

Knowledge Management System Security

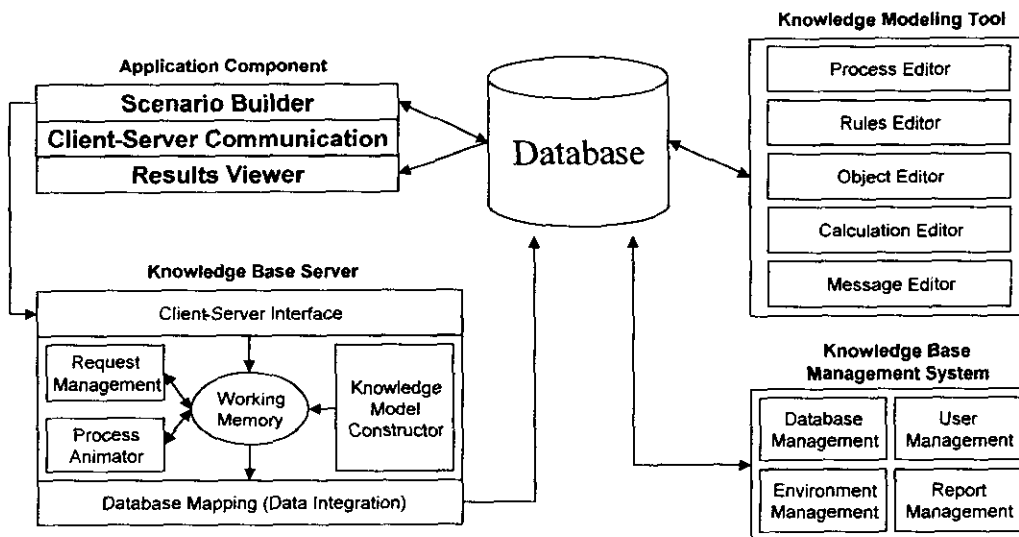
Technical and legal issues of security in knowledge management.

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What is KMS?

- KMS = DW + DM + DBMS + Interface
- Knowledge (collection of information) is the biggest asset.
- Knowledge Management
 - Knowledge Generation
 - Acquisition, synthesis and creation of knowledge
 - Knowledge Codification
 - Classification
 - Filtering
 - Authentication
 - Knowledge Transfer
 - Intelligent interface
 - Systematic distribution

Examples of KMS Components



Source: TAPS KMS
Dickson Lukose, Brightware

KMS Security Concept – Technical

- KMS core network should be private
 - Grant access to general public through internet
 - Core service (intellectual asset) requires Mandatory Access Control (MAC)

- Security Protocol
 - user authentication and registration is mandatory
- Internal secure messaging (i.e. email) should be available.
 - Content security management based on ownership and read-write permission
- All documents should have separate read and write permission assignment
 - Separation of duties (read, write, modify, view)
 - User management by group to facilitate management of collection and object permission
- Security through obscurity
 - User *not* authorized to view should not be aware of existence of documents or objects