

Information Society Service Model

Information Society

Information society considers the change of social interaction environment into global. Interaction is in every case based on communication between humans, knowledge relation (Mäkinen, 2009/14). In information society its foundation develops into global knowledge relation based on forms of knowledge and functions in communications network.

Social and knowledge relation have a global and a historical dimension. The former is based on risk and the latter on continuity of social action in probable social relationships. Forms of knowledge relation have corresponding forms of interaction. Information, communications network and information society services are global. Information society diverges from other social formations on ground of this property (Mäkinen, 2008, Mäkinen, 2008/6, Mäkinen, 2008/13).

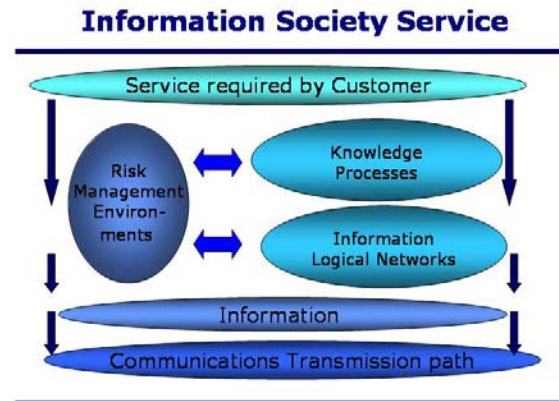
Knowledge, organization's processes and their logical communications network are spatiotemporal environments. Information is independent of spatiotemporal dimensions and can be divided concurrently into knowledge assets in different processes of several organizations. Knowledge relation corresponding it in communications network may, as transmission path, be delivered concurrently between several organizations' network environments, processes and services (Mäkinen, 2008/13).

Forms of knowledge are forms of knowledge relation in continuous social relationships. Knowledge represents the continual rational selection based on consideration of global knowledge presented conceptually; globally transferable form of knowledge whose relation to spatiotemporal dimensions is probable.

In information society service continuity may constitute several global dimensions of social relationships. Social structure, as organization, is constituted of dominating continuous social relationship. This means change in management, communications

network, knowledge and information processing, knowledge development and information security (Mäkinen, 2008, Mäkinen, 2008/13, Mäkinen, 2009/11, Mäkinen, 2009/14).

Information Society Service



Information society service consists of:

- spatiotemporally independent information and transmission path service uses,
- historically developing risk management environments of interactive knowledge required by processes and conceptual information delivered in communications network,
- specifications of processes according to knowledge required, also tacit knowledge and network information,
- specification of logical network environments processes require.

The creation and management of knowledge forms a value creating network which carries several value creating processes. Processes maintaining the environment are essential from point of view of production.

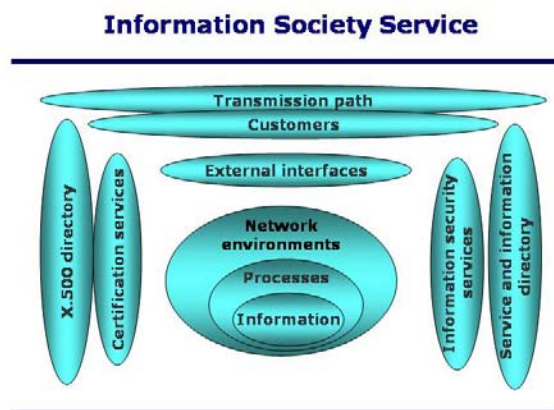
Organisation's Interface

In information society service networked service itself is the basic unit in production (Mäkinen, 2009/11). In organization this presupposes definition of interfaces for information and its operations environment in external and internal usage. These must be defined according to knowledge creation

and development as assets to be protected in information security management system.

Communications Interface

Information society service is implemented in communications network. It is distributed social relation. Social relationships presupposed by this rationality are implemented by communications services based on identification, authentication and non-repudiation. These build Binding. On basis of it are formed social relationships (Common Criteria, Mäkinen, 2008, Mäkinen, 2009/7).



The technical foundation of information society service is a technologically coherent transmission path where is no difference between local area and wide area networks. A general information security solution for network does not exist but it is formed in information society services (Mäkinen, 2008, Mäkinen, 2008/3, Mäkinen, 2009/7).

Information society services have no centre. Services must be developed and maintained independently of each other – when they at the same time are in connection with each other, can duplicate information contents and chain them according to non-hierarchical logic.

Knowledge Governance systems must be able to manage knowledge contents considering all forms of knowledge and interaction managed in social process (Mäkinen, 2009/7).

The foundation of information society service is a logical network. From the point of view

of information security must be build a Binding. It contains requirement that user – personal user, node, service – is never directly connected with object of network but the connection is formed by subject. Subject identifies and authenticates parties of service and authenticates the non-repudiation of connection. Binding forms by these properties information security contents, risk management environment, into a socially non-structural information and communications network. Technical solutions which build the binding are logically equivalent; they differ only in administration and by risk management (Mäkinen, 2008, Mäkinen, 2009/10, Mäkinen, 2009/11).

Information security solutions must be reachable and acceptable for parties developing services together. This is based on globally transferable information security profiles (Common Criteria), which are available by information society services mediating them (Mäkinen, 2008, Mäkinen, 2009/7).

Literature

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