ICIS and Beyond: Current and Future Plans and Technology for Enforcement and Compliance Data

Presented by:

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Presentation Outline

- ICIS Today

- Future of ICIS

- Advances in Electronic Reporting
  – NetDMR and Michigan eDMR

- Making the Future of ICIS and Electronic Reporting a Reality

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ICIS Today

- ## ICIS Direct Users
  - In production June 2006
  - 25 state agencies, DC, 10 EPA regions, 2 tribes and all territories

- ## Batch Hybrid
  - DMR Batch in production May 2008 with 5 state agencies (AK, AR, IL, MI, MN)
  - Release 1 Permit Batch in production February 2011 with 4 state agencies (KY, FL, OH, MO)

ICIS Today

- ## NetDMR

  - In production June 2009
  - 161 facilities in 7 states and 7 regions using Federal Installation (AR, CO, CT, HI, LA, TN, UT, R1, R2, R3, R6, R8, R9, R10)
  - 3 states awaiting CROMERR approval (IN, KY, MD)
  - 5 states expressed interest (GA, IA, NY, OK, PA)
  - 1 tribe expressed interest (Navajo Nation)

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Future of ICIS

- Release 2
  - Electronic transfer of inspection related data
  - In UAT late summer-winter FY2011-FY2012
  - In production early FY2012

- Release 3
  - Electronic transfer of enforcement action and violation related data
  - 16 State agencies to be migrated into ICIS (AZ, DE, IA, KS, ME, MS, NJ, NC, ND, OR, SC, VA, VT, WA, WV, WY)
  - In production early FY2013

Future of ICIS

- ICIS-NPDES Data Flow Enables ICIS to Support:
  - Electronic exchange of information between EPA and states (e.g., Enforcement and Compliance information)
  - Electronic reporting from the NPDES regulated universe to EPA
  - Electronic reporting of compliance data from inspectors in the field

Future of ICIS

- Electronic reporting options being evaluated by a team of EPA and state members for the Clean Water Action (CWA) Plan:
  - eDMR
  - eNOI
  - eProgram Reports
- Electronic Reporting Implementation:
  - Proposed Regulation to Make e-Reporting Mandatory

Future of ICIS

- Electronic reporting of compliance data from inspectors in the field :

    - EPA is currently evaluating a proof of concept that will allow Region 4 inspectors to send their compliance monitoring data and RCRA inspection reports directly to ICIS from the field via CDX
    - EPA has developed and will be piloting tablet software for the PCB and NPDES Construction Storm Water compliance monitoring programs

Future of ICIS

- Why Electronic Reporting?

  - Substantial cost savings for EPA, states, and the regulated community

  - Improves data quality

  - Allows EPA and states to focus resources on the most important environmental problems

  - Improves transparency and public access to complete and timely data

  - Is environmentally friendly

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Advances in Electronic Reporting - NetDMR

- Facilities manage their DMRs
  - Enter data into a Web form or upload from spreadsheet
  - Select users sign and submit DMRs to ICIS
  - Allows DMR copy of records to be corrected

- Regions and States oversee their facilities
  - Electronically approve users who sign DMRs
  - Receive and file Subscriber Agreements
  - View all submitted DMRs and selected DMRs in progress
  - Monitor submissions and refresh data from ICIS

- Cross-Media Electronic Reporting Regulation (CROMERR) compliant

Advances in Electronic Reporting - NetDMR

- NetDMR Home Page is @ www.epa.gov/netdmr

- Login Page

Advances in Electronic Reporting - NetDMR

- DMR Data Entry Page

Advances in Electronic Reporting - NetDMR

- DMR Import Page

Advances in Electronic Reporting - NetDMR

- DMR Sign and Submit Page

# Advances in Electronic Reporting - NetDMR

- Regulatory Authority Home Page

Advances in Electronic Reporting - NetDMR

- Future enhancements
  - Simultaneous submissions to state and EPA
  - Daily, weekly and semi-monthly monitoring data
  - Customizable Subscriber Agreements
  - Enter DMRs for unscheduled limits

