SLEIS – The Next Generation

2015 Emissions Inventory Conference Tools/Emerging Technologies Session
April 16th, 2015
SLEIS – The Next Generation

1. The story so far
2. Where do we go from here?
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The Story So Far
Background

• EPA introduced the new Emissions Inventory System (EIS) for the 2008 reporting year.
• Some 20+ state and local air quality management agencies previously using the i-STEPS software product to manage emissions inventory data would not be able to support the new EIS.
• At the 2008 EPA Emissions Inventory Conference, a group of agencies discussed their shared need to migrate from i-STEPS to a new system that would be compliant with the new EPA EIS requirements.
• The agencies formed a consortium and agreed to work together and share resources to develop a new, shared point source emissions inventory system.
The new State and Local Emissions Inventory System would replace i-STEPS and would enable electronic data collection from facilities, support agency quality assurance, and allow reporting to U.S. EPA.

The Consortium, led by Arkansas DEQ, applied for and was awarded an EPA grant to develop the system.

The Consortium worked together to develop a common set of business and technical requirements for the new system.

The Consortium selected Windsor Solutions, Inc. through a competitive process to develop the new system.
Enables the regulated community to submit point source emissions inventory data, and related meta-data, to state and local agencies using an intuitive and streamlined Web application.

- Provides a secure reporting mechanism (CROMERR-compliant).
- Supports multiple reporting years of emissions inventory data, both current and historical.
- Enables regulatory agencies to manage, review, and validate the collected data.
- Highly customizable, allowing each state or local agency to configure the system to meet their own unique needs.
- Manages the generation and submission of required data files to EPA’s EIS by the state or local agency.
Original Consortium Members

• Arkansas Department of Environmental Quality
• Arizona Department of Environmental Quality
• Delaware Department of Natural Resources and Environmental Control
• New Hampshire Department of Environmental Services
• West Virginia Department of Environmental Protection
• Metropolitan Government of Nashville and Davidson County, Tennessee
Also Used By

- Environmental Health Department - City of Albuquerque, New Mexico (Cloud hosted)
- Salt River Pima-Maricopa Indian Community, Arizona (Cloud hosted)
- Maricopa County, Arizona
- Hawaii Department of Health (Cloud hosted)
- Kansas Department of Health and Environment (Cloud hosted)
- Iowa Department of Natural Resources
Where Do We Go From Here?

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# Versions To Date

<table>
<thead>
<tr>
<th>Release Date</th>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 2012</td>
<td>1.0</td>
<td>Initial production version from original Consortium project</td>
</tr>
<tr>
<td>April 2013</td>
<td>1.1</td>
<td>Updates and bug fixes under original Consortium project</td>
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<tr>
<td>February 2014</td>
<td>1.2</td>
<td>Made CROMERR compliant; final version released under original Consortium project</td>
</tr>
<tr>
<td>March 2015</td>
<td>1.3</td>
<td>Performance improvements, bug fixes, and support for “canned” report development/display.</td>
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</tbody>
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Note: Minor bug-fix/enhancement releases (e.g., 1.2.1) were also deployed every 3-6 months, and are not reflected in this list.
Version 2.0

• Custom reporting module embedded in application
  – Define search/filter criteria, save for reuse, export results
• Enhance administration module for EIS/SLEIS reference table maintenance
• Utilize a newer, more feature rich, list page control with true pagination, search/filter by any column, improved performance
• Enhance business rule engine to enable additional QA checks
  – i.e., forcing use of active codes, pollutant-total comparisons, warning errors
• Improvements to PDF rendition of Copy-of-Record
• Additional user interface (UI) configuration options and enhancements
• Extend pollutant meta-data to enable required and default (for new processes) pollutants, and additional support for invoice generation.
• Provide download-template and file-import functionality from Agency UI
• Targeted performance improvement of key system functions
Beyond Version 2.0

- User interface (UI) enhancements
  - i.e., improved look-and-feel, less white-space, more configuration options
- Enhance administration module to include business rule maintenance
- Support for additional process emissions data entry methods and UI enhancements
  - Grid/table style optimized for more efficient, streamlined data entry
  - Popup dialog for single pollutant data entry and emissions calculation at a time
  - Increase configurability of emissions data entry, allowing for more data entry options for emissions related field entry
- Integration with agency portals for authentication, authorization, and user management
- Improved support for minor source emissions reporting
- Support for potential and permitted emissions
- Rich-text/HTML editor for application help management
Implementation Options

SLEIS supports two implementation options:

• Locally Hosted
  – SLEIS database and application hosted in agency environment
  – Environment maintained by local agency/IT staff

• Cloud hosted
  – SLEIS database and application hosted in Cloud environment
  – Environment maintained by Windsor staff
  – Windsor manages backups and disaster recovery
  – Potentially easier/quicker CROMERR approval (TBD)
SLEIS Permitting

Windsor has been approached for various permitting solutions for use with SLEIS:

• Stand-alone permit/compliance solution with bidirectional data sharing with SLEIS
• Permit/compliance solution integrated within SLEIS application itself
• Permit/compliance solution integrating SLEIS and an existing/legacy agency permit/compliance system, with bidirectional data sharing
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Summary
Summary

• SLEIS is now the most widely used emissions inventory reporting tool for State and Local emissions inventory authorities
• SLEIS continues to evolve and extend functionality
• Lots to come in the future
More Information

http://windsorsolutions.com/Products/SLEIS/

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