

ENVIRONMENTAL TRACKING SYSTEM (ETS)

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ETS Design Concepts

The Environmental Tracking System (ETS) concept was jointly developed by XRiver Technologies LLC and the Louisiana Department of Transportation and Development (DOTD) to address the detail workflow tracking/processing needs that have been defined by the DOTD's Environmental Section. Because the Environmental Section is responsible for the planning, scheduling/performing, and coordinating the work of DOTD personnel and DOTD Consultants involved in ETS Projects, they face relatively large and complex management processes that can only be accurately and efficiently handled through an automated solution that:

- stores all environmental study and migration data in a single central database.
- allows assigned System Managers to control the entry and modification of all DOTD ETS User records so that they have at a minimum read-only access (in the form of standard reports) to all ETS data.
- allows assigned System Managers to control the entry and modification of standard ETS tables and to make administrative corrections to data contained in the ETS database.
- allows assigned System Managers (and Environmental Section Management Users) to create new ETS Projects and assign/re-assign ETS Users to the standard functional roles in each ETS Project.
- allows ETS Users who have been assigned a standard functional role within an ETS Project to access all Project/data element combinations in an assigned ETS Project that have been previously assigned to the user's functional role for updating.
- generates automatic warnings and emails that highlight each ETS User's urgent ETS updating requirements (based upon the ETS Project's workflow).

Basic ETS Design Concepts

The design of the "Basic ETS" application has evolved to address the individual needs of 3 different types of ETS Users.

The following summaries provide the reader with a brief description of the roles and responsibilities that are currently embedded in the ETS application:

System Manager

The System Manager component of ETS normally provides the ability for an assigned ETS System Manager to: 1) create and modify all centrally controlled application tables (user profiles, user group security, application picklists, etc), 2) create and modify header information for all ETS Projects, and 3) utilize ETS Utilities that can directly access the ETS database so that the ETS System Manager can modify ETS User entered data containing administrative errors.

Data Entry

The Data Entry component of ETS provides the ability for an assigned ETS User who has been assigned a functional role in one or more ETS Projects to: 1) update assigned functional role Project/data elements (Project Status, Wetlands & Other Waters, Archeological Sites, Historic Bridges & Structures, Threatened & Endangered Species, and

Permits) in assigned ETS Projects, and 2) view all functional role Project/data elements that the User is not authorized to update in an assigned ETS Project.

Report Manager

The Report Manager component of ETS normally provides the ability for an assigned Report Manager User to generate, view, and output real-time standard reports/charts using previously defined output and filtering options. DOTD's implementation of ETS currently contains over 50 standard report formats addressing the following traditional data areas: Project Lists, Assignment Lists, ETS Project Status, Wetlands & Other Waters, Archeological Sites, Historic Bridges & Structures, Threatened & Endangered Species, Permits, etc.

Additional ETS Implementation/Customization Areas

The original implementation of the ETS design at DOTD was made more complex due to the continuous evolution (during the implementation phase) of DOTD Environmental Section's perception as to what the ETS should track and control. For example, once the ETS went into production use at DOTD, the process of linking ETS (for reporting purposes) to DOTD Legacy Systems became an urgent automation enhancement requirement. This automation enhancement (see Link ETS Central Database Solution With Legacy Systems below for further details) rose to an urgent level as a result of other ETS processes being streamlined (and creating new process bottlenecks) in the newly deployed release of ETS.

The following examples illustrate the type and complexity of customized enhancements that XRiver Technologies LLC has helped design, develop, and deploy into the ETS model at DOTD:

Link URTS Central Database Solution With Legacy Systems

Customized links to DOTD Legacy Systems (DB2, mainframe data warehouse applications, etc) were implemented so that: 1) DOTD mainframe based systems could draw data from ETS, and 2) the ETS Report Manager could be used to generate and output ETS Reports that integrate both ETS and DOTD Legacy System data together in complex report formats that were needed in order to perform more detailed analysis on ETS processes.

Existing ETS Implementation At DOTD Can Be Demonstrated

Demonstration of DOTD's existing ETS implementation can be scheduled and conducted by XRiver Technologies LLC personnel. If such a demonstration would help your organization, please contact your XRiver Technologies LLC Sale Representative for assistance with this request.

Additional Information Request

For more information on this topic, please contact an XRiver Technologies Sales Representative at 703-480-4482.