

Reusable Component Services (RCS)

2011 Exchange Network
National Meeting

John Harman, OIC
April 2011



What is RCS?



- The Reusable Component Services:
 - A registry of IT services, components, tools, solutions and other assets
 - A metadata catalog
 - Each record contains metadata about an asset
 - E.g., Name, description, contact
 - Capability to act as repository
 - E.g., data models or code
 - A flexible tool that is highly extensible
 - New assets and metadata fields can easily be added

Purpose of RCS



- Enable discovery and access of IT assets
 - Centralizes in one place a variety of IT assets created across silos and organizations
 - IT asset records can be made publicly visible or restricted to authorized users
- Improve management of IT assets
 - First step in management is to know what you have
- Serve as the “hub” registry
 - Acts as registry of record for certain IT assets
 - Harvests IT asset records from other registries
 - Identifies how assets are associated to one another

What is registered in RCS?

- **RCS presently catalogs the following IT assets:**
 - XML Schema
 - Exchange Network Services (from ENDS)
 - Nodes (from ENDS)
 - REST Web services
 - SOAP Web services
 - Systems (from EPA's system inventory)
 - Software Tools
 - Code libraries
 - Widgets
- **Examples of future IT asset types include:**
 - Data Sets (from dataset registry)
 - Data Models
 - Data Dictionaries (from data dictionary registry)

Benefits of RCS



- Enables discovery of IT assets
- Promotes knowledge transfer about IT assets
 - One organization interested in developing an IT asset can identify other organizations that have developed similar assets
 - Sharing lessons learned
- Supports reuse or partnering on asset development
- Adds meaning and value by showing relationships among the assets and classifying the assets with taxonomies or classification schemes
- Can help organizations manage their assets
 - Organizations “own” their records
 - EPA program, State, or Tribe can catalog its IT assets in RCS
 - Promotes management of assets is through stewardship
 - Stewards update their records through login and password



RCS Demonstration Screenshots



Home ▾

Asset Catalog ▾

Policies ▾

Administration ▾

Reports ▾

Operations ▾



Welcome

My RCS



Welcome to Reusable Component Services

What do you want to do next?

Search



Reusable Component Services

Application Shortcuts

[Inbox](#)[My Favorites](#)[Advanced Search](#)[Asset Catalog](#)

Useful Links

Online Resources

[CentraSite Developers Community](#)[CentraSite Community](#)[CentraSite Online Documentation](#)

User Preferences

Languages

[English](#)

Date Formats

[DD.MM.YYYY](#)[MM/DD/YYYY](#)[DD/MM/YYYY](#)[More Settings](#)

Browser - CentraSite Control - Windows Internet Explorer provided by EPA

https://rcs.epa.gov/PluggableUI/servlet/StartCISPage?PAGEURL=/PluggableUI/Login.html

File Edit View Favorites Tools Help

The Washington Post: Nation... Virtually There - Your Itinerary Browse - CentraSite Control

Home Feeds (1) Print Page Tools

ENVIRONMENTAL PROTECTION AGENCY

Harman, John My Account About Log Off

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Types

Update

☐

☐

Code Library

☐

☐

Data Exchange

☐

☐

Data Set

☐

☐

Exchange Network Ser

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☐

Node

☐

☐

REST Web Service

☐

☐

SOAP Web Service

☒

☐

Software Tool

☐

☐

System

☐

☐

Widget Tool

☐

☒

XML Schema

Assets (331)

Browse by: [None]

Add Asset...

Delete

Register as Consumer...

☒

☐

Name

☐

☐

DieselWise

DieselWise is designed to provide electronic submittal of applications, fleet inventories and reimbursement requests. Through this portal, equipment owners and operators will be able to submit their application materials, detailed fleet inventory information and other required state forms for review and approval by DieselWise Indiana staff. In those cases where funding is awarded and projects are underway, Grantees will be able to request reimbursement for costs incurred in an efficient electronic process through the DieselWise Indiana portal.

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Advance Notification of Transfer (ANT)

A web-base system for reporting oil transfers that occur through out the state.

