



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 March 23, 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
Thadkamalla, Ganesh

3.0 Discussion Topics

The discussion covered the following topics:

- C Action Items.
- C 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 Taxonomy Update Utility

Issues regarding the Taxonomy Update process were discussed and the following decisions made:

- C Include Protozoa as a separate Kingdom if listed in the Integrated Taxonomic Information System (ITIS) database.
- C During the process, generate reports of duplicate Display Names and Taxon Serial Numbers (TSNs) that are missing. Provide a break in the process to allow for examination of these reports before merging into TSRCHAR.
- C Implement exception handling in the Taxon Sort Code generation script to capture when the number of characteristics with a specific rank exceeds its allotted size. Stop the process if such errors occur.

L. Manning mentioned that a characteristics' parent TSN cannot point to a synonym's TSN (i.e., a synonym does not have children); error checking logic for this scenario is not necessary.

A report of duplicate Display Names and TSNs will be provided to L. Manning for review.

E. Bryant mentioned that Chimwemwe Munthali will be documenting the process to mitigate risk associated with the aggressive schedule..

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 th .	J. Wilson	06/28/2004	Closed	07/28/2004

Number	Action Item	Assignment	Date Issued	Status	Date Completed
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
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

Number	Action Item	Assignment	Date Issued	Status	Date Completed
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	Open	
0020	Provide L. Manning a report of duplicate Display Names and Taxon Serial Numbers found in ITIS data.	G. Thadkamalla	03/23/2005	Open	

5.0 Next Meeting

The next meeting was not scheduled.

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@epa.gov

7.0 Approval of Minutes

 Kevin Christian
 Job Assignment Manager

 Date

ATTACHMENT A

SIRs Since Last CCB

Software Incident Reports Since Last CCB - Period: 03/03/2005 - 03/22/2005			
System Version	Date Initiated	SIR #	Description
C	03 03 2005	1687	Reset Geographic Area values when changing radio buttons and/or selection criteria.
C	03 03 2005	1688	Modify interface and downloads to utilize the additional columns and unit conversion data in the TSRUOM table implemented by T2.0.1 SIR 1608.
R	03 03 2005	1685	Create a report that provides Taxon Abundance result information grouped by rank. This would allow information such as taxon counts to be viewed with other like organisms.
R	03 03 2005	1686	Add the Taxon_Sort_Code to the Biological result downloads.

Legend for System Version:

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

C = Central Warehouse, R = Report Module

ATTACHMENT B

User Support Log

User Support Log - Period: 03/03/2005 - 03/22/2005																																							
Date Received	System Version	Issue	Response																																				
3/7/05	P2.0	<p>Confirm the behavior of the recursive keys in the TSRFDACT table (see example scenarios below). Provide any additional information to accurately reflect the behavior.</p> <p>Some examples of how the keys work in the TSRFDACT Table.</p> <table border="1"> <thead> <tr> <th>TSRFDACT _IS _NUMBER</th> <th>TSRFDACT OIS _NUMBER</th> <th>TSRFDACT IIS _NUMBER</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-</td> <td>-</td> <td>A water Sample</td> </tr> <tr> <td>2</td> <td>-</td> <td>1</td> <td>A split/subsample from #1</td> </tr> <tr> <td>3</td> <td>-</td> <td>1</td> <td>A split/subsample from #1</td> </tr> <tr> <td>4</td> <td>6</td> <td>-</td> <td>A sample to be composited</td> </tr> <tr> <td>5</td> <td>6</td> <td>-</td> <td>A sample to be composited</td> </tr> <tr> <td>6</td> <td>-</td> <td>-</td> <td>A composite, from #4 and #5</td> </tr> <tr> <td>7</td> <td>-</td> <td>6</td> <td>A split/subsample from #6</td> </tr> <tr> <td>8</td> <td>-</td> <td>6</td> <td>A split/subsample from #6</td> </tr> </tbody> </table>	TSRFDACT _IS _NUMBER	TSRFDACT OIS _NUMBER	TSRFDACT IIS _NUMBER	Description	1	-	-	A water Sample	2	-	1	A split/subsample from #1	3	-	1	A split/subsample from #1	4	6	-	A sample to be composited	5	6	-	A sample to be composited	6	-	-	A composite, from #4 and #5	7	-	6	A split/subsample from #6	8	-	6	A split/subsample from #6	<p>Yes. The depiction of the behavior of the primary and foreign/recursive keys is accurate.</p> <p>The stipulation is that it may only be true for a single organization. The values for the keys will not be unique for multiple organizations. Include TSRFDACT_ORG_ID in data retrievals to ensure correct association of parent and child samples.</p>
TSRFDACT _IS _NUMBER	TSRFDACT OIS _NUMBER	TSRFDACT IIS _NUMBER	Description																																				
1	-	-	A water Sample																																				
2	-	1	A split/subsample from #1																																				
3	-	1	A split/subsample from #1																																				
4	6	-	A sample to be composited																																				
5	6	-	A sample to be composited																																				
6	-	-	A composite, from #4 and #5																																				
7	-	6	A split/subsample from #6																																				
8	-	6	A split/subsample from #6																																				
3/15/05	X2.0.2	<p>Web Registration Application may be allowing multiple Point of Record Absolute Location Point (ALP) records per Station. User reviewed two Stations to update their corresponding ALP record and it resulted in an additional ALP record with the wrong lat/long values. The "duplicate" ALP row does not show up in the Web Registration Application, but does in SQL*Plus. This bug has yet to be repeated. The last_update_ts on the data in question is 5/7/2004. Development team requested to research briefly and confirm with client.</p>	<p>The described scenario was not repeatable by the development team. Further investigation could be performed if desired.</p>																																				

