



**To:** Distribution

**From:** Stephen Smith, Technical Writer

**Thru:** Ernestine Bryant, STOrage and RETrieval (STORET), Project Manager (PjM),  
Solutions Delivery Center (SDC)

**Subject:** Minutes of STORET Change Control Board (CCB) Meeting

## **1.0 Purpose**

A CCB Meeting was held on May 17, 2005 at the SDC. The purpose of the meeting was to review and address the status of current project activities, resolve project issues, and ensure that activities are within the scope of the Job Assignment (JA).

## **2.0 Attendees**

Bryant, Ernestine - Project Manager  
Christian, Kevin - Job Assignment Manager  
Manning, Lee  
Munthali, Chimwemwe  
Thadkamalla, Ganesh  
Wilson, Eric

## **3.0 Discussion Topics**

- Action Items.
- Manual Database Installation.
- Taxonomy Update Utility.

### **3.1 Introduction**

Attendees opened the meeting with a summary of project activities and a status of open action items. The Software Incident Report (SIR) Log (Attachment A) and User Support Log (Attachment B) are included as deliverables with these CCB Minutes.

### 3.2 Manual Database Installation

There seemed to be a condition arising primarily with Windows XP operating systems where the STORET v2.0 installation disk is not able to recognize the presence of an Oracle database even though the criteria is satisfied. When this occurs, users may manually install and configure the STORET v2.0 database. With more frequent occurrences of this condition, the project team was directed to further test and document the manual installation.

### 3.3 Taxonomy Update Utility

L. Manning mentioned that the data file (i.e., EPA.out) he received from the United States Geological Survey (USGS) was more current than the publicly accessible Integrated Taxonomy Information System (ITIS) data. He observed six Form records with a rank id of 245 and thought they might represent the addition of a new Taxon Rank in the hierarchy. The addition of new rank in the hierarchy would break the `taxon_sort_code` rules in STORET and likely cause problems in STORET applications like the Data Entry Module, Report Module, and Taxonomy Update Utility. This can be handled by either eliminating such records, or demoting its rank and subsequent children to fit the ranks in STORET. A SIR will be created for future consideration.

The STORET Taxonomy Update Utility 2.0.3 Release notes were reviewed and the Business Rules, and Data Issues and Resolution sections discussed. The following comments were made:

- K. Christian requested a report of the characteristic names truncated during the process. A SIR will be created to generate a log of the truncated characteristics and add them to table TSRCHDUP.
- During `taxon_sort_code` generation, if the number of members of a rank exceeds its allowable limit, sort code generation will stop. Another alternative such as replicating the taxon sort code for the “violating” taxons and subsequent children may be a preferred alternative. A SIR will be created for future consideration.

K. Christian will run the utility with the latest publicly available ITIS data to evaluate the results. The results in detail will be discussed on May 25, 2005.

### 4.0 Action Item Summary

Action items and their status are as follows:

Number	Action Item	Assignment	Date Issued	Status	Date Completed
0001	Research VB.NET capabilities and provide response.	B. Norris	06/02/2004	Closed	09/08/2004

Number	Action Item	Assignment	Date Issued	Status	Date Completed
0002	Provide STORET team with copy of Dasler software.	B. King	06/02/2004	Closed	08/25/2004
0003	Provide BEACHES program with STORET architecture information (e.g., Entity Relationship Diagram, data definitions).	J. Wilson	06/28/2004	Closed	07/28/2004
0004	Run Extract, Transform, and Load (ETL) software week of July 12 <sup>th</sup> .	J. Wilson	06/28/2004	Closed	07/28/2004
0005	Provide copy of email discussing required changes to implement Uniform Resource Locator (URL) encoding for the Station Home Page.	B. Norris	06/14/2004	Closed	08/06/2004
0006	Send Report Module v2.0.3 deliverable.	S. Smith	07/28/2004	Closed	07/28/2004
0007	Include scripts to remove orphaned rows and nullify type_name column in TSRCHALS for next reference table upgrade.	L. Manning	07/28/2004	Closed	08/23/2004
0008	Investigate Integrated Taxonomic Information System (ITIS) data acquisition and supplementary data processing.	L. Manning	07/28/2004	Closed	01/12/2005
0009	Examine Native American Land (NAL) data for compliance to the Environmental Data Registry (EDR).	B. Norris	08/23/2004	Closed	09/08/2004
0010	Review structure of TSMNAICS table to see if it was expanded from its original source.	S. Smith	08/23/2004	Closed	09/08/2004
0011	Send Data Entry Module v2.0.1 deliverable.	S. Smith	09/08/2004	Closed	09/08/2004
0012	Prepare Entity Relationship Diagrams of the Central Warehouse and STORET Database for the National Conference.	B. Norris	10/8/2004	Closed	12/01/2004
0013	Prepare graphs showing results converted to target units for possible use at the National Conference.	S. Smith	10/08/2004	Closed	10/21/2004
0014	Email URL to access STORET Station Home Page and Extensible Markup Language (XML) stream to B. King.	B. Norris	12/01/2004	Closed	12/02/2004
0015	Update BLOBs on preformatted reports matrix for review at next CCB.	S. Smith	12/01/2004	Closed	12/16/2004
0016	Aggregate pertinent Reference Table SIRs for review and disposition.	S. Smith	01/12/2005	Closed	03/03/2005
0017	Schedule ITIS data load meeting.	E. Bryant	01/12/2005	Closed	02/16/2005

