

# Opportunities to Build End-to-End E-Reporting Capability Thru Sharing Tools, Data, and Experience

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***UIC Database Panel***

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# Topics

1. Moving to E-Reporting  
--Sharing Tools, Data, Experience
2. Background – What is UIC DB; Accomplishments, Plans
4. What UIC DB Experience Offers Others –  
-- Efficient, Effective Way to Meet EPA Reporting Requirements
5. Available Tools, Data, Experience for Others to Use
6. People to Contact

# 1. Purpose of New Data System and Benefits to the Program

- Purpose:
  - Provides single Agency resource for all UIC data
- Benefits:
  - Provides Defensible Data
  - Responds to Information Requests
  - Meets needs of new initiatives (CO<sub>2</sub>, DWTR, etc.)
  - Increases Efficiency/Accuracy
  - Allows programs access to reporting tools
  - Decreases Reporting Burden
  - Supports Budget Requests

# 1. Purpose of New Data System and Benefits to the Program

## Unintended Successes:

- Increasing consistency – States and regions using data model and dictionary to develop their DB enhanced data integrity and consistency
- Identifying gaps/deficiencies - existing databases are finding problems that need to be corrected
- Structuring Class V data – DB has become the template for state/regional CV information collection and storage
- Partnering with RBDMS Programs and GWPC – 7 Programs participating and for remaining 15 mapping will be easier
- Expanding communication network – States and regions have begun to advocate for the DB (exchange network, GWPC Panel, RBDMS meeting
- Strengthening Agency Architecture – OEI found QA server was did not have adequate capacity to meet Program requirements and corrected

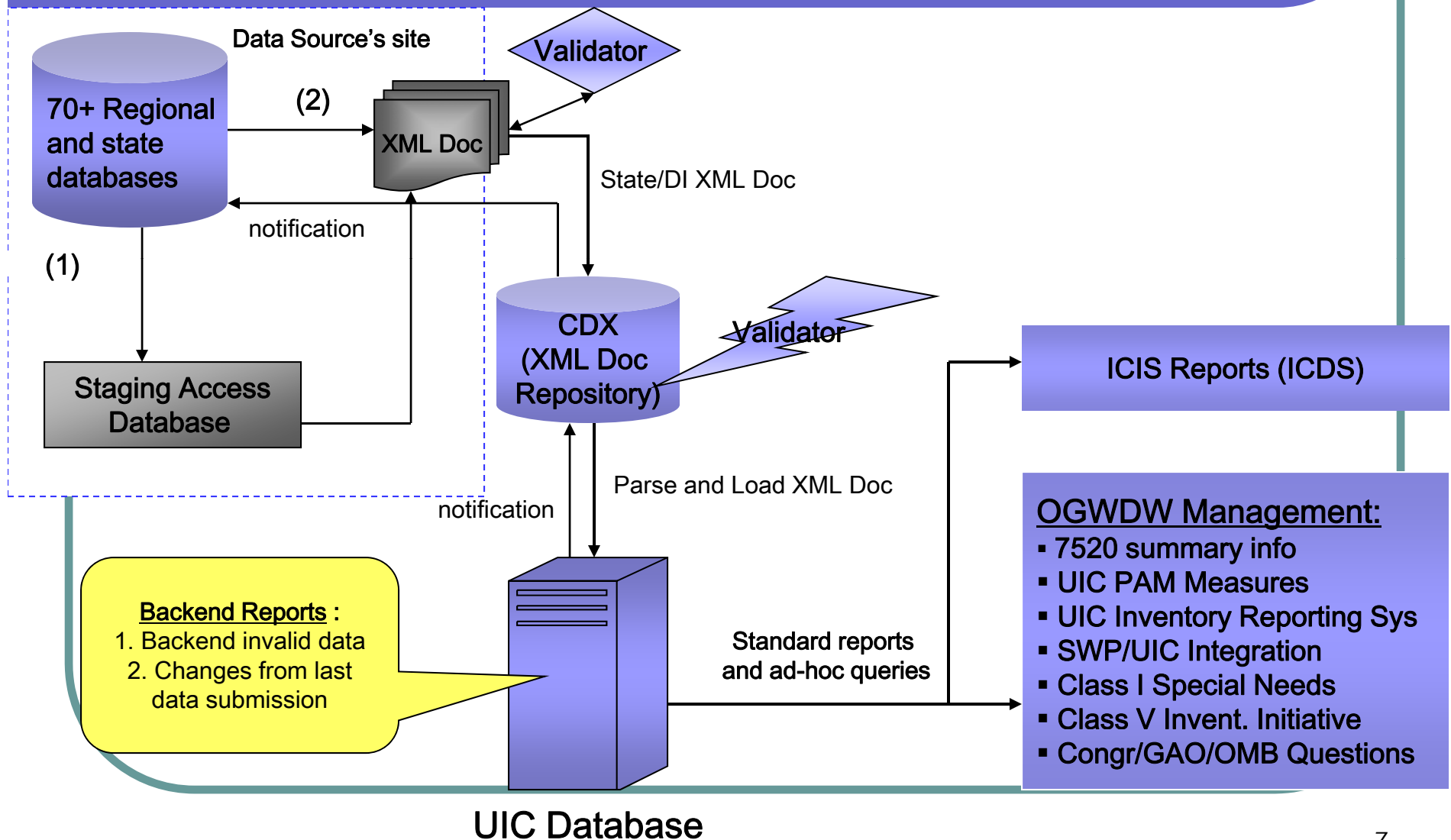
## 2: Key Milestones in Data System Development

