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Subject: Minutes of STORET Technical Status Meeting

1.0   Purpose

A Meeting was held on January 8, 2004 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	EPA
Ernestine Bryant	Robert King, Task Order Project Officer (TOPO)
Stephen Smith	Lee Manning, Alternate TOPO (ATOPO)
Blythe Norris	
Ganesh Thadkamalla	
Joseph Wilson	

3.0   Discussion Topics

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

3.1   Administrative

EPA will be incorporating the desired changes to the display format of the Date and Time fields of the Database Views. The comprehensive documentation of the Web Registration application will be completed by January 30, 2004.

3.2   Central Warehouse

A draft application flow diagram for the Central Warehouse was briefly reviewed. Due to time constraints, the diagram will be discussed in more detail at the next meeting.

Potential enhancements to the Central Warehouse were discussed. The following SIR will be created:

C   Move Oracle connect strings from individual Extract, Transfer, and Load (ETL) scripts to the master Install Script.

Additionally, the following items will be revisited to determine level of effort:

C   Add Station Activity Point information to Result Fact Tables.

C   Create and populate MIN and MAX Activity Start Date columns in the STATION_CHAR table.

3.3   Unit Conversion

The following decisions were made regarding the establishment of conversion factors for STORET units of measure:

C   A year will be calculated as 365.25 days to include leap year.

C   Avoirdupois masses will be used as opposed to apothecary masses.

C   The following units will be unique in that they will not be converted to any other unit:

    – Per Meter.
    – Number or Gage.
    – Percent Cover.
    – Most Probable Number.
    – Count.
    – Plate Count.
    – Colony Forming Units per 100 Milliliters.
    – Colony Forming Units.

C   The following description_text entries in the TSRUOM table will be incorporated in the next reference table update.

    – For "ton", remove the term "(English)" from "short (English) tons".

–   For "metric ton", remove the term "long" and the parenthesis from "long (metric) tons".

–   For "cfu/100ml", change "Militers" to "Milliliters".

C   Molecular weights will not be added to the STORET reference table data at this time. Mole weights will be converted to other mole weights when possible.

C   Ounces (i.e.,oz) from the Substances category will be considered as masses, not volumes as in fluid ounces. It was noted that there is no fluid ounce measure for volumes in the Unit of Measure (TSRUOM) table, and "oz" appears in the drop-down list for container size with other volumetric units. An SIR will be created for a future correction to the Data Entry Module.

L. Manning requested the Structured Query Language (SQL) that was used to retrieve the result unit use frequency.

3.4   Oracle 9i Installation

Changes to the database creation scripts and Wise installation scripting are needed to make existing scripts work for Oracle 9i. The installation instructions will also need to be changed accordingly. L. Manning suggested applying a new version number (i.e., STORET v2.0.1) due to the addition of support for an Oracle 9i database, but no decision was made.

The supported Oracle 9i version, Windows versions, and installation operations were discussed and the following decisions made:

C   The Oracle database version that will be supported is Oracle 9i version 9.2.0.1.0 (Release 2) Personal Edition.

C   The supported operating systems will be Windows operating systems supported by Oracle 9i version 9.2.0.1.0 (Release 2) Personal Edition.

C   The ability to create a new STORET database will be provided.

C   The ability to migrate STORET data from a STORET v1.2 database using Oracle version 7.3.4 to an Oracle 9i version 9.2.0.1.0 (Release 2) Personal Edition will be provided.

3.5   STORET Preference and Default Replication

A review of the requirement definition, assumptions, and questions (see Attachment A) was performed. The scope of the functionality covers all tables under the P1 Organizational Preferences Menu, but first priority is on tables pertaining to Characteristic Groups and Defaults and associated dependencies (e.g., Citation). Assumptions were discussed and deemed to be correct as stated except for the following:

C   The source and target Organization do not have to be in the same database.

C   Logic needs to be included to ensure both source and target Organizations use the same version of the reference data.

