Configuring for compliance

Considerations when selecting a Chromatography Data System (CDS) for compliant operation require that it satisfy ALCOA+ standards for data traceability and possess appropriate tools to implement use under selected regulatory guidelines.

Delivering tools for access control, electronic review, audit trails, and qualification all while providing ease-of-use can present several challenges. Thermo Scientific[™] Chromeleon[™] CDS has been designed and optimized to overcome them.

Access control

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More than just limiting the access to the system itself or use of certain instruments and data folders, Chromeleon also has the ability to configure customized, granular-privelege, rulesets out of more than 180 choices to better define what users can manipulate.



Assign users one or more roles which are comprised of a group of privileges

Chromeleon Console		
Back 🔘 Create File Edit View Tool	s Help	
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ChromeleonLocal Development Development Development Development Colder Properties		
General Access Control Raw Data Statistics	Locks	
Cuality Control Canality Control Alfred		××××
Add User or Group		
Role Name	Allow	Deny
Full Access	V	
QC Analyst		
R&D Analyst		V
Lab Manager		
Lead Chemist	3	
		OK Cancel

Restrict access to data vaults, folders within data vaults, and instruments by adding users or groups to access control

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Peptide Group



Electronic review

With the ability to add a review step prior to acquisition, centralized data collection with all the associated data organized per sequence, comprehensive tools to monitor changes in methods and chromatograms, and a three-level electronic signature process, it's easier than ever to transition away from paper.

Modify the peptide group.

	New	P _E F	Request Acquisition Approval						
	Save 🧿 Studio 🛃 F	n Per	Request Acquisit	vn					
#	UV_VIS_1 ▶ Nar	n 📥	Submit						
1	None 🛅			Blank					
2	None			Calibration Stand	lard				
3	None			Calibration Stand	lard				

Set up acquisition privileges in administration to require users to request approval prior to starting a sequence.



Review all electronic data associated items in a customizable window without navigating elsewhere.

- Navigate through injection list, instrument method information and more with easy left-panel control.
- 2. Add and subtract panes for review or customize the pane options altogether with editable ribbons to focus review on what is relevant.
- 3. Explore each pane deeper with the associated tabs of information

Version	Date / Time	Operat	or	Role			
	2/20/2023 7:57:51 AM -07:00 2/20/2023 7:59:00 AM -07:00	cmadmin cmadmin		Full Access Full Access		Changed Changed	
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∡ s Pump %A			95.0	[2]	95.0 [%]		
%B			5.0		5.0 [%]		
%C			0.0[-	0.0 [%]		
%D			0.0[0.0 [%]		
Flow) [ml/min]	1.100 [ml/min]		
Pressure	9					-	
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▷ Sampler					\checkmark		
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Smart Shutdow	vn						
▷ Pump					\sim		
Sampler			\checkmark		\checkmark		
ColumnOve			<u>_</u>		\checkmark		
Smart Standby	r						

Compare method versions with icon highlighted menus that expand to allow reviewers to view differences side-by-side.



Select the display option to stack auto generated integration with manually integrated versions to visualize and simplify the review of user-made changes.



Define electronic signatures for up to three levels (submit, review and/or approval) for individual sequences or incorporate into eWorkflows.



Click review to sign for reviewing and lock the sequence against edits.



Click approve to sign for the final step in the review process.



Audit trails

Reviewing audit trails with gueries at the administration and instrument level along with adding audit trail events to highlight actions in data review will decrease the effort for this overwhelming activity.



instrument configurations in the past month. Once queried, the results can be utilized to generate a report.

