Software- und Organisations-Service

JOC Cockpit Overview



JobScheduler Operations Center: JOC Cockpit





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Motivation: Pain Points with the classic JOC and JID

Motivation for the JOC Cockpit

- 1. Architecture
 - JOC ships on top of a Master and is restricted to control that Master
 - Separate components JOC and JID have to be used
 - Information is scattered across different components without interaction
- 2. Security
 - Limited capabilities for authentication
 - Missing authorization, missing roles
- 3. Navigation
 - Navigation issue: users are forced to switch tabs
 - Usability issue: no consistent information available
- 4. Visualization
 - Presentation issue: textual representation, no graphical representation \bullet
 - Consistency issue: no system status overview available
 - Design issue: no modern design of graphical controls and use of color
- 5. Interaction
 - Missing responsiveness, no mobile devices, page refresh required
 - Options deeply buried in context menus

Motivation: Competely new User Experience

Motivation for the JOC Cockpit

- 1. Architecture
 - Platform agnostic component to control a number of Master instances
 - Introduction of a RESTful Web Service for access to JobScheduler
- 2. Security
 - Role based authentication and authorization including LDAP support
- 3. Navigation
 - Modern design for better user interaction
 - Clear context menus when performing actions
- 4. Visualization
 - Textual and graphical representation (Flow Charts, Gantt Charts)
 - Dashboard available for system status overview
- 5. Interaction
 - Near real-time information about jobs, job chains and orders is automatically displayed and refreshed
 - Support for desktops, notebooks and mobile devices
 - Bulk operations such as stopping all job chains, skipping all nodes or removing all orders associated to a job chain



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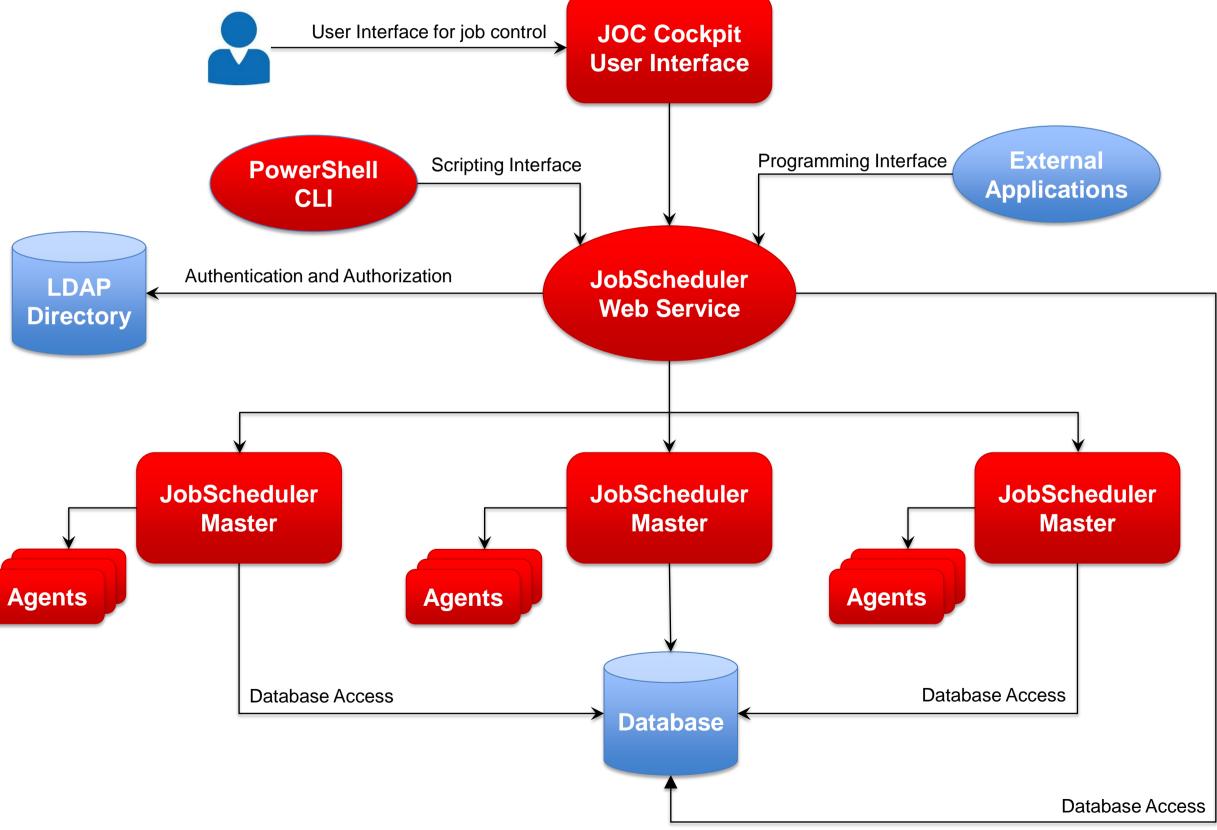


