



“Managing Meaning Today and Semantics Tomorrow”

Cafritz Conference Center, GW University



Exchange Network Registry

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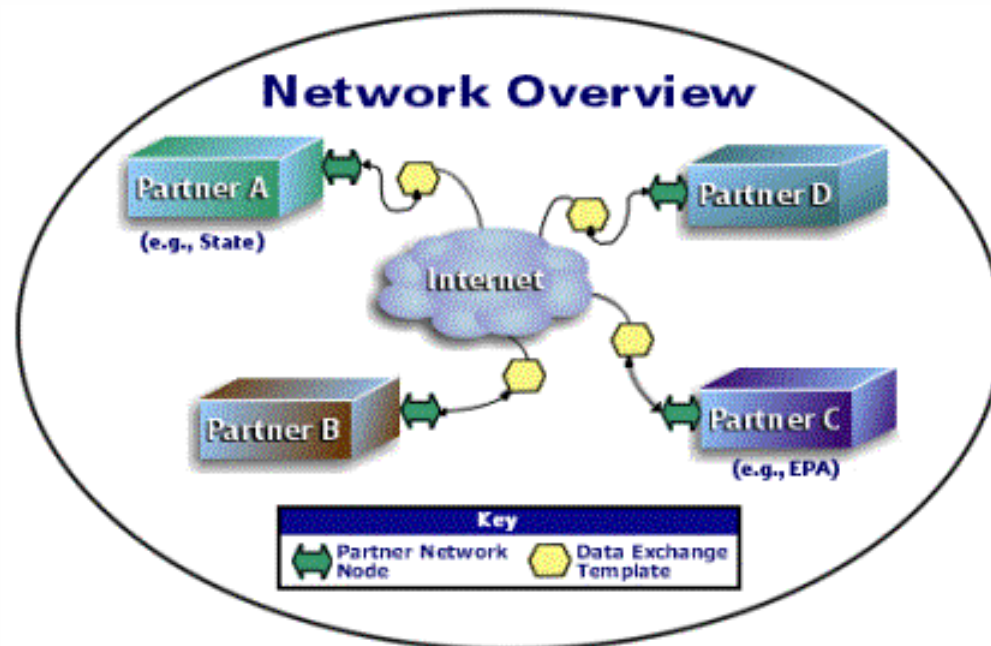
Objectives

- Why do we need it?
- How did we get there?
- What does it look like?





What is the Exchange Network?

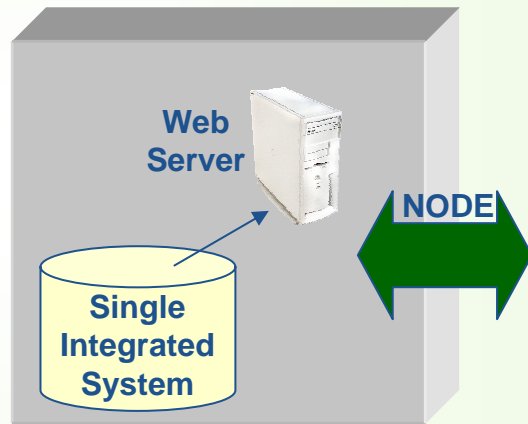
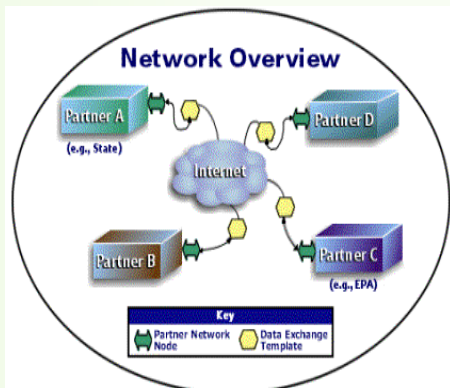


An Internet and standards-based method for exchanging environmental information between partners.



