

# The MITRE Corporation

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### Airspace Alerting and Avoidance System (A3S) Could Reduce Airspace Violations

**N**ew and continuing security concerns have prompted an increasing number of temporary flight restrictions, as well as other types of national security related airspace restrictions, which have resulted in thousands of violations and warnings issued to pilots. MITRE's Center for Advanced Aviation System Development (CAASD) funded research into Airspace Alerting and Avoidance System (A3S) prototypes and is transferring the results of their work to industry and aviation system users.

CAASD's A3S prototype provides in-flight updating and enhanced situational awareness for flight crews. This technology could significantly reduce the number and severity of restricted area violations caused by navigational or pre-flight planning resulting from pilots' errors.

#### Applications

This technology can be used by commercial and military aviation industries.

#### Benefits

This system provides real-time direction on how to best avoid temporary flight restrictions. Increased awareness should reduce the number of violations of these restrictions.

#### Additional Information and Links

Stock T., 2004, "Data Link-Supported Low-Cost Airspace Alerting and Avoiding System" [www.mitre.org/news/events/tech04/briefings/1496.pdf](http://www.mitre.org/news/events/tech04/briefings/1496.pdf).

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