Number	Action Item	Assignment	Date Issued	Status	Date Completed
0018	Provide Practical Extraction and Report Language (PERL) and Statistical Analysis System (SAS) programs supporting ITIS data load to SDC.	L. Manning	01/12/2005	Closed	02/16/2005
0019	Add a comment to the ALL_TAB_COMMENTS view identifying the full name of each STORET and STORET1 table.	K. Christian	02/16/2005	Closed	05/04/2005
0020	Provide L. Manning a report of duplicate Display Names and Taxon Serial Numbers found in ITIS data.	G. Thadkamalla	03/23/2005	Closed	04/07/2005
0021	Send duplicate Taxon Serial Numbers found in data during development to L. Manning when duplicates are identified as Approved.	G. Thadkamalla	04/07/2005	Closed	04/21/2005
0022	Send duplicate display names to L. Manning when duplicates are within the same hierarchical branch.	G. Thadkamalla	04/07/2005	Closed	04/26/2005
0023	Provide rules and conditions for ITIS comment information extraction.	L. Manning	04/07/2005	Closed	04/26/2005
0024	Provide Report Module User Guide with Document/Graphic retrieval description.	S. Smith	04/21/2005	Closed	04/22/2005
0025	Provide list of display names truncated by the Taxonomy Update Utility.	G. Thadkamalla	05/17/2005	Open	

## 5.0 Next Meeting

The next meeting was scheduled for May 25, 2005.

## 6.0 Distribution

Name	Email
Bryant, Ernestine	
Christian, Kevin	Christian.Kevin@epamail.epa.gov
Manning, Lee	Manning.Lee@epamail.epa.gov
McElhinney, Cary	Mcelhinney.Cary@epa.gov
Szajgin, Tracey	
Wilson, Joseph	Wilson.Joe@epamail.epa.gov

## 7.0 Approval of Minutes

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Kevin Christian  
Job Assignment Manager

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Date



**ATTACHMENT A**

Software Incident Report Log



Software Incident Reports Since Last CCB - Period: 04/21/2005 - 05/16/2005			
System Version	Date Initiated	SIR Number	Description
R	4/21/05	1696	Remove hard returns from long text fields (e.g., comments) in the export reports to avoid unintentional line breaking.
R	4/21/05	1697	Automate the manual steps required for installation.
T2.0.1	4/21/05	1692	Create an Analytical Equipment (TSRANLEQ) maintenance area that is compatible with the P2.0 database.
T2.0.1	4/21/05	1693	Create a Field Gear (TSRFLDGR) maintenance area that is compatible with the P2.0 database.
T2.0.1	4/21/05	1694	Create a FIPS Hydrologic Unit (TSMFHU) maintenance area that is compatible with the P2.0 database.
T2.0.1	4/21/05	1695	Create an Error Message (TSMERMSG) maintenance area that is compatible with the P2.0 database.

Legend for System Version:

System Letter is concatenated with Version Number. System Letter Key:

R = Report Module, T = Central Administration/Reference Tables



**ATTACHMENT B**

User Support Log



User Support Log - Period: 04/21/2005 -05/17/2005			
Date Received	System Version	Issue	Response
4/25/05	R2.0.2	User receiving REP-1401 and ORA-06502 error when running Result Inventory Summary Report. Organization and Project are selected as only parameters; Organization seems to be associated with name Santee Cooper.	<p>Could not repeat this error. This Oracle error is generally associated with an attempt to violate a database constraint or variable definition. Used the latest copy of the Central Database provided to us for Extract, Transform, and Load (ETL) baselining and found a Santee Cooper Organization. It is a single project Org with ~350,000 results (see attached Santee Cooper report ResultInventorySummary20.pdf that was generated). Knowing this data is fairly current, but may not represent absolute current data, the following permutations were tried:</p> <ul style="list-style-type: none"> <li>- Organization with ~660,000 results across 72 selected projects (one project left unselected).</li> <li>- Organization with ~3,500,000 results, of which ~2,600,000 results are on ~230,000 Activities assigned to 1 selected project.</li> </ul> <p>The above tests exceed the user's data criteria, and were successful.</p> <p>As a possible cause, ensure user is using Report Module v2.0.3 or higher. Report Module v2.0.2 and prior had lower Project data restrictions for this report.</p>