Component Architecture

JOC Cockpit Architecture

Component Architecture

- The JOC Cockpit is a user interface for job control with browsers
- JobScheduler Web Service implements a RESTful interface for use by the JOC Cockpit, PowerShell CLI and by external applications
- Users access the Master using the Web Service that performs authentication and authorization - optionally against an LDAP directory
- Users call up information and manage JobScheduler activities, e.g. current executions, planned executions, history etc.
- With the JOC Cockpit it is possible to operate several Master Instances and any number of JobScheduler Agents that execute jobs and tasks for the Masters

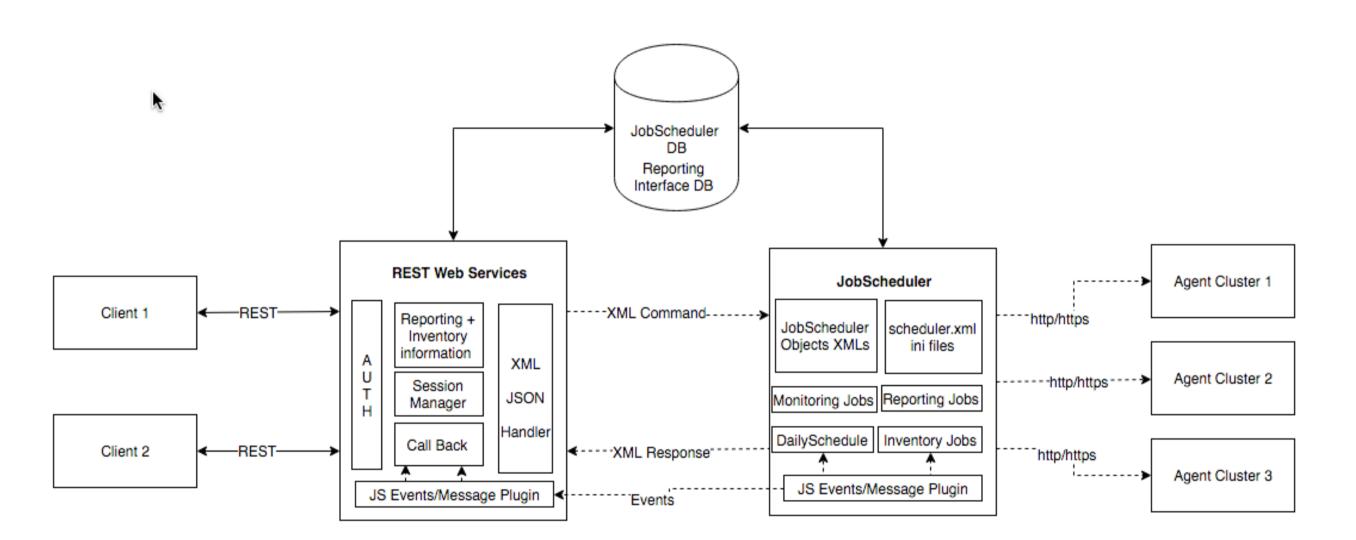


Technical Architecture

JOC Cockpit Architecture

Technical Architecture

- HTTP/HTTPS is used for communication between the RESTful Web Services and the JOC Cockpit - or other applications
- The Web Service uses JSON and XML based commands to communicate with the Masters
- Events about object status changes are communicated between the Masters and the Web Service
- Authentication and authorization is carried out by an Apache Shiro framework integrated into the Web Service



