



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

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Introduction

Department of Immigration and Emigration (DIE) is a major government organization in any country. Proving that the Department of Immigration and Emigration in Sri Lanka is one of the oldest and busiest government organization in Sri Lanka. The regulation of entry and exit of people from country, citizenship service, safeguard the national security and order and contribute to the national economic are some of the major objectives of this department.

Reason to implement an Information Security

Management System in DIE

Department of Immigration and Emigration is a large and highly important government organization. With a process of handling the entry and exist of people in country and providing citizenship services, the organization itself handles a large number of data which are highly personal and secure.

In order to handle that amount of large information, the organization has a complex network infrastructure and a storage system. At the same time about six hundred user machines daily operates in this organization. All the immigration and emigration related services in Sri Lankan Nation Air Ports are directly connected with the intrastate in this organization premises.

Since this organization hold sensitive data and critical infrastructure, all those data, Network and storage system needs to be secured and maintained in well defined, industry standard method. Most importantly this organization must have a legal obligation under the Data Protection Act.

Since ISO 27001 is an international standard for information security management. It implements the necessary controls in place to manage or eliminates threats which allow to gain the customer trust, it is highly recommended to implement ISO/IEC 27001 information security and management in Department of Immigration and Emigration

Advantages of implementing ISO/IEC 27001 based Information Security Management System

Use of ISMS

- Ensure the confidentiality, integrity and availability of data and information.
- Allows to accomplish the international benchmarks of information security.
- Provide fast detection and recovery from data loss or leakage.
- Improve the credibility and trust among other business parties.
- Raise an awareness through the entire business or organization for information security.
- It is a defensive mechanism to any advance persistent threats, which can minimize the impact of external threats.

Use of standardization

- The assurance of right people, processes, procedures and technologies are in correct place is provide by ISO 27001.
- ISO 27001 ensure the date and information integrity, availability and confidentiality.
- Risk management and Rick analysis.
- Provide a common framework for organizations and business, which allow ease in management and monitoring.

Limitations in ISMS

- Must prepare a complete security management strategy and required proper planning and implantation.
- Require expert knowledge.
- Poor performance and bugs reduce the reputation of the implementation.
- The performance depends on the hardware capabilities.
- Selection of a wrong certification body can cause issues.