB Docket NO. 97-95.

Dear Ms. Dortch:

On October 4, 2017, Brian Russell and Ivor Fitzpatrick of Aeronet Global Communications Inc. and Roger Sherman (Waneta Strategies) met separately with Commissioner Michael O'Reilly and his Legal Advisor, Erin McGrath; Commissioner Brendan Carr and his Legal Advisor Kevin Holmes; Rachael Bender, Legal Advisor to Chairman Pai; Louis Peraertz, Senior Legal Advisor to Commissioner Clyburn; and Holly Saurer, Legal Advisor to Commissioner Rosenworcel, all regarding the above-referenced docket.

During the meetings, and consistent with the attached presentation, Aeronet described its innovative technology for delivering high-speed broadband connectivity to ships and planes, as well as its ongoing efforts to test its proposed systems. Aeronet emphasized the suitability of the E band (71-76 GHz, 81-86 GHz, 92-95 GHz) for this application and urged the adoption of final rules that would allow Aeronet to operate in the E band, subject to appropriate coordination.

Pursuant to the Commission's rules, a copy of this notice is being filed electronically in the above-referenced docket. If you require any additional information please contact the undersigned.

Sincerely,

/s/ Brian Russell

Brian Russell

Aeronet Global Communications Inc.

Attachment

cc: Erin McGrath
Kevin Holmes
Rachael Bender
Louis Peraertz
Holly Saurer



OVERVIEW - AERONET

04 Oct 2017

consumers want a connectivity experience 'like at home'

airline and cruises ship owners want operational efficiencies from real time IOT data

BUT

volume of passengers and IOT sources = huge bandwidth demand for a single small location



110-190 passengers
1:2.5 contention
450-750Mbps



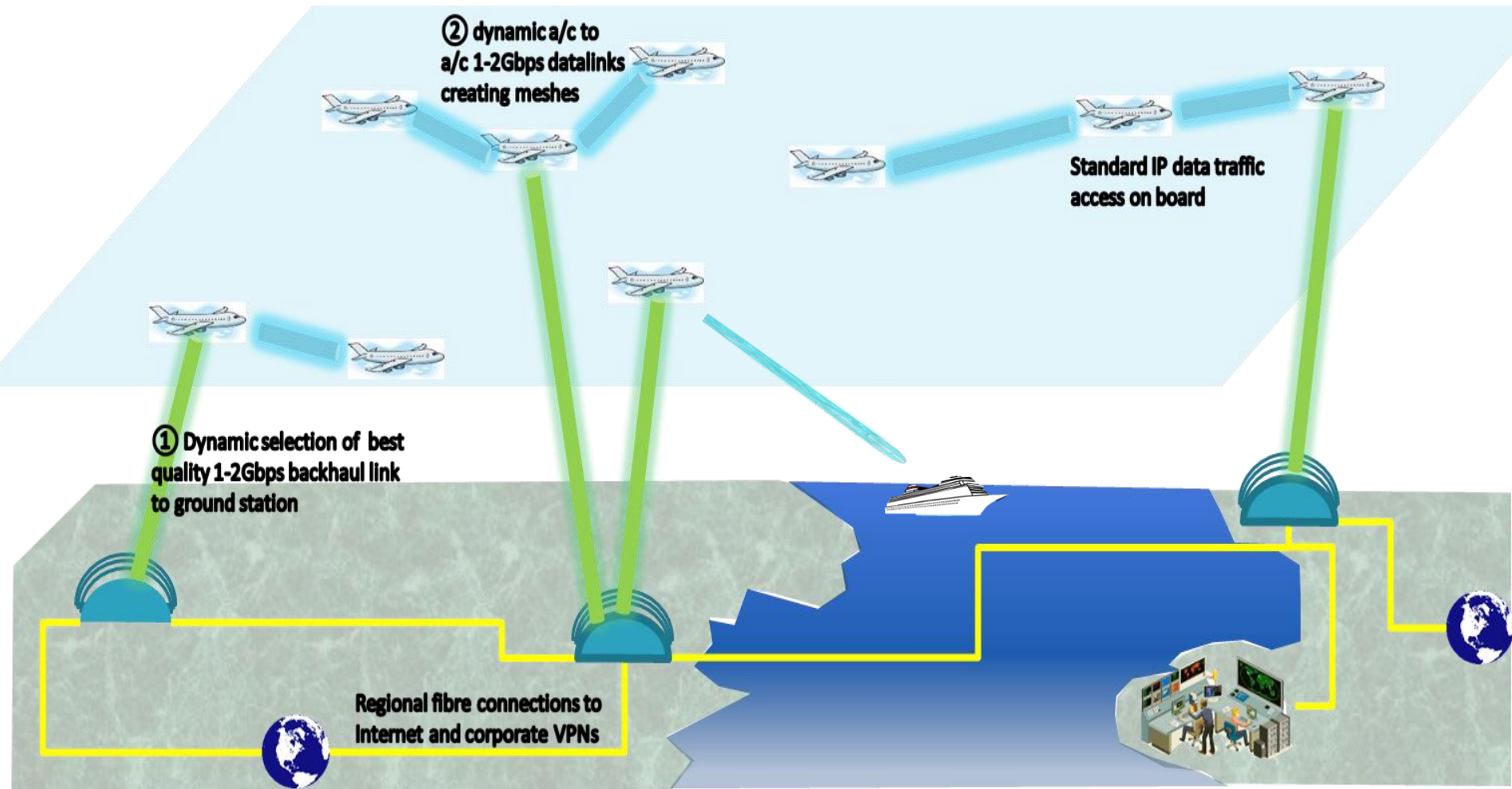
300-800 passengers
1:5 contention
600-1,600Mbps



