



SIEMENS
Ingenuity for life

What's new in Siemens Opcenter RD&L 8.0

Providing plate management, multi-level formulation and regulatory enhancements

Benefits

- Deliver plate management, multi-level formulation and regulatory enhancements
- Provide well-maintained product quality and compliance
- Reduce new product development and introduction costs
- Realize faster time-to-market
- Facilitate faster exchange of product data with partners
- Standardize intellectual property throughout the company

Summary

Siemens Opcenter™ software, Research Development and Laboratory (RD&L) 8.0 is the next version released on the new-generation platform formerly known as the SIMATIC IT (SIT) R&D Suite. Siemens Opcenter Research Development and Laboratory represents a major technological evolution, providing lightweight client applications to the user, employing web technology and HTML5. This release is primarily focused on plate management, multi-level formulation and regulatory enhancements.

Improvements in Siemens Opcenter Research Development and Laboratory 8.0 include:

- Lab information management system (LIMS)
 - Plate management
 - Data migration toolkit from SIT Unilab v6 (operational)

- Specification management
 - Formulation builder (multi-level formulation in compare view)
 - Data migration capabilities to initiate specification management data
- Regulatory enhancements
 - Support for cross-contaminants in allergen declaration
 - Synonyms and drop-down for component grouping
 - Relative quantity possibility for sub-components and groups
- Improved usability
 - Improvements to application usability and performance for more speed and efficiency
 - Frame refresh for multiple specifications
 - Access rights per user
- Technology
 - Optimized deployment on Amazon (AWS)
 - Runs on Windows Server 2019
- Other
 - Rebranding
 - Quality task for Siemens Opcenter Execution Foundation 3.1

Learn more about the complete list of enhancements and features in the software release notes.

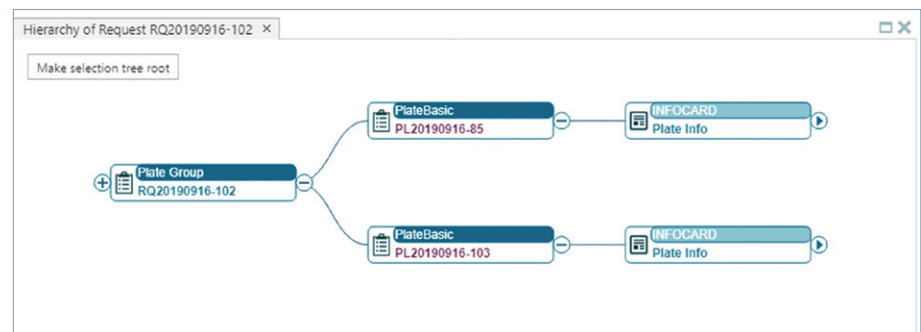
What's new in Siemens Opcenter RD&L 8.0

Plate management

Siemens Opcenter Research Development and Laboratory 8.0 provides support for microplate analysis in laboratories. It introduces a graphical representation of the plates for manual or automatic filling, result entry and validation. Dilution and multiple analysis (which are performed two or three times to verify repeatability) are included in the plate type configuration. It is possible to assign a plate as a child element to a request. The plate will be visible in the hierarchical grid view and hierarchy tree view of the request in the same way as the other child elements. This is used to group plates for storage or logistical reasons.

Contextual styling linked to layout allows you to highlight any relevant information for users: free wells, positive or negative results, assigned method. Result entry can be done by connecting the plate reader or by manual input using the linked worklist.

Plate templates are highly configurable to reflect the specificity of the kits laboratory purchase. A predefined lifecycle is available for plates. Following the same concept as a worksheet, it takes into account the lifecycle of the control samples to assess the validity of the plate. The lifecycle is included in the applied best practice lifecycles and delivered with Siemens Opcenter Research Development and Laboratory 8.0.