User Support Log - Period: 04/21/2005 -05/17/2005			
Date Received	System Version	Issue	Response
4/27/05	P2.0	<p>User is receiving an error when trying to view Binary Large Objects (BLOBs) through the Data Entry Module.</p> <p>User cannot export the TSMBLOB table.</p> <p>Relatively recent environmental changes were upgrades to the Oracle 9i database and upgrades to Acrobat Reader 7.0.</p>	<p>04/28/2005 - Initial response given that the user support requests were received and the issues were being investigated.</p> <p>04/29/2005 - The two problems reported performing an export of the TSMBLOB table and utilizing the Document/Graphic functionality in the Data Entry Module are unrelated. Below are our findings for each condition:</p> <p>Export of TSMBLOB: There appears to be an incompatibility within Oracle 9i between sub-versions" of the database and client. For Example: performing an export of a BLOB table stored in a 9.2.0.5 database using a 9.2.0.1 client will generate the reported error. We suggest checking this condition and upgrading the client to an exact match of the database version.</p> <p>Document/Graphic functionality in Data Entry Module: This problem appears related to the Acrobat Reader version 7.0. A feature utilized for Document/Graphic functionality in the Data Entry Module is not supported and will no longer be available in Acrobat Reader 7.0 and higher (upgrade 7.0.1 has been verified). As a work-around, remove Acrobat Reader 7.0 (Add/Remove Programs is fine), and then reinstall Acrobat Reader 5.1 provided on the STORET v2.0 CD's. There are alternatives for a long-term solution that can be discussed.</p>

User Support Log - Period: 04/21/2005 -05/17/2005			
Date Received	System Version	Issue	Response
5/5/05	All	<p>Please provide comments on the functionality of the following tables.</p> <p>APP_HELP                      FORMS_HELP                      HELP_KEYWORDS                      HELP_RELATED                      TSMHUC                      TSRPROJSQ                      TSRRLIST                      TSRRPARAM                      TSMCHKPT                      TSMSCCTS                      TSMTBINF</p> <p>Follow-up email: Confirm if we really populating TSMTBINF with a description of the entire database, or only tables involved in replication?</p>	<p>Email Response:</p> <ul style="list-style-type: none"> <li>• APP_HELP -- Provides STORET Report Module association to the STORET Report Module Help.</li> <li>• FORMS_HELP -- Help Text and internal controls for the STORET Report Module Help.</li> <li>• HELP_KEYWORDS -- Keyword search tool for the STORET Report Module Help.</li> <li>• HELP_RELATED -- Controls related topics for the STORET Report Module Help.</li> <li>• TSMHUC is obsolete. TSMFHU now holds this drainage basin information.</li> <li>• TSRPROJSQ -- Controls sorting of project descriptions for the STORET Report Module.</li> <li>• TSRRLIST -- Controls the list of available reports, report categories, and report display hierarchy for the STORET Report Module.</li> <li>• TSRRPARAM -- Controls the available selection parameters for the STORET Report Module.</li> <li>• TSMCHKPT -- CHECKPOINT_INFO - Stores the identifier of the last row processed during replication process.</li> <li>• TSMSCCTS -- STORET_CDB_TABLE_SYNCHRONIZATION - Contains tables to be replicated.</li> <li>• TSMTBINF -- TABLE_INFO - Contains information about all the STORET tables like name, whether a table needs to be replicated, whether it is a standard table or not, etc.</li> </ul> <p>Table TSMBINF can probably be considered obsolete. This replication is associated with the Central Database Update Software (CDUS) that has been replaced by an export/import methodology.</p>

<b>User Support Log - Period: 04/21/2005 -05/17/2005</b>			
<b>Date Received</b>	<b>System Version</b>	<b>Issue</b>	<b>Response</b>
5/6/05	P2.0	Having trouble loading database using standard v2.0 installation from disk. Information message says that the system cannot detect the presence of Oracle even though it is installed; can only get Client-Server installation.	Walked through a check of Oracle primary home setting, registry entries, and system paths. All settings were appropriate and typical. Provided assistance performing a manual installation of the STORET database. The v2.0 installation disk needs to be used to finish the installation and install the Data Entry Module interface.

Legend for System Version:

System Letter is concatenated with Version Number. System Letter Key:

P = Data Entry Module, R = Report Module