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Office of Water, Water Quality Exchange (WQX)

**STorage and RETrieval (STORET) Central Warehouse
Release 2.0.8**

Version Description Document

Document Version 1.0.2

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**ITS-ESE Task Order No.: 50
Contract No.: 68-W-04-005**

Developed for:



**United States Environmental Protection Agency
Office of Environmental Information
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Washington, DC 20460**

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Document No.: 50-STORE-VDD-0079

Approvals

This document has been reviewed and approved for use in the project development process. Minor changes and corrections may be made to this document without re-approval.

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Document Change History

Version #	Date	Change Author	Change Summary
1.0	08/24/2007	Ganesh Thadkamalla	Initial version
1.0.1	09/06/2007	Ganesh Thadkamalla	Updated for QA Baseline 2
1.0.2	09/07/2007	Srinivasu Uppuluri	Peer Review, Deployment diagrams.
1.0.2	09/09/2007	Samuel Kleinrock	Technical Publications Review
1.0.2	09/12/2007	Ganesh Thadkamalla	Updated Release number to 2.0.8

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1.0 INTRODUCTION

The Version Description Document (VDD) is the primary configuration control document used to track and control versions of software (STORage and RETrieval (STORET) Central Warehouse) to be released to the operational environment at the U.S. Environmental Protection Agency's (EPA) National Computer Center (NCC). It is a summary of the features and contents for the implementation of the STORET Central Warehouse. It identifies and describes the version of the software Configuration Item (CI) being delivered to the customer.

This document also provides detailed information regarding the CIs, a detailed outline of the hardware/software of the Development/Test/Production environments and the instructions for the installation and configuration of the delivered software. This document provides:

- Definitions, acronyms and abbreviations required to properly interpret the plan and used throughout this document.
- A complete list of all documents referenced throughout this VDD.
- An overview of this VDD to describe what the document contains and explains how the document is organized.
- The integration environments, which includes testing, staging and production to define Hardware, Software, Database, Interface and Commercial Off-the-Shelf (COTS) configurations for the application.
- Primary roles and responsibilities for the development and maintenance of the VDD, as well as organizations supporting the development at the Systems Engineering Center (SEC) and EPA environments.
- System overview, including a brief statement about the purpose of the system and the environments to which this VDD applies.
- Points of contact, which are lists of management and technical personnel involved in this effort for the SEC and EPA.
- Materials contained in the release, software and hardware components of the subsystem software CI, documents used to establish the configuration of the software CI, installation instruction, installed new changes and any known problems.

1.1 Roles and Responsibilities

The roles and responsibilities applying to this VDD are described in Section 2.5.

1.2 Acronyms, Terms, and Definitions

The following acronyms, terms and definitions used in this document are explained to ensure that the content is clear to representatives from all organizations that use the document.

Acronym	Definition
AIX	Advanced Interactive eXecutive
ATOPO	Alternate Task Order Project Officer
BLOBS	Binary Large Objects
CI	Configuration Item

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Acronym	Definition
CI	Configuration Item
COTS	Commercial-Off-The-Shelf
CTM	Contract Task Manager
EPA	U.S. Environmental Protection Agency
ETL	Extract, Transform and Load
GB	Gigabyte
GHz	Gigahertz
HTML	Hyper Text Markup Language
ITS-ESE	Information Technology Solutions – Environmental Systems Engineering
LAN	Local Area Network
LM	Lockheed Martin
NCC	National Computer Center
OAS	Oracle Application Server
OS	Operating System
PL/SQL	Procedural Language/Structured Query Language
QA	Quality Assurance
RAM	Random Access Memory
RTP	Research Triangle Park
RTP	Research Triangle Park
SEC	Systems Engineering Center
SQL	Structured Query Language
STORET	STOrage and RETrieval
STORETW	STORETW (acronym for ST Orage and RE Trieval Data W arehouse) is the Data warehouse component of STORET for water quality, biological and physical data and used by state environmental agencies, EPA and other federal agencies, universities, private citizens and others. More information can be found at: http://www.epa.gov/storet/ .
TAR	Tape Archive
TO	Task Order

Acronym	Definition
TOPO	Task Order Project Officer
VDD	Version Description Document
WQX	Water Quality Exchange

2.0 SCOPE

The scope of this document is to provide the trail of STORET Central Warehouse Software CIs, server architecture, release version description and installation instructions for deploying each of the releases.

