

SMArt Sessions 2019

OpCon Features and Enhancements

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OpCon Updates (18.1 & 18.3)

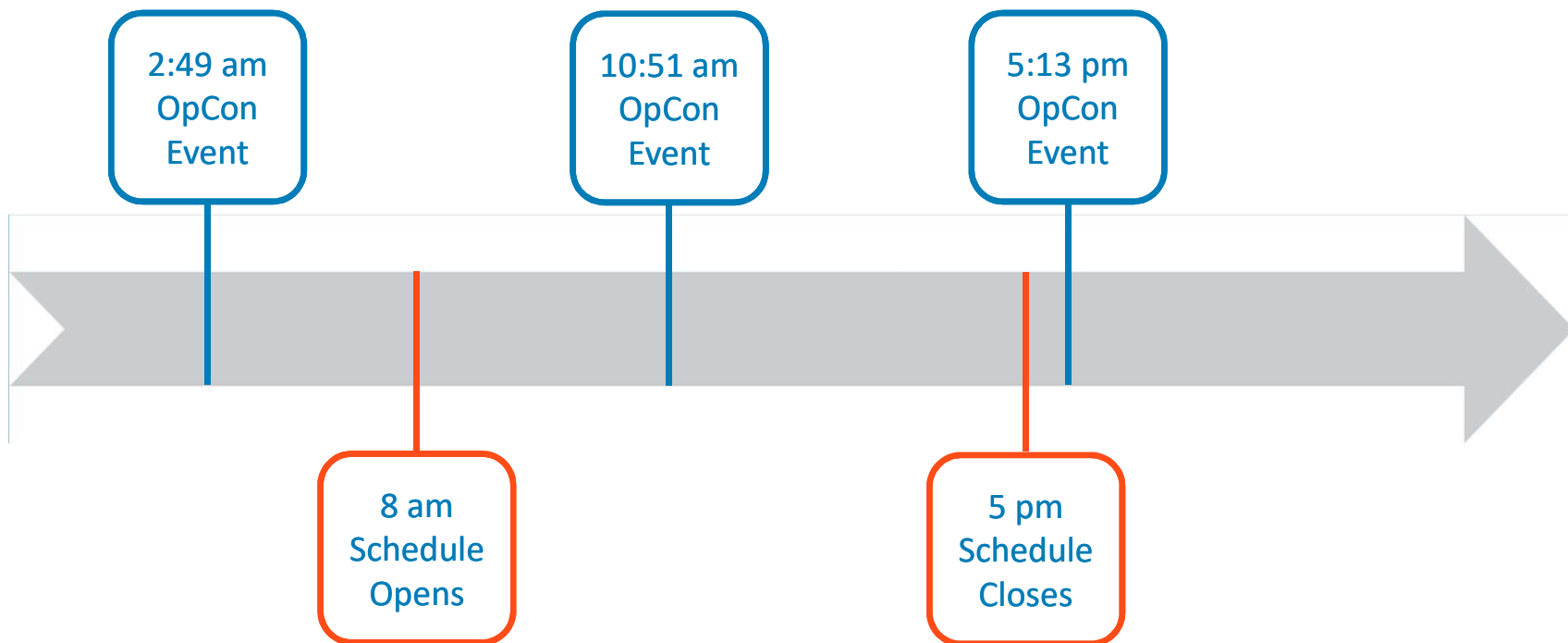
- Core feature updates
- User interface updates
- New modules