Open Plate Wizard - Filter Results <Basic Task>

Plate Details for PL20190913-68	1	2	3	4	5	6	7	8	9	Worklist	Sample	D...	Status	Reading	Blank
A	SC20190913-71 PCR_1 Reading:99.00	SC20190913-72 PCR_1 Reading:99.00	SC20190913-73 PCR_1 Reading:99.00	SC20190913-74 PCR_1 Reading:99.00	SC20190913-75 PCR_1 Reading:99.00	SC20190913-76 PCR_1 Reading:99.00	SC20190913-77 PCR_1 Reading:99.00	SC20190913-78 PCR_1 Reading:99.00	SC20190913-79 PCR_1 Reading:99.00	SC20190913-77	PCR_1	OutOfControl	99.00	1.00	
	SC20190913-71 PCR_1 Blank:1.00	SC20190913-72 PCR_1 Blank:1.00	SC20190913-73 PCR_1 Blank:1.00	SC20190913-74 PCR_1 Blank:1.00	SC20190913-75 PCR_1 Blank:1.00	SC20190913-76 PCR_1 Blank:1.00	SC20190913-77 PCR_1 Blank:1.00	SC20190913-78 PCR_1 Blank:1.00	SC20190913-79 PCR_1 Blank:1.00	SC20190913-78	PCR_1	OutOfControl	99.00	1.00	
	SC20190913-71 PCR_2 Reading:99.00	SC20190913-72 PCR_2 Reading:99.00	SC20190913-73 PCR_2 Reading:99.00	SC20190913-74 PCR_2 Reading:99.00	SC20190913-75 PCR_2 Reading:99.00	SC20190913-76 PCR_2 Reading:99.00	SC20190913-77 PCR_2 Reading:99.00	SC20190913-78 PCR_2 Reading:99.00	SC20190913-79 PCR_2 Reading:99.00	SC20190913-79	PCR_1	OutOfControl	99.00	1.00	
B	SC20190913-71 PCR_1 Blank:1.00	SC20190913-72 PCR_1 Blank:1.00	SC20190913-73 PCR_1 Blank:1.00	SC20190913-74 PCR_1 Blank:1.00	SC20190913-75 PCR_1 Blank:1.00	SC20190913-76 PCR_1 Blank:1.00	SC20190913-77 PCR_1 Blank:1.00	SC20190913-78 PCR_1 Blank:1.00	SC20190913-79 PCR_1 Blank:1.00	SC20190913-69	PCR_2	Finished	101.00	1.00	
	SC20190913-71 PCR_2 Reading:99.00	SC20190913-72 PCR_2 Reading:99.00	SC20190913-73 PCR_2 Reading:99.00	SC20190913-74 PCR_2 Reading:99.00	SC20190913-75 PCR_2 Reading:99.00	SC20190913-76 PCR_2 Reading:99.00	SC20190913-77 PCR_2 Reading:99.00	SC20190913-78 PCR_2 Reading:99.00	SC20190913-79 PCR_2 Reading:99.00	SC20190913-70	PCR_2	Finished	102.00	0.50	
	SC20190913-71 PCR_2 Blank:1.00	SC20190913-72 PCR_2 Blank:1.00	SC20190913-73 PCR_2 Blank:1.00	SC20190913-74 PCR_2 Blank:1.00	SC20190913-75 PCR_2 Blank:1.00	SC20190913-76 PCR_2 Blank:1.00	SC20190913-77 PCR_2 Blank:1.00	SC20190913-78 PCR_2 Blank:1.00	SC20190913-79 PCR_2 Blank:1.00	SC20190913-71	PCR_2	OutOfControl	99.00	1.00	
C	SC20190913-71 PCR_2 Reading:99.00	SC20190913-72 PCR_2 Reading:99.00	SC20190913-73 PCR_2 Reading:99.00	SC20190913-74 PCR_2 Reading:99.00	SC20190913-75 PCR_2 Reading:99.00	SC20190913-76 PCR_2 Reading:99.00	SC20190913-77 PCR_2 Reading:99.00	SC20190913-78 PCR_2 Reading:99.00	SC20190913-79 PCR_2 Reading:99.00	SC20190913-72	PCR_2	OutOfControl	99.00	1.00	
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D	SC20190913-71 PCR_3 Blank:	SC20190913-72 PCR_3 Blank:	SC20190913-73 PCR_3 Blank:	SC20190913-74 PCR_3 Blank:	SC20190913-75 PCR_3 Blank:	SC20190913-76 PCR_3 Blank:	SC20190913-77 PCR_3 Blank:	SC20190913-78 PCR_3 Blank:	SC20190913-79 PCR_3 Blank:	SC20190913-75	PCR_2	OutOfControl	99.00	1.00	
	SC20190913-71 PCR_4 Reading:	SC20190913-72 PCR_4 Reading:	SC20190913-73 PCR_4 Reading:	SC20190913-74 PCR_4 Reading:	SC20190913-75 PCR_4 Reading:	SC20190913-76 PCR_4 Reading:	SC20190913-77 PCR_4 Reading:	SC20190913-78 PCR_4 Reading:	SC20190913-79 PCR_4 Reading:	SC20190913-76	PCR_2	OutOfControl	99.00	1.00	
	SC20190913-71 PCR_3 Blank:	SC20190913-72 PCR_3 Blank:	SC20190913-73 PCR_3 Blank:	SC20190913-74 PCR_3 Blank:	SC20190913-75 PCR_3 Blank:	SC20190913-76 PCR_3 Blank:	SC20190913-77 PCR_3 Blank:	SC20190913-78 PCR_3 Blank:	SC20190913-79 PCR_3 Blank:	SC20190913-77	PCR_2	Finished	99.00	1.00	
E	SC20190913-71 PCR_3 Blank:	SC20190913-72 PCR_3 Blank:	SC20190913-73 PCR_3 Blank:	SC20190913-74 PCR_3 Blank:	SC20190913-75 PCR_3 Blank:	SC20190913-76 PCR_3 Blank:	SC20190913-77 PCR_3 Blank:	SC20190913-78 PCR_3 Blank:	SC20190913-79 PCR_3 Blank:	SC20190913-78	PCR_2	Finished	99.00	1.00	
	SC20190913-71 PCR_4 Reading:	SC20190913-72 PCR_4 Reading:	SC20190913-73 PCR_4 Reading:	SC20190913-74 PCR_4 Reading:	SC20190913-75 PCR_4 Reading:	SC20190913-76 PCR_4 Reading:	SC20190913-77 PCR_4 Reading:	SC20190913-78 PCR_4 Reading:	SC20190913-79 PCR_4 Reading:	SC20190913-79	PCR_2	Finished	99.00	1.00	
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	SC20190913-71 PCR_4 Reading:	SC20190913-72 PCR_4 Reading:	SC20190913-73 PCR_4 Reading:	SC20190913-74 PCR_4 Reading:	SC20190913-75 PCR_4 Reading:	SC20190913-76 PCR_4 Reading:	SC20190913-77 PCR_4 Reading:	SC20190913-78 PCR_4 Reading:	SC20190913-79 PCR_4 Reading:						
	SC20190913-71 PCR_3 Blank:	SC20190913-72 PCR_3 Blank:	SC20190913-73 PCR_3 Blank:	SC20190913-74 PCR_3 Blank:	SC20190913-75 PCR_3 Blank:	SC20190913-76 PCR_3 Blank:	SC20190913-77 PCR_3 Blank:	SC20190913-78 PCR_3 Blank:	SC20190913-79 PCR_3 Blank:						
G	SC20190913-71 PCR_4 Reading:	SC20190913-72 PCR_4 Reading:	SC20190913-73 PCR_4 Reading:	SC20190913-74 PCR_4 Reading:	SC20190913-75 PCR_4 Reading:	SC20190913-76 PCR_4 Reading:	SC20190913-77 PCR_4 Reading:	SC20190913-78 PCR_4 Reading:	SC20190913-79 PCR_4 Reading:						
	SC20190913-71 PCR_3 Blank:	SC20190913-72 PCR_3 Blank:	SC20190913-73 PCR_3 Blank:	SC20190913-74 PCR_3 Blank:	SC20190913-75 PCR_3 Blank:	SC20190913-76 PCR_3 Blank:	SC20190913-77 PCR_3 Blank:	SC20190913-78 PCR_3 Blank:	SC20190913-79 PCR_3 Blank:						
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Formulation builder