2.1 Identification

Document Number: 50-STORE-VDD-0079
Filename: 50-0079 (STORET Warehouse VDD) 2007-0912.doc
Title: STORET Warehouse Version Description Document
Abbreviations: STORET_WH
Version number: 1.0.2
Release number: 2.0.8

2.2 Applicability

EPA's Research Triangle Park (RTP) center at Durham, North Carolina will be using this application on the Advanced Interactive eXecutive (AIX) Unix, Oracle, and Oracle Application Server (OAS) environment. The Extract Transform and Load (ETL) file will run at EPA Headquarters, and the STORET Central Warehouse transferred to EPA RTP

Please see section 4.2.3 for a description of the environment intended for this application.

2.3 System Overview

The STORET Data Warehouse Application Upgrade Project is to enhance both the User Interface and Reporting sections of the application. The User Interface upgrade includes enhancements to the help system and query features for the Data Warehouse Web site. The enhancements will be in conformance with the look-and-feel of the existing Warehouse Web site. This project does not include an overhaul of the Web Interface. The Reporting section upgrade includes development of Metadata Reports, Project Station Weights, Support Strategic Plan Measures, and the ability to combine multiple report files into a single compressed file, add activity comments and activity depth reference points.

2.4 Document Overview

This document describes tracking and controlling versions of software (STORET Warehouse) for release to the production environment. It also provides instructions to deploy source code files to the production environment.

2.5 Points of Contact

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3.0 REFERENCE DOCUMENTS

The following documents should be reviewed for additional information about this application:

- STORET Warehouse Requirement Document (Doc Name: 50-0033(D2.3.2_STORETW_REQ SPEC)2007_0228.doc; Doc. No: 50-STORE-SRS-0033; and Doc. No: 08-STORET-SRS-0110)
- STORET Warehouse Test Plan Doc. No. TBD
- STORET Warehouse Test Report Doc. No. TBD

4.0 VERSION DESCRIPTION

This release is an update to the STORET Data Warehouse production application. This package contains application files and documents described in subsequent sections.

4.1 Inventory of Materials Released

- 50-0079 (STORET Warehouse VDD) 2007-0911
- STORETWH_PREPROD_05_31_2007_2.0.7.zip Software package

4.2 Inventory of Software Contents

The inventory of the Software CI is quantified in subsequent paragraphs.

4.2.1 Software

STORET Warehouse software contains:

1. Structured Query Language (SQL) and Procedural Language/Structured Query Language (PL/SQL) scripts for creation of the STORET Warehouse
2. PL/SQL, Hyper Text Markup Language (HTML), JavaScript, Unix Shell script for the Warehouse Web application

Table 1 is a list of the software that will be delivered to EPA:

Table 1. Configuration Items

Workset Filename	Revision
DW_process_data_request.sql	1.13
dw_project_blob_md.sql	1.1
DW_result_download_custom.sql	1.4
DW_station_download_custom.sql	1.3
DW_station_hub_custom.sql	1.4
APP_COLUMN_NAME_UPD.SQL	1.3
DW_SYNONYMS.sql	1.5
DW_result_metadata.sql	1.7
c20-installation_instructions.txt	1.15
char_stn_table.sql	1.3
char_table.sql	1.2
lu_chartype_tables.sql	1.4
di_project_table.sql	1.4
project_rel_tables.sql	1.3
DW_user_def_hab.sql	1.4
fa_habitat_result_table.sql	1.3
fa_station_table.sql	1.4