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
04-0002	Provide Unit of Measure count Structured Query Language to L.Manning	01/08/2004	Open	S. Smith	
04-0003	Provide TSRUOM description_text corrections to L. Manning	01/08/2004	Open	S. Smith	
04-0004	Determine supported Windows operating systems for Oracle 9i Release 2 Personal Edition.	01/08/2004	Open	G. Thadkamalla	

5.0   Next Meeting

The next meeting was scheduled for January 15, 2003, 1:00 p.m. at the SDC.

ATTACHMENT A

STORET Preference and Default Replication

STORET Preference and Default Replication
(SIR 369)

Requirement Description:

Create ability to block copy information in preferences and defaults from one Organization to another (i.e., copying the information behind every button on the P1 Organizational Preferences Menu).
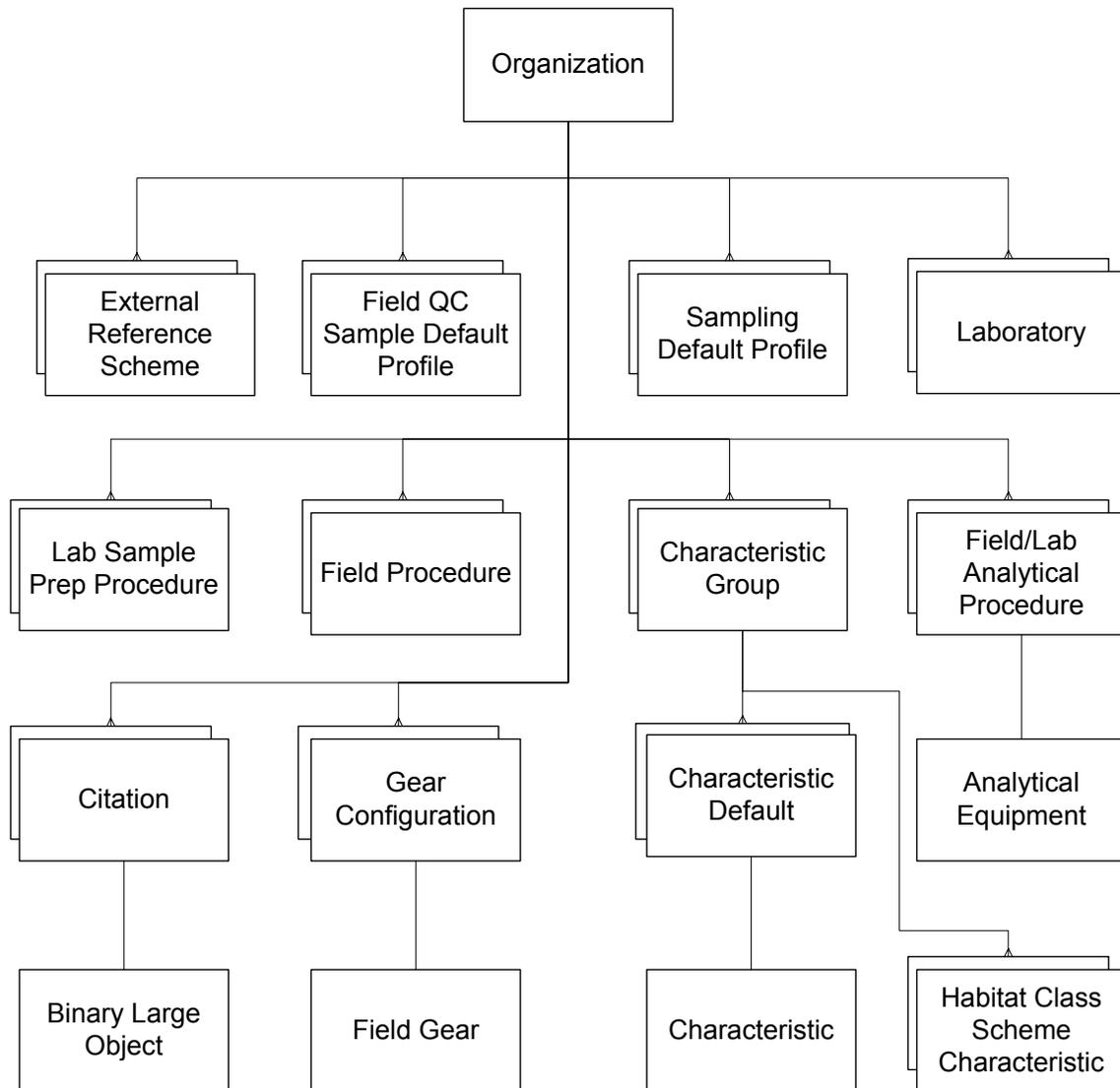
Assumptions:

C Processing covers all source Organization Preference and Default tables; assumes no user interface/user selection.

