

# Secrets for SuCCCess – Compliance, Cloud and CDS

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### Secrets to Success

• What does success in the laboratory look like?

Being compliant and passing audits

- Achieving cost savings through
  - Leveraging advances in IT
  - Improving productivity/throughput
  - Reducing errors
- Going home at 5pm and not having to worry!



### Secrets to Success



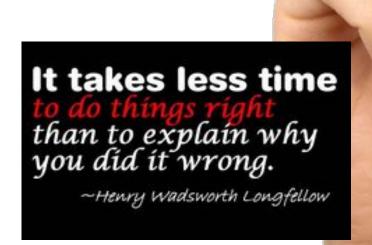
# Making Compliance Easier

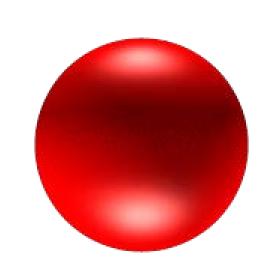
"If you think compliance is expensive – try non-compliance." COMPLIANCE

Former U.S. Deputy Attorney General Paul McNulty

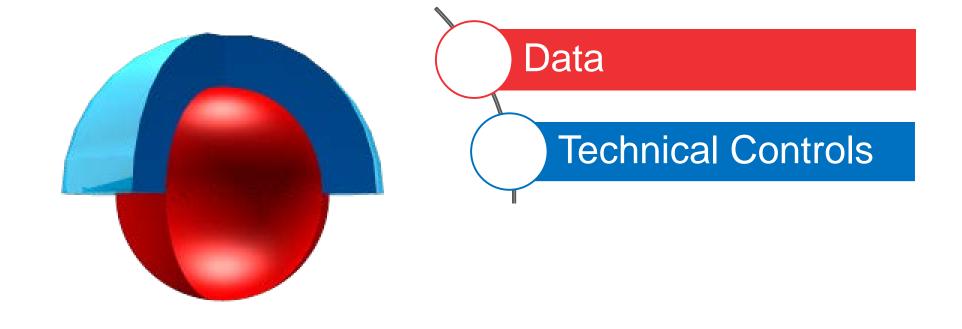
Easy implementation of technical controls

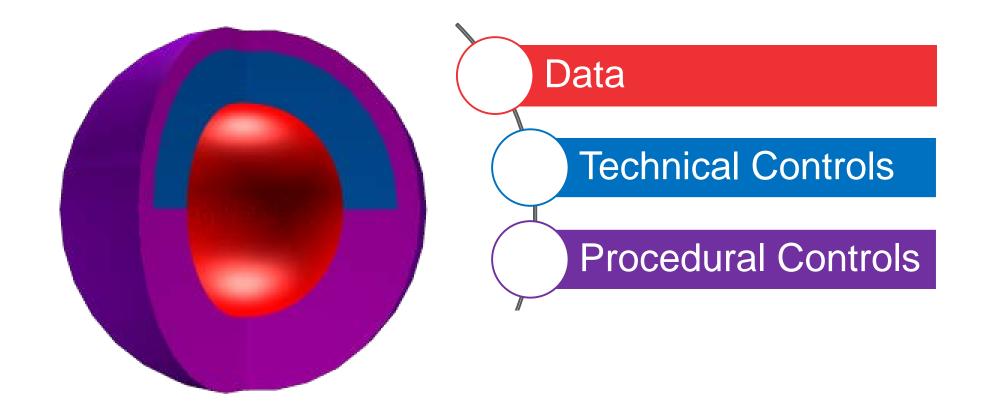
- Easy monitoring of adherence
- Easy demonstration of compliance

