

## Ken Alexander

### Chief Scientist and Technical Advisor for Satellite Navigation Systems



Ken Alexander is the FAA's Chief Scientist and Technical Advisor (CSTA) for Satellite Navigation Systems, with over 45 years of aviation experience in aircraft, avionics, missile, and satellite engineering, flight test, program management, international standards, special access programs, and international policy.

Mr. Alexander provides technical advice on requirements, design, performance, spectrum, machine learning, cybersecurity, and policy issues for Global Navigation Satellite Systems (GNSS), aviation augmentation systems, aircraft systems and FAA infrastructure systems. Mr. Alexander's technical contributions ensure continued backwards compatibility, improved performance, delivery of new capabilities, and protection of aircraft systems from spectrum interference and cyber threats.

Mr. Alexander chairs the ICAO Navigation Systems Panel and advises the ICAO Council as a member of the Council's Ad hoc Cybersecurity Coordinating Committee. Ken supports the Department of Transportation as the Senior Advisor for the National Space-Based Positioning, Navigation, and Timing (PNT) Executive Committee, Co-chair of the Committee's National PNT Engineering Forum (NPEF) with the U.S. Space Force and Co-chair of the U.S. and European Union GNSS modernization working group with the European Commission.

Mr. Alexander was instrumental in development of the initial National Space Based PNT Policy in 2004 and its 2021 update. Ken was a principal author of Executive Order 13905, Strengthening National Resilience through Responsible Use of PNT Services and principal contributor to Space Policy Directive 7, National Space Based PNT Policy.

Mr Alexander is the recipient of numerous military awards, the ICAO Certificate of Merit from the President of the ICAO Air Navigation Commission, the Secretary of Transportation's Silver Award for exceptional leadership, Partnering for Excellence Award, and the Secretary's 2023 Award for Advancing U.S. Leadership at ICAO and Furthering Aviation Safety Standards.

Mr. Alexander has over 3,500 flight hours as a U.S. Air Force transport pilot and holds a commercial, multi-engine transport pilot rating. He earned a B.S. in Electrical Engineering and an M.S. in Engineering from the University of Louisville. Ken is a member of the Institute of Navigation (ION) and the Association of Old Crows.