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Emergency Spills Response and Underground Storage Tank - ESRUT

Release 2 will provide on-line access for the regulated community for registration and renewal of USTs.

☐

☐

eDEP Environmental Results Certification - Printers

Pre-populated, online fillable PDF form that enables company representative to complete, sign, pay fee, and submit the certification. Data migrates into backend database.

☐

☐

AEEME - STEERS

Web applications that allows registered sites to submit air emissions events such as upsets, start-up, shut down and opacity events electronically.

☐

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RMP*eSubmit

RMP*eSubmit is software for facilities to use in submitting Risk Management Plans (RMPs) required under the Risk Management Program. EPA asks that all facilities use this new method to submit RMPs because it is easy to use, will improve data quality, and will enable users to access RMP 24 hours a day, 7 days a week.

☐

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Septic System Permitting

Web application to allow the application for a septic system permit to be made online and the status of the application followed. This included a payment feature and workflow.

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PWS (Public Water Supply)

Our system is a Microsoft Access system known as the Electronic Sanitary Survey (ESS) developed by a contractor and is being customized to directly support and interact with the recognized SDWIS inventory for each facility. It will be aware of what machinery/processes are in use at each facility per SDWIS, and only asks the questions pertinent to that facility/machinery set. It is thus a "smart-form". It will directly populates data into SDWIS.

☐

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Land Use Permits

Software Tool

1.0

Software Tool

1.0

Software Tool

1.0

Software Tool

1.0

Software Tool

1.0

Software Tool

1.0

Software Tool

1.0

Software Tool

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Software Tool

1.0

Welcome Browse Search EE 1.0 - Software Tool UV Index 1.0 - Widget Tool

Done Local intranet 100%

Search - CentraSite Control - Windows Internet Explorer provided by EPA

https://rcs.epa.gov/PluggableUI/servlet/StartCISPage?PAGEURL=/PluggableUI/Login.html

Google

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The Washington Post: Nation...

Virtually There - Your Itinerary

Search - CentraSite Control


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Asset Search

Saved Searches

KeywordAdvancedXQuery

SearchSave

Assets (7)

Add Asset...DeleteRegister as Consumer...

