



**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 June 8, 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  
Munthali, Chimwemwe  
Szajgin, Tracy  
Thadkamalla, Ganesh

## **3.0 Discussion Topics**

- Action Items.
- Reference Table Module.
- Data Entry Module.
- Report Module.
- Central Warehouse.
- 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 Reference Table Module**

A beta version of the Reference Table Module was reviewed and the following comments received.

- Ensure that the README file is separate from the zip file.
- Enable Insert, Update, and Delete functionality when row pointer is highlighted. This change will be implemented for the Characteristic maintenance area; other maintenance areas will be placed on a prioritized list and implemented accordingly.
- Expand on verbiage to logon and run the Update\_TSRUOM.sql script.
- Use Cascade for screen management.

### **3.3 Data Entry Module**

The project team will research and provide a level of effort estimate for disabling the Binary Large Object (BLOB) viewing capability. The project team will also investigate the feasibility of expanding the storage capability to include non-executable file types.

K. Christian directed the project team to update the installation documentation with additional details and steps for manually installing the STORET database.

### **3.4 Report Module**

New export reports will be created that match the Central Warehouse default download columns.

#### **3.4 Central Warehouse**

The ability to retrieve data based on Project ID commonality (i.e., National Projects) will be incorporated in the web-based system. The approach will be:

- Incorporate capability on the Project Selection pages.
- Provide a special Organization selection for National Project retrieval.
- List projects where the Project ID occurs in four or more Organizations.

- Retrieve data across Organizations for the selected Project ID.

Enhancements to the Extract, Transform, and Load (ETL) were requested as follows:

- Include a script to create indexes.
- Use DI\_CHARACTERISTIC table instead of TSRCHAR.
- If possible, move creation of alias tables to the beginning of ETL; use alias tables in ETL procedures instead of TSRCHALS table.

K. Christian requested an additional column to store generated Hydrologic Unit Codes (HUCs). For now, the new column will be populated with the HUC data submitted by users in STORET. HUC related filters will use the new column. Two new column selections (i.e., Generated HUC, Generated HUC Name) will be available for inclusion in the Station download. One new column selection (i.e., Generated HUC) will be available for inclusion in the Result downloads. Future implementation will use the Latitude and Longitude for the Station's Point of Record to derive the "Generated" HUC from an external source.

The project team was directed to implement off-line processing for large data requests. The implementation was determined as follows:

- Capture the Query Text, Request Mode, Email Address, Three Letter Code, Filename, Search Result Count, and Request Status in the DW\_DATA\_REQUESTS table.
- Permitted values for Request Mode are Batch, Deferred, and Online.
- Permitted values for Request Status are New, Progress, Failed, and Completed.
- Generate the name for the batch or deferred download file by concatenating a three alphanumeric character code provided by user to the beginning of the file name used for online processing (e.g., SDR20050208\_141135).
- Change generation of date time stamp for the file name to be when user submits request rather than when report is executed.
- Report the filename and Uniform Resource Locator (URL) as confirmation on-screen and also by email.
- Separate the limits for station and result downloads. Maintain the limits by global variables. Implement three ranges: First range is for online downloads, second is for Deferred or overnight Batch processing as selected by the user, third is for Batch processing only.

An option for future implementation was discussed. Provide user a list of Characteristics for the filter selections made on the page. Name the feature Characteristic Inventory. Limit the entries in the lookup to 50 Characteristics. Allow multiple Characteristic selections. This feature would be in addition to Search.

### 3.5 Taxonomy Update Utility

Modifications and enhancements to the Taxonomy Update Utility were requested as follows:

- Generate Taxon Sort Codes for ranks that exceed the length limit using the Taxon Sort Code of the last taxon within the limit.
- Process Integrated Taxonomic Information System (ITIS) taxons associated with ranks not defined in STORET. Add/update the STORET database as necessary. Generate Taxon Sort Codes for these taxons using the Taxon Sort Code of the parent taxon.
- Create a report of ITIS Names truncated to 60 characters.
- Create a report of ITIS taxons rejected for inclusion in the STORET database (ex. invalid parents).

### 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
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

Number	Action Item	Assignment	Date Issued	Status	Date Completed
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
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

Number	Action Item	Assignment	Date Issued	Status	Date Completed
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	Closed	05/17/2005

## 5.0 Next Meeting

The next meeting was scheduled for June 22, 2005.