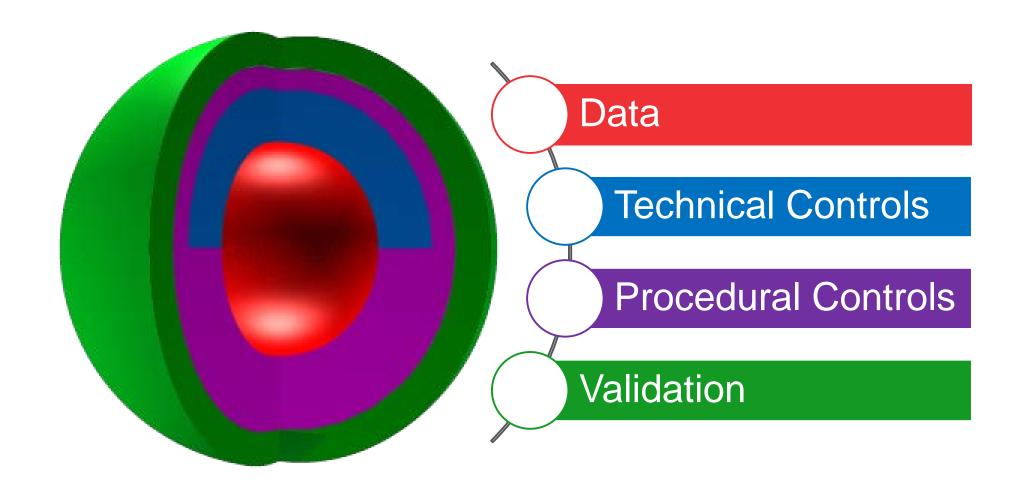






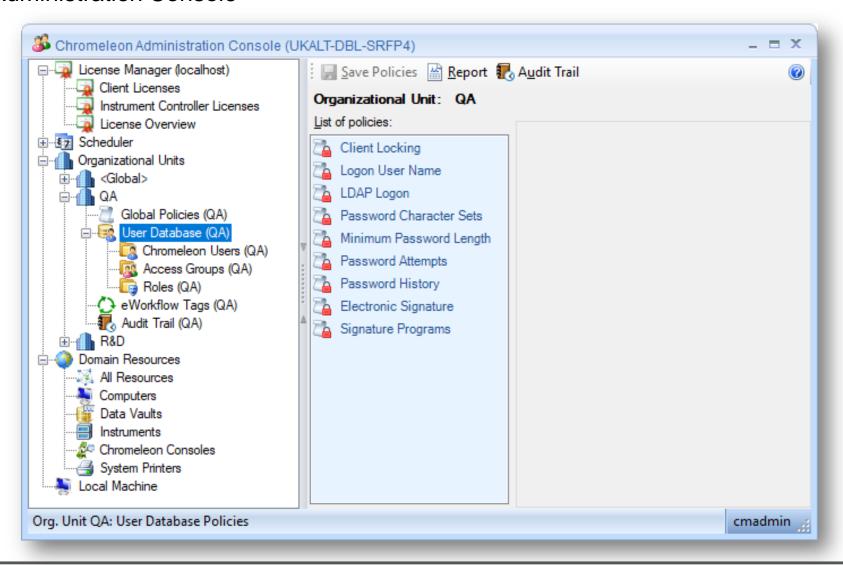






# Easy Implementation of Compliance Controls

Centralized Administration Console



# Easy Implementation of Compliance Controls

- Centralized Administration Console
- Comprehensive set of Audit Trails:
  - Data, injection, instrument, user management
  - Domain Resources, Data Vault Manager, eWorkflow™ Tags
  - Station, Global Policies, Organizational Units
- Extensive user management with privileged actions & full auditing of actions
- Access groups to control user access to software elements
- Versioning of data objects with industry-leading comparison and roll back
- Industry-leading network failure protection and data transport protocols
- Relational database at the heart of everything (Oracle or SQL Server)
- Integrated System Suitability Tests (SST)