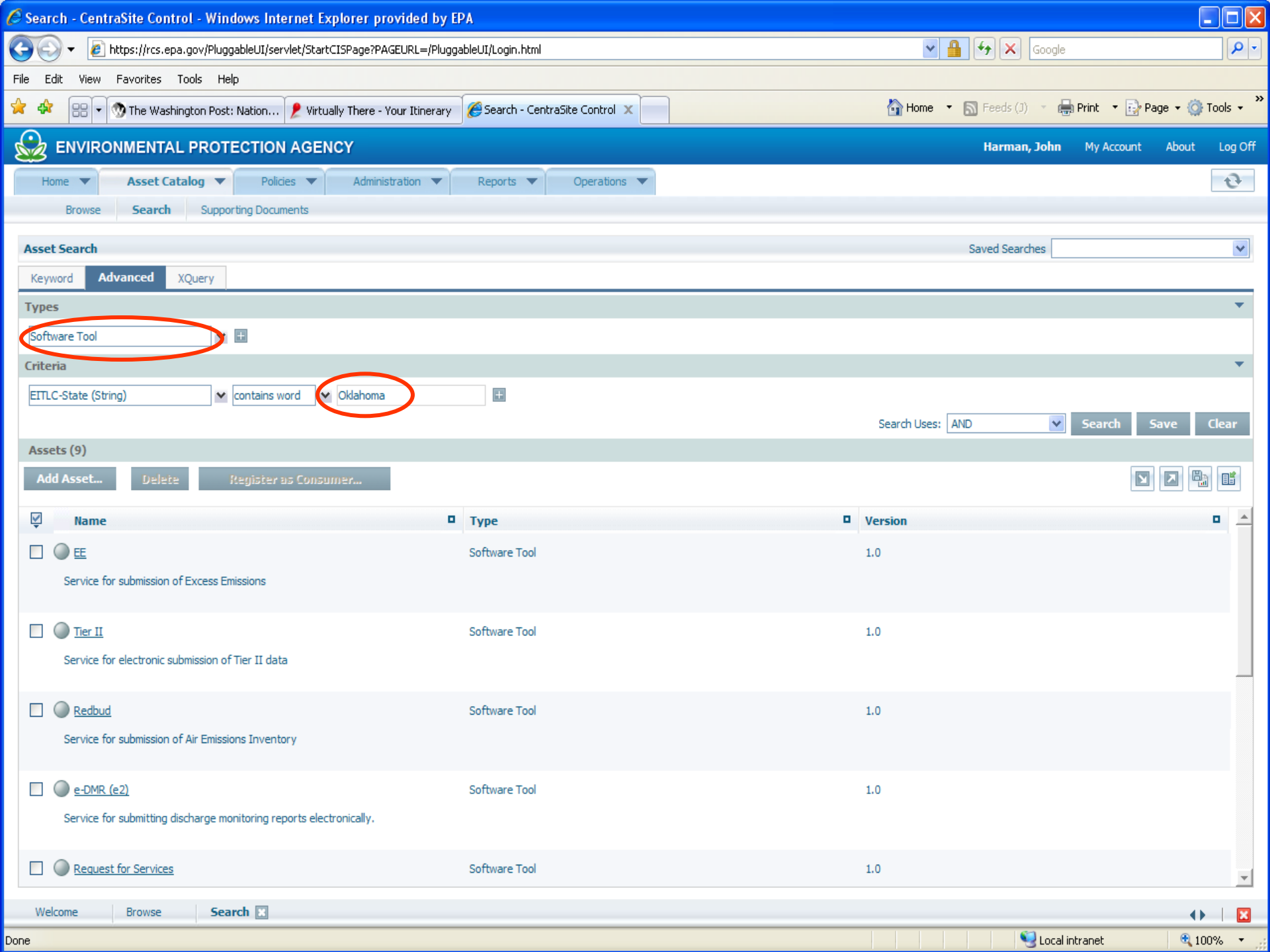
<input checked="" type="checkbox"/>	Name	Type	Version
<input type="checkbox"/>	System for Risk Management Plans <p>The RMP system is a suite of applications designed for the submission, receipt, processing, public display, and analysis of Risk Management Plans (RMP). These are required by the Clean Air Act's chemical accident prevention mandates. Facilities having certain toxic and/or flammable chemicals must report an RMP. The plans submitted are a summary of a program required to be at the plant site which deals with a facility's chemical accident potential, plans for prevention, response plans, accident history, registration information, chemicals and processes involved, and off-site consequence analysis information, which describes the worst case and alternate case accident scenarios for chemical processes at the facility. The plans have been deemed to be of potential interest to terrorists, a concern raised even before the RMPs were first collected in 1998 but after the system was almost complete in its first development phase. The system has undergone significant change since this inception to accommodate rising security concerns, amendments to the Clean Air Act restricting access to the data, and after 9-11 removal of the public display of the database from the EPA website.</p>	System	1.0
<input type="checkbox"/>	Aerial Locations of Hazardous Atmospheres (ALOHA) <p>ALOHA® is an atmospheric dispersion model used for evaluating releases of hazardous chemical vapors, including toxic gas clouds, fires, and explosions. Using input about the release, ALOHA generates a threat zone estimate. A threat zone is the area where a hazard (such as toxicity, flammability, thermal radiation, or damaging overpressure) is predicted to exceed a user-specified level of concern. Threat zones can also be plotted on maps with MARPLOT to display the location of facilities storing hazardous materials and vulnerable locations (such as hospitals and schools). Specific information about these locations can be extracted from CAMEO information modules to help make decisions about the degree of hazard posed.</p>	Software Tool	1.0
<input type="checkbox"/>	RMP*Comp <p>RMP*Comp is an electronic tool used to perform the off-site consequence analysis required under the Risk Management Program rule published by the Environmental Protection Agency on July 20, 1996, which implements Section 112(r) of the Clean Air Act.</p>	Software Tool	1.07
<input type="checkbox"/>	RMP*eSubmit <p>RMP*eSubmit is software for facilities to use in submitting Risk Management Plans (RMPs) required under the Risk Management Program. EPA asks that all facilities use this new method to submit RMPs because it is easy to use, will improve data quality, and will enable users to access RMP 24 hours a day, 7 days a week.</p>	Software Tool	1.0
<input type="checkbox"/>	RMP*Review <p>RMP*Review is a software program designed for reviewing and analyzing Risk Management Program (RMP) information submitted under the Clean Air Act, Section 112(r).</p>	Software Tool	4.3

