



**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 April 21, 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  
McElhinney, Cary  
Munthali, Chimwemwe  
Norris, Blythe  
Smith, Stephen  
Szajgin, Tracy  
Tarquinio, Ellen  
Thadkamalla, Ganesh  
Wilson, Joseph

## **3.0 Discussion Topics**

The discussion covered the topics listed in Attachment E.

### **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.

E. Bryant will be out of the office April 29, 2005 through May 9, 2005.

An Environmental Protection Agency (EPA) web page for eliciting feedback on how STORET data is used was reviewed. A discussion of approaches, wording, and storage ensued. It was decided that the web page will remain posted for a period of time to analyze users initial comments; this should help to drive the direction of future enhancements.

### **3.2 Report Module**

Report Module 2.0.5 was accepted with the following minor change.

- Include the information about Document/Graphic retrieval in both the Reference Manual and the User Guide.

The attendees discussed the installation of the Oracle Provider for Object Linking and Embedding (OLE) Database (DB) component used for Document/Graphic retrieval. The conditions necessitating a user to independently install this component was viewed as 'not likely'. It was decided to leave this component as an available installation from the EPA web site should users encounter a problem.

An Impact Assessment with various options for implementing data retrieval based on Project to Activity assignment was reviewed (Attachment C). The project team was tasked to perform the recommended option.

Two SIRs were generated for future consideration:

- Remove hard returns from long text fields (e.g., comments) in the export reports to avoid line breaking.
- Automate the installation process.

### 3.3 Taxonomy Update Utility

A demonstration of the Taxonomy Update Utility was given involving a walk-through of the process and an examination of the log files. A flow diagram (Attachment D) was used as supporting documentation. The design and implemented requirements of the utility were validated with inclusion of the following decisions:

- Non-American Standard Code for Information Interchange (ASCII) characters do not need to be resolved by the utility. Identify these characters in the Display Name column and report them in a log file.
- The business rule to set the Phylum Taxon Sort Codes in a given order was alleviated. Phylum Taxon Sort Codes will be generated dynamically.
- Oracle 9i was established as a minimum software requirement.
- Add duplicates, as identified between the Integrated Taxonomic Information System (ITIS) and non-Taxon STORET Display Names, to the TSRCHDUP table for resolution.

L. Manning was given a list of duplicate Taxon Serial Numbers (TSNs) within ITIS data, and missing TSNs as compared to STORET data.

### 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

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	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	Open	
0023	Provide rules and conditions for ITIS comment information extraction.	L. Manning	04/07/2005	Open	
0024	Provide Report Module User Guide with Document/Graphic retrieval description.	S. Smith	04/21/2005	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@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

<b>Software Incident Reports Since Last CCB - Period: 04/07/2005 - 04/20/2005</b>			
<b>System Version</b>	<b>Date Initiated</b>	<b>SIR #</b>	<b>Description</b>
T	04 07 2005	1689	Provide a maintenance area in the Reference Table Application for editing duplicate display names that are identified during the Integrated Taxonomic Information System (ITIS) data load process. This is a separate table, not part of TSRCHAR, and will facilitate the creation of unique display names before incorporation into TSRCHAR.

Legend for System Version:

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

T = Central Administration/Reference Tables

**ATTACHMENT B**

User Support Log

User Support Log - Period: 04/07/2005 -04/20/2005			
Date Received	System Version	Issue	Response
4/18/05	X2.0.2	<p>Installation of Web Registration in LINUX environment (see below):</p> <p>We are experiencing problems with our recent installation of Web Registration and wondered if these issues might be easily addressed by SAIC.</p> <p>The source code was compiled using the f90gen executable that comes with Oracle Application Server 10g(9.0.4) on a Suse SLES 9.0 operating system. As we conducted the installation, we ran into the following issues:</p> <ol style="list-style-type: none"> <li>1. We could not compile OFGTEL.pll because it is referencing a table named CG_REF_CODES which does not seem to be created in the scripts you sent us. We created an empty cg_ref_codes table, for now, so that it would compile.</li> <li>2. When the application runs, Jinitiator downloads, and the first form loads correctly upon login. However, if the user tries to navigate to nearly any of the other windows, they open in a minimized view. If you click on the maximize button, the forms seem to open properly.</li> <li>3. When the application tries to close from the Action/Exit button, a POST-FORM trigger raises an unhandled exception ORA-03114 and the form is unable to close. The same error message is received when trying to access the other html for help in the TSRWRVAR table.</li> <li>4. We were unable to compile the STORTEMPLATE.fmb. We assume that this form is used during development and is not a part of the</li> </ol>	<p>Email response:</p> <p>Number 1 - If you are trying to compile everything on the server, we suggest, instead, compile all files using the 10g Developer Suite, specifically Forms Builder. This is assuming LINUX has a 10g Developer Suite.</p> <p>Number 2 - We think this is what constituted the last release (X2.0.2) (i.e., server upgraded to 10g running forms generated with 9i). The symptom we had was not that the forms were "minimized". Rather the forms were misaligned (appearing in the upper left corner of the screen). As in Number 1, you need to compile the forms using the 10g Developer Suite (i.e., Forms Builder).</p> <p>Number 3 - This does not look like anything we have experienced.</p> <p>Number 4 - This is okay. It is a forms template file that does not need to be compiled, but is needed for running the forms.</p> <p>Number 5 - No problem.</p>

<b>User Support Log - Period: 04/07/2005 -04/20/2005</b>			
<b>Date Received</b>	<b>System Version</b>	<b>Issue</b>	<b>Response</b>
		<p>implementation of the application.</p> <p>5. For our environment, we modified the CDX_MENU.fmb in order to remove the hard-coded STORET reference. We made a synonym to reference the schema instead.</p> <p>Any information would be helpful. I am hopeful that these errors are minor installation issues. However, if you think some of the errors may be a result of the LINUX platform, please let us know.</p>	

Legend for System Version:

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

X = Web Registration Application

**ATTACHMENT C**

Report Module Impact Assessment  
Project to Activity Assignment Implementation

## Impact Assessment: Implementing Project Activity Assignments in the Report Module

### Overview:

Users have noted differences in the data retrieved by the printed result reports (i.e., Result Detail, Result Inventory Summary, Result Inventory Summary by Station) and the result export reports. This is due to a difference in the interrogation of selected projects against the various Project assignments.

STORET versions prior to 2.0 did not enforce Project Activity assignment. To avoid filtering out Result values for Activities that did not have a Project Activity assignment, export reports were designed to interrogate selected Projects against Project Station assignments. Any unwanted data could be deleted from the download by the user. To keep the printed/preformatted reports concise, printed/preformatted reports interrogate selected Projects against Project Activity assignments

The change invoked by SIR 1691 will allow selected Projects to be interrogated against Project Activity assignments, while allowing the capability to retrieve Activities that have no Project assignments. A further benefit of consistency in Project interrogation may also be achieved via the proposed implementation

### Scope:

Below are the available reports, through STORET Report Module v2.0.5, that allow Project selection. The shaded rows are not impacted by the proposed implementation.

Report	Project Association
Project Summary	Projects
Project Details	Projects
Station Summary	Station Assignment
Station Details	Station Assignment
Trip Summary	Trip Assignment
Trip Detail	Trip Assignment
Activity Detail	Activity Assignment
Result Detail	Activity Assignment
Result Inventory Summary	Activity Assignment
Result Inventory Summary by Station	Activity Assignment
Export: Station Summary	Station Assignment
Export: Results Physical/Chemical Small Export	Station Assignment

Report	Project Association
Export: Results Physical/Chemical Medium Export	Station Assignment
Export: Results Physical/Chemical Large Export	Station Assignment
Export: Results Physical/Chemical Giant Export	Station Assignment
Export: Results Biological Small Export	Station Assignment
Export: Results Biological Medium Export	Station Assignment
Export: Results Biological Large Export	Station Assignment
Export: Results Biological Giant Export	Station Assignment
Export: Results Multi-Taxon Population Census Export	Station Assignment
Export: Results Habitat Assessment Export	Station Assignment

**Recommended Option:**

Alter default Project interrogation to be against Project to Activity assignment.

Rules:

- When Projects are not selected, Results for Activities with and without Project assignments will be retrieved.
- When Projects are selected, Results for Activities associated with selected Project will be retrieved.

Assumption: Effort for other changes necessary for a release such as main menu version number, version number on other user/system documentation is not included.