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Workset Filename	Revision
create_storetw.sql	1.2
alter_station_project.sql	1.1
create_station_summary_view.sql	1.6
create_ws_huc_char_summary.sql	1.7
create_ws_huc_org_char_summary.sql	1.7
create_ws_huc_org_summary.sql	1.8
create_ws_station_summary.sql	1.8
insert_web_methods_data.sql	1.0
refresh_station_char.sql	1.2
ws_station_view.sql	1.0
ws_synonyms.sql	1.2
install_wh_db_changes.sql	1.2
MT_char_chartype.sql	1.1
SP_REFRESH_STATION_CHAR.sql	1.0
SP_REFRESH_STATION_CHAR_NEW.SQL	1.0
SP_REFRESH_WS_HUC_CHAR_SUMMARY.SQL	1.0
SP_REFRESH_WS_HUC_ORG_SUMMARY.SQL	1.0
SP_REFRESH_WS_ORG_CHAR_SUMMARY.SQL	1.0
SP_REFRESH_WS_STATION_DATA.SQL	1.0
SP_REFRESH_WS_STATION_SUMMARY.SQL	1.0
SP_REFRESH_WS_TABLES.sql	1.0
SP_REFRESH_WS_TABLES_NEW.SQL	1.0
SP_RUN_WATERSHED_TAB_REFRESH.SQL	1.0
sp_sequence_synch.sql	1.2
wh_ETL_synonyms.sql	1.0
WH_grants.sql	1.0
wh_mod_attr.sql	1.0
WH_new_attr.sql	1.0
wh_new_obj.sql	1.0
wqx_chartype_assignments.sql	1.0
analyze_appl_objects.sql	1.0
analyze_objects.sql	1.0
APP_COLUMN_NAME.sql	1.4
DW_storet_help.html	1.4
lat_long_ex.gif	1.0
DW_batch_activity_report.sql	1.0

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Workset Filename	Revision
DW_data_requests_table.sql	1.1
DW_glob_var.sql	1.1
DW_GRANTS.sql	1.3
DW_PERMISSIONS.sql	1.1
DW_schedule_batch_jobs.sql	1.0
DW_batch_download_pickup.sql	1.0
DW_bio_result_criteria_geo.sql	1.2
DW_bio_result_criteria_project.sql	1.2
DW_bio_result_criteria_station.sql	1.0
DW_blob_download.sql	1.0
DW_blob_handler.java	1.0
DW_bottom_of_page.sql	1.2
DW_char_alias_popup.sql	1.0
DW_char_select.sql	1.0
DW_community_select.sql	1.0
DW_counties_popup.sql	1.0
DW_date_select.sql	1.0
DW_display_calendar.sql	1.0
DW_exec_os.java	1.0
DW_extref_popup.sql	1.0
DW_geo_select.sql	1.0
DW_hab_result_criteria_geo.sql	1.2
DW_hab_result_criteria_project.sql	1.2
DW_hab_result_criteria_station.sql	1.0
DW_home.sql	1.0
DW_huc_popup.sql	1.0
DW_mail_pkg.sql	1.0
DW_medium_select.sql	1.0
DW_monthly_stats.sql	1.0
DW_process_batch_requests.sql	1.0
DW_process_data_request_list.sql	1.0
DW_process_pendingbatch_imm.sql	1.0
DW_proj_popup.sql	1.0
DW_project_select.sql	1.0
DW_record_data_request.sql	1.1
DW_report_pending_requests.sql	1.0

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Workset Filename	Revision
DW_result_count.sql	1.4
DW_result_criteria_geo.sql	1.2
DW_result_criteria_project.sql	1.2
DW_result_criteria_station.sql	1.0
DW_result_download_zip.sql	1.3
DW_result_hub_custom.sql	1.7
DW_selection_criteria.sql	1.0
DW_selection_criteria_station.sql	1.0
DW_station_count.sql	1.2
DW_station_download_zip.sql	1.0
DW_station_popup.sql	1.0
DW_station_select.sql	1.0
DW_top_of_page.sql	1.1
DW_storet.js	1.0
column_comments.sql	1.2
cr_appl_incls.sql	1.0
di_act_medium.sql	1.0
di_activity_intent.sql	1.0
di_activity_matrix.sql	1.0
di_biopart.sql	1.0
di_community_sampled.sql	1.0
di_date_table.sql	1.0
di_group_type.sql	1.0
di_subject_taxon.sql	1.0
db_tables.sql	1.0
drop_temp_tables.sql	1.0
estry_tables.sql	1.2
create_bio_temp_tables.sql	1.1
fa_bio_result_const.sql	1.0
fa_bio_result_data1.sql	1.3
fa_bio_result_data2.sql	1.1
fa_bio_result_drop_cols.sql	1.0
fa_bio_result_index.sql	1.0
fa_bio_result_table.sql	1.1
update_bio_temp_tables.sql	1.0
update_bio_temp_tables2.sql	1.0

