

CANADIAN SPACE BASED ADS-B OUT PERFORMANCE REQUIREMENTS MANDATE







ADS-B MANDATE OVERVIEW

- Safety benefits
 - Improved emergency response for tracking and locating aircraft in distress;
 - Increased ATC situational awareness;
 - Improved accuracy of aircraft position and trajectory;
 - Earlier warnings/alerts of unexpected aircraft deviations.
- Common surveillance technology
- > Transport Canada concurrence received

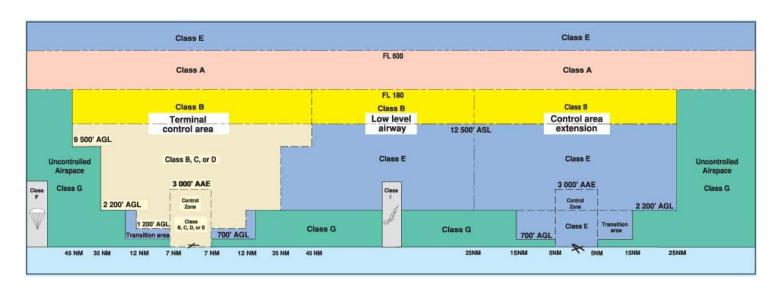


IMPLEMENTATION PHASES

<u>Phase 1</u> implementation date is January 1, 2021, Class A airspace, and Class E airspace above FL600;

Phase 2 implementation date is January 1, 2022, Class B airspace;

Phase 3 no sooner than January 1 2023, Class C, D and E as needed following further stakeholder consultation.





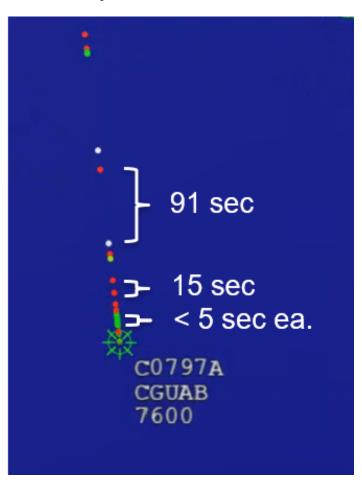
PERFORMANCE REQUIREMENTS

- The <u>performance standard</u> for Phase 1 and 2: DO 260, 260A, or 260B or equivalent including antenna diversity;
- From January 1, 2024, minimum avionics standard RTCA/DO-260B (equivalent to EUROCAE/ED-102A).



Space-Based ADS-B Performance Example Single and diversity Antenna

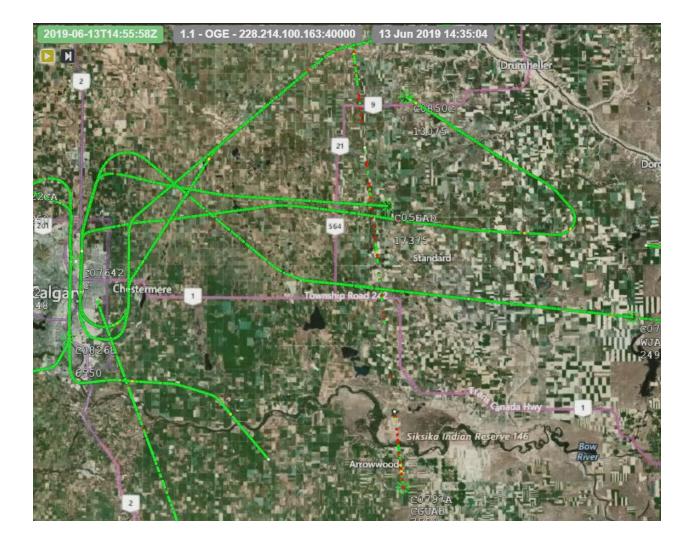
> Interpretation



- Green: 5 sec or less
- Yellow: 6 sec
- Red: 7 sec or more (ATC coasted target)
- White: More than 30 sec (ATC target dropped and re-acquired)
- Colour code based on elapsed time between previous position and this position (consistent with ATC systems)



Aircraft East of Calgary





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