



Executive Summary:

OpenText Team:

- Company: OpenText
- Website: www.opentext.com
- Tool: Info Archive.PDF
- Attending from OpenText
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Budget:

Initial budget price provided by OpenText was 285k, project price could approach 1 million depending on the amount of data to be converted and the required views of the existing data.

Project Background:

The current mainframe system was installed and placed into production in January 2006 to support the PeopleSoft (PS) implementation. Since the implementation of PS and other applications systems the applications on the mainframe system are no longer used but there is historical data that is continued to be referenced by various Divisions within the UCG. In the last two years several solutions have been reviewed, they range from:

- Purchasing a new mainframe and storage system
- On premise managed services
- IBM mainframe cloud solution
- Conversion of the current system to an Open System solution (Linux) Limited to a specific IBM mainframe operating system
- Purchase of a software conversion package allow for continued batch processing in a Linux environment
- Info Archive – data conversion and web page creation to view historical data

Risks:

The current system was installed in January 2006 (mainframe system and storage), support is no longer available from IBM for either the mainframe and storage system. Support is currently provided by Service Express and is limited to parts replacement. A system failure would result in the loss of historical data that is still referenced by HR, Revenue, Accounting and Budgeting.

Opportunities:

Overview of Mainframe Operations:

- Tech Specs
- Applications
- Customers
 - Business Needs



Brief overview of the items discussed with the Open-Text group. The discussions and information requested by OpenText centered on the technical aspects of the current mainframe and operating systems that are installed in the production LPAR.

Day 1: Review of the current mainframe system:

General discussion on how the mainframe was/is being used and an overview of what is currently available. No third-party application software is in use, which they have encountered in the past.

- Operating System Versions
- Current live applications - primary is Domestic Relations, License Master File entries
- Current use - historical information - HR, License File, PVA Data
- Discussion of different files (online and historical tape)
- Discussion of the CICS transactions available
- Discussion of the CICS BMS (Basic Mapping Screens) used to display data
- Discussion of the batch programs that are run nightly
- Discussion of Source file and batch file location (z/VM and CMS) depending on end user needs they may need source file listings as well as the listing of specific jobs that are run for the end user community in order to replicate this information request.

Info-Archiver Application options for extracted data:

- Use existing infrastructure
- Use cloud-based services
- Purchase new infrastructure

Open Text will provide information on all three options based on the needs of the Customer.

Day 2: Continued discussion on the data files available

- Provided file layout information on three different systems, License Fee, Budgeting and Employee systems for their review. VSAM file types, primary keys, secondary keys, naming conventions for fields, field data types
- Researched the current version of VSAM (Data access) provided by z/VSE which would be used for data extraction (ETL process)
- Provided current system usage by CICS transaction name to identify what transactions/data that is currently being viewed by the user community
- Provided overview of the batch processing that is being performed (user data requests)
- Provided directory listing of all CICS programs with a short description
- Provided directory listing of all JCL/Macro/Proc with a short description
- Provided conversion table for mainframe device/model of disks defined within the z/VSE system
- Provided list of mainframe disks defined for use by the z/VSE system
- Discussed the current tape backup process and informed them of historical information stored on tape. Our desire is to exclude processing historical tape data, they indicated that if the data can be restored to disk they can process/export the data if required.
- Provided production listings of files contained on the system and their size to allow them to generate an estimate of space required for the conversion of existing data



Day 3: Review of all data provided/requested

High level presentation of the web-based solution - home page with icons for the various systems that would have their data converted from the mainframe to an open system format. Continued discussion on the extraction method that will be used:

1. Cobol code generator - the record layout would be processed to create a Cobol record definition, the code then compiled and executed to produce converted file.
2. Use of the 'VSAM Connector' facility to perform the extraction

In both cases the output format would be XML, this will allow for the information contained in the record layout to be incorporated as meta data in the XML file they produce. This will preserve the information/description of the contents of the file layouts and eliminate the need to download and store them as flat files.

A discussion on the **next steps** was the last item covered on day 3.

1. The sample file layouts, CICS transaction counts, batch processing samples will be used to provide an estimate on the level of effort to convert the data. My impression is that this process is automated and fairly routine and can be setup to run as a batch job.
2. There is a basic/default view (web page) of the data that is generated, they do have the ability to customize the views with end user input. From the discussions they have a great deal of flexibility in creating web pages that present to the user different views. It becomes a decision on the complexity and the cost associated with building these views.
3. At this point OpenText will continue to evaluate the information provided to them to develop an overall plan on the level of effort required perform the basic extraction and conversion of data into their base web view. This process will take a couple of weeks for them to complete, and we will receive