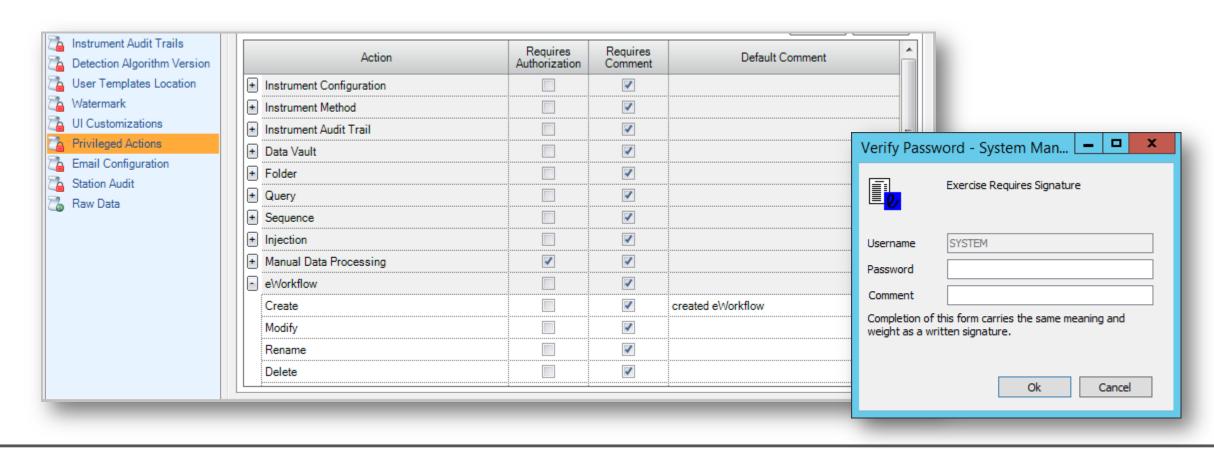


Thermo Scientific™ Chromeleon™ 7 CDS has passed many FDA audits without any 483 observations
White papers and technical notes covering compliance, 21 CFR Part 11 and Data Integrity are available at

www.thermofisher.com/chromeleon

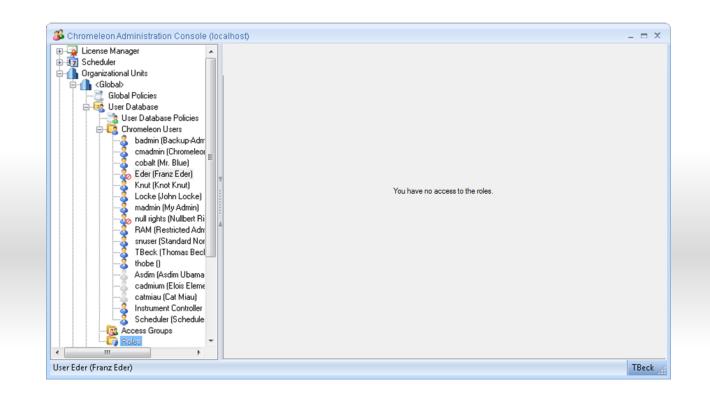
# Easy Implementation of Compliance Controls – Privileged Actions

- Purpose: Require further authentication and/or comments for users performing operations
- Privileged Actions can be configured against any action to confirm who performs that action
- A comment can be captured, which can be freeform or available as a drop-down picklist



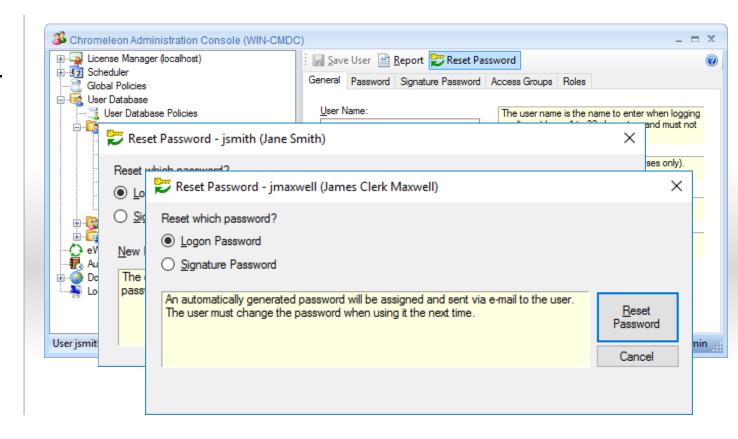
# Easy Implementation of Compliance Controls – Managing Users

- Introducing more fine-granular control of user management
- Introduces the ability to define "reducedadmins"
  - Cannot modify User Mangement Policies
  - Prevent changes to roles or access groups
  - Only reset passwords
- Reduced-admins actions can be controlled so that they cannot grant themselves higher privileges
- Ability to only allow reduced-admins to create users with the same or less privileges and access