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Workset Filename	Revision
fa_blob.sql	1.1
create_habitat_temp_tables.sql	1.0
fa_habitat_result_const.sql	1.0
fa_habitat_result_data1.sql	1.2
fa_habitat_result_data2.sql	1.1
fa_habitat_result_drop_cols.sql	1.0
fa_habitat_result_index.sql	1.0
update_habitat_temp_tables.sql	1.0
create_temp_tables.sql	1.1
fa_regular_result_const.sql	1.0
fa_regular_result_data1.sql	1.3
fa_regular_result_data2.sql	1.1
fa_regular_result_drop_cols.sql	1.0
fa_regular_result_index.sql	1.0
fa_regular_result_pdl_data1.sql	1.4
fa_regular_result_table.sql	1.1
update_temp_tables.sql	1.0
fa_station_drop_cols.sql	1.0
etl_glob_var.sql	1.0
f_biopt.sql	1.0
f_char_name.sql	1.0
f_createflbrmk.sql	1.0
f_createfNAICS.sql	1.0
f_estry.sql	1.0
f_fieldset.sql	1.0
f_mad.sql	1.0
f_prmvl.sql	1.0
f_station_visited.sql	1.0
gen_idxstrg.sql	1.0
gen_tblstrg.sql	1.0
geo_tables.sql	1.0
lu_char_alias.sql	1.0
lu_station_alias.sql	1.0
mad_tables.sql	1.0
stn_std_datum.sql	1.0
materialized_views.sql	1.0

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Workset Filename	Revision
citation_table.sql	1.4
co_op_addr.sql	1.2
co_op_eaddr.sql	1.2
co_org_table.sql	1.3
lab.sql	1.3
lab_addr.sql	1.2
lab_analytical_proc.sql	1.3
lab_eaddr.sql	1.2
lab_sample_prep_proc.sql	1.3
org_elec_addr.sql	1.4
org_phy_addr.sql	1.3
program_table.sql	1.3
project_rel_tables.sql	1.0
sample_collection_proc.sql	1.3
sample_gear.sql	1.4
sample_preservation.sql	1.4
org_tables.sql	1.2
performance_tuning.sql	1.0
statn_types_tables.sql	1.0
storet1_grants.sql	1.0
storet_grants.sql	1.0
table_comments.sql	1.0
tbs_coalesce.sql	1.0
unit_conversion.sql	1.0
update_TSRUOM.sql	1.0
Sp_update_tribal_in_results.sql	1.4
sp_pre_post_wqx_etl.sql	1.1
SP_CREATE_INDEX_ON_FA_STN_GEOM.sql	1.0
SP_DROP_GEOM_DOMAIN_INDEX.sql	1.0

4.2.2 Databases

Development/QA Local Area Network (LAN):

Database Version: Oracle 9.2.0.7

Database Name: STORET@ESE-OK

Schema Name: STORETW, STORETWEB, STORET1, STORET

Application Servers: ESE-PA

Production Platform: IBM AIX Version 5.2 and Windows 2003

QA LAN:

Database Version: Oracle 10.2.0.2
Database Name: GENSRC@EESVR-ID
Schema Name: STORETW, STORETWEB, STORET1, STORET
Application Servers: EESVR-CT
Production Platform: IBM AIX Version 5.2 and RHEL 3

Staging:

Database Version: Oracle 10.2.0.2
Database Name: STORMOD@PERCHERON
Schema Name: STORETW, STORETWEB, STORET1, STORET
Application Servers: QUARTER
Production Platform: IBM AIX Version 5.2

Production:

Database Version: Oracle 10.2.0.2
Database Name: STORMODA/STORMODB@SHIRE (Whichever is online)
Schema Name: STORETW, STORETWEB
Oracle Application Server machine: Azteca
Production Platform: IBM AIX Version 5.2

4.2.3 Operating System and Environment

Tables 2-5 provide the required hardware and software needed in the Development, QA LAN, Staging and Production environments.

