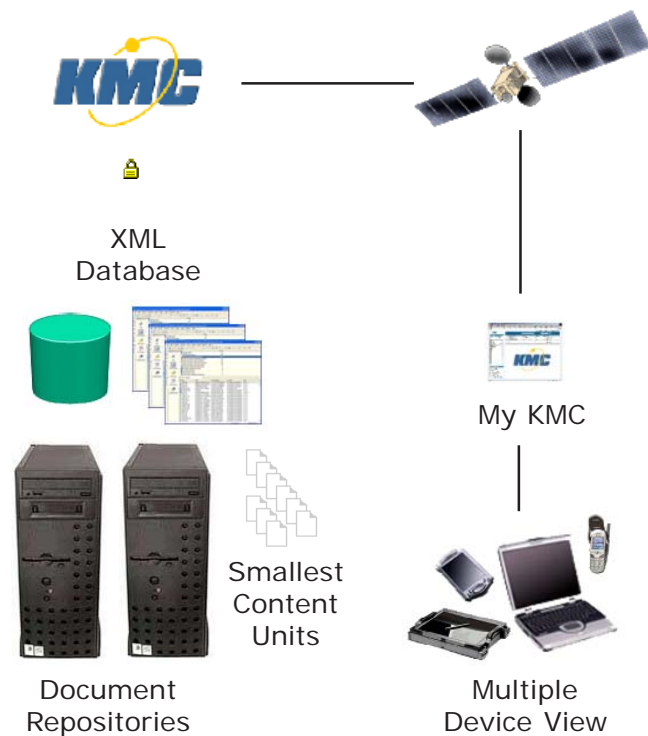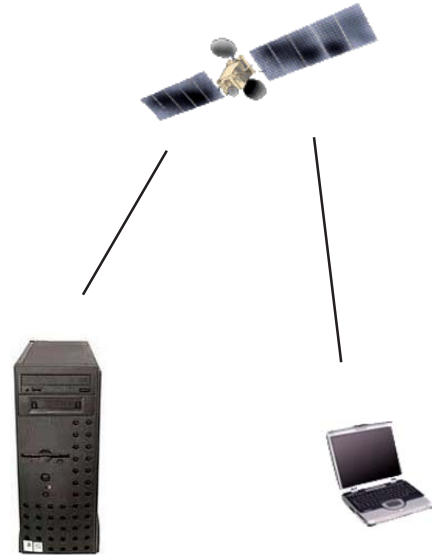# Knowledge Management Center

Drawbacks of current document repository systems

In current document repositories, information is stored in a poorly structured database of documents, and data that is immediately relevant to a particular situation can be lost. This type of database lends itself to problems such as:

* Duplication of data

* Difficulties in accessing information in a timely manner

* Limited versioning control

* Difficulties viewing on different types of devices

* Difficulties accessing over slower network connections

* Limited control over who has access to the information

* Ineffective keyword searching

XML
Database

Smallest
Content
Units

Document
Repositories

My KMC

Multiple
Device View

Highlights of the Knowledge Management Center

The Knowledge Management Center overcomes all of these problems. It gives users instant and secure access to documents and other information stored in the central KMC database or other connected document repository systems

* High Security

* Data transfer is dictated by network speed

* Content is dictated by device detection

* Content is stored as seperate units of information

* Documents are viewed through custom XML templates

"XML transformation is the key to the KMC system because it allows users to access the right information faster. This information is translated into knowledge rather than just content."

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SCU
Smallest Content Units

What is an SCU?
Documents are created using templates in an XML editor. As blocks of information are written or inserted into the document, they are tagged and saved in the database as the "Smallest Content Units." We refer to each block as an SCU.
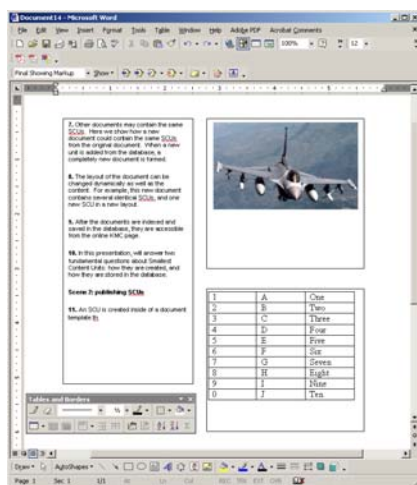
SCUs are actually separate XML documents that are brought together to form a complete document through templates and style sheets. To keep track of how complete documents are formed, the KMC records all of the relationships between templates and SCUs in the database.

Benefits of using SCUs
Each SCU is tagged with information that will help identify it in the KMC database (such as author, date, file location, version, and history). Other information that specifically describes the SCU is saved as well: The SCU could be tagged for high security clearance, or if there is a lengthy text description, it may be tagged for summarizing before viewing. If there is a high resolution image in a content unit, it may be automatically tagged for displaying only over fast network connections.

Manipulating SCUs
The KMC XML editor allows users to quickly create, edit, or save documents using different SCUs. The editor displays a list of local SCUs available to the user, and the properties of these SCUs dictate how the user can use them. When the content is changed, a new version of the SCU is added to the database so other documents that use the same SCU are not necessarily affected.

KMC XML Editor for manipulating SCU layout in the XML style sheets

Inserting SCUs into a document

Editing SCUs

Saving SCUs to the database

Tracking SCU Changes

Smallest Content Units

XML Style Sheets

Individual XML Documents Saved in the Database

My KMC
Navigating the Knowledge Management Center

Overview
The MyKMC document & SCU navigation system allows users to view all of the information in the system.

Access
Users can log onto the KMC from many different devices. The system automatically detects the device type and connection speed so that it can send the appropriate information to the user. After loggin in, the user can see a list of their personal folders, common folders, alert folders, and shared folders in the server. The list of files in the folder is shown in the left window, similar to any file explorer with a common directory tree structure.

Viewing
Selecting a file allows the user to view the document directly in their viewer (browser).

Navigation
Navigating the relationship between SCUs allows users to access the right information faster. By viewing the way each SCU is indexed in the system, users can drill down to the information that they need. We can select an SCU for use in the creation of new documents, or to view other documents that also use the SCU, or to simply browse related SCUs