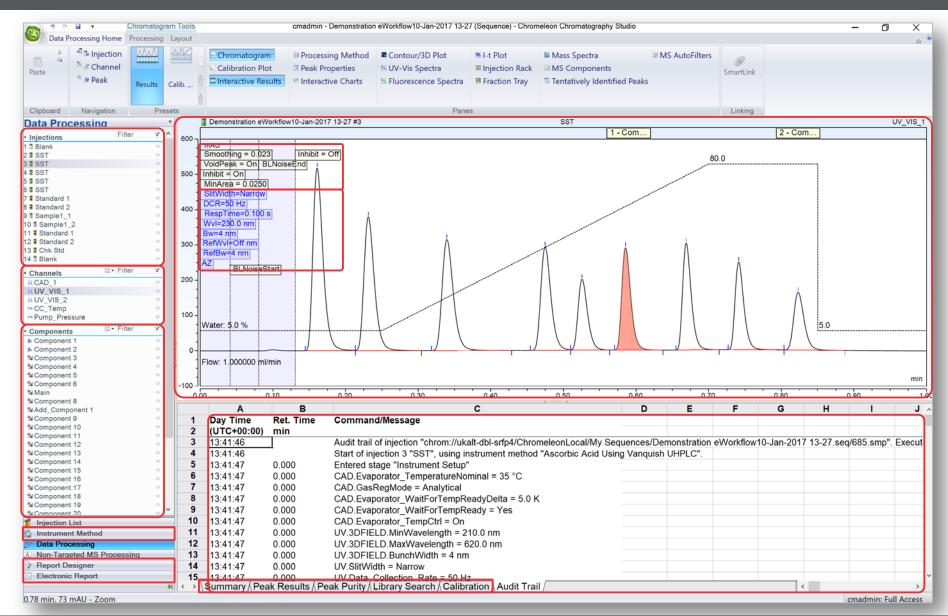
### Easy Implementation of Compliance Controls – Reset Password

- If administrator has the reset password policy they can assign new passwords to all users
- To ensure a reduced-admin cannot takeover a full admin's account, so long as the full admin has an associated email adress, the new password is not visible and will only be disclosed in the email to the full admin user



## Easy Monitoring of Adherence

- Easy review of data via Chromatography Studio
  - Injections
  - Channels
  - Components
  - Chromatogram
  - Detection Parameters
  - Instr. Method Parameters
  - Interactive Results
  - Injection Audit Trail
  - Report & eReport





# Easy Monitoring of Adherence - Example

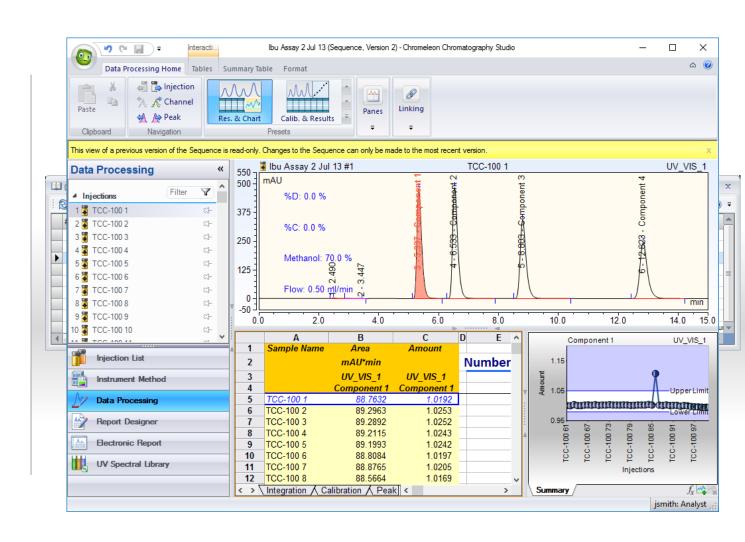
• Summary of version numbers giving reviewers clear indication of where to focus

