Waters® Analytical Workflow Manager Software -

Fully Integrating Analytical Services in your Business
Agenda

- Analytical Workflow using Waters® AWM
- AWM features
- AWM benefits
- Interoperability
“A system that completely defines, manages, and executes “workflows” through the execution of software whose order of execution is driven by a computer representation of the workflow logic.”

Workflow Management Coalition
What is the AWM?

The Waters Analytical Workflow Manager is an integrated electronic solution combining workflow and information management with instrument control covering all steps of a typical workflow in the analytical service laboratory.
Request analytical services

Research domain

Analytical domain

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Enterprise View

Quality assurance

Production domain

Analytical domain

Request analytical services

Take over requested results
• Different labs with different analysis techniques
• Variety of instruments and software
• Different result formats
Analytical Workflow

Customer

Create request

Sample check-in (Barcode)

Select/Add technique(s)

Perform measurement(s)

Enter additional results

Technical validation

Data Evaluation

Close lab order

Approve sample

Receive result
Analytical Workflow Manager

Request → Work list

Analytical Workflow Manager

Results → Result data

Development Domain

Analytical Domain
Waters

Single Point Of Access For All Labs

- NMR Lab
- MS Lab
- IR/UV Lab

SampleTrack

OpenLynx™

IR Opus
With the AWM, an analyst can...

- Manage analysis requests
- Convert requests into instrument work lists
- Capture results automatically
- View instrument results across multiple laboratories and analysis techniques
- Communicate selected results and analyst conclusions to the requester
- Secure data in a local repository accessible to global repository or long term archive
- Easily supply internal cost calculations to accounting
With the AWM, an analyst can...

- Easily check status and process analysis requests
With the AWM, an analyst can...

- Link an analysis request to creation of an instrument work list

**Instrument work list** defines the sample information and measurement attributes (e.g. analytical instruments methods, reports) used by the instrument software.
With the AWM, an analyst can...

- Easily generate work lists and capture results from many instruments through pre-configured agents

**NMR**
- Bruker Sample Track
- Bruker XWINNMR
- Varian Inova
- Varian Mercury
- Varian VXR

**IR**
- Nicolet Omnic

**HPLC/MS**
- Empower™
- MassLynx™
- Xcalibur 1.1
- Thermo Finnigan
- MSOpal
- MSMaldi
- HP ChemStation
- Analyst Sciex HP365, HP400
- Analyst Sciex HP 400 QTrap
With the AWM, an analyst can...

- View results or status on demand from anywhere regardless of laboratory or technique
With the AWM, an analyst can...

- Seamlessly communicate selected results and conclusions to the requester
With the AWM, an analyst can...

- Seamlessly communicate selected results and conclusions to the requester
With the AWM, an analyst can:

- Easily supply internal costs to accounting
With the AWM, an analyst can...

- Secure the results and raw data in a local repository that is easily integrated a long-term archive
• Distributes the work automatically among labs
• Set up measurements and create work lists for different instrument types with one tool
• Tracks samples and results during the complete sample lifecycle
• Improves communication between analytical labs and their clients
• Enhances collaboration between analytical labs
• Reduces turnaround time for order analysis
Customer submits structure proposal

AWM provides
- Structure viewer
- Structure editor
- Interface to ISISDraw

Each analyst can make a new structure proposal

History of structure determination is accessible

Elaborate structure/substructure search engine
- Structure/Result correlation: Find all related analysis results and compound information at a glance
All related data is stored together logically

Common analytical data format (JCAMP)

Sample centric storage of
- Chemical structure
- Sample information
- Analytical data
- Supplemental material
- Reports
- Lab decisions
- ...

Trackable decisions
Comprehensive Search and Retrieval

- Search for metadata
- Full text search
- Search for chemical structures
  - also stereospecific
- Search for chemical substructures
  - also stereospecific
- Search for analytical data
  - spectra
  - chromatograms
• More samples in less time!
• Configuration, not customization!
• Route the samples through the lab!
• Follow the rules, but remain flexible!
• Collaborate and Communicate!
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