WelcomeBrowseSearch

EE 1.0 - Software ToolUV Index 1.0 - Widget Tool

Done

Local intranet100%



<input checked="" type="checkbox"/>	Name	Type	Version
<input type="checkbox"/>	EE Service for submission of Excess Emissions	Software Tool	1.0
<input type="checkbox"/>	Tier II Service for electronic submission of Tier II data	Software Tool	1.0
<input type="checkbox"/>	Redbud Service for submission of Air Emissions Inventory	Software Tool	1.0
<input type="checkbox"/>	e-DMR (e2) Service for submitting discharge monitoring reports electronically.	Software Tool	1.0
<input type="checkbox"/>	Request for Services	Software Tool	1.0

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PHIN VADS - Search Value Sets

Workbook: GOP begins maki...

e-DMR (e2) 1.0 - Softwar...

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Software Tool

Name:

e-DMR (e2)

Description:

Service for submitting discharge monitoring reports electronically.

Version:

1.0

Created:

2010-08-19 03:11 PM

Last Modified:

2011-04-14 06:18 PM

Lifecycle State:

Approved

Organization:

US EPA and Partners

Owner:

Galindo, Lico US EPA and Partners

Save

Close

Actions

BasicEITLCContactConsumersPermissionsVersionsSubscriptionsAudit LogObject-Specific PropertiesClassificationsAssociationsExternal Links

AttributeValue(s)

EITLC-Type:

eReporting

Connection-Type:

N/A

Connectivity-Method:

N/A

Document-Management-Included:

☒ Yes ☐ No

Document-Management-Description:

All CROMERR related submissions feed into Oklahoma DEQ's imaging system (Edoctus) as COR

Document-Management-Method:

Custom per Vendor

GIS-capable:

No

GIS-Solution-Description:

CROMERR-compliant:

Yes

Additional-Comments:

The public facing component is a web application. This feeds an internal client/server system (NMS)

Additional-Benefits:

This system is a comprehensive solution to all things NPDES.

EITLC-State:

Oklahoma

WelcomeSearche-DMR (e2) 1.0 - Software Tool

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Supporting Documents



System

Name: Substance Registry Services

Description: The Substance Registry System (SRS) is EPA's central system for information about regulated and monitored substances. SRS identifies which programs track or regulate which substance and the name used for

Version: 1.0

Created: 2011-04-22 12:07 PM

Last Modified: 2011-04-22 02:27 PM

Lifecycle State: New

Organization: [US EPA and Partners](#)Owner: [Harvester, RCS](#) [US EPA and Partners](#)

Save

Close

Actions

Basic

Contact

Consumers

Permissions

Versions

Subscriptions

Audit Log

Object-Specific Properties

Classifications

Associations

External Links



Add Association...

Delete



<input checked="" type="checkbox"/>	Name of Source Object	Association Type	Direction of Association	Name of Target Object
<input type="checkbox"/>	Substance Registry Services	ConsumedBy	⇒	SRS
<input type="checkbox"/>	System of Registries	HasChild	⇒	Substance Registry Services

