CDS Strategy and Overview

Rich Mutkoski
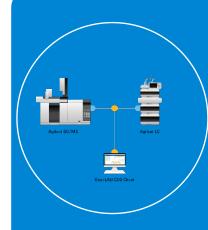
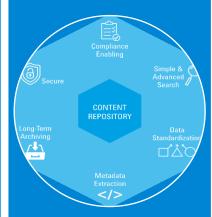Informatics Applications Specialist

Agilent OpenLab

Workstation
- ChemStation
- EzChrom
- CDS 2.x
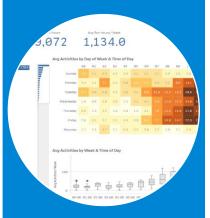- MassHunter
- Spectroscopy

CDS
- Client/Server
- LC/GC/LC-GC MS
- Built-in Review
- LIMS/ELN interface
- Multi Vendor
- Superior Reporting

ECM
- Data Archiving
- Data Management
- Vendor Neutral
- BPM (workflow)
- Report Generation
- Record Retention

Analytics
- CrossLab Connect
- Utilization
- Workload
- Right Sizing
- Category 1/2/3

SLIMS
- SOP
- Free Form Entry
- Drag and Drop
- Text Editing
- Data Visualization
- R&D and QC

LIMS
- Sample Tracking
- Barcoding
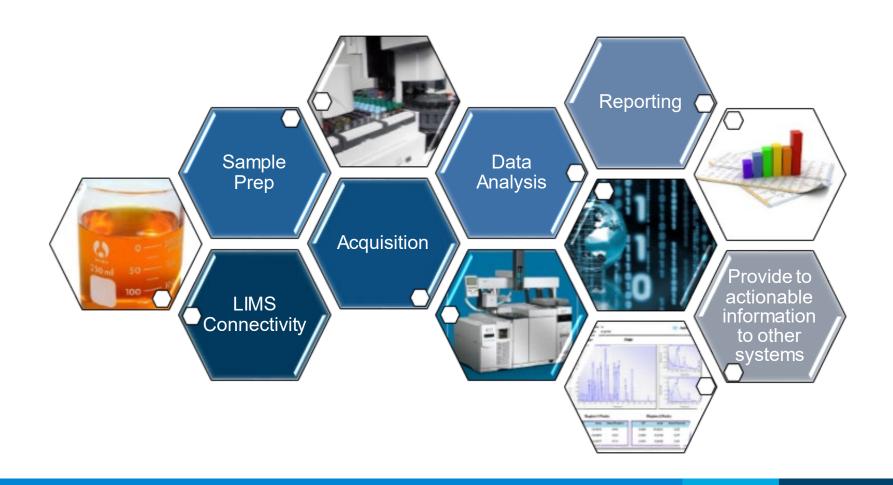- R&D and QC
- Worklists
- Worksheet

Single/Multisite - Cloud Options - Compliance Features (21CFRpart11) - Scalable – On Demand Solutions – Web Interface
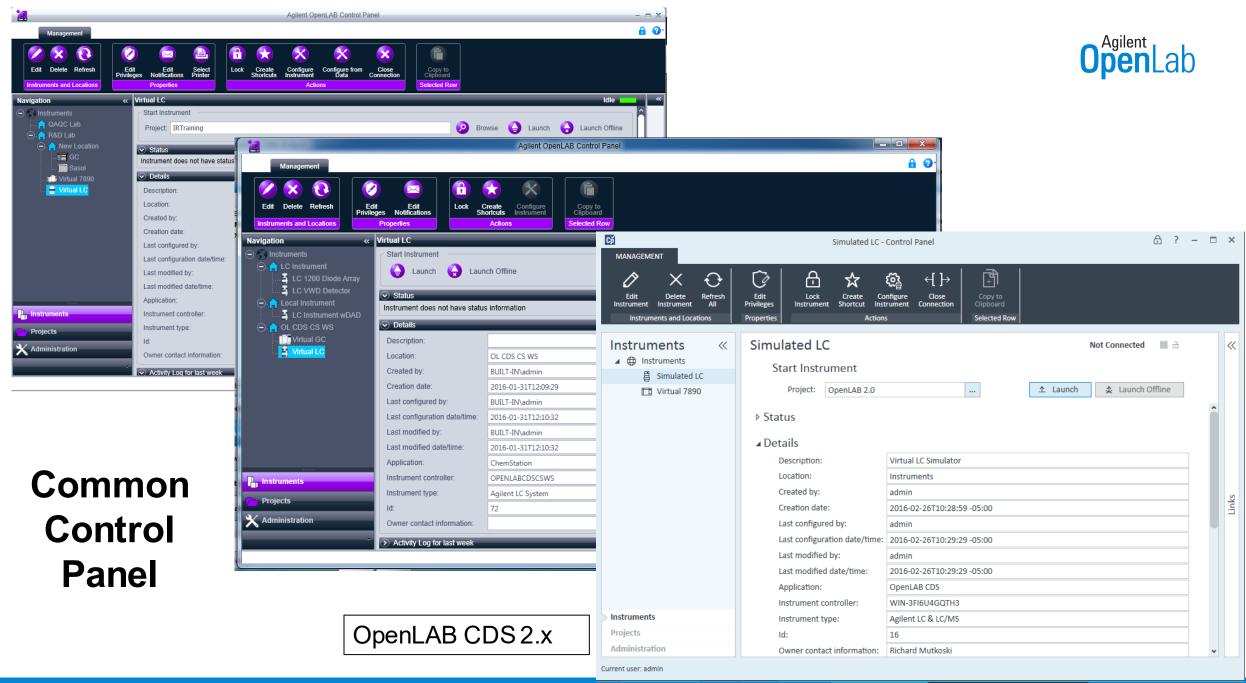
OpenLab CDS is the Next Evolution of our Chromatography Data systems.

