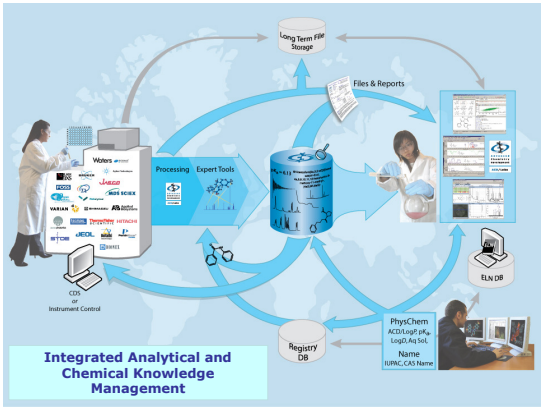
ACD/Workflow Manager

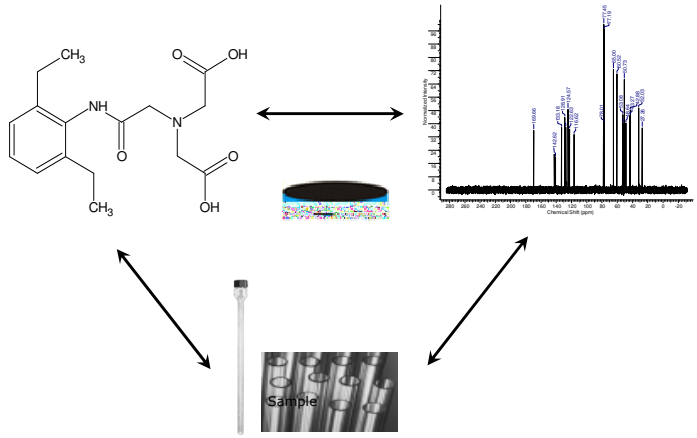
Design custom workflows and integrate with databasing applications to manage analytical data and samples.

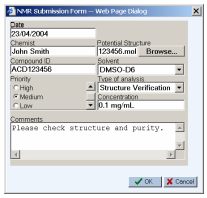


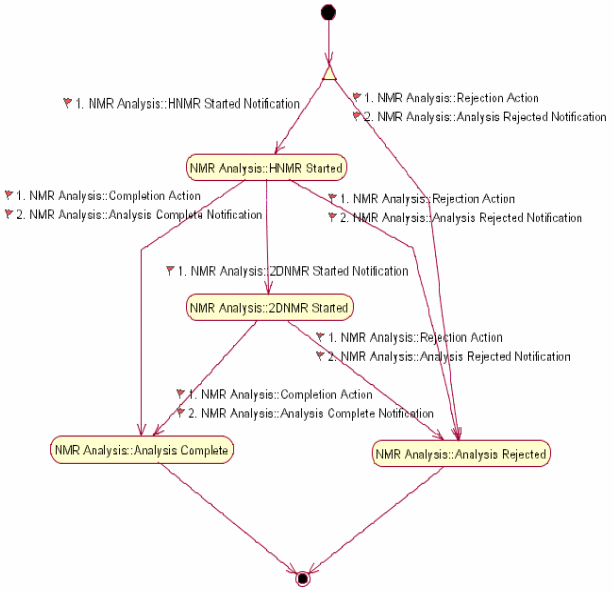
A layer of technology within the **ADMS** that enables laboratories to monitor the progression of a sample through the workflow. At any time, both Experts and Chemists can do a simple query which show them exactly the status of a particular sample.

ACD/Workflow Manager enables you to:

- Design the workflow logic of a sample management system
- Create forms for documenting sample information during the execution of the workflow
- Organize automated processing of analytical data by integrating workflow execution with the server-side analytical databases via **ACD/Web Librarian** and **ACD/SpecManager Enterprise**.



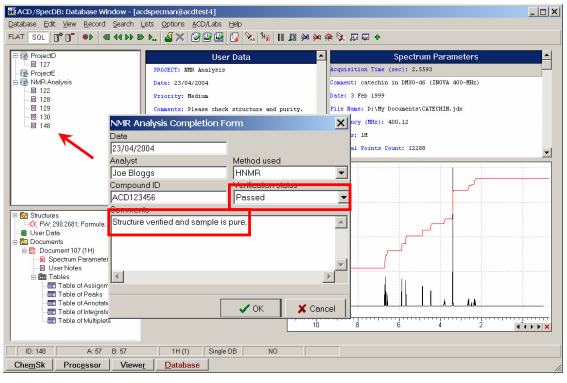




ACD/Workflow Manager provides an intuitive, user-friendly interface for creating and editing workflow diagrams and all other necessary workflow components and operations.

The following special entity types are assumed in ACD/Workflow Manager:

- **Sample** - an ACD/SpecManager Enterprise record bound to a workflow.
- **Diagram** - a drawing that holds all other entity types. It is a workspace to draw a workflow.
- **Form** - a user interface window containing a collection of one or more fields, buttons, descriptive text, and other common controls. ACD/Workflow Manager distinguishes two types of forms:
  - Action Form that must be complete when changing a sample's state.
  - View Form that is bound to a state and allows inspection of the sample's properties in that state.
- **State** - a defined condition a sample can be in. Throughout its life cycle, the sample moves from state to state residing in every point for some time. When a sample comes into a state, some actions can be performed. The same happens when a sample leaves a state.
- **Decision** - a pseudo state which designates the point where a choice of two possible pathways is made. A decision point contains a set of checks. For the true result of a decision point, all its checks should return a true result.
- **State Transition** - this entity is graphically represented as an arrow either between states or looped back on to the same state. State transitions can be Actions, Checks, and Notifications in any combination.
- **Action** - an operation that occurs when passing a state transition, changing the state of a sample. The possible types of actions are: form completion, execution of a SQL procedure, change of some sample attributes, and so on. External systems (like ACD/SpecManager Enterprise or third party) expose the list of their own operations to ACD/Workflow Manager at design time. An administrator creates the required actions (PL/SQL) according to the current task.
- **Check** - a special type of transition that verifies some conditions (e.g., whether the sample is in some specified state or has all the required data entered), operates on passing a state or state transition, applying no changes to a sample. To perform the pass, all the checks should return "true" as a result.
- **Notification** - a special type of transition that informs an interested person (by e-mail, for example) about a change.
- **Event** - an external entity which allows interaction of other systems with ACD/Workflow Manager. Events are imported by ACD/Workflow Manager at design time. An Event is initiated by an external application when something happens that should be signaled to ACD/Workflow Manager.



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