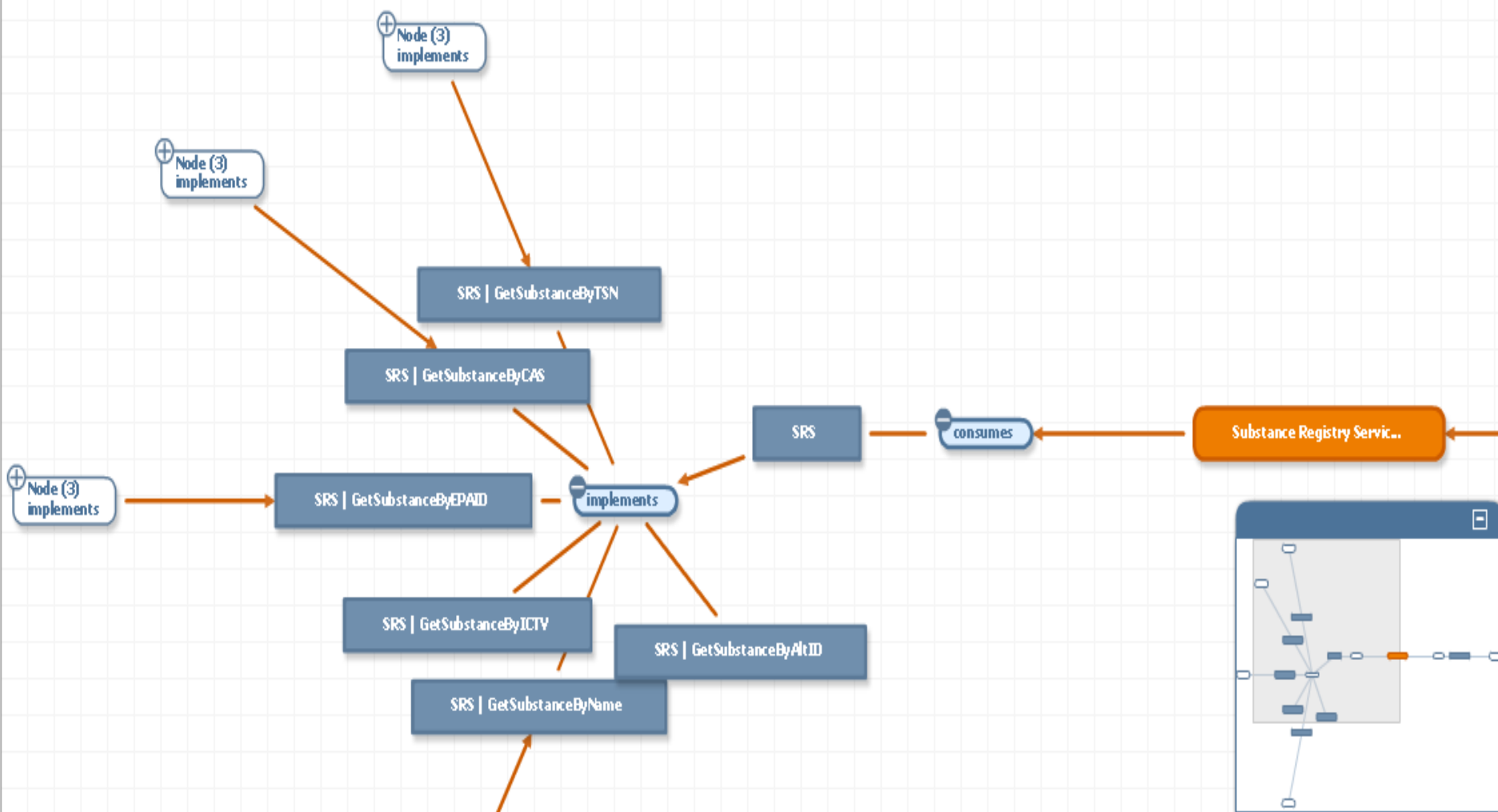
Welcome

Browse

Substance Registry Services 1.0 - System



Switch to Tabular View



Outreach on RCS



- EPA/OEI is conducting outreach to EPA program offices and other partners on RCS
 - Meeting with the owners of all significant systems
 - New EPA staff is tasked with leading outreach
 - EPA/OEI will register assets
 - Then transfer ownership to asset owners
- EPA would like to learn from State and Tribal agencies how to conduct outreach on RCS and to provide RCS demonstrations

Requesting a User ID and Password

Reusable Component Library Services | Reusable Component Services | US EPA - Windows Internet Explorer provided by EPA

www.epa.gov/rcs

File Edit View Favorites Tools Help

US EPA TAM Self Registration Page Reusable Component Libr...