Advances in Electronic Reporting Michigan eDMR (ICIS Batch State)
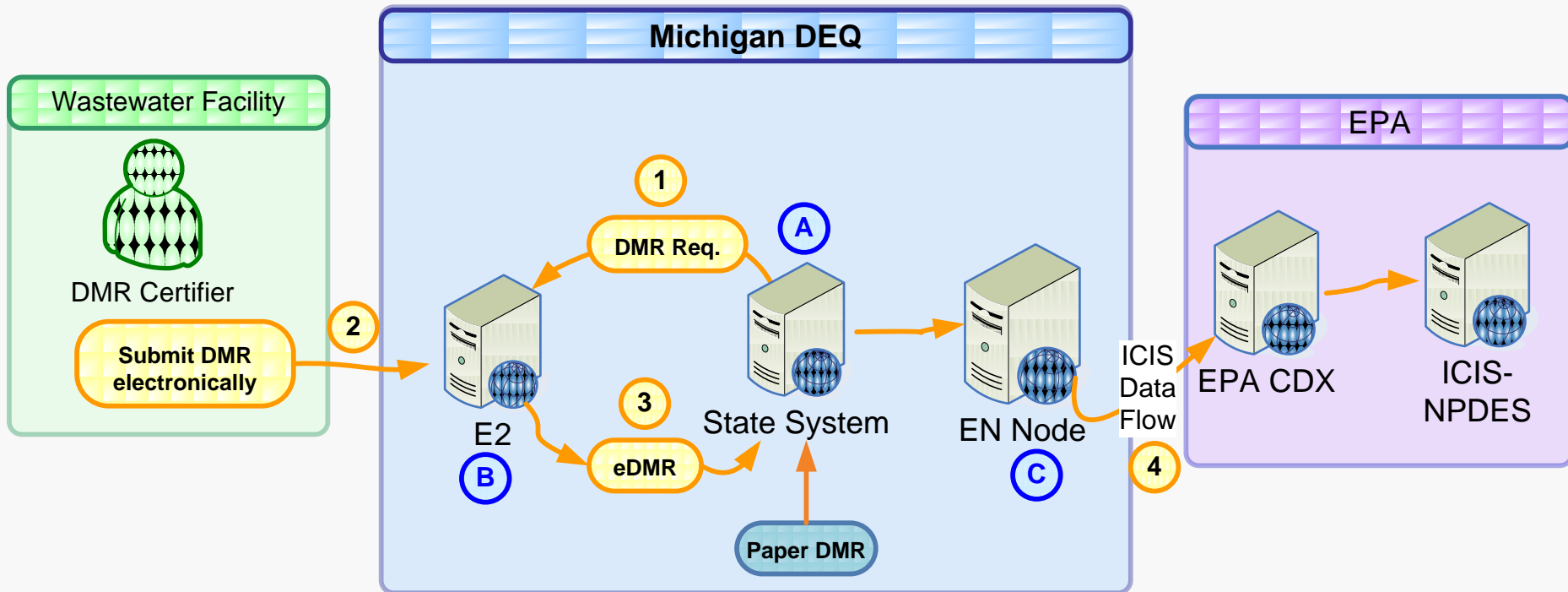
A State NPDES System   B Web-based eDMR System (E2)   C ICIS-NPDES data flow

Michigan eDMR – Business Process (1/2)

- Establish User Accounts

  - Facility AR submits a notarized TPA to DEQ
  - DEQ approves & establishes an account
  - DEQ sends security credentials (User ID, PWD, PIN) to AR
  - AR uses temporary credentials to authenticate Account

- DMR Report Forms

  - Summary & Daily DMRs (monthly, quarterly, semi-annual, annual)
  - Web-form, Excel worksheet, Paper printout

- DMR Reporting

  - Facility: Online web-form entry, Excel copy-and-paste, XML upload, compliance checks, comment results, data validations, revisions, attachments (745 participating facilities, 76% out of 976)
  - DEQ: Enters some DMRs received in paper

Michigan eDMR – Business Process (2/2)

- DMR Management

  - Email alert to non reporting
  - DEQ tracks late/no submission
  - Flags DMR violations
  - DMR verified & approved by DEQ before going to ICIS

- DMR Data Flow to ICIS

  - EN Node to CDX
  - Batch XML data upload
  - Track submission status
  - Handle ICIS error reports