User Support Log - Period: 03/03/2005 - 03/22/2005			
Date Received	System Version	Issue	Response
3/16/05	P2.0	A user needs to know how to store a Trip Quality Control (QC) Sample (one which has neither a Station nor a Station Visit stored with it) using the Batch.	<p>The storage of Trip QC Samples is not supported by batch.</p> <p>Background: SIR 0411 - Conceived for STORET v1.1, a Trip QC Sample Results button was in place that when pressed produced the message, "This selection has not been implemented."</p> <p>SIR 0587 - Revisited for STORET v2.0, this functionality was analyzed, impacted, reviewed at CCB, put On-Hold, and later Canceled.</p>

User Support Log - Period: 03/03/2005 - 03/22/2005			
Date Received	System Version	Issue	Response
3/18/05	C2.0.3	Changes and additions have been made to the TSRUOM table using the existing Reference Table Application, and I suspect that the unit conversion values are missing in at least the new rows, and possibly damaged in the existing rows. What should I be checking to make sure these concepts are in sync?	<p>There should not be any missing values or damage; however, there may be a new Unit of Measure (UOM) that could be given a "better conversion factor". See the breakdown provided below:</p> <p>UOM conversion is not yet implemented in the TSRUOM table distributed to users. The last CCB decided to implement UOM conversion maintenance in the reference table application, so a modified TSRUOM with unit conversion is planned for distribution to the user community.</p> <p>Unit Conversion currently only occurs in the Central Warehouse as follows:</p> <ul style="list-style-type: none"> - A copy of TSRUOM is made (new table created then data inserted) using the reference table data in the database used for Extract, Transform, and Load (ETL). - TSRUOM is altered to add columns for unit conversion. - Structured Query Language (SQL) scripting updates the exiting rows with conversion data (These are auto-generated inserts from .xls file; the spreadsheet is not directly used.) - Any rows without a defined conversion (e.g., new rows) are considered unique and convert to themselves. This is where a "better conversion factor" may exist. <p>We can examine the latest reference table update for new or changed UOM values, particularly those where a "better conversion factor" may exist, and provide an updated .xls and unit conversion script for ETL. Sounds like the user is directly using the .xls, so you may want an updated .xls even if all new values are found to be unique.</p>

User Support Log - Period: 03/03/2005 - 03/22/2005			
Date Received	System Version	Issue	Response
3/21/05	C2.0.4	<p>Provide comments on a two instance approach for the Data Warehouse with two Database Access Descriptors (DADs). The desire is to switch between the two during the refresh cycle.</p> <p>L. Manning suspects that dw_glob_var and perhaps glob_var are the only routines that needs to be considered.</p>	<p>Change in DAD name needs changes to dw_glob_var package and also to the STORET Data Warehouse home page http://www.epa.gov/storet/dw_home.html. All links in this page that call the stored procedures should be edited for the new DAD. However, this will have problems if users save the Uniform Resource Locator (URL) of the home page or its children in the browsers' favorites for easy access.</p> <p>Another option is to update the existing DAD properties to point to the database instance of choice. This will not change the name of the DAD; hence, the home page has no changes. This option may need some non-DAD related modifications to the dw_glob_var package.</p> <p>The dw_glob_var package is being used by the current Data Warehouse application. Glob_var package is from the prior STORET Web Application (i.e., glob_var package may be obsolete).</p>

Legend for System Version:

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

C = Central Warehouse, P = Data Entry Module, X = Web Registration Application