Home Feeds (0) Print Page Tools

U.S. ENVIRONMENTAL PROTECTION AGENCY

Reusable Component Services

Contact Us Search: All EPA Go Advanced search

You are here: EPA Home » SoR Home » Reusable Component Services Home » Overview

Home Search & Retrieve Outreach & Education Training

Overview Basic Information What Is a Reusable Component? Vision Quality How RCS Supports Roles

 **Improving the Quality of Environmental Information Systems and Services**

Reusable Component Services provides a central point of access to a broad range of components and services (i.e., information assets) catalogued and stored in various registries and repositories. The Registry enables reuse of components, which helps reduce costs, speed development, and produce higher-quality systems and applications.

RCS is the main infrastructure registry for the agency's Software Oriented Architecture (SOA)

RCS allows users to:

- Catalog reusable information assets for EPA and its partners
- Load metadata (i.e., register) about assets
- Load assets not currently tracked in other agency systems
- Harvest metadata from other agency registries and repositories
- Relate services, data assets, and the systems and applications
- Access a single interface by which users can search for all assets regardless of their type and location

By enabling and promoting reusability, RCS results in the development of applications:

- That conform to standards
- Of higher quality
- At reduced cost
- In shorter time

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https://iaspub.epa.gov/sor_internet/registry/reusereg/home/overview/home.do

[Print As-Is](#)

Last updated on Wednesday, April 20, 2011

www.epa.gov/rcs

Local Intranet 100%



System of Registries

Contact Us

Search:

All EPA

Go

Advanced search

You are here: [EPA Home](#) >> [SoR Home](#) >> [Login](#)

Login for EPA and Partners

EPA provides public internet access to most of the System of Registries (SOR) content through the SOR Home page.

Individuals who develop, review, and maintain content, or system developers supporting EPA and its partners, may access additional content through a login process. If you are responsible for any of the listed activities, please follow the login instructions in order to gain access to the secured portion of the SOR.

WARNING NOTICE: This is a United States Environmental Protection Agency (EPA) computer system, which may be accessed and used only for official Government business. Unauthorized access or use of this system may subject violators to criminal, civil, and/or administrative action. All information on this computer system may be monitored, recorded, read, copied, and disclosed by and to authorized personnel for official purposes, including law enforcement. Access or use of this computer system by any person, whether authorized or unauthorized, constitutes consent to these terms. Clicking the Login button constitutes consent to these terms.

Login

User ID

Password

Login

Login Instructions

EPA Employees and others with an EPA LAN ID:

Your user name is your LAN ID. Your password is your LAN password.

Non-EPA Users (e.g., business partners, state and tribal government employees, university researchers, and anyone who does not have an EPA LAN ID and password):

[CLICK HERE](#) to register for access to the EPA Portal. In order to register, you must have an EPA Employee sponsor your access. Please list that person's name on the registration form.

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https://iaspub.epa.gov/sor_internet/registry/sysofreg/login/login.do
[Print As-Is](#)

Last updated on Wednesday, April 20, 2011

www.epa.gov/rcs

US EPA

http://oaspub.epa.gov/portal/page/portal/GENERAL_PAGE_GROUP/IAM_Self_Registration_Page?postalCode=24060&country=US%20&emailAddress=johnharman@live.com&s

Google

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US EPA IAM Self Registration Page

US EPA IAM Self Registration Page

Home Feeds (1) Print Page Tools

USE THIS FORM ONLY if you do not have an EPA LAN account. If you are an EPA employee or an on-site contractor and you already have an EPA LAN account you DO NOT need to complete this form. (User Name = your LAN id and Password = your LAN password)

ALL FIELDS ARE REQUIRED

First Name:John

Last Name:Harman

Email Address:johnharman@live.com

format: emailld@don

Street Address:

City:

Country:

State/Province/Region:

Postal Code:

Daytime Phone Numb

EPA Contact Name:

EPA Contact's Email A

format: emailld@don

EPA Contact's Phone

format: (xxx) xxx-xxxx

Passwords must be a

Password:

Confirm Password:

Select One

Air Analysis

ARRA Inter-Agency Subcommittee Workspace (AISW) Wiki

Borders Gateway

CADDIS - Causal Assessment Diagnosis Decision Info Sys

Climate Ready Water Utilities Wiki

Community-Focused Exposure and Risk Screening Tool (C-FERST)

CRSSM Docs Wiki

CRSSM Projects

Data Finder Blog

Emergency Management Portal

Emissions Inventory System

Environmental Science Connector

ER FTPS External User Registration Community

ESE Connection General Access

ESE Connection Privileged Access

Field Activity Compliance Technology (FACT) Wiki

Finding Understanding Using Environmental Indicators Blog

General Portal Access

Geospatial

GRTS OBI Reporting

Guidelines for Evaluating EPA Partnership Programs (GEEPP) Wiki

HERONet

Library Network Wiki

National Estuary Program Wiki/Blog

NCC Development Environment

Partnership Local Action Wiki

Registry of EPA Applications and Databases

Septic (Decentralized) Wiki

System of Registries

Select One

☒ I accept the EPA Privacy & Security Notice. Click here to read [Click](#).

SubmitCancel

DoneLocal intranet100%

Next Steps



- Harvest records from EPA's data set registry and from EPA's data dictionary registry
 - Create associations with other assets already registered in RCS
- Continue outreach to EPA program offices and partners to identify new assets
- Work with EPA program offices and partners to improve metadata for existing records
- Develop RCS widgets to enable users to create linkages from their websites to RCS


Improving the User Interface



United States Environmental Protection Agency

[Sign In](#) [FAQs](#) [Help](#)



-- Select Group -- 

Search Browse Advanced Search

waters

Search

Popular Searches

1. Download data
2. Data model
3. Guidance
4. Node
5. Standards

[more...](#)

Popular Tags

1. Air Quality
2. Code Library
3. NGN
4. Node
5. SOAP

[more...](#)



24 results for

"waters"

X

Search

Asset Types

[Code Library](#)
[Data Exchange](#)
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[Software Tool](#)
[System](#)
[Widget Tool](#)
[XML Schema \(active\)](#)

EPA Offices

[Office of Air and Radiation](#)
[Office of Chemical Safety and Pollution Prevention](#)
[Office of Enforcement and Compliance Assurance](#)
[Office of Environmental Information](#)

Classification

[Data Categories](#)
[Data Set Types](#)
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[Exchange Network Classification Scheme](#)
[ISO Topic Categories](#)
[Service Component Reference Model](#)

Lifecycle Phase

[Planning](#)

WATERS JavaScript Library

The WATERS JavaScript Library provides an easy to use interface that hides the complexities of calling the WATERS HTTP services. The library supports both AJAST and AJAX style requests. The below diagram depicts how the library fits into a consumer application and the WATERS Service architecture.

Source: [Exchange Network](#)

Tags: [water](#), [library](#), [services](#)

Helpful? ★★★★★ (2 votes)

Version: 2.0

Lifecycle: Production

Washington Fish Tissue

Interagency exchange of fish tissue monitoring data in an effort to better integrate environmental data with human health data. The Department of Health uses web services to access fish tissue sampling results located on the secure Network Node at the Department of Ecology.

Source: [Registry of EPA Applications and Databases \(READ\)](#)

Tags: [data exchange](#), [node](#)

Helpful? ★★★★★ (0 votes)

Version: 1.0

Lifecycle: Development

Point Indexing Service

The Point Indexing service is a subset component of the Event Indexing Service providing a simplified point indexing function for linking a point to the National Hydrography Dataset via either a straightforward shortest distance snap or via raindrop indexing utilizing the NHDPlus flow direction grid...

Source: [Data Registry Services](#)

Tags: [SOAP](#), [web service](#)

Helpful? ★★★★★ (5 votes)

Version: 5a

Lifecycle: Production

Get Entities Miles by Lat/Long Service

Query for identifying details of all water entities within a given radius of a specified geographic location for specific WATERS programs.

