"Managing Meaning Today and Semantics Tomorrow"

Cafritz Conference Center, GW University

Exchange Network Registry

Pat Garvey, EPA Director, Network Steering Board
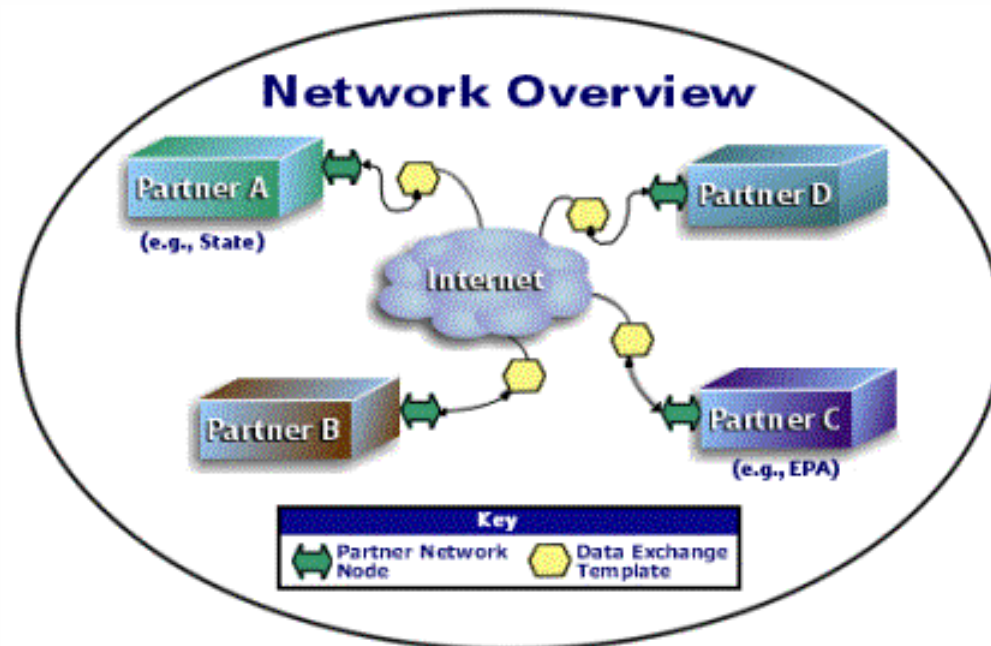Molly O'Neill, State Director, Network Steering Board

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

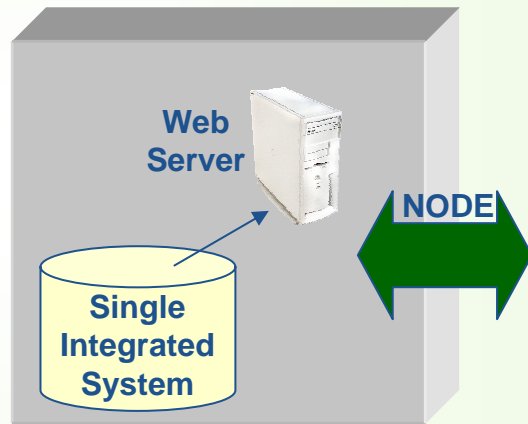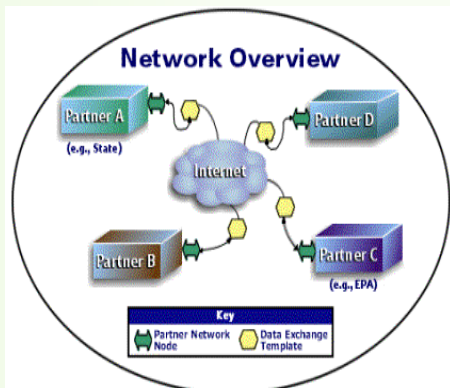*An Internet and standards-based method for exchanging environmental information between partners.*

State Environmental Department
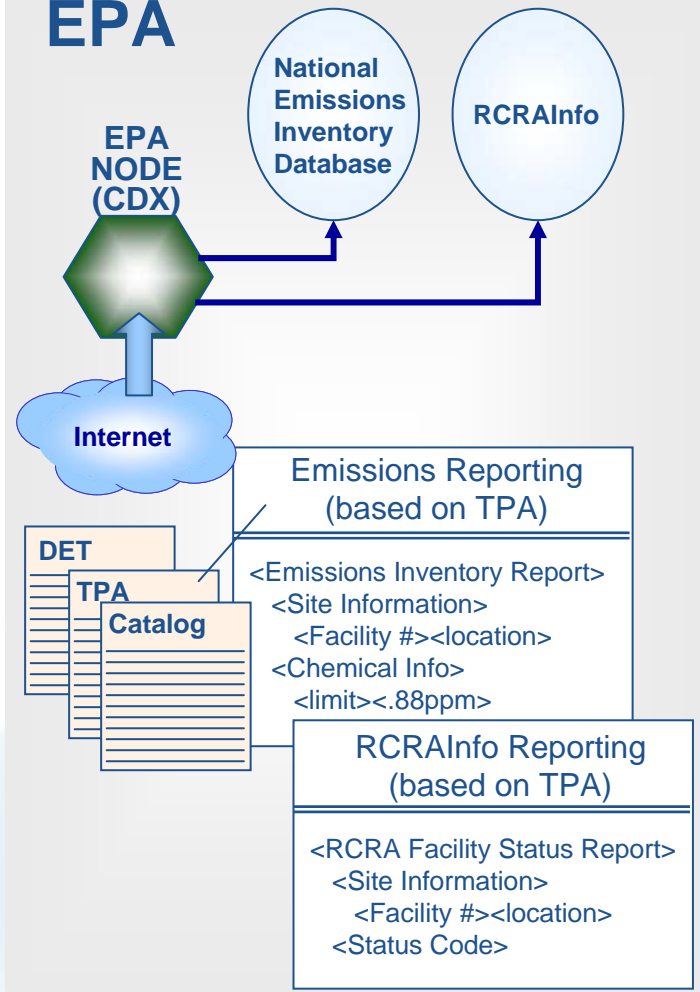
Network Overview

Partner A (e.g., State)

Partner D

Internet

Partner B

Partner C (e.g., EPA)

Key
Partner Network Node   Data Exchange Template

Web Server

Single Integrated System

NODE

State systems may or may not be integrated.

EPA

EPA NODE (CDX)

National Emissions Inventory Database

RCRAInfo

Internet

DET
TPA
Catalog

Emissions Reporting (based on TPA)

<Emissions Inventory Report>
 <Site Information>
  <Facility #><location>
<Chemical Info>
 <limit><.88ppm>

RCRAInfo Reporting (based on TPA)

<RCRA Facility Status Report>
 <Site Information>
  <Facility #><location>
 <Status Code>

- 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

- 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)

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- 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 of the Exchange Network Registry

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