

## RESTRICTED

### ABSTRACT

Information security (IS) is arguably more important than it ever has been before, due to the developments in modern technology. It is of paramount importance to Sri Lanka Air Force (SLAF), as a technical force, to maintain the highest confidentiality and security of sensitive military information to project its military capabilities in order to meet the national expectations during war and operations other than war. The SLAF has gained higher levels of expertise in Information and Communication Technology enhancements good enough to provide an efficient and effective service to the organization. Parallel to the advancements, a threat has also developed, increasing the vulnerability of the sensitive information in SLAF. Therefore, this research intends to identify the factors that affect the maintenance of IS in the field of telecommunication in SLAF. Initially, an intense review of literature has been carried out on the study area, and the researcher intends to investigate the related factors that influence IS in an organization. Based on the literature review, the researcher has developed the conceptual framework, which consists of six independent variables and a dependent variable. Based on the independent and dependent variables, hypotheses have been developed. The sample of the study is chosen from the telecommunication field personnel of SLAF. Mixed method has been used to collect data; a questionnaire survey and face to face interviews. Judgment sampling technique in purposive nonprobability sampling method is used in this research. Thereafter, collected data, analysed using SPSS software, were presented in tabular formats, graphs and charts. Frequency analysis has been carried out for each independent and dependent variable, and formulated hypotheses were tested through correlation analysis. Since the hypotheses are accepted, the researcher reached the conclusion that the derived factors have an impact on the IS in the field of telecommunication of SLAF. Therefore, it is recommended that SLAF to concentrates highly on the factors derived by the research, in terms of the security of information in the telecommunication field.

**Key Words:** Information Security, Information Warfare, Telecom Network Security, Human Factor Behaviour, Internal Organization Security.