Activity	Hours
Analysis:	16
Construction/Unit Test: - Change 10 reports.	24
Integration Test:	16
Documentation:	8
Help and Help Scripts:	0
CM:	6
Total:	70

**Alternative Option:**

Implement checkbox on RPT3 Report Parameters window.

Rules:

- Default value is “unchecked”. This retrieves data based on Project Activity assignment. Reports will be altered to retrieve data based on Project Activity assignment by default.
- Checking the box retrieves data based on Project Station assignment, allowing retrieval of pre-STORET v2.0 data without Project Activity assignments when Projects are selected.
- Checkbox only appears when Project Selections are made.
- Checkbox condition (i.e., checked or unchecked) is not stored with the saved parameters.
- Checkbox condition is reset (i.e., unchecked) when a new report is selected. This is consistent with the resetting of all other parameters.

Assumption: Effort for other changes necessary for a release such as main menu version number, version number on other user/system documentation is not included.

<b>Activity</b>	<b>Hours</b>
Analysis:	16
Construction/Unit Test: - Change 10 reports. - Change Interface. - Change/Add supporting program units.	32
Integration Test:	20
Documentation:	10
Help and Help Scripts:	4
CM:	6
Total:	88

**Additional Options:**

**Additional Option 1:** Add additional window and provide radio buttons to control interrogation of selected Projects.

Pros and Cons:

- + Makes Project interrogation method a little more obvious.
- Requires additional effort to create, integrate, and test new window with radio buttons.
- Requires extra step in report generation every time Projects are selected.
- Does not provides additional capabilities over proposed method.

**Additional Options 2:** Create 2 versions of each report. Have each perform different interrogation against Projects.

Pro and Cons:

- Creating duplicate reports will create additional maintenance.
- May be difficult to clearly describe difference in report via report title.

**Additional Options 3:** Create 2 entries in report control tables (i.e., TSRRLIST, TSRRRPARM) of each report. Have each perform different interrogation against Projects.

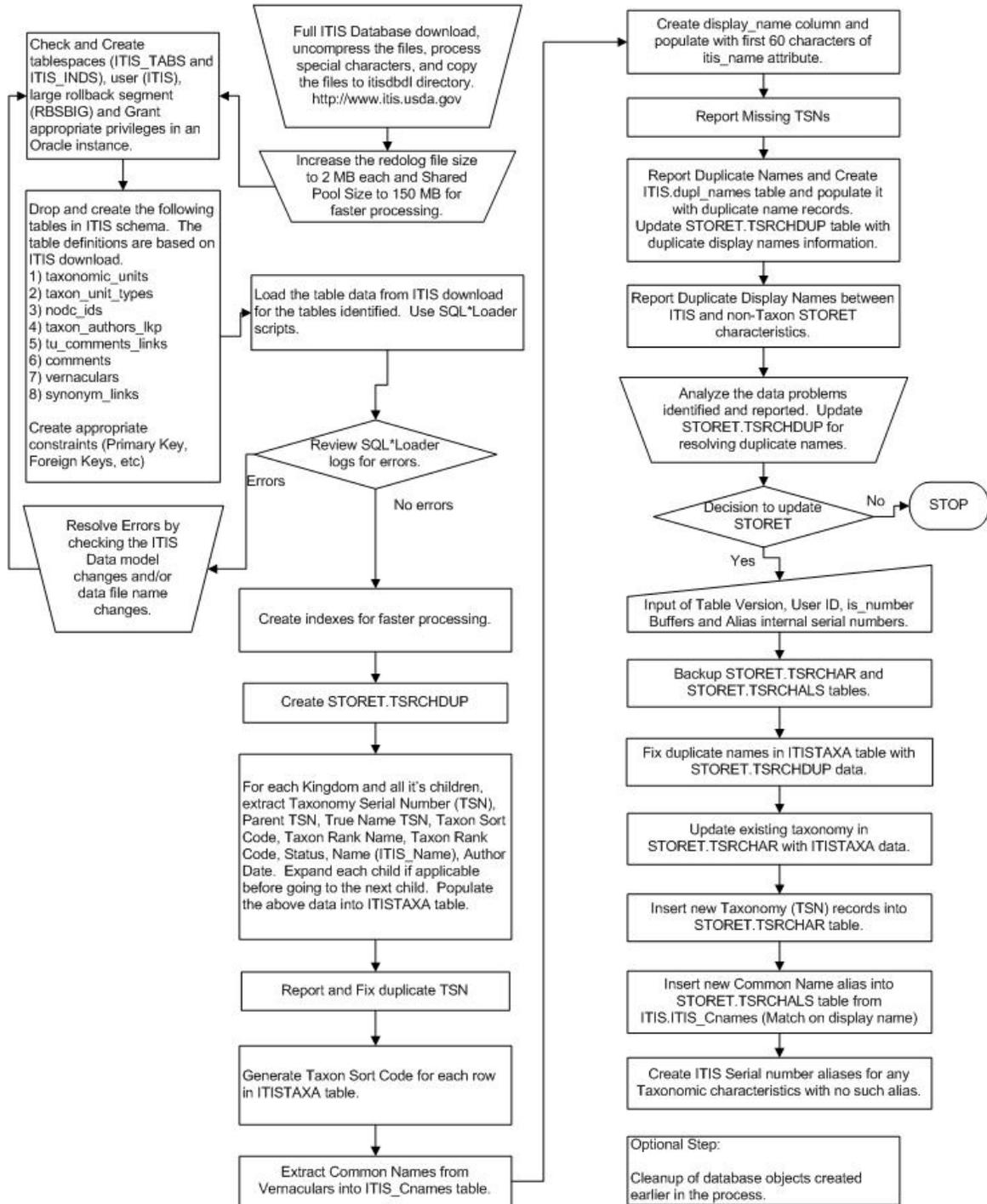
Pro and Cons:

- May be difficult to clearly describe difference in report via report title.
- Level of effort is likely similar to proposed method.
- Functions like proposed method without the on-screen clutter of additional report names.
- Level of effort is likely similar to proposed method.

**ATTACHMENT D**

STORET Taxonomy Update Flow Diagram

**STORET TAXONOMY UPDATE PROCESS**  
 Process Flow Diagram (04/20/2005)



**ATTACHMENT E**

CCB Meeting Agenda for April 21, 2005

## Change Control Board (CCB) Meeting April 21, 2005

### AGENDA

#### CURRENT PROJECT ACTIVITIES

- STORET Taxonomy Process
- Overnight Batch Processing
- FA\_REGULAR\_RESULT Partition
- NATIONAL Project Retrieval
- Reference Table Application
  - TSRCITN - Citation
  - TSMERMSG - Error Message
  - TSRFLDGR - Field Gear
  - TSMFHU - FIPS Hydrologic Unit
  - TSMGEOUN - Geologic Unit
  - TSMGEOPA - Geopolitical Area
  - TSRLBRMK - Lab Remark
  - TSMLTHUN - Lithologic Unit
  - TSMPROLE - Person Role
  - TSMPSR - Project Station Role
  - TSMSIC - Standard Industrial Class
  - TSMVSTC - Valid Station Type
  - TSMPRMVL - Permitted Value
  - TSRANLEQ - Analytical Equipment
  - TSRUOM - Unit of Measure
  - [TSRANLPR - Analytical Procedure](#)
  - [TSRBIOPT - Bio Part](#)
  - [TSRCHAR - Characteristic](#)
  - [TSRCHALS - Characteristic Alias](#)
  - [TSRCALT - Characteristic Alias Type](#)
  - [TSRCPV - Characteristic Permitted Value](#)
  - [TSRCHTYP - Characteristic Type](#)
  - [TSRCTCA - Characteristic Type Characteristic Assignment](#)
  - [TSRLSPP - Lab Sample Prep Procedure](#)
  - [TSMMD - Method and Datum](#)
  - [TSMNAL - Native American Land](#)
  - [TSRMATRX - Sample Matrix](#)
  - [TSMESTRY - Estuary](#)
- RT Help

- RT User's Manual
- Unit Conversion Table
- Report Module
  - Project Assignment
  - Report Module 2.0.5 Installation
  - Hard returns in text fields
- ETL Benchmark
- Web Registration
- Software Support
- Documentation
- Hard-coded Report

#### STORET COMMENTS FORM

#### ACTION ITEMS

*Note: Ernestine Bryant will be out of the office April 29 thru May 9, 2005.*