One CDS for Agilent LC/LCMS and GC/GCMS - along with third-party instruments!

Sample Prep

Acquisition

Data Analysis

Reporting

LIMS Connectivity

Provide to actionable information to other systems

Common Control Panel

OpenLAB CDS 2.x

Common Instrument Drivers

OpenLAB CDS 2.x
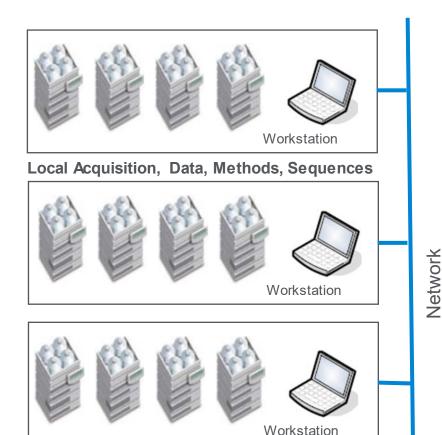
Common Reporting

OpenLAB CDS 2.x

OpenLab CDS:

- Redesigned User interface
- Multi-Technique LC, GC, LCMS, and for the first time GCMS
- Multi vendor instrument support
- Redesigned Data Processing Engine
  - Lightning fast reprocessing!
- (NEW) Peak Explorer
- (NEW) Compliance features
  - Audit Trail Review!
- Powerful (NEW) Custom Calculator
- Lab-at-a-Glance view
- Intelligent Reporter
- Help and Learning module (separate)
- More….

Adding value to your lab... and your business

Agilent OpenLab

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Workstations

Workstation

Local Acquisition, Data, Methods, Sequences

Workstation

Workstation

Network

Key Limitations:
- System Config/Admin on each Workstation
- Files must be backed up for each Workstation
- Have to walk up to each Workstation to control instrument
- Not easy to share methods/sequences or access to data

Distributed System

Agilent **Open**Lab

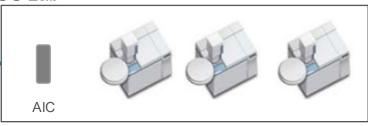Domain/Directory   Storage

CDS Clients

Lab Users and Managers:
- Run any instrument from any CDS Client
- Reprocess any Result from any CDS Client!
- Share methods, sequences and Report Templates
- Search to find Results by metadata!
- Lab-At-A-Glance – Status details of all instruments!
- Queue injections from any CDS client as that user

IT and System Administrators
- Centralized Administration (Roles, Instruments, Users)
- Database Backups (Standard SQL or Oracle tools)
- System Administration and Diagnostics Reports
- Lock any Instrument from any client
- Rollout and Scaling out the system is easy
- AIC redundancy – If one fails, configure instrument to another in seconds

Network

HPLC Lab

AIC

GC Lab

AIC

Mass Spec Lab

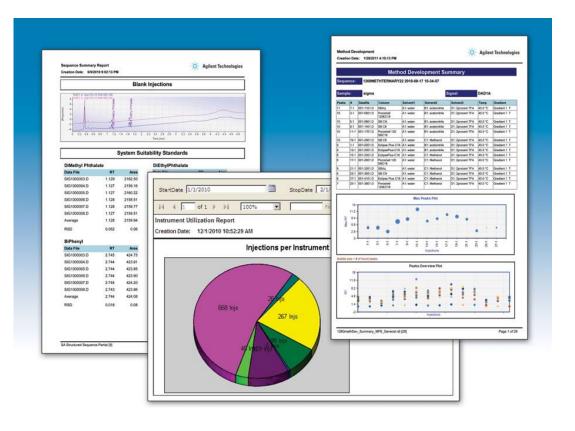AIC   GC/MS   LC/MS

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CDS Reports in a Networked System

CDS Reports on Workstations:

1. Single Injection

2. Sequence Summary

3. System Suitability

4. Related Substances

5. Content Uniformity

6. Retention Indices (Kovats)

7. NGA/RGA

8. LIMS Export

CDS Reports possible with <u>Networked Data Systems</u>:

1. All of the Above

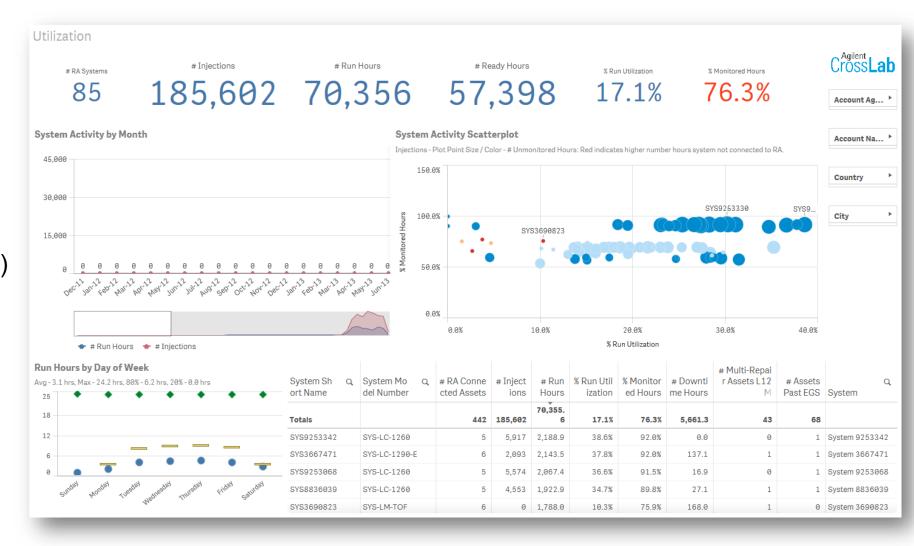2. Cross Sequence/Instrument Reports

3. Utilization Reports

4. Dissolution

CrossLab Connect
Reporting Examples

Instrument Utilization

➤ # injections
➤ Run hours
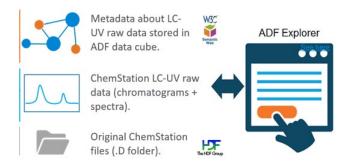➤ Ready hours (not running!)
➤ % utilized

OpenLab Additional Features:
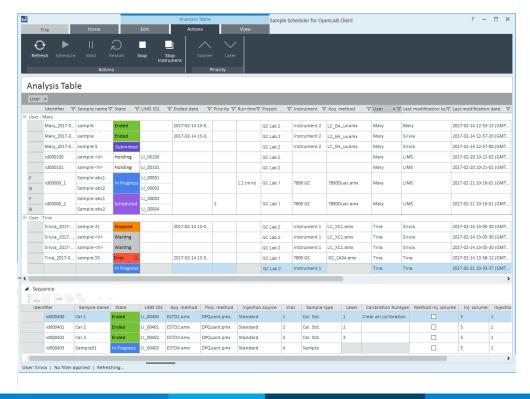
- **Allotrope Enabled**
  - First commercial CDS to support the Allotrope format
  - Pharmaceutical industry driven initiative
  - Technology Neutral Format for Long Term data archival

- **Sample Scheduler**
  - Automated Sample submission
  - OpenLab CDS – LIMS integration
  - Run all instruments across the lab/site

Agilent CrossLab

Agilent OpenLab

Project Management

- Manage project
- Single POC
- Certified PM's
- Manage Resources

Install Services

- Client/Server
- Workstations
- Instrumentation

Qualification Services

- Installation Qual.
- Operational Qual.
- Vendor Neutral

CSV Services

- GAMP V Model
- Start-up Packages
- Custom Solutions
- Vendor Neutral

Consulting

- General Purpose
- Project Based
- T&M
- Custom Solutions
- Custom Reports
- System Integrations

Call Center Support

- Annual SMA
- Call Centers
- Global Focus

Services Portfolio

DE.6403125

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Additional Openlab CDS Training Opportunities

Online and Remote Training

Agilent University

Agilent University helps you unlock the full potential of your Agilent instruments, with affordable, effective training, delivered in the format that fits your needs.

https://www.agilent.com/en/training-events/events/agilent-university

OpenLab CDS REMOTE Seminars
Limited to 50 attendees

2-Hour Hands On Interactive Remote Seminars using Agilent cloud images of OpenLab CDS. Separate sessions on

➢ Control Panel and Data Acquisition
➢ Data Analysis
➢ Custom Calculator and Reporting

Register Now!

Virtual Hands-On Series
Discover what OpenLab CDS software suite can do in your lab

OpenLab CDS Online Webinar
Overview and introduction

➢ August 10th
➢ September 14th
➢ October 5th
➢ November 9th
➢ December 14th

OpenLab CDS Webinar Series

https://www.agilent.com/en/training-events/eseminars/openlab2

OpenLab CDS 2.x Live Demo