REST Web Services JobScheduler Interaction

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Role based Authentication and Authorization

- What is predefined:
 - Number and type of JobScheduler operations and object permissions
 - Operations include to view jobs, start and stop jobs etc.
- What is configurable:
 - Number and type of roles
 - Permission values (yes/no) are configured for each operation and role
 - Users can be assigned to any of the roles offered
- Identity Provider
 - LDAP for e.g. Microsoft Active Directory, Open LDAP etc.
 - Local shiro.ini file containing user name and passwords
- Mapping of Permissions to Roles

 - The mapping can be configured with a local shiro.ini file The mapping can be configured with an LDAP directory service that identifies group membership of users with specific user groups that are mapped to JOC Cockpit roles

Default Roles

- Administrator
 - Technical role without any responsibilities in the IT process
- Application Manager
 - Engineering role with in-depth knowledge of jobs and job chains, however, not necessarily involved in daily operations
- IT Operator
 - Role for daily operations of jobs and job chains
- Incident Manager
 - Role for the IT Service Desk, e.g. 1st and/or 2nd level support, for interventions and Incident Management
- Business User
 - Role for backoffice users not responsible for IT (probably for Business) Processes)
- API User
 - Role is intended for applications that access JobScheduler via its API

Matrix of Default Roles and Permissions

	Permissions		Roles					
No.	JobScheduler Object	Operation	Administrator	Application Manager	IT Operator	Incident Manager	Business User	API Use
1	JobScheduler Master	can view status / information	YES	YES	YES	YES	YES	NO
		can pause / continue	YES	YES	NO	NO	NO	NO
		can restart	YES	NO	NO	NO	NO	NO
		can terminate / restart	YES	NO	NO	NO	NO	NO
		can abort / restart	YES	NO	NO	NO	NO	NO
		manage log categories	NO	YES	NO	YES	NO	NO
		can view main log	YES	YES	YES	YES	NO	NO
2	JobScheduler Master Cluster	can view cluster status / information	YES	YES	YES	YES	YES	NO
		can terminate cluster member	YES	NO	NO	NO	NO	NO
		can restart cluster member	YES	NO	NO	NO	NO	NO
3	JobScheduler Universal Agent	can view status / information	YES	YES	YES	YES	YES	NO
		can stop	YES	NO	NO	NO	NO	NO
		can abort	YES	NO	NO	NO	NO	NO
		can restart	YES	NO	NO	NO	NO	NO
4	Daily Plan	can view status / information	NO	YES	YES	YES	YES	NO
5	History	can view	NO	YES	YES	YES	YES	YES
5	Order	can view status	NO	YES	YES	YES	YES	YES
		can start	NO	YES	YES	NO	NO	YES
		can update	NO	YES	YES	NO	NO	YES
			NO	YES	YES	NO	NO	YES
		change parameter	NO	YES	YES	NO	NO	YES
		change start and end node	NO	YES	YES	NO	NO	YES
		can suspend / resume	NO	YES	YES	NO	NO	YES
		can delete ad hoc order / blacklisted order	NO	YES	YES	NO	NO	YES
		can view configuration	NO	YES	YES	YES	YES	NO
		can view history	NO	YES	YES	YES	YES	YES
			NO	VES	VES	VES	VES	VES

Single Sign-On

JOC Security Features

Authentication

- Direct authentication via LDAP is provided
- Alternatively use of a local shiro.ini file for authentication

Authorization

- Roles and Operations are predefined
- Permissions are configured for the roles in the local shiro.ini file
- Roles can be managed with the LDAP directory service by group membership of users
- Alternatively roles can be managed in the local shiro.ini file

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Account	
it_operato	r
Password	
•••••	
Remem	ber Me
	Log In

