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An ADSB Security Implemented for Data communication Using Ad-Hoc Network

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ABSTRACT

Data communications are currently considered as a key enabler in the modernization of the aviation industry. Current aircraft are becoming equipped with advanced data communication capabilities, whereas the aviation stakeholders are seeking for new communication solutions to face the increasing air traffic load. Thus, we can expect to see large scale aeronautical ad hoc networks which could be used to meet those needs in the near future. This paper discusses the security issues to be addressed in routing protocols defined in the scope of aeronautical ad hoc networks. Existing routing approaches are briefly discussed, then a secure geographical routing protocol for future aircraft ad hoc networks is proposed. Finally the protocol is formally verified and its performances are discussed.

KEYWORDS: Big Data, Health Care Systems, Electronic Health Records