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From: Ernestine Bryant, STOrage and RETrieval (STORET), Technical Project Leader (TPL), Systems Development Center (SDC)/Science Applications International Corporation (SAIC)

Subject: Minutes of STORET Technical Meeting

1.0 Purpose

A Meeting was held on December 2, 2003 at the SDC. The purpose of the meeting was to review and address the status of the STORET Project activities and resolve project technical issues.

2.0 Attendees

SDC

Ernestine Bryant
Joseph Wilson
Stephen Smith
Blythe Norris
Ganesh Thadkamalla
Dalroy Ward
Donna Hickling

EPA

Robert King, Task Order Project Officer (TOPO)
Lee Manning, Alternate TOPO (ATOPO)
Kevin Christian
Cary McElhinney

3.0 Discussion Topics

The following sections detail the discussions of the project tasks and associated Software Incident Reports (SIRs).

3.1 SIR Log

The attendees reviewed a list of project activities which were of relatively high importance. Preliminary and analytical work could begin immediately on the following activities:

- C Create mechanism to transfer preference and default data from one Organization to another.

- C Create STORET v2.0 installation compatible with Oracle 9i and Oracle 10g.
- C Establish Universal Result Units (URUs) and conversion factors for STORET units of measure.
- C Review SIR list of future issues for prioritization and description modification.

The following issues will be under considered for allocation in future meetings:

- C Incorporate current STORET Central Warehouse interface SIRs.
- C Modify Extract, Transfer, and Load (ETL) process to act only on changed records.
- C Examine the STORET Security Plan and Application Deployment Checklist (ADC), and update as necessary to reflect current distribution and future web services.
- C Aggregate the configuration information for all the STORET applications, including the STORET Web Registration Application.
- C Establish STORET Central Warehouse operational benchmark with Oracle 9i and 10g, and apply performance tuning as necessary.
- C Provide users the ability to generate metadata reports from the STORET Central Warehouse for individual Organizations.
- C Create Automated Data Logger result downloads for the STORET Central Warehouse.
- C Establish a strategy for Reference Table distribution.
- C Upgrade STORET Central Administration for STORET v2.0 compatibility.
- C Add Activity Date Ranges to the STORET Station Home Page result bar chart.
- C Create ability to view Binary Large Objects (BLOBs) outside of the Data Entry Module.
- C Expand BLOB storage to include other data types (e.g., Word, WordPerfect). Consider not automatically showing image in viewer.
- C Create a STORET Report Module report displaying Characteristic detail information from the reference tables.

- C Create a STORET Report Module report displaying Quality Control information such as incomplete results.
- C Create Extensible Mark-up Language (XML) tags for STORET data elements.
- C Provide access to Legacy Data Center Station information from the STORET Central Warehouse.

3.2 Web Services

D. Ward participated in a short discussion to answer questions about web service deployment at Research Triangle Park (RTP). The following is a summary of the discussion:

- C Java-based applications can be deployed at RTP. Java technology is currently used in applications such as EnviroMapper Service Finder.
- C The currently implemented architecture at RTP for web services includes Macromedia JRUN and Oracle 9iAS Rel 2 application servers, both of which are Java 2 Platform Enterprise Edition (J2EE) certified.
- C Oracle 9iAS Rel 2 should be used for Oracle database applications including web services accessing databases (e.g., STORET).
- C A more robust J2EE portal solution is forthcoming that will eventually replace JRUN at RTP.
- C JRUN and Oracle 9iAS test servers are available at the SDC.

3.3 Central Warehouse

The following decisions were made regarding BLOB functionality:

- C Change the link text to “Download your Document/Graphic now...”.
- C Change the screen caption to “You have requested a Document or Graphic”.

The following decisions were made regarding file compression and report functionality:

- C Remove the text “Create report download in zip format?” from the Download Result and Station Description pages.
- C Center the compression button and change the text to “Compress Data File Now”.

- C Make the zip download page identical to the Results and Stations Descriptions download pages with the exception of the link text which should read “Download your compressed file now...”. This includes possibly adding the file size estimate.
- C Retain the original file on the server after the user has chosen to compress the file. This will facilitate use of the “Back” button to access the uncompressed file.
- C Change time zone report elements to the title “Zone”.
- C The report size limits for the C2.0.1 release will remain unchanged at 30,000 Results and 40,000 Stations.

Oracle 9i with JServer will need to be on the production server for proper operation of the STORET Central Warehouse.

4.0 Action Item Summary

Number	Description	Date Issued	Status	Assignment	Date Completed
04-0001	Establish proposed schedule of deliverables not to exceed November 28, 2003.	10/09/2003	Closed	E. Bryant	10/29/2003

5.0 Next Meeting

The next meeting was scheduled for December 11, 2003, 1:00 p.m. at the SDC.