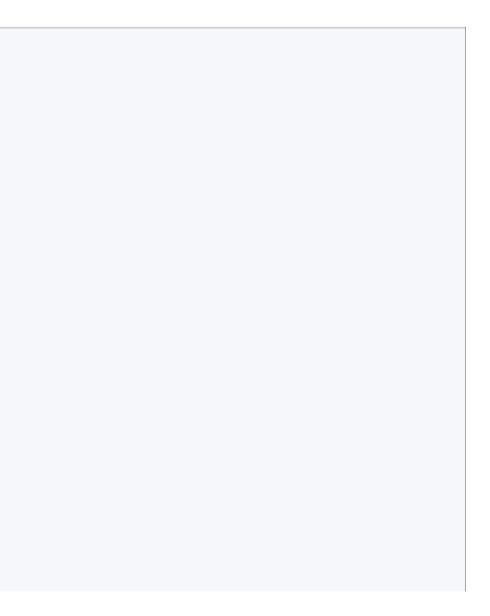


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Dashboard

JOC Cockpit Visualization Features

Dashboard

- The Dashboard offers a comprehensive overview of most relevent information in the form of widgets
- Information in the Dashboard is updated automatically in near real-time
- The Dashboard shows the JobScheduler Master status including cluster information
- The Agent overview shows healthy and unhealthy Agent Clusters
- The Dashboard is a starting point to navigate to objects of interest, e.g. failed orders, suspended orders, late orders etc.

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Agent Cluster Running Ta			v all Agents de	tails	4	PRIMARY jobsche MP:47110 State: RUNNI	:duler-x64-1.11.0_ NG		BACKUP jobschedu MP:48110 State: WAITING_F		
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Orders Overview Pending	Rur	nning	Su	ispended		Set	back	W	aiting for Resource		Blac
58		0		0			0		0		
Daily Plan Overview											
Waiting Orders - 15.4 %						Late Order	rs - 73.1 %				

Scheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT •



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0	Successful	Last 24 hours • Failed O

Daily Plan: Graphical Overview (Gantt Chart)

JOC Cockpit Visualization Features

Graphical Daily Plan

- The Daily Plan graphical overview is represented in a Gantt diagram
- See at a glance what is running, what is queued, what was suspended
- Color coded information for recognition rather than recall

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/examples/20_SchedulingJobChains/01_JobChainDaily																						
/examples/37_JobChainExitCodeHandling/01_JobChainA																						
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/examples/58_MultipleParametersOrders/JobChain100																						
/sos/dailyplan/CreateDailyPlan																						
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/examples/24_HolidayCalendars/03_JobChainUsingHoliday																						
/examples/20_SchedulingJobChains/01_JobChainWeekly																						
/examples/56_NestedJobChains/JobChainA																						

Daily Plan: Calendar View

JOC Cockpit Visualization Features

Graphical Calendar View

- The calendar view allows to check future start dates of job chains
- The daily plan is updated automatically to reflect changes in order start times
- The calendar view allows a preview for the forthcoming days and months

		_	Time: 06	.01.2017 17:52:46 Rema	ining Session Time: 29m	19s Jo
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 04_ExecuteOraclePLSQL 06_JADEFileTransfer 08_FileWatchingRemoteFileProcessing 10_RemoteExecutionUniversalAgent 11_RemoteExecutionSSH 	2	3	4	5	6	
 14_JobChainsEvents 15_Setback 16_SplitAndSync 17_DynamicProcessRouting 	9	10	11	12	13	
 18_ExclusiveLockJobChains 20_SchedulingJobChains 23_SchedulingOrder 24_HolidayCalendars 30_OrderManagement 	16	17	18	19	20	
 > 11_monitoring > 31_TimersJobChainOP5 > 34_ParameterFile > 37_JobChainExitCodeHandling 	23	24	25	26	27	
 47_SyncJobChainExecution 48_JobChainReturnCodeHandling 49_SkipNodes 50_ResourcePoolManagement 51_SendEmails 52_JavaScriptAPI 	30	31	1	2	3	

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7	8	E Add Order Bow Calendar
14	15	
21	22	
28	29	
4	5	