Table 2. *Hardware and Software Configuration in the Development Environment*

ESE-PA (Application Server)	ESE-OK (Database Server)
Hardware: Dell x86 with 2 x 2.8 Gigahertz (GHz) & 3.75 Gigabytes (GBs) Random Access Memory (RAM) Software: Operating System (OS): Windows 2003 Application Server: Oracle Application Server 10g Release 2	Hardware: International Business Machines (IBM) P615 with 2X1.2 GHz & 16 GB RAM Software: OS: AIX 5L Database : Oracle 9.2.0.7

Table 3. *Hardware and Software Configuration in the QA LAN Environment*

ESE-CT (Application Server)	ESE-ID (Database Server)
-----------------------------	--------------------------

Hardware: Dell x86 with 2x2.8GHz & 3.75 GB RAM Software OS: RHEL 3 Application Server: Oracle Application Server 10g Release 2	Hardware: IBM P615 with 2X1.2 GHz & 12 GB RAM Software: OS: AIX 5L Database : Oracle 10.2.0.2
---	---

Table 4. *Hardware and Software Configuration in the Staging Environment*

Quarter (Application Server)	Percheron (Database Server)
Hardware: IBM Blade Software: O/S: Red Hat Enterprise Linux 3.0 Oracle Application Server 10g R2	Hardware: IBM P570 Software: O/S: AIX5.2 Oracle Database 10g rel2

Table 5. *Hardware and Software Configuration in the Production Environment*

Azteca (Application Server)	Shire (Database Server)
Hardware: IBM Blade Software: OS: Red Hat Enterprise Linux 3.0 Oracle Application Server 10g Release 2	Hardware: IBM P570 Software: OS: AIX5.2 Oracle Database 10g Release 2

4.2.3.1 Deployment Diagram

Figures 1 and 2 illustrate the network architecture, software and hardware needed for deployment in the Staging and Production environments, respectively.