Source: [Terminology Services](#)

14 results for

"waters" X

XML Schema X

Asset Sub-Types

[EN-PRI](#)
[EN-SEC](#)
[EN-SSC](#)
[EPA](#)
[Other](#)

EPA Offices

[Office of Air and Radiation](#)
[Office of Chemical Safety and
Pollution Prevention](#)
[Office of Enforcement and
Compliance Assurance](#)
[Office of Environmental
Information](#)

Classification

[Data Categories](#)
[Data Set Types](#)
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[Exchange Network Classification](#)
[Scheme](#)
[ISO Topic Categories](#)
[Service Component Reference](#)
[Model](#)

Lifecycle Phase

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[Development](#)
[Production](#)
[Retired](#)

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Helpful? ★★★★★ (2 votes)

Version: 2.0

Lifecycle: Production

Get Entities Miles by Lat/Long Service

Query for identifying details of all water entities within a given radius of a specified geographic location for specific WATERS programs.

Source: [Terminology Services](#)

Tags: [soap](#), [web service](#), [water](#)

Helpful? ★★★★★ (2 votes)

Version: 1.0

Lifecycle: Production

Water Quality (WQDE)

The WQDE builds on the Water Quality eXchange (WQX) and features an enhanced WQX schema and web services for submitting project descriptions, images, and data. It supports the sharing of water quality data among federal, state, private, and non-profit partners.

Source: [Data Registry Services](#)

Tags: [data exchange](#), [water](#)

Helpful? ★★★★★ (10 votes)

Version: 1.0

Lifecycle: Production

Pesticide Product Registration and Licensing

System allows manufacturers of pesticide products to register their products online and license pesticide applicators.

Source: [Substance Registry Services](#)

Tags: [software tool](#), [pesticide](#)

10 results for

"waters"	X
XML Schema	X
"javascript"	X

Asset Sub-Types

[EN-PRI](#)
[EN-SEC](#)
[EN-SSC](#)
[EPA](#)
[Other](#)

EPA Offices

[Office of Air and Radiation](#)
[Office of Chemical Safety and Pollution Prevention](#)
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[Service Component Reference Model](#)

Lifecycle Phase

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WATERS JavaScript Library

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Source: [Exchange Network](#)

Tags: [water](#), [library](#), [services](#) 

Helpful?      (2 votes)


Version: 2.0

Lifecycle: Production

Get Entities Miles by Lat/Long Service

Query for identifying details of all water entities within a given radius of a specified geographic location for specific WATERS programs.

Source: [Terminology Services](#)

Tags: [soap](#), [web service](#), [water](#) 

Helpful?      (2 votes)

Version: 1.0

Lifecycle: Production

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Source: [Data Registry Services](#)

Tags: [data exchange](#), [water](#) 

Helpful?      (10 votes)

Version: 1.0

Lifecycle: Production


Superfund Enterprise Management System

The Superfund Enterprise Management System (SEMS) is an integration of OSWERs four primary Superfund data collection, reporting and tracking systems: ICTS, SeFACTS, CERCLIS, and SDMS. It will serve as the single official source of primary site activity data, records, support documentation: Essentially all Superfund data and documents.

Source: [Registry of EPA Applications and Databases \(READ\)](#)

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WATERS JavaScript Library go to component homepage

Helpful? ★ ★ ★ ★ ★  [Print](#)  [Email](#)[Summary](#) | [Basic](#) | [Technical](#) | [Contact](#) | [Consumers](#) | [Versions](#) | [Subscriptions](#) | [Audit Log](#) | [more ▶](#)Tags: [water](#), [library](#), [services](#), 

Summary

Asset Name: WATERS JavaScript Library**Asset Description:** The WATERS JavaScript Library provides an easy to use interface that hides the complexities of calling the WATERS HTTP services. The library supports both AJAST and AJAX style requests. The below diagram depicts how the library fits into a consumer application and the WATERS Service architecture.**Asset Type:** Code Library**Version:** 1.0**Owner:** [Galindo, Lico](#)**Organization:** US EPA and Partners**Created:** 02/15/2011 10:00 AM**Modified:** 02/18/2011 05:02 PM