



Central Data Exchange



The Central Data Exchange (CDX) is EPA's center of excellence for electronic reporting and data exchange via the web and as EPA's point of presence on the Environmental Information Exchange Network. CDX manages thousands of data transactions with States, Tribes, industry, and other federal agencies through a service oriented architecture. CDX provides standardized and secure information collection services that meet the needs of many EPA Program partners throughout the Agency. CDX will continue to expand, adding more data flows and services to simplify reporting, improve data quality and reduce burden for its customers.

Background

The Government Paperwork Elimination Act (GPEA) establishes a framework that requires and promotes electronic reporting when it can contribute to reduced burden on the public. CDX is EPA's response to GPEA to help with this burden reduction. In addition, the states and EPA, recognizing the need for an information exchange system to meet the needs of environmental decision-makers at all levels, committed to a partnership to build an environmental data exchange system. EPA and States proposed the development of the Exchange Network. The Exchange Network connects EPA and state environmental databases over the Web using CDX as EPA's exchange Node on the Exchange Network.

Current Status

Over the past two years, CDX has delivered an average of 110,000 submissions annually to EPA. Currently, CDX has over 120,000 user registrations. CDX supports nearly 50 environmental data exchange activities with their electronic reporting and data exchange needs. In addition, 20 Programs are currently in varying stages of planning or design for future deployment. EPA is also in the process of expanding CDX to support data exchanges with other federal agencies as well as internationally. The Office of Environmental Information has continued to drive down the cost reporting and data exchange by making available centralized services that can be leveraged by multiple EPA Programs.

On-going Activities

- Operating, maintaining and enhancing CDX, and continuing to evolve with new technology to provide the most cost effective data flow services
- Partnering with States, Tribes, EPA Programs and Regions to implement successful information sharing on the Exchange Network;
- Deploying new data flows and services, such as automated fee collections and messaging/alerts subscriptions;
- Implementing services that allow for electronic reporting of confidential business information; and
- Helping system owners comply with the Cross-Media Electronic Reporting Regulation standards.

CDX BENEFITS

- **Simplified reporting:** Complete one electronic form instead of multiple paper forms.
- **Improved data collection:** Increased data quality, timeliness, accessibility, and security
- **Reduced burden:** Reduce time and resources expended to fill out and process submissions.
- **Reduced costs:** Centralized, shared services eliminates the need for redundant data systems and reduces data collection and management costs
- **CROMERR Support:** Centralized services to comply with the Cross-Media Electronic Reporting Rule

For More Information

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EPA's CDX Web site:
<http://www.epa.gov/cdx>





Progress to Date

CDX currently collects data and distributes it on behalf of 51 Agency information Programs

OA

- Environmental Appeals Board (EAB)

OAR

- Air Quality System (AQS)
- AQS Data Mart
- EnviroFlash
 - CAP Module
 - Office of Transportation and Air Quality (OTAQ) Module
 - UV Index Module
- National Emissions Inventory (NEI)
- Ozone Depleting Substances Tracking System (ODS CBI)
- OTAQ DCFUEL
- Radiation Network (RadNet)
- Vehicle Engine Regulation Information For You (VERIFY)
 - Heavy Duty In-use Diesel (HDIU) Certification Module
 - Light Duty Engine Certification Module
 - Light Duty Certification and Fuel Economy Information System (CFEIS) Interface Module
 - Locomotive Certification Module
 - Maintain Manufacturer Information
 - Motorcycle/All Terrain Vehicle (MC/ATV) Certification Module
 - Non-Road
 - Request for New Manufacturer Code
 - Upload Compliance Document

OARM

- Integrated Grants Management System/Grants Information and Control System (IGMS)/(GICS)

OECA

- eDisclosure
- Integrated Compliance Information System National Pollution Discharge Elimination System (ICIS-NPDES)
- Interim Data Exchange Format (IDEF)/Pass Through
- Electronic Discharge Monitoring Report (eDMR)

OEI

- Exchange Network Grant Semi-Annual Report
- Facility Registry System (FRS) Node
- Facility Registry System Update Service (FRS-US)
- Substance Registry System (SRS)
- Toxics Release Inventory (TRI) CD
- Toxic Release Inventory-Made Easy (TRI-MEweb)

OPPTS

- Lead Certifications
- Lead Notifications of Abatement Activities
- Lead Notifications of Abatement Training
- Toxic Substances Control Act Health and Safety Data (TSCA HaSD)

OSWER

- Assessment Cleanup and Redevelopment Exchange System (ACRES)
- Resource Conservation and Recovery Act (RCRA) Info
 - Handler Module
 - Biannual Reporting
 - Compliance Monitoring and Enforcement
 - Permitting Module
- Risk Management Plan (RMP*eSubmit)

OW

- eBEACHES
- National Environmental Methods Index for Chemical, Biological, and Radiological Methods (NEMI CBR)
- Storm Water Electronic Notice of Intent (eNOI)/Notice of Termination (eNOT)
- Long Term 2 Enhanced Surface Water Treatment Rule (LT2)/Stage 2 Data Collection and Tracking System (LT2/Stage2 DCTS)
- Safe Drinking Water Access and Review System (SDWARS) / Unregulated Contaminant Monitoring Regulation 2 (UCMR 2)
- Safe Drinking Water Information System Operational Data Store (SDWIS ODS)
- Underground Injection Control (UIC)
- Water Contaminant Information Tool (WCIT)
- Water Quality Exchange (WQX)

R5

- Great Lakes Environmental Database Query System (GLEND A)

Minnesota

- Minnesota Reach Address Database (RAD)