Card View: Quick Overview of Objects

JOC Cockpit Visualization Features

Card View

- The graphical card view shows a comprehensive list of objects and the most frequently used information
- Cards include the most frequently offered operations on objects for a single click
- Additional operations are available from context menues

G / Job Chains	OASHBOARD	DAILY PLAN	JOB CHAINS	ORDERS	E JOBS	RESOURCI	ී ES HISTORY				All Job Chains
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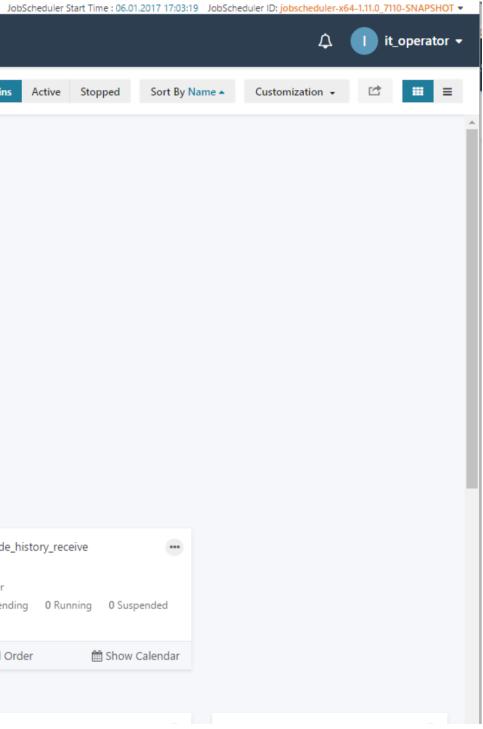


Table View: Job Chains

JOC Cockpit Visualization Features

Table View

- The table view shows a concise list of objects and important information
- The status of each object is visible including job chains, jobs, orders, tasks
- Operations are available by context menues for all visible objects
- The table view can be used for monitoring purposes as the view is updated automatically for tasks started and completed

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🖿 jade			➡ CleanupNotifi	ications	/sos/notif	ication/Clear	nupNotifications	s ac	tive 1	1	-
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			▼ jade_history_r JADE history	receive - Receive	/sos/jade	/jade_history	_receive	ac	tive	1	-
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				6084	122757	ORDER	Reporting	0		06.01.	.2017 17:55
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ice				running		active			
7:55:40	(10sec)								
Since				running		active			
7 17:55:4	19 (1sec)								
				pending		active			
									-

Table View: Job Chain Details

JOC Cockpit Visualization Features

Table View for Details

- The table view shows the detailed list of objects that are available for a single job chain
- This view can be used for monitoring purposes as the view is updated automatically for tasks started and completed

NOBSCHEDULER	() DASHBOARD	Sob Chains		ల	Remaining Session Time: 29m 36s
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G

21	085CHEDUL	ER DASHBOARD	DAILY PLAN	Sob Chains		☐ Jobs		ී HISTORY				°A 🚺	it_operat
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	State								Job Status	Node Status	Next Node	Error Node	
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				versalAgent/02_	TaskB1								
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History