1900-4000 passengers
1:20 contention
950-2,000Mbps

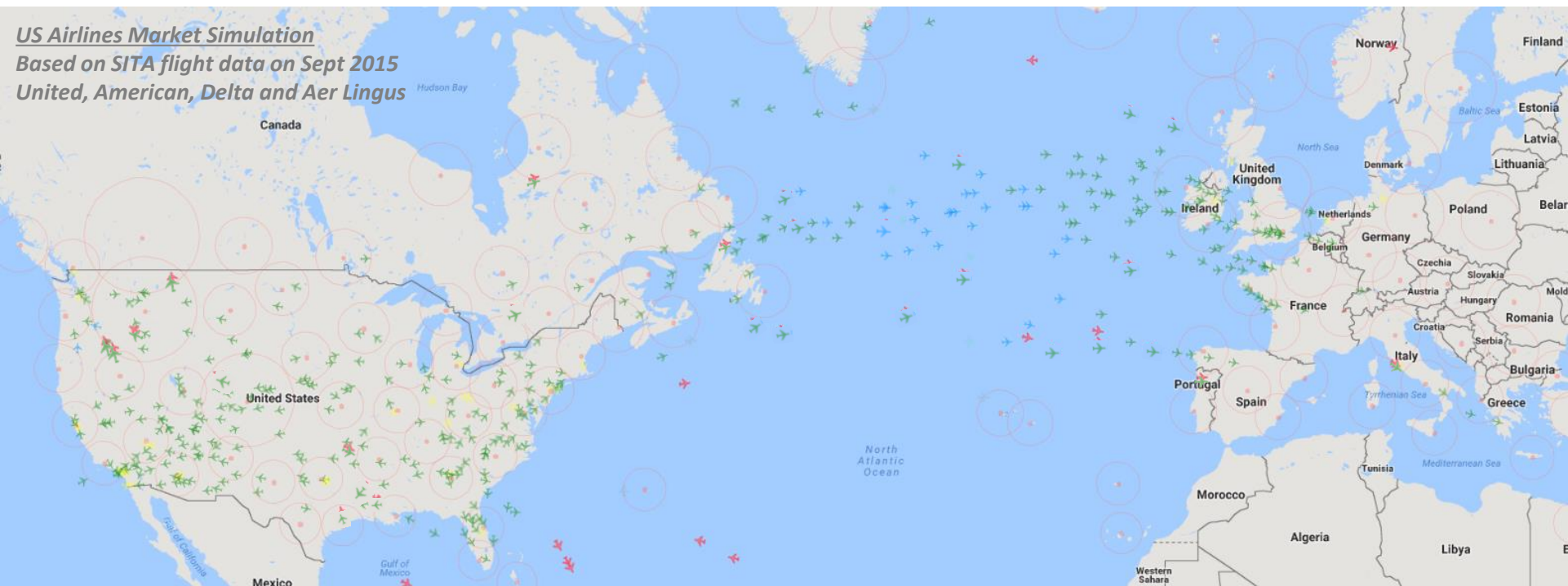
Solution

dedicated high capacity, low latency, line of sight datalinks provided on neutral wholesale basis



- Scheduled – the target vehicle for service follows a known and pre-planned route
- Dynamic – while the vehicle moves, the end consumers are static onboard
- Datalinks – point to point narrow radio beams akin to terrestrial fixed links

| | |
|-----------------|---|
| Maritime Market | 12Mn cruise liner passenger capacity in North America across 109 ships in 2016, forecasted to growth 0.8Mn per annum. |
| Aviation Market | London School of Economics - Global connectivity based passenger ancillary revenues of \$66bn in 2028. Forecasted 13,200 connected Aircraft by 2025 in USA/Europe alone. |
| Other | Knock on benefit for terrestrial long range Gbps fixed links from Aeronet second generation technology. |



1. separated 3D polygons for terrestrial fixed link users
2. angular separated 3D cones for ground - aerial vehicle datalinks
3. nationwide assigned frequency channel licenses within set altitude ranges



- narrow beam widths supporting angular separation mechanisms
- aviation use benefits from highly directional beams which ensures targeted bandwidth delivery
- propagation losses ensure very limited signal leakage
- ITU designation and FCC allocation for mobile service as a primary use
- light license regimes in place across a majority of the globe
- uncongested spectrum band, large enough to support high speed broadband services
- incumbent fixed link user volume is low, although will rise in dense population areas
- incumbent fixed link users spatial separated through their terrestrial usage
- significant volume of bandwidth allowing for frequency separation mechanisms