

## **The SharePoint Archival Information System: Designing OAIS Systems using Commodity Software**

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In this work we have investigated the possibility of building information repositories such as EPrints in the prevalent content management system Microsoft SharePoint 2010. A repository built within SharePoint would benefit from integration with existing organisation SharePoint implementations as well as reducing the need for specific repository software training. The OAIS reference model identifies six processes key to providing a preserved information archive for a designated community. We performed an assessment of SharePoint's standard functionality conformity with this specification and what customization would be necessary to bring an implementation to full conformity. We find that while SharePoint supports much of the basic structure of an OAIS through its document sharing support significant customization is necessary to fully support the OAIS specification including custom web parts for ingest and access functions. We present the SharePoint Archival Information System (SAIS) design as a basis for an OAIS conforming repository implementation in SharePoint integrating the necessary custom solutions.