No.	Injection Name	Injection	Chromatogram	InstrumentMethod	Instrument	Processing method	Processing
		Version	Version		Method	Name	Method
		Number	Number		Version		Version
					Number		Number
1	Equilibration Blank	2	1	sps5060 assay lc50	1	sps5060 assay	2
2	Blank	2	1	sps5060 assay lc50	1	sps5060 assay	2
3	Blank	2	1	sps5060_assay_lc50	1	sps5060_assay	2
4	SST	2	1	sps5060_assay_lc50	1	sps5060_assay	2
5	STD 1-A	2	1	sps5060_assay_lc50	1	sps5060_assay	2
6	STD 1-B - 1	2	1	sps5060_assay_lc50	1	sps5060_assay	2
7	STD 1-B - 2	2	1	sps5060 assay lc50	1	sps5060 assay	2
8	STD 1-B - 3	2	1	sps5060 assay lc50	1	sps5060 assay	2
9	STD 1-C	2	1	sps5060_assay_lc50	1	sps5060_assay	2
10	STD 2-B - 1	2	1	sps5060_assay_lc50	1	sps5060_assay	2
11	800317350 a	4	1	sps5060_assay_lc50	1	sps5060_assay	2
12	800317350 b	4	1	sps5060_assay_lc50	1	sps5060_assay	2
13	800317940 a	4	1	sps5060 assay lc50	1	sps5060 assay	2
14	800317940 b	4	1	sps5060 assay lc50	1	sps5060 assay	2
15	800317950 a	4	1	sps5060_assay_lc50	1	sps5060_assay	2
16	800317950 b	4	1	sps5060_assay_lc50	1	sps5060_assay	2
17	STD 2-B - 2	3	1	sps5060 assay lc50	1	sps5060 assay	2
18	800317960 a	4	1	sps5060_assay_lc50	1	sps5060_assay	2
19	800317960 b	4	1	sps5060 assay lc50	1	sps5060 assay	2
20	800317970 a	4	1	sps5060 assay lc50	1	sps5060 assay	2
21	800317970 b	4	1	sps5060 assay lc50	1	sps5060 assay	2
22	STD 2-B - 3	3	1	sps5060 assay lc50	1	sps5060 assay	2
23	Shutdown	3	1	shutdown Ic50	1	sps5060 assay	2
Мах	version Number:	4	1	n.a.	1	n.a.	2



# Easy Demonstration of Compliance – Studio Version Comparison

- Studio button is now available in Data Audit Trail Viewer
- Selecting a previous version to the current open the sequence in the Studio as read-only
- Several Studios can be opened with different versions