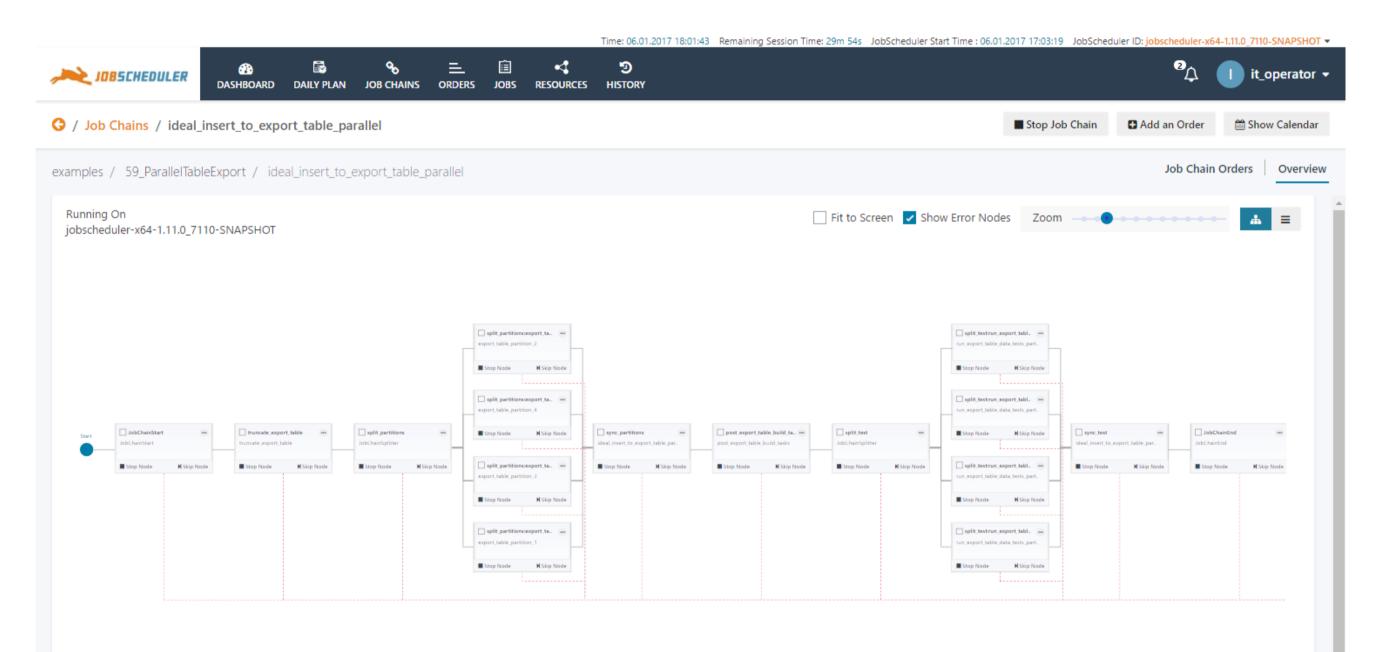
Order ID	Status	Start Time	End Time	Duration	Node
02_daily_morning	incomplete	06.01.2017 17:57:16	-	-	End_Err

Graphical View: Flow Charts

JOC Cockpit Visualization Features

Graphical Flow Chart

- The flow chart view shows a graphical representation of objects in a job chain
- Typical dependency patterns such as split & sync are considered
- The flow chart allows to zoom-in and zoom-out to make details visible
- All applicable operations on objects are available from the flow chart view, e.g. starting orders
- This view can be used for monitoring purposes as the view is updated automatically for tasks started and completed



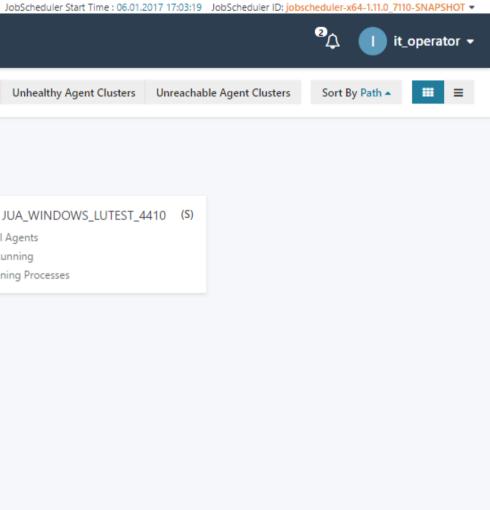
Resources View: Agents, Locks, Schedules

JOC Cockpit Visualization Features

Resources View

- The resources view shows the status and availability of resources that are required to execute jobs
- Resources include Agents that operate on remote hosts, locks that apply mutual exclusion on jobs and schedules that specify common run-times
- The example shows a number of Agent Clusters that are partly available and partly unavailable

		-			~		Time: 06.01.2017 17:58:43 Rema	ining Session Time:	29m 57s
JOBSCHEDULER	CASHBOARD	DAILY PLAN			ii Jobs		D HISTORY		
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Agent Clusters Locks	Process Classes	s Schedul	es						
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 - Manage related Objects
 - Query the Order History
 - Perform Bulk Operations
 - Adding Orders on-the-fly
 - Advanced Filtering and Customizations