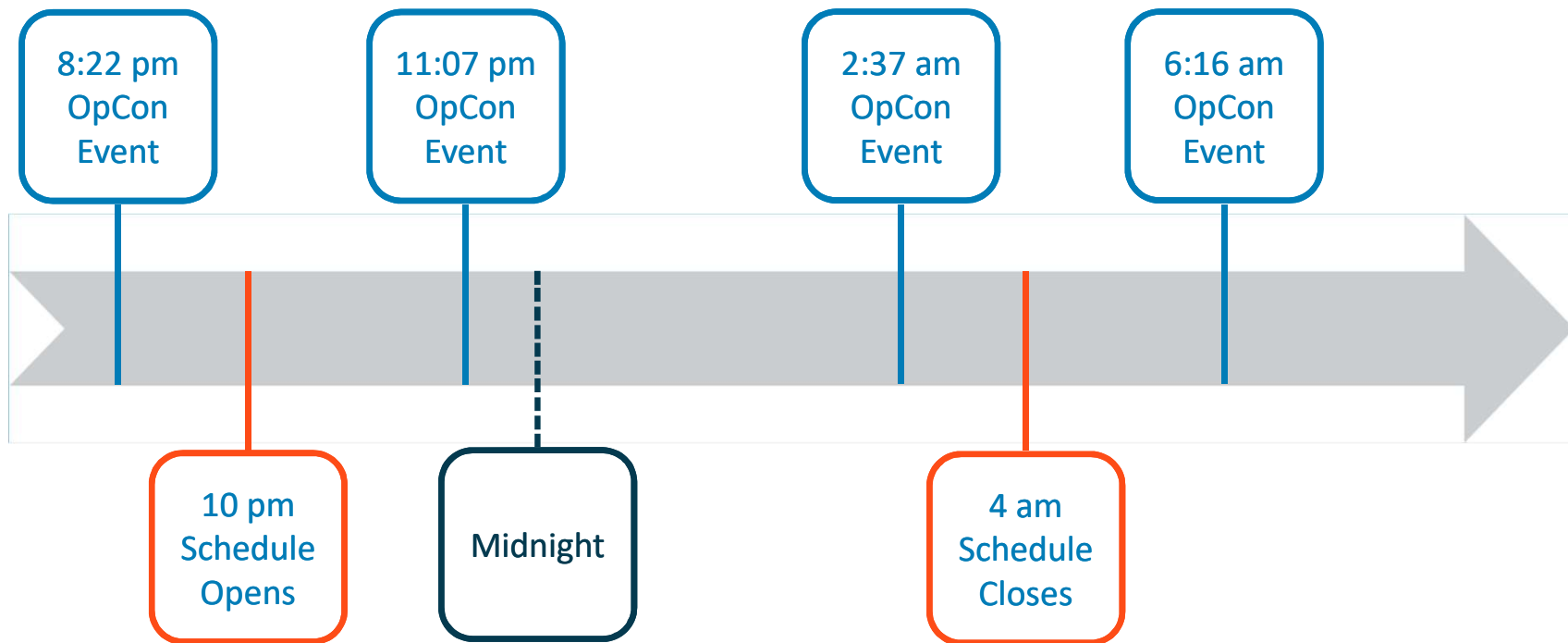
Core features

Updates

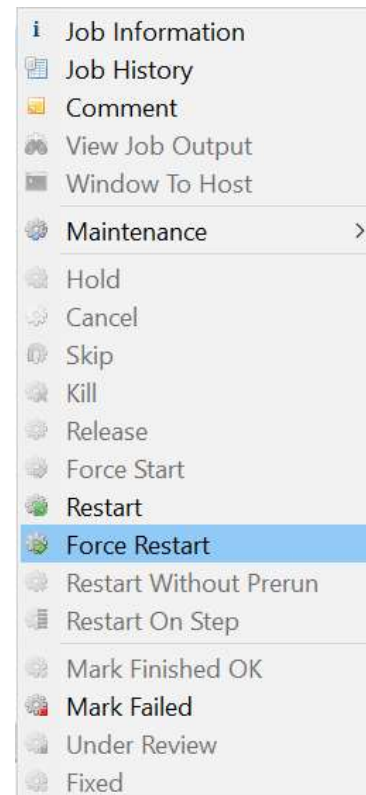
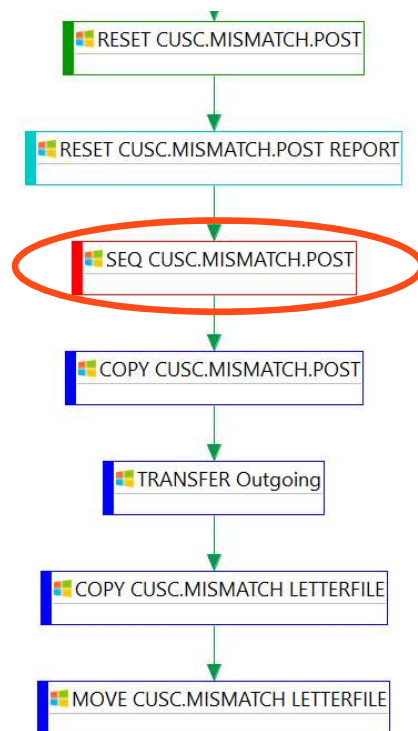
Keyword – EARLIEST NONCOMPLETE



Keyword – EARLIEST NONCOMPLETE



Event Update - \$JOB:RESTART



New Event - \$NOTIFY:COMMAND

Notification Definitions

General | Email | Run Command

Description

☒ Send Email (SMTP)
☐ Send Short Text Message
☐ Send OpCon/xps Events
☐ Send Windows Event Log
☐ Send Network Message
☐ Send SNMP Trap
☐ Send SPO Event Report
☒ Run Command