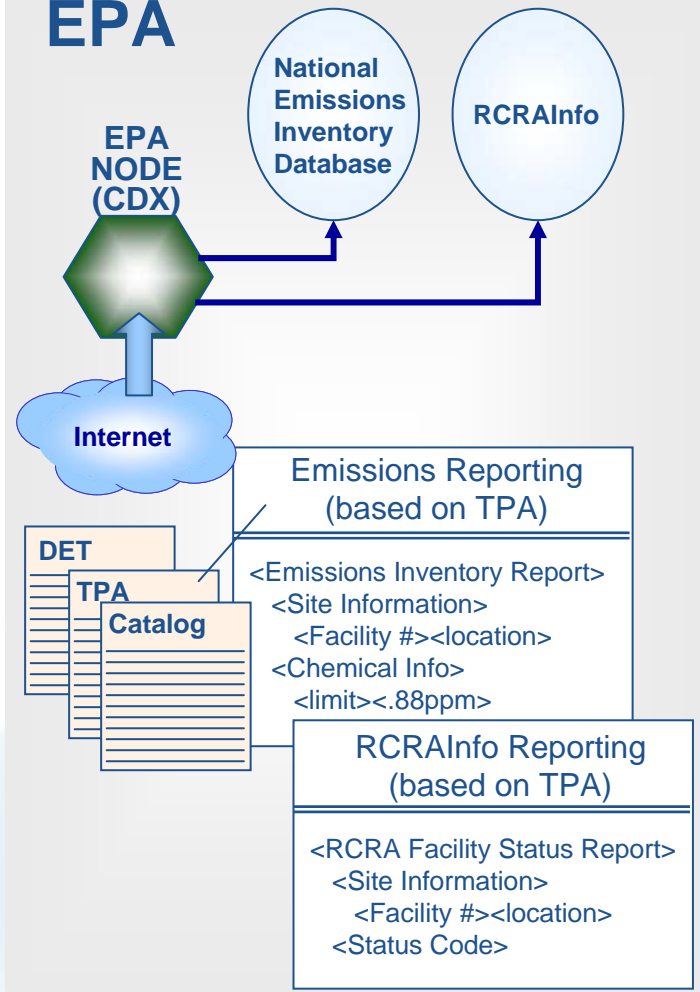
How the pieces fit together

State Environmental Department



State systems may or may not be integrated.

EPA





Why do we need a Registry?

- The Exchange Network key components need to be managed for version control and sharing
 - XML Schema /DET Templates used to flow data
 - WSDL Files – the methods used on a functioning Network Node
 - Node Configuration Files – Freeware for installing a Network Node
- Want to ensure partners are using the correct schema and are informed of changes



How did we build the Registry?

- Technical Resource Group (TRG) – completed a requirements analysis for all functionality needed and desired
 - Unfortunately, the market hasn't "demonstrated" Registry software to meet all requirements
 - TRG offered an interim solution to meet minimum requirements that would utilize an existing framework.
 - Interim solution utilizes exchange network website (www.exchangenetwork.net) and the existing U.S. EPA, Environmental Data Registry (EDR).



Exchange Network Registry (cont'd)

XML Registry - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://oaspub.epa.gov/emg/xmlsearch\\$.startup](http://oaspub.epa.gov/emg/xmlsearch$.startup)

Exchange Network

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XML Registry

Welcome to the interim XML Registry for the Environmental Information Exchange Network. This Registry will provide the capability to share information about XML Data Exchange Template (DETs), XML Schemas, Namespaces, WSDL files, and other supporting files needed to map data flows between partners. The Registry will contain information about schemas approved for use on the Network, as well as information about schemas under development. In time, the XML Registry will provide a clearinghouse for information related to data flows on the Network.

Data Submission

Registration of new schema information in the interim XML Registry can be done using a spreadsheet data template. Below is the draft data input template and an example template for FRS schema data.

- [Draft Data Template \(.xls\)](#)
- [Data Template with Example FRS Schema Data \(.xls\)](#)

To submit new information please contact: Larry Fitzwater via email at fitzwater.larry@epa.gov or at 202-566-1653.

XML Object Search

XML Registry - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://oaspub.epa.gov/emg/xmlsearch\\$.startup](http://oaspub.epa.gov/emg/xmlsearch$.startup)

at 202-566-1653.

XML Object Search

A complete list of registered [DETs/XML Schemas](#) for major Network data flows are available. XML Object Search can access all information in two ways:

- To search for a specific word or phrase, enter text (e.g., water) or a text string (e.g., Water Quality) in the keyword field. The search will query all XML object types, unless a specific XML object type (e.g., XML Schema) is selected from the pull-down list. The keyword portion of the XML object search queries all text fields (e.g., name, acronym, abstract, etc.).
- To obtain a complete list of XML Objects by type (e.g., XML Schema), select type from the pull-down list and leave the keyword field blank.

Keyword:

Search Options: Containing Beginning With Exact Match

Type:

Exchange Network

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Exchange Network Registry (cont'd)

XML Object List : - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://oaspub.epa.gov/emg/portal.xml_query Go Links >>

Environmental Information
exchange Network

Exchange Network.Net

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Search for XML Objects containing "Facility"

Click on a name to obtain detailed information.

Name	Type
EDWR_PWSFacility_v1.xsd	XML Schema
FACID_FacilitySiteAllDetails_v2.1.xsd	XML Schema
FACID_FacilitySiteAll_v2.1.xsd	XML Schema
FACID_FacilitySiteDataType_v2.1.xsd	XML Schema
FACID_FacilitySiteDetails_v2.1.xsd	XML Schema
FACID_FacilitySiteList_v2.1.xsd	XML Schema
Facility Registry System Schema	Registry Package

Records 1 to 7 of 7

Exchange Network

This web site is owned by NSB. Send email to webmaster@exchangenetwork.net with questions or comments about this web site.

Start | XML Object List : - Mic... | Inbox - Microsoft Outlook | Microsoft PowerPoint - [... | Document1 - Microsoft ... | 11:14 AM



Exchange Network Registry (cont'd)

- What type of data is managed
 - Metadata related to XML Schema
 - XML schema files (individuals) and packages (e.g., complete FRS XML Schema Package)
 - Supporting documentation for XML schema (e.g., fact sheets, read me files, state experiences)
 - WSDL files for Node functions (coming soon)
 - Demonstrated Node Configuration Software (coming soon)



Demonstration

- Demonstration of the Exchange Network Registry





Contacts



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