

Iridium Satellite Update



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Chair – RTCA SC-222 AMS(R)S

ISPAGC – May 4 – 8th Brisbane, Australia





Iridium Satellite – Efficient and Safe in the Air, Anywhere



66 orbiting LEO satellites (485miles orbit) that provide seamless coverage to all aircraft. 14 spare satellites in orbit.

Iridium has been offering AMS(R)S services since 2010 and our partners have equipped thousands of aircraft in the global airspace.

Iridium is committed to aviation and to AMS(R)S cockpit safety.



Iridium Certus AMS(R)S



Iridium Certus AMS(R)S Program Status

- 1) FAA Evaluation Workbook updated with support of FAA
- 2) TSO for first Iridium Certus terminal achieved December 2025 by Rockwell Collins
- 3) STC for initial aircraft in process now with FAA and UK CAA – June 2026 target
- 4) First aircraft should be operational in the NAT in June and later in South Pacific
- 5) Confirmed aircraft tails, start dates and FIR operations will be available soon.



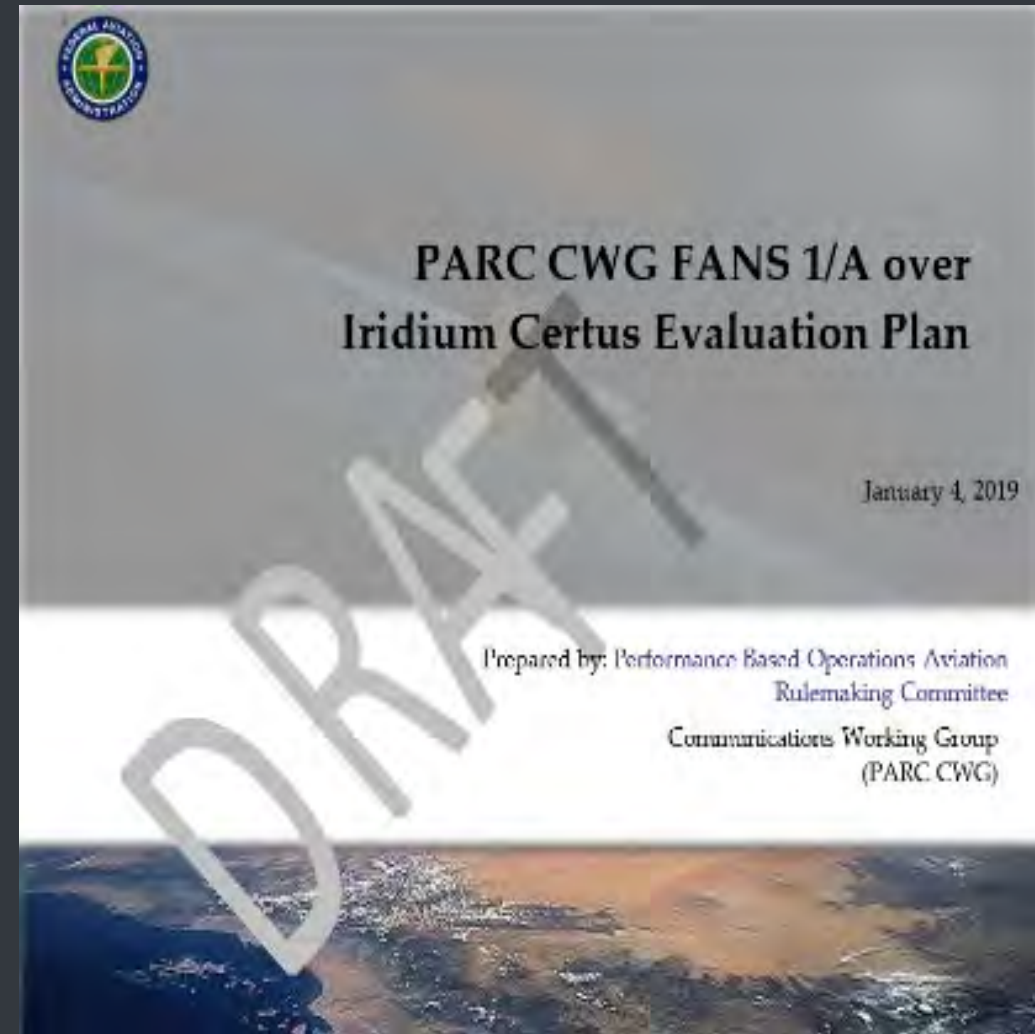
FAA Iridium Certus Evaluation Plan - DRAFT