Changes to	Global Policies	Administration Audi	1/16/2023 9:09:46 AM	-07:00	
Object name:	Changes to Global Policie	es			~
Channel:					~
Object type:	Administration Audit Trail	Query			~
			(Save	Cancel

						J	, ,	sk-assessed actions in
of policies:	Audit Trail Events					review	with audi	t trail events so that cha
User Mode	Audit Trail Event		Description				wheed with	appy to appt icono wit
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Aulti-User Logon	Ext. Spectral Library Changed		The external spectral libraries has			1.1.6		
jection Locking	Manual Command Interference				detalle	ed informa	tion about the change.	
emote Data Vaults	Instrument Error Occurred		A manual instrument command was executed while an injection was runnin An instrument error occurred while an injection was running			-		
strument Data	Processing Method Changed		A processing method has been		starining			
	Injection Changed		An injection has been changed					
tection Algorithm Version	Injection List Changed		An injection has been added or		niection list			
er Templates Location	Instrument Method Changed		An instrument method has been		nje etion nat			
atermark	Report Template Changed		A report template has been cha					
Customizations	Chromatogram Changed		A chromatogram has been char					
vileged Actions	Sequence Properties Changed		A sequence property has been					
nail Configuration	Additional Sequence Start		A sequence has been restarted					
		F				-		
tion Audit		Data Audit	Trail - ATR\ATR_Assay_6month_	04Aug2020				- =
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				Sequence	2 04/08/2020 15:31:37 +0		Started Run	
			ATR_Assay_6month_04Aug2020	Sequence	2 04/08/2020 15:28:46 +0		Aborted Run	
			ATR_Assay_6month_04Aug2020	Sequence	2 04/08/2020 15:05:46 +0		Started Run	
				Sequence	2 04/08/2020 14:41:29 +0			
			Standard 1	Injection	2 04/08/2020 14:41:28 +0			
				Sequence	2 04/08/2020 14:33:28 +0		Started Run	
			ATR_Assay_6month_04Aug2020	Sequence	2 04/08/2020 10:46:54 +0			entered Standard weights
				Sequence	1 04/08/2020 10:16:37 +0			
			Blank	Injection	1 04/08/2020 10:16:35 +0			
				Sequence	1 04/08/2020 10:15:09 +0		Started Run	
			ATR_Assay_6month_04Aug2020	Sequence	1 04/08/2020 10:08:18 +0		Added to queue	
			ATR_Assay_6month_04Aug2020	Sequence	1 04/08/2020 10:07:59 +0		Downloaded	
			ATR_Assay_6month_04Aug2020	Sequence	1 04/08/2020 10:07:59 +0		Downloaded	
			ATR_Assay_6month_04Aug2020	Sequence	1 04/08/2020 10:02:28 +0	1:00 jmaxwell	Save As	copied to repeat analysis after instrument failure
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		Audit Trail Even	ts for Data Audit Trail Entry #14					
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Qualification

With tools to run qualifications across a larger enterprise installation from the menu in the administration console, or from the menu in each individual stand-alone station, maintaining qualification status is less complex than ever.

Ging License Manager (ocalhost) Ging License Manager (oca	: 6	🔚 Save 🔛 Report 👯 Audit Trail 🍓 Manage Data Vaults 🔗 Configure Instrument Controller 📓 Installation and Maintenance 🔹														
	-	Computers					👫 Set Maintenance Window									
		Drag a column header here to group by that column.								Updater +						_
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Data Vaults	1	nlbre-6r2rv02	7.3.0.60606	Online	0 day(s) 00:50	6	Online	1	0 day(s) 00:47	1	Enabled	1				True
- Instruments	2	nlbre-44dt0n2	7.3.0.60606	Online	0 day(s) 00:48	6	Online	1	0 day(s) 00:09	2	Enabled		02-Mar-20 11	00.00 PM +01.00	03-Mar-20 3:00:00 AM +01:00	True
System Printers																
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Select the menu option from the console in order to start the Qualification process.

Choose the qualification checks for the system to run.





Generate and retain the resulting report once the process completes.



Conclusion

Chromeleon CDS delivers an easy-to-adopt, easy-to-evolve, and easy-to-deploy software that can support the bedrock of a compliant system.

Meet the challenges of access control, electronic data review, audit review, and qualification with Chromeleon CDS

Built for Stability. Built for Performance. With no compromise.

Learn more at thermofisher.com/chromeleon

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