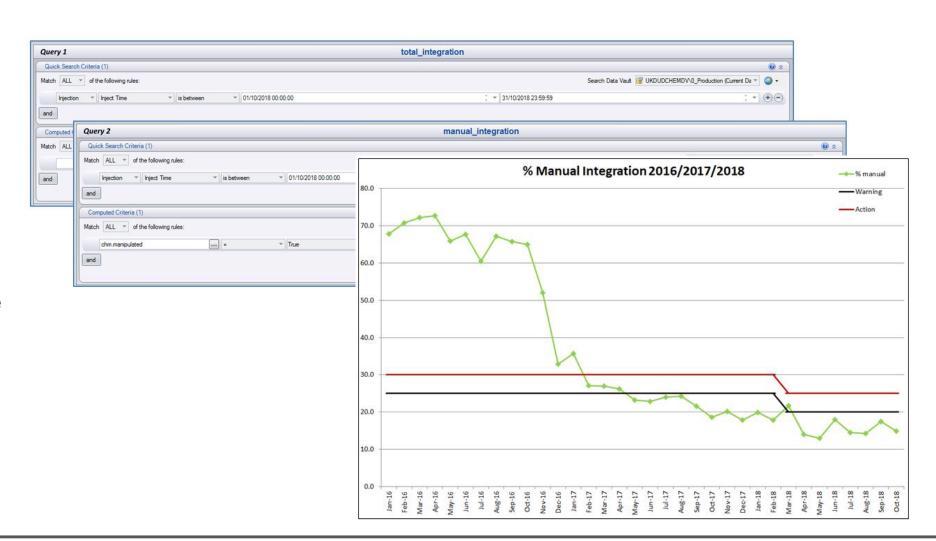


# Easy Demonstration of Adherence - Example

Monitoring use of manual integration

Run Query

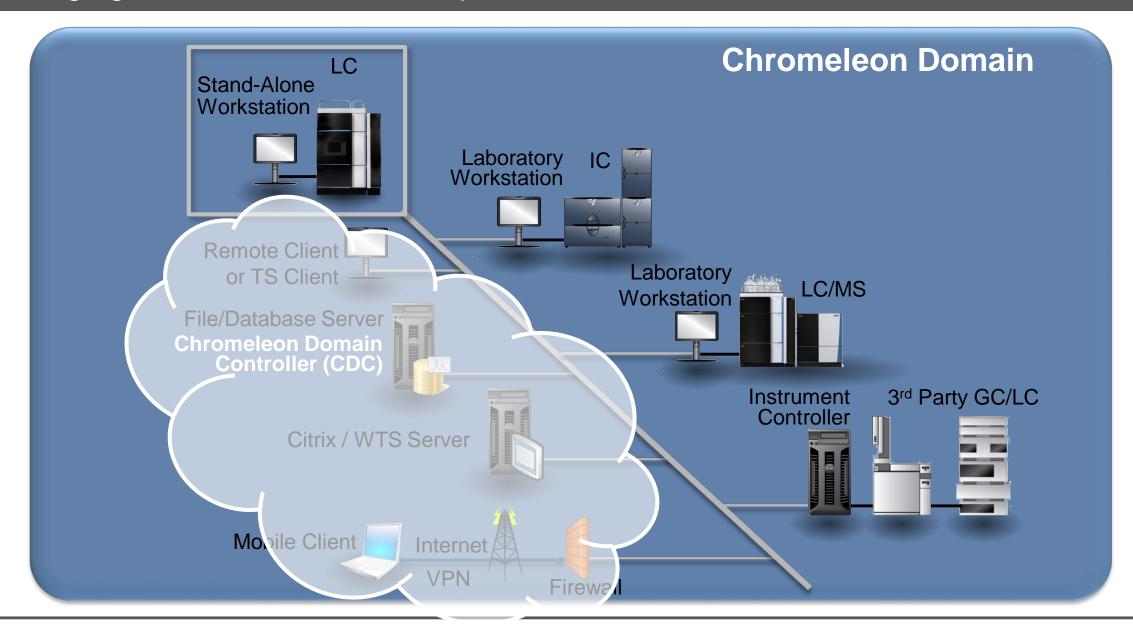
Open report template



### Secrets to Success



# Leveraging Advances in IT – Enterprise Architecture



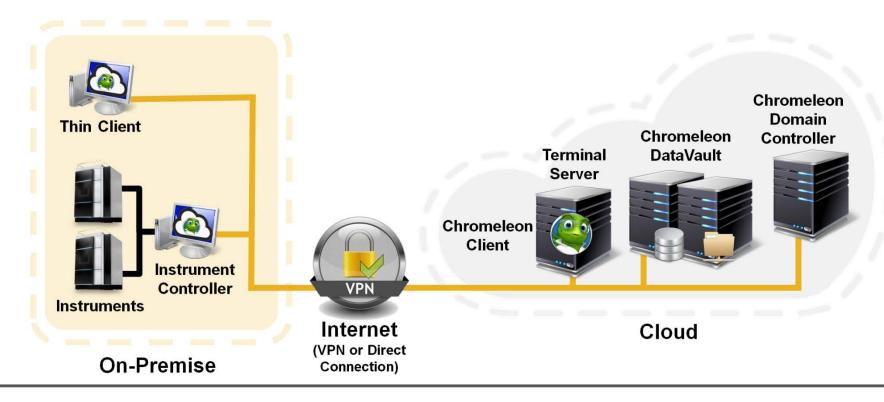
# Leveraging Advances in IT – Cloud Benefits and Challenges

- Reduced Operating Costs
  - Switch CapEx to OpEx
  - Only pay for what you use → total cost of ownership (TCO) plunges
- Flexibility and Scalability
  - Fast deployment → rapidly scale resources up or down at peak or quiet times
- Reliability
  - 24/7/365 and >99.95% availability
  - Fast failover and easy backup/restore
- Control
  - Minimal control over cloud resources
- Security
  - Degree of uncertainty about how security at all levels can be achieved
  - Data isolation in a multi-tenancy environment
- Reliability
  - Outages and other technical issues (internet down)