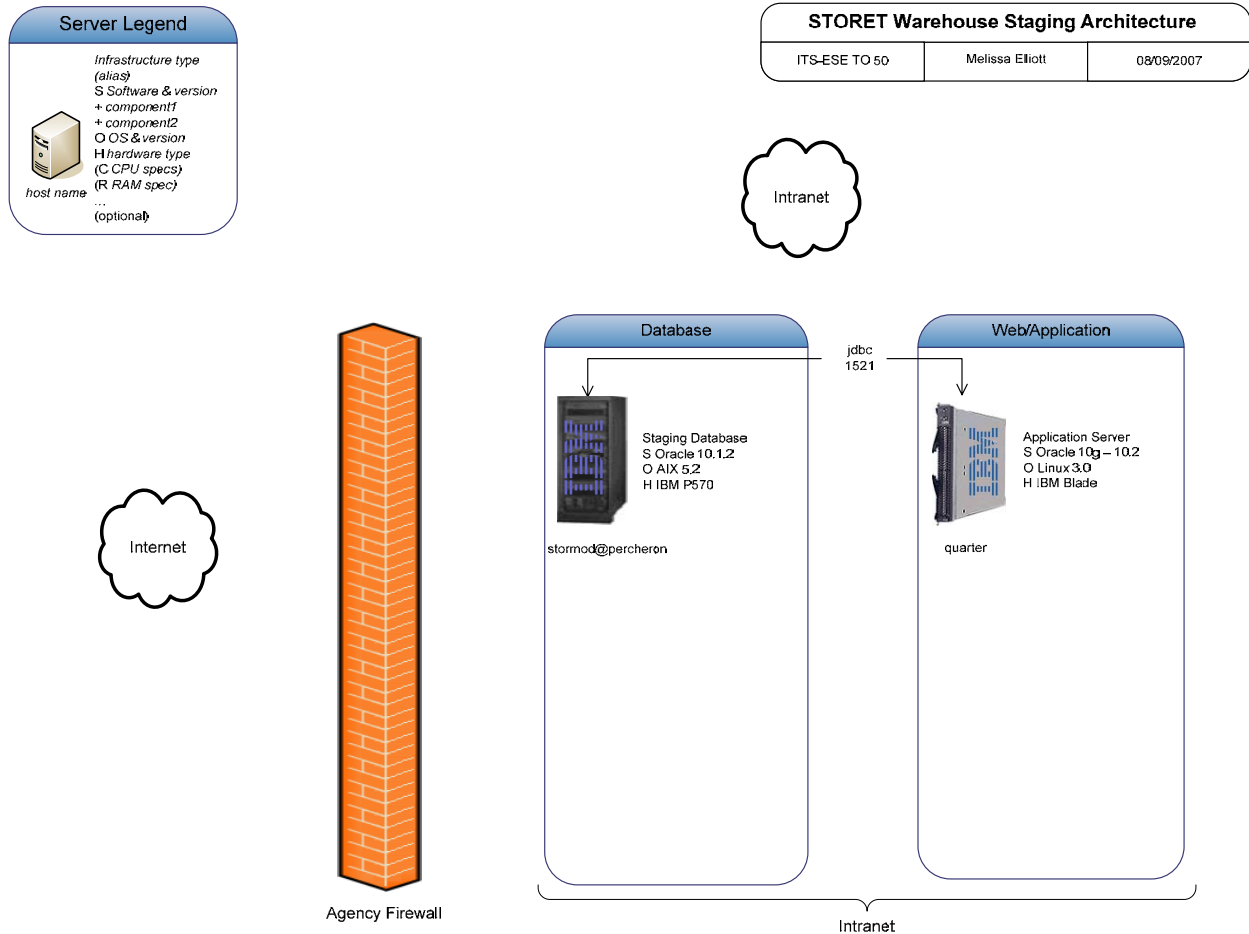


Figure 1.—STORET Warehouse Staging Environment Deployment Diagram.

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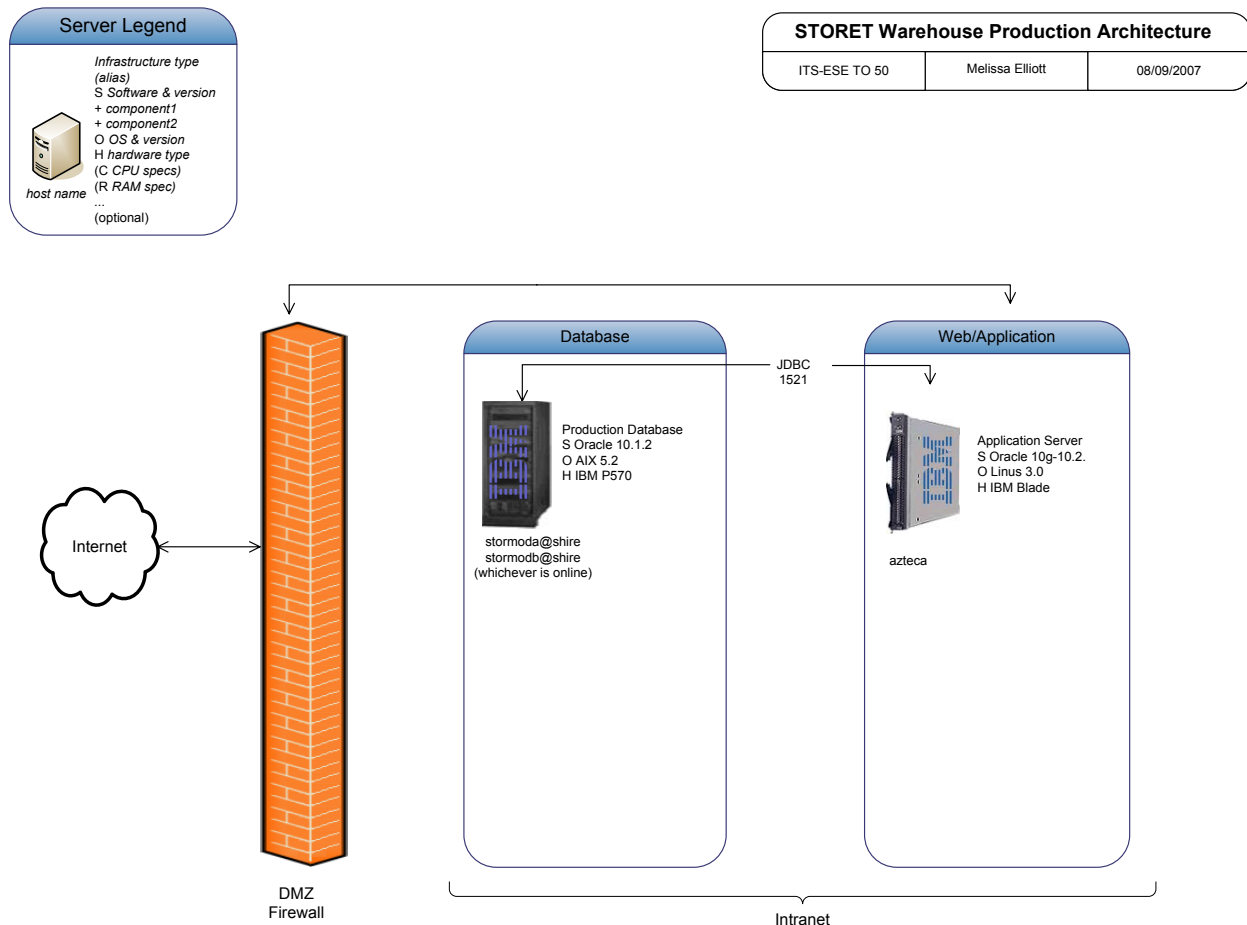