- |  |
|--|
| Jun 2006: Requirements Analysis Complete, Decision to Proceed  |
| Nov 2006: Final Data Model/Dictionary, Validation Business Rules (V8.0)  |
| Dec 2006: Kickoff of UIC Integrated Project Team (IPT)   |
| Jan 2007: XML Schema distributed for IPT testing   |
| Mar 2007: Validation software (Schematron) completed   |
| May 2007: UIC data base (ODS); parse & loading software completed  |
| Jun 2007: XML Schema, UIC Flow Configuration Document (FCD)<br>Approved and Final, on Exchange Network website |
| Jul 2007: Integration Testing Completed, using test data   |
| Sep 2007: Performance Testing (Stress test) conducted  |
| Oct 2007: User Acceptance Test conducted (10/2007)   |
| Nov 12, 2007: Approval of UIC DB Security Plan   |
| Nov 15, 2007: Deployment of Phase 1 UIC data system at NCC   |
| Nov 30, 2007 : Launch of UIC DB (proposed), Data Submissions Begin   |

## 2: Major Components of the UIC Data System Deployed on November 15

- Mapping Process to Convert State/DI Databases to UIC Format
- XML Schema Document
- UIC Data Flow through Exchange Network (State Node to CDX Node)
- Schematron Validation
- UIC Data Base (Operating Data Store) at RTP
- Standard Report Queries – 7520, Measures, Inventory

## 2. National UIC Data System Framework (Interim Process)



## 2: National UIC Database - *Project Management and IPT*

### Core Project Management Team

Project Manager:	Carl B. Reeverts
Alternative Project Manager:	Trang Le
USER Access, Data Security	Towana Dorsey
UIC Program Contact	Robyn Delehanty
IT Team Leader:	Chuck Job
Data Warehouse Team Leader:	Lee Kyle
Associate Branch chief	Leslie Cronkhite, Roy Simon

### Integrated Project Team (proposed)

#### EPA HQ and Contractors:

DWPD Prevention Br:	Robert Smith
	Lee Whitehurst
OW	Tod Dabolt
OEI:	Pat Garvey (FRS)
	Cory Wagner (CDX)
Lockheed Martin	Maryam Balali
CADMUS	Shari Ring
CSC	Ted Willard

#### EPA Regions and States:

Region 3	Maria Conicelli	Tom Carpender
Region 4	Brian Thames	
Region 6	Ron VanWyk	Mark McCastland
Region 7	Kurt Hildebrandt	
Region 8	Valois Shea	Dave Stitt
Region 9	Elizabeth Janes	Perry Silver
UT Class 1/5	Candace Cady	Bert Granberg
WY Class 1/5	John Passehl	Craig Tuttle
DE Class 5	Ron Graeber	Dennis Murphy
MT Class 2	Tom Richmond	Mark Layne
NE Class 2	Stan Billieu	Mark Layne



### 3. Steps to Launching Database

- Testing deployed system in the production environment
- Forming UIC Data Management Steering Committee - 1<sup>st</sup> scoping meeting held
- Issuing Data Submission Standard Operating Procedures
- Providing standard report capability
- Readyng 1st Set of Data for Submission (7 Regions, 5 states)
- Announcing launching of Data System Nov 30

## 3: Launch Communication

- External Communication
  - Requesting letter to Water Division Directors from Cynthia
  - Requesting letter to States and Regional UIC Managers from Steve
  - Press Advisory and Fact Sheet
  - UIC DB Web Page with Resources (off OGWDW page)
  - UIC Exchange Network Brochure developed by OEI (ECOS)
  - Network Exchange Website
- Internal Communication
  - Bi-weekly/WaterNews

## 4. 2008 - Phasing In New Data System

### **Implementation Strategy** **Delegate lead Responsibility to Regions**

- Assess data quality and completeness
  - Compare with traditional reporting
  - Conduct QA/QC
- Institute Round 2 data collection
  - 2005 and 2007 Data Exchange Grant Participants (10 – 15 States)
  - High Inventory States – TX, FL
  - States Ready to Exchange Data
  - 2 Regions (2 and 10)
- Train the Regions to take lead
  - Data Coordinator to work with Primacy Programs
  - Develop Trading Partner Agreements

## 4. UIC System Enhancements Planned for FY 2008

- Validation Error Summary Report
- UIC Data Warehouse
- UIC User Interface and Reporting Services
- Integration with FRS, ICIS, TRI, RCRA Info

## 5. Challenges

- Fully Populating the Database
- Phasing Out Traditional Reporting
- Collaborating with Key Stakeholders
- Data Completeness
- Data Interpretation
- Class V Programs
- Regional Support of Data Base Coordinator Resources

## 6. Action Items

The UIC data system was *deployed* on the production servers at the National Computer Center (RTP) on November 15. We are ready to announce the *launch* of the new database and begin accepting data on November 30.

- Approval for Launch
- Finalize Launch Communication Including Letter to Water Division Directors
- Provide Additional Briefings and Materials as Needed

# Additional Resources

- Training Modules
  - Introduction to Mapping the UIC National Database
  - CDX
  - Accessing Nodes
  - Trading Partner Agreements
- Technical Documents
  - TPA template
  - TPA powerpoint
  - Data model
  - Data dictionary
  - Mapping spreadsheet
- IT Documents (<http://www.exchangenetwork.net/exchanges/water/uic.htm>)
  - Flow configuration document
  - XML Schema
  - Data exchange template
- Software
  - Conversion Tool from Access to XML
  - Access Database for CV Programs