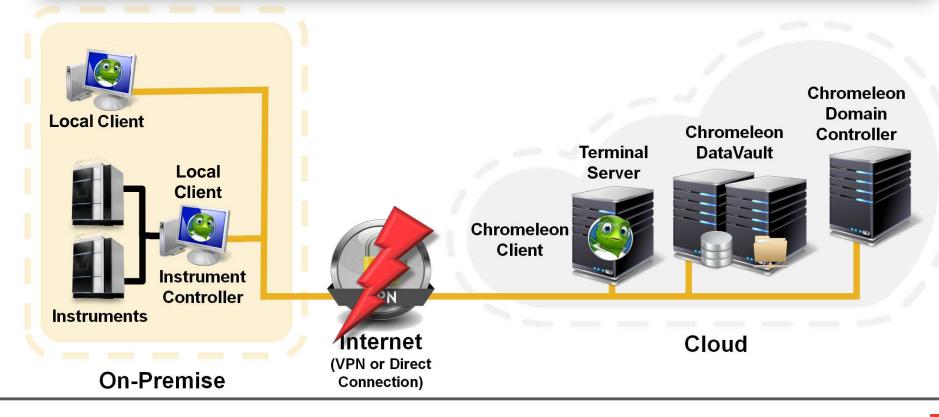
### Leveraging Advances in IT – Chromeleon CDS Cloud

- Lift and shift central resources and Chromeleon Client to cloud
  - Reduced costs on servers and IT infrastructure
  - Easy scalability of server resources
  - Elasticity of Client computing resources
- Significant performance improvements possible



### Leveraging Advances in IT – Cloud Network Failure Protection

- ✓ On-premise users can continue working with Local Clients
- ✓ Software license available on Instrument Controller.
- ✓ Users can log on using Local Client
- ✓ No loss of data being generated during internet connection failure



### Secrets to Success



# Improving Productivity

# **Chromeleon CDS increases** your lab productivity

- Operational Simplicity delivers ease-of-use saving time, effort, and training costs
- ✓ Suite of intelligent tools work together ensuring more right the first time analyses saving time and cost
- True 24/7 laboratory uptime with outage protection for maximum utilization of resources and faster return on investment



# Improving Productivity – Simplifying Lab Workflows

# Chromeleon CDS simplifies your lab workflows

 eWorkflow<sup>™</sup> procedures deliver operational simplicity, reproducibility, and easy method distribution

 Parameter-free integration with instant reporting gives ease of use saving time and effort

Unique integration of MS can reduce number of tests, simplify workflows and give faster return on investment



### Secrets to Success



# Boosting Lab Productivity – Getting It Right The First Time

#### Getting analysis right first time automatically gives:

- ✓ High quality of and confidence in results
- ✓ Lower cost of analysis
- √ Improved lab efficiency
- ✓ Faster release to market and return on investment





#### **Predictive Performance**

✓ Analysis more likely to complete first time

#### **ICH Method Validation Templates**

✓ Robust method more likely to run first time

#### <u>eWorkflows</u>

✓ Create correct sequence first time, every time



#### Smart Startup

✓ Ensures first injection is always good



#### **System Suitability Tests**

Sequence Ready Check

run to completion

✓ Confirms sequence will

✓ Gives highest confidence in results



#### Intelligent Run Control

✓ Get right results, no out of spec investigations



#### Report Templates with Report Check

✓ Correct calculations give high confidence in results



## Streamline your Laboratory





# Achieve, maintain & demonstrate compliance

Easy, centralized setup

Simple monitoring of adherence

Tools to help demonstrate

compliance

Maximize Your Lab Productivity



#### Up to 30% efficiency gain

Time savings of 6-60 minutes are routinely obtained using smart processing tools

Get more 'right first time' analyses

Network-independent data acquisition for 24/7 uptime

Simplify Your Lab Workflows



#### Faster, simpler workflows

Roll-out methods faster with eWorkflow procedures

Simplify method development with parameter-less integration

Faster results with instant reporting

Lower Your Cost of Ownership



# Scalable deployment with easy maintenance

Single software for all instruments

Leverage advances in IT (Cloud)

Simplified administration

Link to existing software systems for seamless data flow

Chromeleon CDS delivers compliance, productivity, ease of use, and lower CoO

#### For more information on Chromeleon CDS software visit:

# thermofisher.com/OneCDS

Like Charlie Chromeleon on Facebook to follow his travels and get important updates on chromatography software!



Join the LinkedIn customer forum – Chromeleon User Group – to discuss Chromeleon CDS with us and your industry peers.







### Thank You

Please return our survey to receive a drink ticket for our daily networking event where you can continue discussions with our experts!

