



Exploring Potential Ads-B Vulnerabilities in the FAA's Nextgen Air Transportation System (Paperback)

By Donald L McCallie

Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. The Federal Aviation Administration's (FAA) Next Generation upgrade proposes a fundamental transformation to the national airspace system (NAS) that aims to reduce dependence on outdated radar infrastructure, increase airline safety and reduce required aircraft spatial separation. A key component of the upgrade is the Automatic Dependent Surveillance-Broadcast (ADS-B) system. ADS-B provides continual broadcast of aircraft position, identity, velocity and other information over unencrypted data links to generate a precise air picture for air traffic management. Official documents claim operational requirements necessitate unencrypted data links while maintaining that there is a low likelihood for malicious exploitation. This paper studies the security vulnerabilities associated with the ADS-B implementation plan and develops a taxonomy to classify attacks and examine potential impacts the attacks have on overall NAS operations. The taxonomy helps provide a comprehensive understanding of the threats associated with ADS-B implementation and facilitates risk analysis and risk management.



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