

## ABSTRACT

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*IGS (Integrated Ground System) is a web-based application that used by dispatchers, pilot, tech team, engineers airline, and document manager. The IGS function to control all activities on avionics system. Until now it doesn't have a defensive system to make this secure, someone who doesn't have any permission to access can through or access it. So someone can take or looking for the information contained in IGS. It would require a defense mechanism in the web server settings to install SSL which creates an official certificate admin, and Kerberos authentication (on client side and server side) which can restrict permission or granting permission for multiple user to access. From the result of the system are made can be taken : The system provides secure network connection with maintaining servers from threats unauthorized user to gain access to input of retrieve the information that existed at the IGS, and a user who already has access to information can insert aviation activities in the IGS.*

*Keywords: Security, Web Authentication, Integrated Ground System, Secure Socket Layer, Kerberos*