## 6.0 Distribution

Name	Email
Bryant, Ernestine	
Christian, Kevin	<a href="mailto:Christian.Kevin@epamail.epa.gov">Christian.Kevin@epamail.epa.gov</a>
McElhinney, Cary	<a href="mailto:McElhinney.Cary@epa.gov">McElhinney.Cary@epa.gov</a>
Szajgin, Tracey	
Wilson, Joseph	<a href="mailto:Wilson.Joe@epamail.epa.gov">Wilson.Joe@epamail.epa.gov</a>

## 7.0 Approval of Minutes

\_\_\_\_\_  
Kevin Christian  
Job Assignment Manager

\_\_\_\_\_  
Date

**ATTACHMENT A**

Software Incident Report Log

Software Incident Reports Since Last CCB - Period: 05/17/2005 - 06/07/2005			
System Version	Date Initiated	SIR Number	Description
C	05 25 2005	1706	Add a column to store the generated Hydrologic Unit Codes (HUCs). For now, the new column will be populated with the HUC data submitted by users in STORET. HUC related filters will use the new column. New column selections (i.e., Generated HUC, Generated HUC Name) will be available for inclusion in the Station download. A new column selection (i.e., Generated HUC) will be available for inclusion in the Result downloads.  Note: Future implementation will use the Latitude and Longitude for the Station's Point of Record to derive the "Generated" HUC from an external source.
C2.0.5	06 01 2005	1707	Provide ability to retrieve data based on nationally recognized projects from the STORET Central Warehouse.
P2.0.3	05 17 2005	1699	Update the installation documentation with additional details and steps for manually installing the STORET database.
T2.0.1	05 17 2005	1698	Create a Geologic Unit (TSMGEOUN) maintenance area that is compatible with the P2.0 database.
T2.0.1	05 23 2005	1703	Create a National Citation (TSRCITN) maintenance area that is compatible with the P2.0 database.
T2.0.1	05 24 2005	1704	Create a Valid Station Type Combination (TSMVSTC) maintenance area that is compatible with the P2.0 database.
T2.0.1	05 30 2005	1705	Create a Geopolitical Area (TSMGEOPA) maintenance area that is compatible with the P2.0 database.
UB2.0.3	05 17 2005	1700	Modify Taxonomy Update Utility to handle new ranks added by ITIS (i.e., changes that impact the number of parent child relationships in the hierarchy; not just alternative names.)  TSN records with new ranks that do not have a place in STORET's taxon_sort_code definition will inherit the taxon_sort_code of its parent.
UB2.0.3	05 17 2005	1701	Generate a log file of display names that are truncated, and taxons rejected for inclusion in STORET by the Taxonomy Update Utility.
UB2.0.3	05 17 2005	1702	Alter Taxonomy Update Utility exception logic for when the specified length for a given rank is exceeded. Currently system stops generating taxon sort code. Specifics of the modification need to be determined.  06/01/2005 - When the number of records of a rank exceeds its limit then do not increment, but use the same taxon_sort_code.

Legend for System Version:

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

C = Central Warehouse, P = Data Entry Module, T = Reference Table Module, UB = Taxonomy Update Utility



**ATTACHMENT B**

User Support Log

User Support Log - Period: 05/16/2005 -06/07/2005			
Date Received	System Version	Issue	Response
5/16/05	P2.0	User is receiving Oracle error ORA-06550, PLS-00553 indicating the character set name is not recognized when trying to view Binary Large Objects (BLOBs) through the Data Entry Module. What character set is used by STORET?	<p>The character set used is by STORET is WE8ISO8859P1.</p> <p>A few scenarios can cause the reported error. One scenario is a mix-up of character sets of the database. In this situation, execution or compilation of procedures may cause this error. When we call the Document/Graphic in the Data Entry Module, it is executing the validate_login procedure.</p> <p>Scripts were provided to the user for troubleshooting the issue.</p> <p>The following are some suggestions that may solve the issue:</p> <ul style="list-style-type: none"> <li>• Restart the database.</li> <li>• Match the character set of the database (NLS_CHARACTERSET) and the client (NLS_LANG). To change the client character set, the NLS_LANG entry in the appropriate ORACLE_HOME of the registry should be edited.</li> <li>• Reinstall the Oracle Provider for OLEDB.</li> <li>• Reset the character set of the database.</li> </ul>

Legend for System Version:  
System Letter is concatenated with Version Number. System Letter Key:  
P = Data Entry Module