Escalation Rule
<None>

Notification Triggers

Machines | Schedules | Jobs

type filter text

- ACH
 - Job Finished OK
 - Job Running
 - Job Skipped
- All Jobs
- Critical
- Generic
- Late to Finish
- Late to Start
- OnCall
- test
- test-Notifyid
- Threshold Value

Jobs

By default, ENS will treat all Jobs as : The selection is read-only, please go back at group level to modify it.
☐ Included ☒ Excluded Show : Selected

Type Filter Text

☒ ACH Master
☒ ACH.EDIT

Select All Deselect All Save Cancel

Notification Definitions

General | Email | Run Command

Command "[[SMAOpConPath]]\MSLSAM\Genericp.exe" -t 30

Working Directory "[[SMAOpConPath]]\MSLSAM\"

Batch User Use Service Account

Embedded Scripts Privileges Update

Script Privileges

Select Role

Accounting

Revoked

CSV2Excel
EASE-RSJ
Echo_Command
FICS
FileCheck_GEQ
FileModifier
FileOlderThan
FileSize2Property
Folder_Create
NEXT_BUSINESS_DAY
OpConAPI_PropertyAdd
ParsingTest
Payroll_30_Character_Limit
PipeToCSV
PropertyAdd
SMAFileSizeCheck
SQLQuerySNAME
StringCondense

Granted

Twilio

UNIX Agent - Job Output Parsing

Failure Criteria Job Output Parsing Environment Variables

Search Operation

String to Search

Exit Code

Contains

Unexpected

902

+ Add

Update

Remove

Search Operation	String to Search	Exit Code
Contains	Failed	900
Contains	Error	901
Contains	Unexpected	902

Custom Application Log

Define Environment Variables - UNIX and Windows

Failure Criteria | Job Output Parsing | Environment Variables

Env Variable Name	Env Variable Value
ProgramData	C:\ProgramData

+ Add

Update

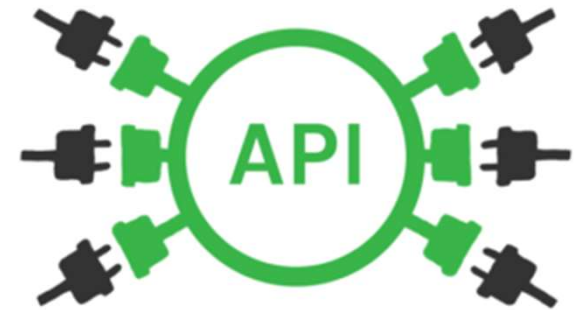
Remove

Env Variable Name	Env Variable Value
CommonProgramFiles	C:\Program Files\Common Files
HOMEDRIVE	C:
ProgramData	C:\ProgramData

< >

OpCon API Updates

- Edit daily jobs for UNIX or Windows jobs
- Fetch historical job output
- OpCon Vision capabilities
- Build schedules
- Manage instance properties
 - (machine, schedule, or job)
- Set encrypted tokens



Microsoft SQL 2017 Supported



Microsoft®
SQL Server®



User Interface

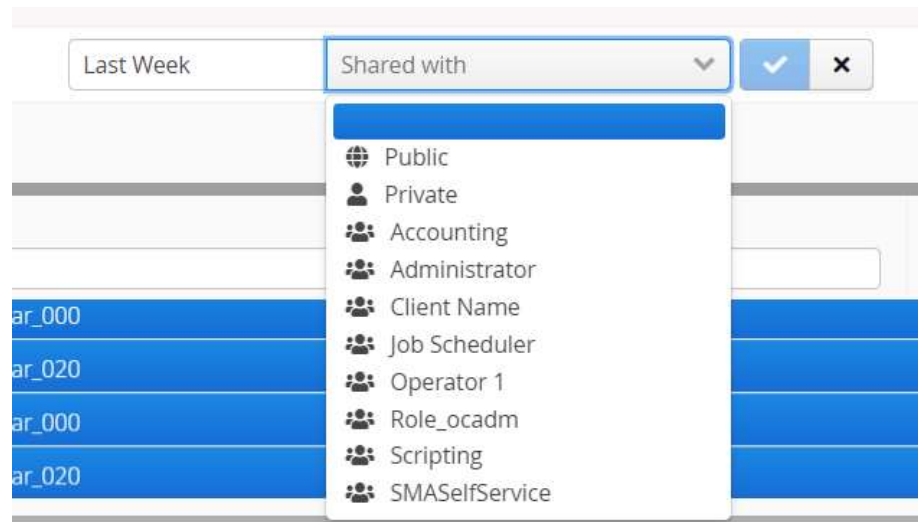
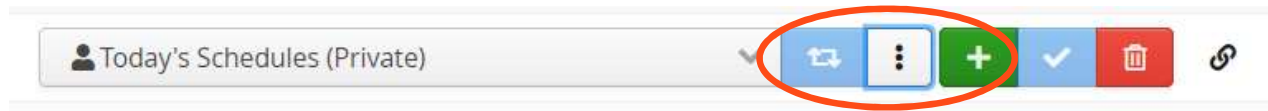
Updates