Figure 2.—STORET Warehouse Production Environment Deployment Diagram.

4.2.4 Commercial off the Shelf (COTS) Products

The application relies on the following COTS products:

- Oracle Database 10g Release 2
- Oracle Application Server 10g Release 2
- Internet Explorer 5.0 or higher

4.2.5 Metadata

Please refer to CI c20-Installation_instructions.txt header, as listed in Section 4.2.1, for database parameter settings

4.3 Changes Installed

Table 6 lists the changes in this release of the STORET Warehouse.

Table 6. Change Requests for This Release

ID	Description
ESE-WQX_CR_37	Warehouse Sequence Synchronization
ESE-WQX_CR_36	Include code to delete duplicate *POINT OF RECORD stations
ESE-WQX_CR_35	Report column name changes for Bio results downloads
ESE-WQX_CR_31	Cleanup individual result download files after performing Tape Archive (TAR)
ESE-WQX_CR_29	Implement Water Quality Exchange (WQX) ETL 1.0.4 database changes into the warehouse
ESE-WQX_CR_38	Integrate Web Services database changes into Warehouse ETL
ESE-WQX_DR_39	Increase di_project attributes datalength whose source is from tsmgntxt table

4.4 Interface Compatibility

The materialized views (MV_%) and the Web Services summary tables (ws_%) should be refreshed when there are changes to the result fact tables. This summary information is necessary for Web Services and Watershed Summary User Interface application.

Refresh the tables mentioned above with the following scripts:

- @storetw\materialized_views.sql;
- @storetw\web_services\create_station_summary_view.sql
- @storetw\web_services\create_ws_huc_org_summary.sql
- @storetw\web_services\create_ws_huc_char_summary.sql
- @storetw\web_services\create_ws_huc_org_char_summary.sql
- @storetw\web_services\create_ws_station_summary.sql

4.5 Adaptation Data

None

4.6 Installation Instructions

1. Extract STORETW and its contents from the STORETWH_PREPROD_05_31_2007_2.0.7.zip file into c:\storetw
2. Make a backup of the DW_GLOB_VAR package for current production setting
3. Delete STORETW objects in the STORMOD database
4. Follow instructions in c:\storetw\c20-Installation_instructions.txt to Install Data Warehouse
5. Test the deployed application using http://www.epa.gov/storet/dw_home.html or http://iaspub.epa.gov/stormodb/DW_home

Point of Contact if there are problems: Ganesh Thadkamalla (703) 647-5705

4.7 Possible Problems and Known Errors

The following are unresolved issues in this product.

4.7.1 Possible Limitations of Data and Binary Objects in the Result Download File

The Compression of the Result data files, metadata file, and related Project binary objects are performed by listing all the filenames explicitly in the UNIX TAR command. The wild character is not working when issued through Oracle's Java stored procedure. The download successfully tested for 37 project Binary Large Objects (BLOBS) as part of the Metadata Report and Result downloads. If the string of all the filenames exceeds 4000 characters, it may not include all the project binary objects in the compressed file.

APPENDICES

Appendix A

This appendix lists the updated versions of the software with their enhancements.

A-1 STORET Warehouse Release 2.0.8

STORET Warehouse Release 2.0.8 is a cumulative update/patch to Release 2.0.7. Apply the software CIs listed in section A-1.2 over the Release 2.0.7 Software CIs before creating the monthly warehouse.

A-1.1 Change Requests

Table 7 lists the change requests implemented in this patch release.

