Establishing Your ICIS-Air Data Flow

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ABSTRACT

ICIS-Air is EPA's new CAA stationary source enforcement and compliance data system that replaced the Air Facility System (AFS) in late October 2014. This presentation provides an overview of the ICIS-Air data flow and how Agencies can get engaged in submitting their data using it.

Agenda

- ICIS-Air Overview

- Electronic Data Transfer

- Making Your ICIS-Air EDT a Reality

ICIS-Air Overview: Background

- An Oracle replacement to the EPA mainframe-based Air Facility System (AFS)

- Developed within the existing Integrated Compliance Information System (ICIS) as its own separate subsystem

- Collects, manages, and provides CAA stationary source compliance monitoring and enforcement data from 103 delegated agencies

- Populated initially with data migrated from AFS

- Electronically submitted data from State, Local, and Tribal agencies local computer systems is call "Electronic Data Transfer" or "EDT"

- Entry of data using the ICIS-Air web interface is called "Direct Data Entry"

ICIS-Air Overview: Anticipated Data Entry Patterns

- EDT: 39 agencies have said they intend to electronically submit their data to ICIS-Air at some point
  - 23 agencies are using EDT:
    - 20 states – AK, AL, CO, DE, FL, GA, IL, IN, KY, LA, MT, NC, ND, NE, OH, OK, SC, VA, WI, & WV
    - 3 locals- Jefferson County, AL; Puget Sound, WA; San Joaquin Valley, CA
  - 8 state agencies plan to use EDT by the end of the year
  - 8 state agencies plan to use EDT within the next three years

- Web Direct Data Entry:
  - 10 EPA Regions (not included in count of agencies)
  - 14 State Environmental Agencies
  - 50 Local Agencies, Tribes, and Territories

Electronic Data Transfer: 13 XML Submission Types

- Air Facility
- Air Program
- Air Pollutant
- Compliance Monitoring (CM)- including Stack Test Results
- Title V Annual Compliance Certifications (TVACC)
- Compliance Monitoring Strategy (CMS)
- Formal Enforcement Action

- Informal Enforcement Action
- Enforcement Action Milestones
- Case File- including Federally Reportable Violations & High Priority Violations
- Case File Linkage
- Compliance Monitoring Linkage
- Enforcement Action Linkage

Electronic Data Transfer: How EDT Works

- Data transfers via Exchange Network (EN) infrastructure & web services to EPA's Central Data Exchange (CDX) and then to ICIS-Air

- Network Technology Board & Integrated Project Team oversight
  - State Co-Chair: Eddie Terrill (Oklahoma DEQ)

- Agencies can submit data via manual upload to the EN Service Center

- Agencies can submit data automatically via their Node

Electronic Data Transfer: How EDT Works

- CDX validates data against approved ICIS-Air XML schema, virus scans, archives, & authenticates

- ICIS-Air retrieves and extracts data out of XML files (parses), sequences transactions, & processes transactions

- ICIS-Air records EDT processing results and sends results back to CDX

Making Your ICIS-Air EDT a Reality: Steps

1. Identify data for submission to ICIS-Air

2. Create extracts of data for submission to ICIS-Air

3. Prepare software to provide data to ICIS-Air in XML format

4. Test submissions of data to ICIS-Air in XML format

5. Troubleshoot any submission issues

Making Your ICIS-Air EDT a Reality: Resources

- ICIS-Air Implementation Documentation: http://www.exchangenetwork.net/data-exchange/icis-air/
  - Flow Configuration Document
  - XML Schema
  - Data Exchange Template
  - ICIS-Air EDT Users Guide
  - ICIS-Air Example XML Instance

- ICIS-Air EDT Guidance & Instructions: https://icis.zendesk.com/entries/71064489-EDT-Guidance-and-Instruction-Documents
  - Reference table code list
  - ICIS-Air EDT Technical Specifications
  - Minimum Data Requirements (MDRs)

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Making Your ICIS-Air EDT a Reality: Nodes & Plugins

- EPA created Virtual Exchange Service (Virtual Node) is available for interested state and local agencies unable to host their own Node
  - Virtual ICIS-Air plugin available

- Node Plugins: designed to format and send data to ICIS-Air
  - Developed by other agencies with EN grants and available to all partners for free
  - OpenNode2 Java and .NET plugins available

- Visit: http://www.exchangenetwork.net/exchange-network-products/

Making Your ICIS-Air EDT a Reality: EN Grants

- Funding to states, territories, and federally recognized Indian tribes to support the development of ICIS-Air data flow related activities

- Related activities can include:
  - Building backend systems
  - Installing and configure EN Node Plugins
  - Developing data exchanges
  - Creating analytical tools

- Visit: http://www.exchangenetwork.net/about/network-grants/

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Questions?