

complex, multi-applications, distributed model. This model is based upon management of variety proprietary file formats stored in a closed repository, while at the same time; the meta data is stored in a proprietary database/management application. It is virtually impossible to maintain such a model over many years.

2.2 Olive XML Enables Future-proof Preservation

Olive's digital preservation model is the only model that provides a solution for the critical challenge of long-term digital document preservation. The solution is based on the idea of a complete separation between the content and its corresponding technology and data base free meta data management. Rather than dependency on risky binary formats and on proprietary binary data base that maintains the meta data index separately, Olive converts the documents and the metadata into unified XML repository whereby the ~~is~~ stored in a platform independent file system.

XML is the only format that can guarantee long-term document preservation, since it is an ASCII-based, open-standard, free of proprietary binary codes.

Olive's XML content preservation model increases the longevity of content during technological changes. This ensures that the content will be portable and compatible with any operating system and hardware platform both today and in the future. Olive's XML was adopted and is currently being used by OCLC and hundreds of publishers, enterprises and libraries around the world.

2.3 The PrXML Concept

Olive's XML architecture is based on ~~our~~ PrXML schema. The PrXML schema is principally a comprehensive page and document description language that maps the original document's content, style and hidden intelligence in an open source XML format.

PrXML defines text, meta-data, structure tags, styling data, file properties, user knowledge data, hyperlinks, graphics and image maps. The highly rich tagging nature of the PrXML schema enables the ability to restore the look and feel of the original documents (like PDF does for example) and at the same time provides flexibility to create customized views on demand (the XML main value), all within in any standard browser.

PrXML has been designed as a ~~physical~~ "Hyper Schema". A "Hyper Schema" is an XML schema that is not limited to a specific industry or domain but is situated "above" other schemas. By using a "Hyper Schema", users can easily transform content from the raw PrXML into any other industry schema standard on demand. This is easily accomplished by utilizing common filters and XML transformations (~~XSL~~). Known XML schemas for example are NITF, OAI, NewsML, ADSML, METS, PRISM-PAM and more. The advantage of this model is the ability to create an XML infrastructure that is not limited to a specific industry standard today but open to be adjusted on the fly to specific schemas