The evaluation shall be conducted against Required Surveillance Performance (RSP) 180 and Required Communication Performance (RCP) 240

- Quantity: 75,000 messages (min)

In addition, ATS Safety Voice shall be evaluated against RCP 400V requirements

- Quantity: 1,000 voice calls (min)





Certus AMS(R)S Aircraft Participation

Iridium and our partners have been working with various aircraft operators for inclusion in the Certus FAA Evaluation.

First aircraft will be cargo operators – STC in process (7+ aircraft)

- Boeing 767F and 777F

Discussions are also on-going with several major commercial airlines to support the Certus Evaluation (737Max, A320, A330). Business deals in process now with discussions. Opportunity for 10 additional aircraft in late 2026 possible with more in 2027

Iridium welcomes other operators who maybe interested – STC support and 12 months free service

Details will be included in the Certus Evaluation Workbook very soon.



ISPAGC contacts for Certus Data Collection

- Action at ISPAGC/FIT 2025 to obtain contacts at all ISPAGC ANSP for data collection
- Email outreach will be done in come week to confirm contacts and to outline plans to the following:
 - Airways New Zealand
 - Fiji Airports
 - SEAC-PF
 - DGAC Chile
 - NiuSky Pacific
 - USA – FAA
- Appears several FIRs are missing where aircraft could operate in ISPAGC
- Michael.Hooper@iridium.com is the contact at Iridium if there are any questions.
- Timing for first aircraft to operate in ISPAGC airspace is late Q3/Q4 2026 so we have time.



Certus Technical Performance



Certus Testing by SITA - Best Case

Safety Data Performance Metrics from 07-Jan-2025 19:45:23 to 31-Jan-2025 23:59:48

Over 250K messages exchanged

Avionics to satellite to Gateway to SITA routers:

- A2G AES Message Creation Time to CNP Ack Creation Time 95.0% latency: 1.4 sec
- A2G AES Message Creation Time to CNP Ack Creation Time 99.9% latency: 2.8 sec