C Source and target Organizations reside in the same database.

C Source Organization data is valid (i.e., STORET v2.0 business rules are enforced).

C Pre-existing target Organization data is valid (i.e., business rules enforced; TSMEISN entries are in sync with highest entry in corresponding tables).

C No records in the source Organization should be changed.

C Full replacement on the target Organization is not assumed. No records in the target Organization will be deleted.

C The same version of reference data (i.e., National Citations, National Analytical Procedures, National Lab Sample Prep Procedures, Analytical Equipment, Field Gear, Permitted Values, Characteristics) must be used for both Organizations (i.e., same ISNs).

C Logical duplicate checking (e.g., ID, Name) will be enforced across data based on existing STORET v2.0 business rules.

C Processing performance is not a big consideration since this will be done in batch.

C Suspended source Analytical Procedures will be copied.

C All processing will be cancelled if a single error (e.g., duplicate) is encountered.

Questions:

C   Is the above requirements still valid?

C   Are any other tables to be included beyond what is described below? Excluded?

Organizational Preferences Functional Diagram:

```
                              ┌──────────────┐
                              │ Organization │
                              └──────┬───────┘
      ┌───────────┬────────────┼─────────────┬──────────────┐
┌───────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐
│ External  │ │ Field QC │ │ Sampling │ │Laboratory│
│ Reference │ │  Sample  │ │ Default  │ │          │
│  Scheme   │ │ Default  │ │ Profile  │ │          │
│           │ │ Profile  │ │          │ │          │
└───────────┘ └──────────┘ └──────────┘ └──────────┘
      ┌───────────┬────────────┬─────────────┬──────────────┐
┌───────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐
│Lab Sample │ │  Field   │ │Character-│ │Field/Lab │
│Prep Proc. │ │Procedure │ │   istic  │ │Analytical│
│           │ │          │ │  Group   │ │Procedure │
└───────────┘ └──────────┘ └──────────┘ └──────────┘
   ┌────────────────┬──────────────────────────────┐
┌───────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐
│ Citation  │ │   Gear   │ │Character-│ │Analytical│
│           │ │ Config.  │ │   istic  │ │Equipment │
│           │ │          │ │ Default  │ │          │
└─────┬─────┘ └────┬─────┘ └────┬─────┘ └────┬─────┘
┌───────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐
│  Binary   │ │  Field   │ │Character-│ │ Habitat  │
│   Large   │ │   Gear   │ │  istic   │ │  Class   │
│  Object   │ │          │ │          │ │  Scheme  │
│           │ │          │ │          │ │Character.│
└───────────┘ └──────────┘ └──────────┘ └──────────┘
```

Tables and Roles:

Create, Read, Update	Read only
STORET1.TSMADDR	STORET1.TSMORGAN
STORET1.TSMEADDR	STORET.TSMPRMVL
STORET1.TSMEISN	STORET.TSRANLEQ
STORET1.TSMERS	STORET.TSRCHAR
STORET1.TSMGNTXT	STORET.TSRFLDGR
STORET1.TSRANLPR	
STORET1.TSRCCGA	
STORET1.TSRCHDEF	
STORET1.TSRCHGRP	
STORET1.TSRCITN	
STORET1.TSMBLOB	
STORET1.TSRFLDPR	
STORET1.TSRFQSDP	
STORET1.TSRGRCFG	
STORET1.TSRHCSC	
STORET1.TSRLAB	
STORET1.TSRLSPP	
STORET1.TSROAPA	
STORET1.TSROLSPA	
STORET1.TSRSDP	