Operations – Filter Profiles Solution Manager

The screenshot shows the Solution Manager interface with the 'Operations' tab selected. A sidebar on the left contains navigation links: Home, Self Service, Vision, Operations (selected), and a user profile section. The main area is titled 'Processes' and shows a list of schedules for the date 2019/01/09. The 'Today's Schedules (Private)' filter profile is highlighted with a red circle. Below the filter, a table lists the schedules for that date, all of which are 'Finished OK'.

Date	Schedule Path	Name	Start Time	Durat...	End Time	Status
2019/01/09	Expression Dependencies	Combine String	08:32	00:00	08:32	Finished OK
2019/01/09	Expression Dependencies	Expression Dependency SI.Threshold	08:32	00:00	08:32	Finished OK
2019/01/09	Expression Dependencies	Expression Dependency Time	08:32	00:00	08:32	Finished OK
2019/01/09	Expression Dependencies	Property in Property	08:32	00:00	08:32	Finished OK

Solution Manager – Filter Profiles



Solution Manager - Filter Indicators

Processes

← Back Summary Refresh ?

Filter Profile

Date

Schedule Path Status

2019/02/04
2019/02/03
2019/02/01
2019/01/31
2019/01/30
2019/01/29
2019/01/28
2019/01/27
2019/01/26
2019/01/25
2019/01/24

Date	Schedule Path	Name	Status	Start Time	End Time
2019/01/24	SMAUtility	SMA	In Process	08:59	
2019/01/25	SMAUtility		In Process With Error(s)	08:44	
2019/01/26	SMAUtility		In Process With Error(s)	+1d 12:52	
2019/01/28	SMAUtility		In Process With Error(s)	08:46	

Job Status Name

Filters (7)

Date	Schedule Path	Name	Start Time	Durat...	End Time	Status
2019/01/24	SMAUtility	SMA Database Backup	09:00	00:00	09:00	Failed
2019/01/24	SMAUtility	SMA Database Maintenance	08:59	00:01	09:00	Failed
2019/01/24	SMAUtility	SMA Database Transaction Log Backup	+4d 16:03*	00:01*	+4d 16:04*	Wait Job Dependency
2019/01/24	SMAUtility	SMA Job Average	+4d 16:05*	00:01*	+4d 16:06*	Wait Job Dependency
2019/01/25	SMAUtility	SMA Database Backup	08:46	00:00	08:46	Failed
2019/01/25	SMAUtility	SMA Database Maintenance	08:46	00:00	08:46	Failed
2019/01/25	SMAUtility	SMA Database Transaction Log Backup	+3d 16:03*	00:01*	+3d 16:04*	Wait Job Dependency
2019/01/25	SMAUtility	SMA Job Average	+3d 16:05*	00:01*	+3d 16:06*	Wait Job Dependency
2019/01/26	SMAUtility	SMA Database Backup	+1d 12:52	00:00	+1d 12:52	Failed
2019/01/26	SMAUtility	SMA Database Maintenance	+1d 12:52	00:00	+1d 12:52	Failed
2019/01/26	SMAUtility	SMA Database Transaction Log Backup	+2d 16:03*	00:01*	+2d 16:04*	Wait Job Dependency

10 date(s) > 4 schedule(s)

Solution Manager - Colored Status Bar

BEFORE

Processes

Filter Profile

Date

Schedule

Date	Path	Status	Start Time	End Time
2019/01/24	Expression Dependencies	Completed	08:59	08:59
2019/01/25	Expression Dependencies	Completed	08:44	08:44
2019/01/26	Expression Dependencies	Completed	+1d 12:52	+2d 08:46
2019/01/27	Expression Dependencies	Completed	12:52	+1d 08:46
2019/01/29	Expression Dependencies	Wait to Start	00:00*	00:00*