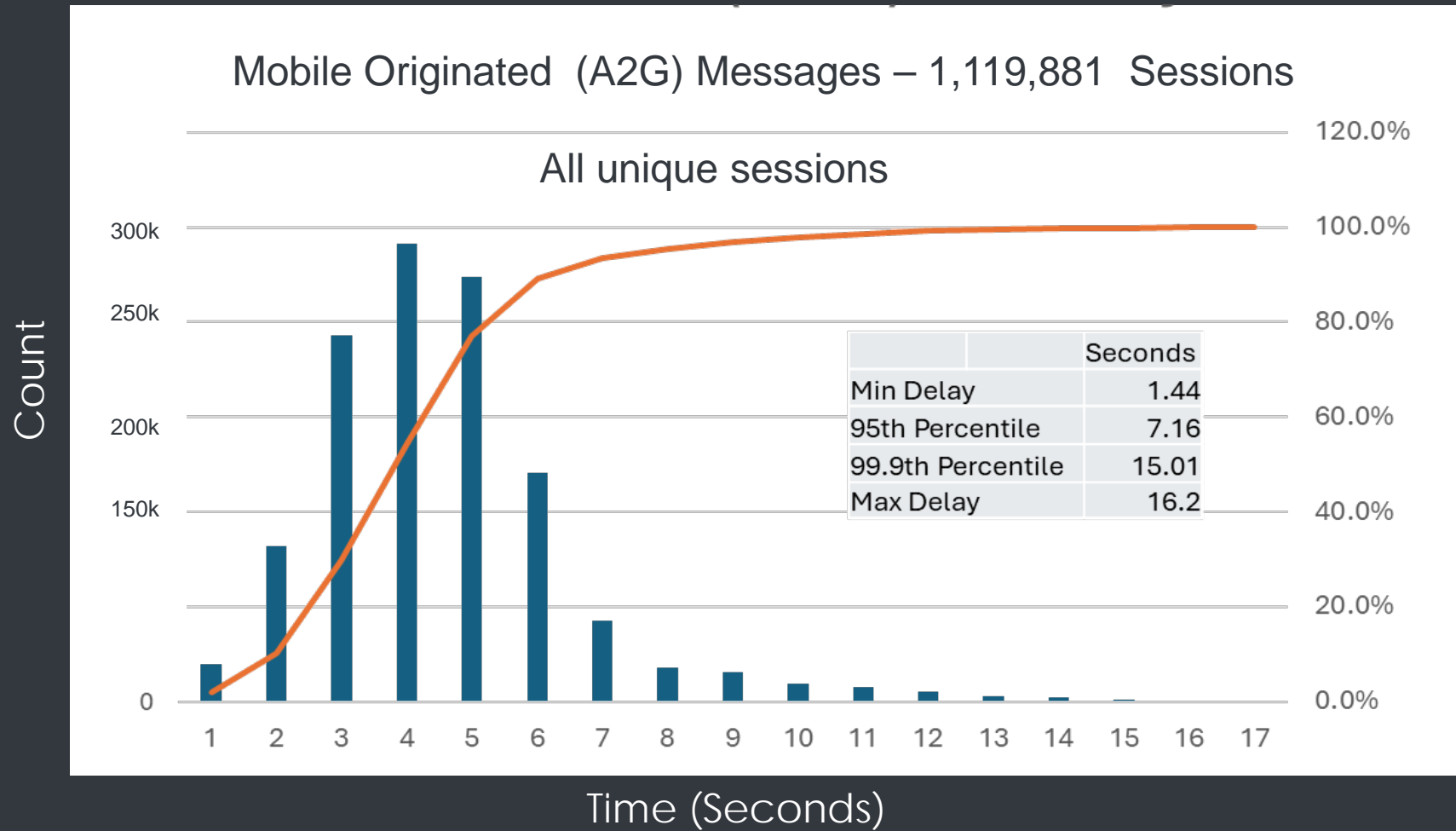
- G2A CNP Message Creation Time to AES Ack Creation Time 95.0% latency: 1.1 sec
- G2A CNP Message Creation Time to AES Ack Creation Time 99.9% latency: 3.3 sec

Certus in-session results are very impressive!