In addition to the well-known formula workbench functionality, a new formulation builder view is available. The formulation builder makes it possible to experiment with multiple formulations at once. The advantage is that you can create and compare formulations in a side-by-side view. The formulation builder does not replace the formula workbench functionality or support its full scope. For advanced calculations, roll-ups and what-if type analysis, the formula workbench tool is still the right application to use. The formulation builder is a quick, simple editing tool that allows you to compose formulations side-by-side in an easy and intuitive way.

In formula builder you can add and remove existing formulations, create new ones from existing ones or from scratch, change quantities on every level and rescale from the top level.

All modifications are saved and available in a standard formula workbench view to continue, when needed, with advanced calculations and roll-ups, enabling the user to focus on one formulation. Formula builders can be accessed from the launchpad, able to name, open and save different builders grouping the formulations he or she is currently working on.

Siemens Opcenter Research, Development and Laboratory

Home Workspaces Save Create Empty Builder Load Formulation Builder Add Material Add Child Material Remove Material Add Formula Workbench

		Formulation Builder					
SAP Code	Description	Price / Unit	My first Formula		Herbal Perfume		
			Rescaled 75,000	Price 3612,500	Rescaled 100,000	Price 4012,500	
Base Oils	Base Oils		25,000	887,500	25,000	887,500	
Vanilla	Vanilla	50	2,500	125,000	2,500	125,000	
Cedewood	Cedewood	10	1,250	12,500	1,250	12,500	
Vetiver	Vetiver	20	5,000	100,000	5,000	100,000	
Ylang Ylang	Ylang Ylang	60	3,750	225,000	3,750	225,000	
Sandlewood	Sandlewood	40	5,000	200,000	5,000	200,000	
Frankincense	Frankincense	30	7,500	225,000	7,500	225,000	
Middle Tones	Middle Tones				25,000	400,000	
Rose	Rose	35			2,500	87,500	
Lavender	Lavender	15			12,500	187,500	
Blue Chamomile	Blue Chamomile	25			3,750	93,750	
Geranium	Geranium	5			6,250	31,250	
Top Notes	Top Notes		50,000	2,725,000	50,000	2,725,000	
Bergamot	Bergamot	45	17,500	787,500	17,500	787,500	
Wild Orange	Wild Orange	65	15,000	975,000	15,000	975,000	
Neroli	Neroli	55	17,500	962,500	17,500	962,500	

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