Table 7. Change Requests

ID	Description
ESE-WQX_CR_51	Update fa_station.geom column values during post WQX_ETL.
ESE-WQX_CR_55	Schedule the WS refresh process right after the ETL
ESE-WQX_CR_52	Conditional execution of Watershed refresh
ESE-WQX_CR_46	Integrate Project/Result/Station Web services DB changes to Warehouse ETL
ESE-WQX_CR_45	Eliminate more than one extraction of download for accessing data files.
ESE-WQX_CR_44	Move most parameters from dw_glob_var into mt_wh_config table
ESE-WQX_CR_43	Synchronize STORET Station type with WQX Station types for Warehouse
ESE-WQX_CR_42	Implement Warehouse CCB changes provided on 12 June, 2007 by Kevin
ESE-WQX_CR_41	Comment out project blobs creation as part of Result download.
ESE-WQX_CR_28	Tribal data flag in Station Characteristic level
ESE-WQX_CR_16	Add Measure N flag to fact tables and populate it accordingly
ESE-WQX_CR_60	Change WS_STORET_RESULT to a view and include only the regular result data.
ESE-WQX_DR_18	Correction to a connection in installation_instructions.txt
ESE-WQX_DR_17	Monthly Stats procedure failure in production

A-1.2 Software Inventory

Table 8 lists the software to be delivered to the EPA:

Table 8. Configuration Items

Workset Filename	Revision
APP_COLUMN_NAME.sql	1.5
APP_COLUMN_NAME_UPD.SQL	1.5
DW_glob_var.sql	1.2
DW_GRANTS.sql	1.4

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Workset Filename	Revision
mt_wh_config_procs.sql	1.9
DW_bio_result_criteria_geo.sql	1.3
DW_bio_result_criteria_project.sql	1.3
DW_bottom_of_page.sql	1.3
DW_hab_result_criteria_geo.sql	1.3
DW_hab_result_criteria_project.sql	1.3
DW_monthly_stats.sql	1.1
DW_process_data_request.sql	1.19
DW_result_count.sql	1.6
DW_result_criteria_geo.sql	1.3
DW_result_criteria_project.sql	1.3
DW_result_metadata.sql	1.10
DW_selection_criteria.sql	1.1
DW_selection_criteria_station.sql	1.1
DW_station_count.sql	1.4
c20-installation_instructions.txt	1.25
char_stn_table.sql	1.7
project_rel_tables.sql	1.5
fa_bio_result_table.sql	1.5
fa_habitat_result_table.sql	1.7
fa_regular_result_table.sql	1.5
fa_station_drop_cols.sql	1.1
fa_station_table.sql	1.8
mt_attribute_map.sql	1.2
statn_types_tables.sql	1.3
alter_station_project.sql	1.2
insert_web_methods_data.sql	1.1
project_char.sql	1.0
project_station_char.sql	1.1
ws_grants.sql	1.0
ws_org_activity.sql	1.1
ws_org_activity_project.sql	1.1
ws_station_view.sql	1.1

Workset Filename	Revision
ws_storet_result.sql	1.1
ws_synonyms.sql	1.4
SP_REFRESH_WS_TABLES_NEW.SQL	1.4
SP_RUN_WATERSHED_TAB_REFRESH.SQL	1.1
wh_ETL_synonyms.sql	1.1
WH_grants.sql	1.1
wh_new_obj.sql	1.2
Dw_permissions.sql	1.2
storetzip	1.2
DW_result_download_custom.sql	1.6
DW_result_hub_custom.sql	1.8
DW_station_download_custom.sql	1.4
DW_station_hub_custom.sql	1.5
SP_UPDATE_TRIBAL_IN_RESULTS.sql	1.4
ws_storet_result_view.sql	1.3
install_wh_db_changes.sql	1.3
SP_CREATE_INDEX_ON_FA_STN_GEOM.sql	1.1
SP_DROP_GEOM_DOMAIN_INDEX.sql	1.1
sp_pre_post_wqx_etl.sql	1.2

A-1.3 Installation Instructions

Copy the CIs in this release 2.0.8 over the Release 2.0.7 and follow steps in Section 4.6 for installing/creating the STORET Warehouse.

A-1.4 Resolved Issues from Last Release

This section lists the resolved issues that were reported in earlier releases.

- Eliminated the limitation of the number of files in a result download by replacing TAR and GZIP utilities with the ZIP utility