Certus Technical Performance

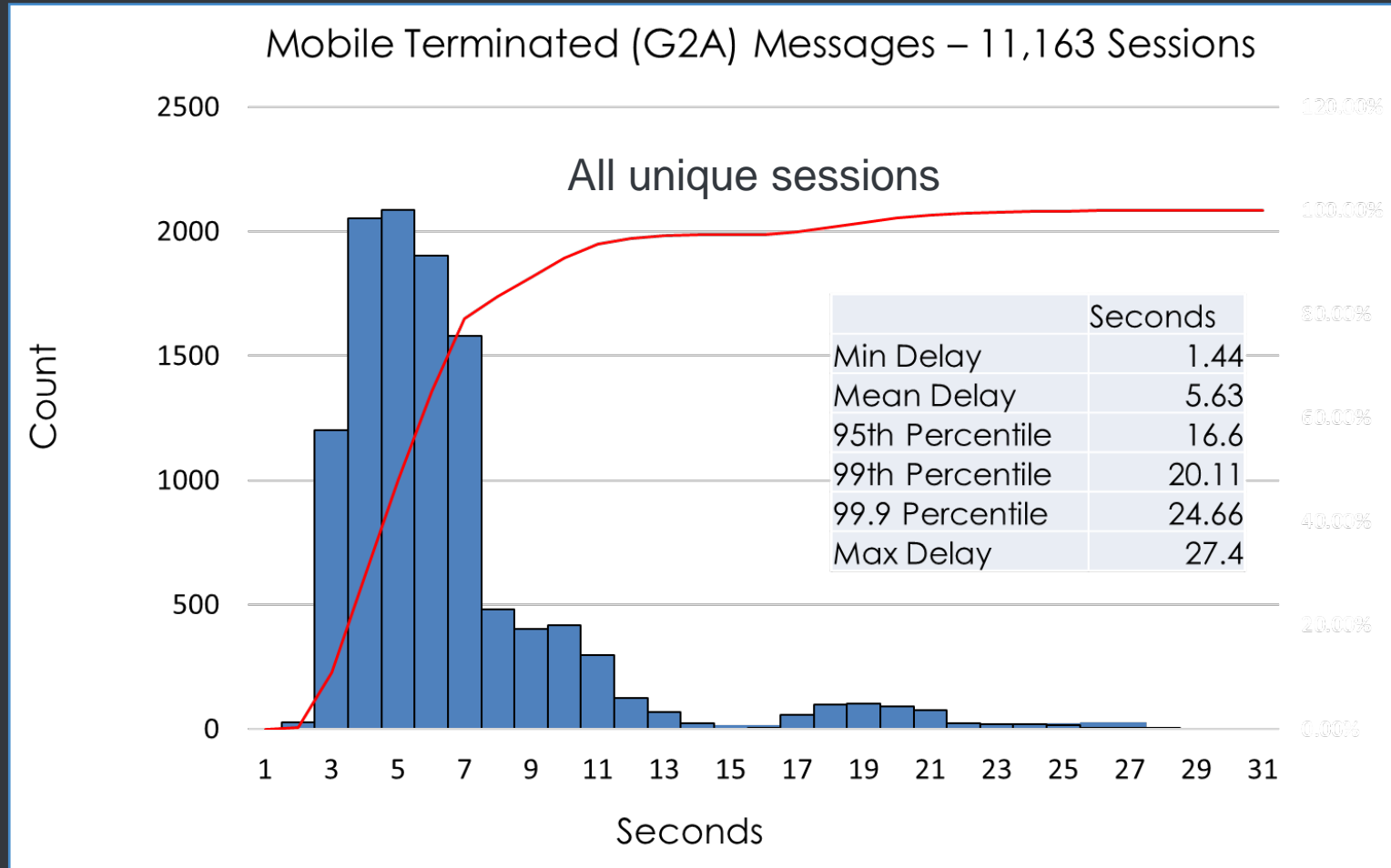
Mobile Originated (A2G) Latency – Worst Case





Certus Technical Performance

Mobile Terminated (G2A) Latency – Worst Case





Iridium Certus Network Update Timing for RCP130/RSP160

Iridium has a program in process for the required system updates to enable the technical performance required to meet RCP130/RSP160.

The required updates are:

- 1) Iridium ground ANC
- 2) Satellites (very minor – turn on a “switch”)
- 3) Iridium transceiver firmware

The new ANC and firmware will be delivered by end Q2 2026. Testing will begin in our TSC where we have simulated satellite connectivity. This testing will have the satellite updated included.

Testing will take approximately 6 months or until end of 2026.

Final transceiver firmware will be issued by end Q4 2026

First aircraft possible flying with updated firmware will be in Q2 2027.

Upgrade path for existing avionics - no changes to the DO-262/ED-243 MOPS – only STC paperwork on Iridium firmware level required.



Contact me with any question.

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