DMR Requirement Management

- Revisions
- DMR forms
  - Web-form
  - Excel
  - Paper

4/27/2011   23

E2 DMR – Summary DMR Form

E2 DMR – Daily DMR Form

EN Node – ICIS-NPDES Data Flow

Legend:
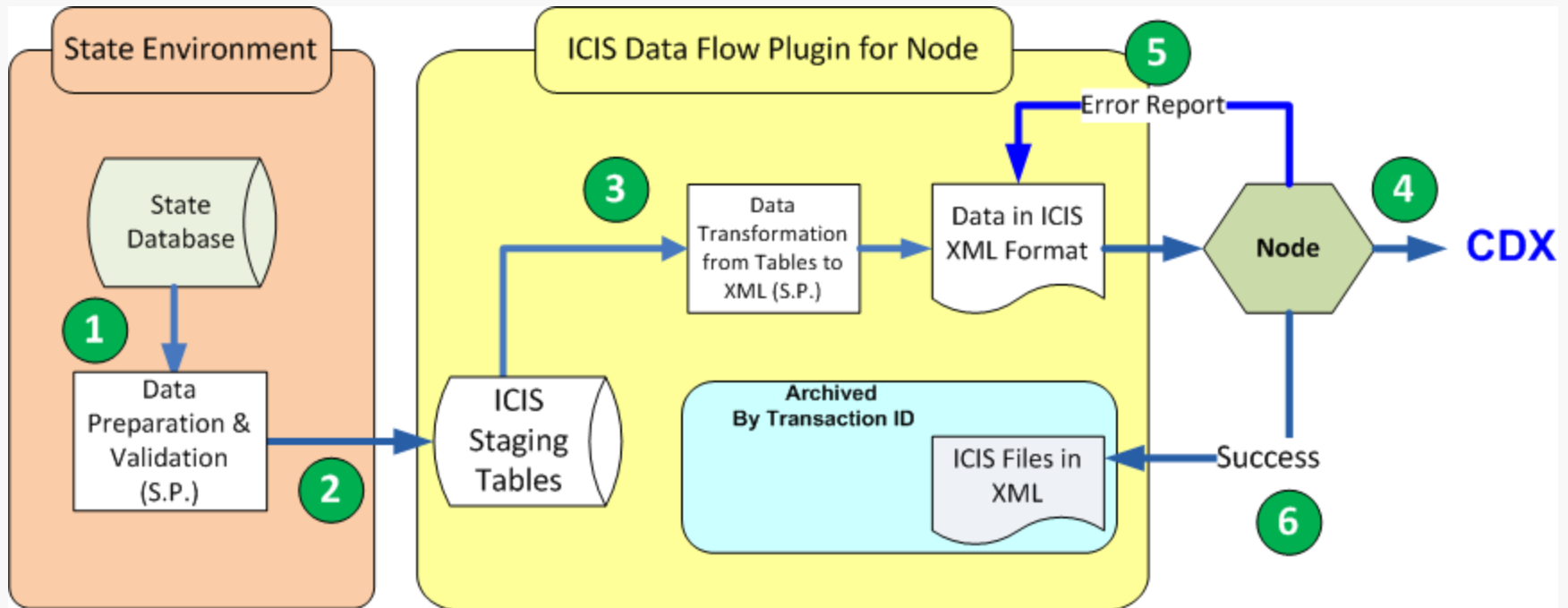
1. **Prepare/validate data for ICIS-NPDES batch update**
2. **Import ICIS-NPDES batch update data to ICIS staging tables**
3. **Generate ICIS XML files**
4. **Submit to CDX**
5. **Processing status from CDX**
6. **Submission archived**

- Node Plug-in for ICIS data flows
- Will support all ICIS data families
- DEQ offers to all batch ICIS States

EN Node ICIS Plug-in (Batch Update)

- Support all ICIS data families

EN Node ICIS Plug-in (Submission Management)

EN Node ICIS Plug-in (Error Recovery)

- Process ICIS XML error reports in Node
- Track transaction
  - Total count
  - Success count
  - Fail count
- View message next to each rejected record

Advances in Electronic Reporting Michigan eDMR

- System Demonstration
    - Presented by Tony Jeng, enfoTech & Consulting Inc.

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Making the Future of ICIS and Electronic Reporting a Reality

- OEI Exchange Network Grants:

    - Funding to states, territories and federally recognized Indian tribes to support the development of the Environmental Information Exchange Network related activities

    - The announcement of the availability of funds and soliciting of proposals and partial applications from applicants occurs through the Exchange Network Grant web page:
        www.epa.gov/networkg

Making the Future of ICIS and Electronic Reporting a Reality

- OC FY2010 STAG Grants

    - EPA's OECA/OC FY2010 funds available for carrying out or supporting compliance assurance activities
    - 12 grant applications received to date
    - Applications are still undergoing review
    - Award announcements will be made after OC management has given their approval

Contact Information

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Questions

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