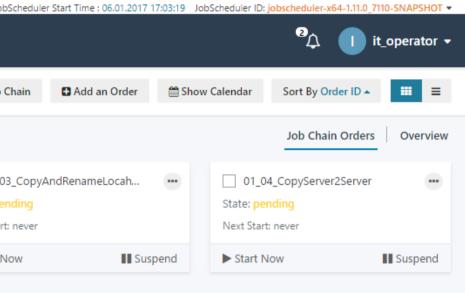
Manage related Objects

JOC Cockpit Interaction Features

Interaction Features

- Users can navigate between related JobScheduler objects
- Example 1: From a job chain the user wants to see a specific order which triggers this job chain
- Example 2: A user sees that a job chain has not run successfully and wants to check out whether the specificic JobScheduler Agent is available for which the job chain is scheduled

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All Orders	5 «	Start Nov	w	 Suspen	ł			
Orders Pending	5							
Orders Running	0							
Orders Suspended	0							
Orders Waiting for Resource	0							
Orders Setback	0							
Orders Blacklist	0							



5

Adding Orders on-the-fly (1/2)

JOC Cockpit Interaction Features

Adding Orders

- This example shows the the graphiacal flow chart view of a job chain
- This view can be used as a starting point to add orders on-the-fly

								Time: 06.01		
🔌 JOBSCHEDU			ily plan	Sob Chains		iii Jobs		ອ HISTORY		
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mples / 18_Exclu	usiveLockJobCha	ains / 01	JobChain	C						
unning On	11.0.7110-SNAD	тона								
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	Chart				deal				TackCl	
Start	✓ Start obChainStart			7 Tas					✓ TaskC2	
Start	✓ Start obChainStart			7 Tas 01_Tas		● 01_E			✓ TaskC2 01_TaskC2	-
		N Skip	•••• • Node	01_Tas				_	01_TaskC2	••• ••• •• Skip Node
	obChainStart	N Skip		01_Tas	skC1		KCLUSIVE_LOCK	_	01_TaskC2	
	obChainStart	N Skip		01_Tas	skC1		KCLUSIVE_LOCK	_	01_TaskC2	
	obChainStart	N Skip		01_Tas	skC1		KCLUSIVE_LOCK	_	01_TaskC2	

Scheduler Start Time : 06.01	.2017 17:03:19 Jo	obScheduler I		it_opera	tor 👻
	Stop Job Cl	hain C	Add an Order	🛗 Show Caler	ndar
			Job Chain	Orders Ove	rview
		Stop Job	Stop Node	Skip Node	Â
End JobChainEnd		Su	ccess		
Stop Node	Node				
		E	rror		

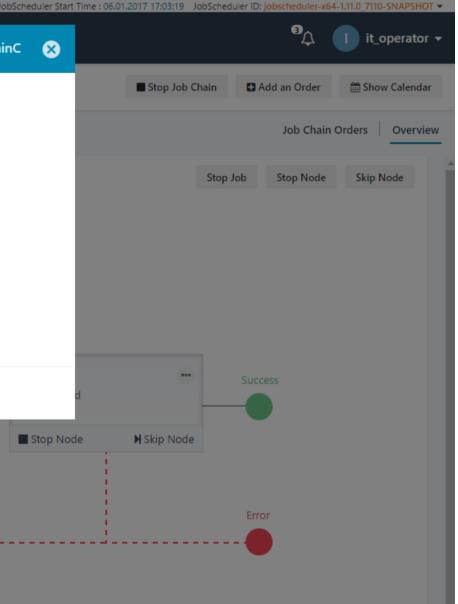
Adding Orders on-the-fly (2/2)

JOC Cockpit Interaction Features

Adding Orders

- When adding an order then a pop-up window applears that allows to enter detailed information
- The order entry window is used by all views that allow to add orders on-the-fly

