

Information Security Development

Information Security

Information security is set of processes and measures for development of meaningful knowledge relation mediating rational social interaction; interaction based on probable social relations having continuity.

Meaning of knowledge is based on management of global risks. There are build the global and historical dimensions of social. The continuity of meaningful knowledge relation is the basic question in information security. It may, regarding the form of rationality, have foundation on values, instrumentality or probability based continuity (Mäkinen, 2008, Mäkinen, 2008/13, Mäkinen, 2009/14).

In modern society interaction exist primarily in organization and information society services. In the former ones the objective of information security is to protect **valuable** knowledge assets and to preserve their value. At information society services is not developed social structures supporting information security. Between the global and historical dimension of social exist no specific connection but such is build on foundation of information security (Mäkinen, 2009/10, Mäkinen, 2009/11).

Information Security presupposes a Governance system (Information Security Management System, ISMS, ISO 27001). Information security together with knowledge governance are in organization central and in information society service most central governance systems. Knowledge governance is directed for development and maintenance of knowledge resources and information security for preserving their value.

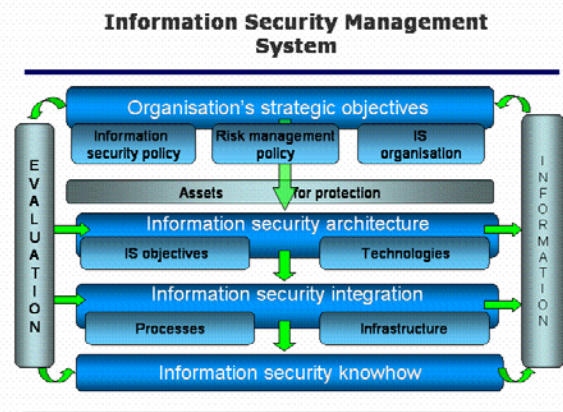
Knowledge development environment

Environment where knowledge creation, transfer and development takes place is significant from the point of view of knowledge development process. This consists of processes, interaction in them, physical environments and communications

networks. These are, additionally to knowledge, assets which must be protected by information security activities. Information security is realised, implemented and applied in processes of organisation or information society service. Practical information security know-how is also created in those processes.

Information Security Management System (ISMS)

Standard series ISO/IEC 27000 defines Information Security Management System, requirements (ISO 27001), procedures (ISO 27002), risk management (ISO 27005) and information security measurement (ISO 27004). Standard's starting point is development of information security both regarding information security objectives and risks. Information security is relative to an acceptable risk level.



Information security management system is according to standards specified for organization. Also processes in organization and information society services presuppose ISMS (Mäkinen, 2008, Mäkinen, 2009/10).

Information security management system consists of specifications for information security and risk management policies, information security architecture and application of these into practice through process integration and information security know-how. System includes processes - as

security evaluation and security information management - by which it is continuously developed and improved.

Risk management

Modern world is a risk culture. Social action is based on equilibrium of acceptable risk and trust. In information society the knowledge relation, foundation of social, is global (Mäkinen, 2008, Mäkinen, 2008/13, Mäkinen, 2009/14). Social is based on explicit risk management and probability evaluation.

Risks are identified and specified. According to this are planned activities against risks.

In addition to Information Security Management System organisation and information society service must have a Risk Management System. By this system is arranged a systematical treatment of risks which foreshadow activity.



Risk management's starting point is action and knowledge strategy and according to them specified emphasis of risk assessment. In risk assessment is defined a risk profile which consists of probability and consequences of risks.

Management of security information

Management presupposes procedures for evaluating information security, assessment of risks and management of information connected with these.

Information Security Management System is based on information security evaluation

and risk assessment. Systematic information gathering makes possible the continuous development and improvement of the system.

Management of information security information includes

- information security and risk evaluation,
- management of information security incidents,
- information security measurement and
- information security audit.

Information security development

Information security development presupposes:

- Definition of management's responsibilities in information security evaluation and decision making,
- Development of risk management and assessment,
- Development of information security management system,
- Definition of information security capability, audit and continuity.

Literature

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