						Time: 06.01.2017 18:04:03 F	Remaining Session Time: 29	m 42s J
DB5CH	EDULER DASHBOA	RD DAILY PLAN	SOB CHAINS	Add New O	rder to /exam	nples/18_ExclusiveLo	ockJobChains/01_J	obCha
G / Job Chain	s / 01_JobChainC			Order ID		SOSTEST		
examples / 18_	ExclusiveLockJobChair	ns / 01_JobChair	nC	Order Title		THIS IS A TEST		
Running On	64-1.11.0_7110-SNAPSH	от		Start Time		● Now 🔵 Sched	ule for later	
Jobseneduler A				Start step		Choose Starting Sta	ate	•
				End step		Choose End State		•
				Name		Value		
				my_param		value100		×
	-			Add another P	arameter			
Start	JobChainStart		01_Ta		r Cancel			
Ŭ	Stop Node	🗎 Skip Node	Ste	op Node	H Skip Node	Stop Node	Node	
							Þ	



Advanced Filtering and Customizations

JOC Cockpit Interaction Features

Advanced Filtering and Customizations

- This example shows the filtering for the Order History
- Time ranges can be specified as well as JobScheduler objects being selected for granular filtering
- Filters help to create customized work views for individuals or a team

	RD DAILY PLAN J	ି IOB CHAINS	Create Customization				8		4	it_operato
/ History			Customization Name	DailyProcessing			ast 12 hours La	ast 24 hours Last 7	days Customi	zation - E
ler Task			Regex	Regular expressio	n or choose folders from tr	G		Q Search	A	dvanced Search
Order ID	Job Chain			/examples/02_FileV /examples/01_Job0			ne	Duration	End Node	
✓ Reporting	/sos/report	ing/Reporting		/examples/01_50bc				-	facts	
▼ Reporting		ing/Reporting					017 17:46:57	26 sec	success	
Reporting	/sos/report	ing/Reporting	Process executed	now-600, today o	r 08:00am to 08:00pm		017 17:42:04	20 sec	success	
 Reporting 	/sos/report	ing/Reporting	Chatura		Currentia		017 17:39:44	21 sec	success	
 Reporting 	/sos/report	ing/Reporting	Status	Incomplete	Successful		017 17:32:49	15 sec	success	
Reporting	/sos/report	ing/Reporting		✓ Failed			017 17:30:34	17 sec	success	
 Reporting 	/sos/report	ing/Reporting					017 17:28:17	19 sec	success	
 Reporting 	/sos/report	ing/Reporting					017 17:21:08	26 sec	success	
Reporting	/sos/report	ing/Reporting	Save Customization	Cancel			017 17:18:42	25 sec	success	-
Reporting	/sos/report	ing/Reporting					017 17:16:17	25 sec	success	-
• Reporting	/sos/report	ing/Reporting		successful	06.01.2017 17:13:27	7	06.01.2017 17:13:52	25 sec	success	-
Reporting	/sos/report	ing/Reporting		successful	06.01.2017 17:10:59)	06.01.2017 17:11:27	28 sec	success	-
Reporting	/sos/report	ing/Reporting		successful	06.01.2017 17:08:32	2	06.01.2017 17:08:59	27 sec	success	
createDailyPlanOnce	/sos/dailypl	lan/CreateDail	yPlan	successful	06.01.2017 17:06:01		06.01.2017 17:06:17	16 sec	success	
02_daily_morning_parameters	/examples/	01_JobChainSh	nellJobs/01_JobChainA	successful	06.01.2017 17:05:58	3	06.01.2017 17:08:13	2m 15s	Success	
Reporting	/sos/report	ing/Reporting		successful	06.01.2017 17:05:58	3	06.01.2017 17:06:32	34 sec	success	-
Reporting	/sos/report	ing/Reporting		successful	28.12.2016 19:32:31		28.12.2016 19:32:57	26 sec	success	-
Reporting	/sos/report	ing/Reporting		successful	28.12.2016 19:08:11		28.12.2016 19:08:38	27 sec	success	



Software- und Organisations-Service

JOC Cockpit Overview



Questions? Comments? Feedback?

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