Job

Date	Schedule Path	Name	Start Time	Durat...	End Time	Status
2019/01/24	SMAUtility	Report File Cleanup	08:59	00:00	08:59	Failed
2019/01/24	SMAUtility	Schedule Log Cleanup	08:59	00:00	08:59	Finished OK
2019/01/24	SMAUtility	SMA Database Backup	09:00	00:00	09:00	Failed
2019/01/24	SMAUtility	SMA Database Maintenance	08:59	00:01	09:00	Failed
2019/01/24	SMAUtility	SMA Database Transaction Log Backup	+4d 16:08*	00:01*	+4d 16:09*	Wait Job Dependency
2019/01/24	SMAUtility	SMA Job Average	+4d 16:10*	00:01*	+4d 16:11*	Wait Job Dependency
2019/01/24	SMAUtility	Utility Folder Log Cleanup	08:59	00:00	08:59	Finished OK
2019/01/25	SMAUtility	Audit History Purge	+3d 16:09*	00:01*	+3d 16:10*	Wait Job Dependency

10 date(s) > 4 schedule(s)

AFTER

Processes

Filter Profile

Date

Schedule

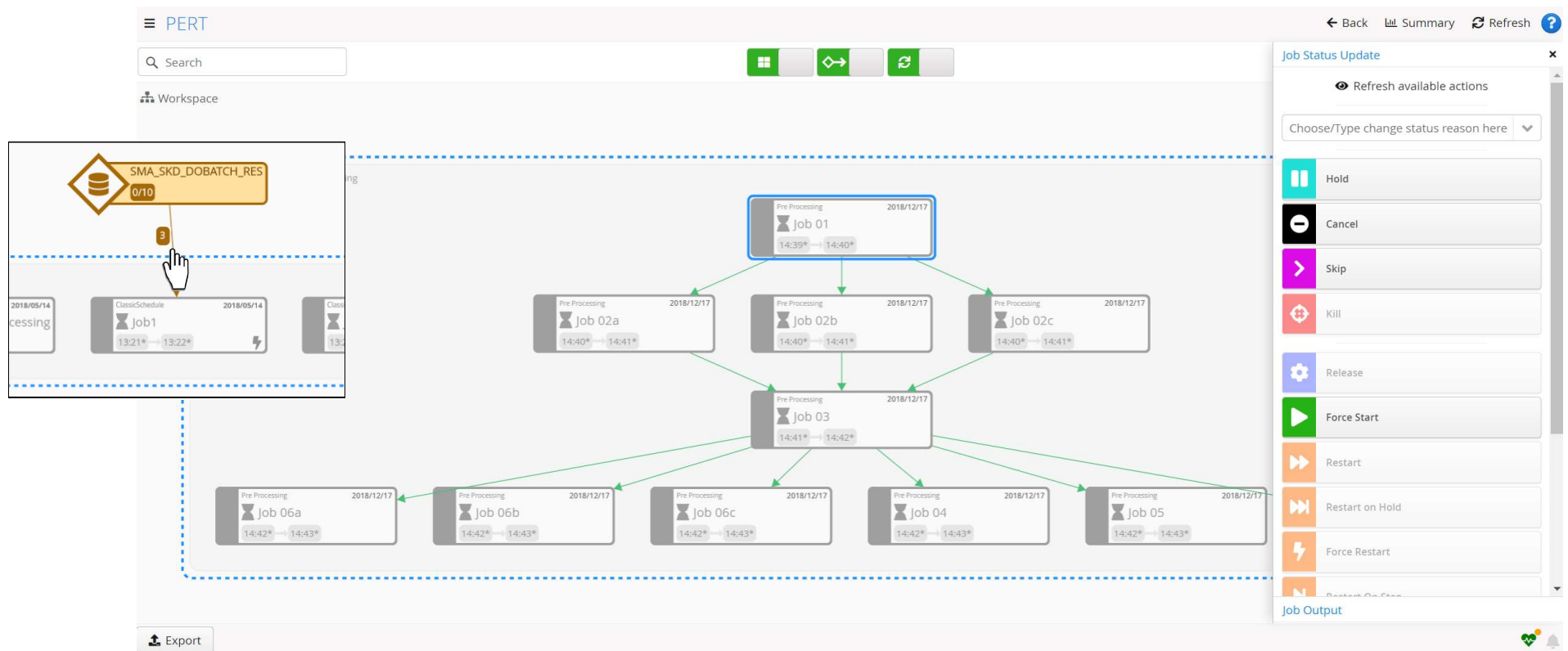
Date	Path	Status	Start Time	End Time
2019/01/24	Expression Dependencies	Completed	08:59	08:59
2019/01/25	Expression Dependencies	Completed	08:44	08:44
2019/01/26	Expression Dependencies	Completed	+1d 12:52	+2d 08:46
2019/01/27	Expression Dependencies	Completed	12:52	+1d 08:46
2019/01/29	Expression Dependencies	Wait to Start	00:00*	00:00*

Job Status

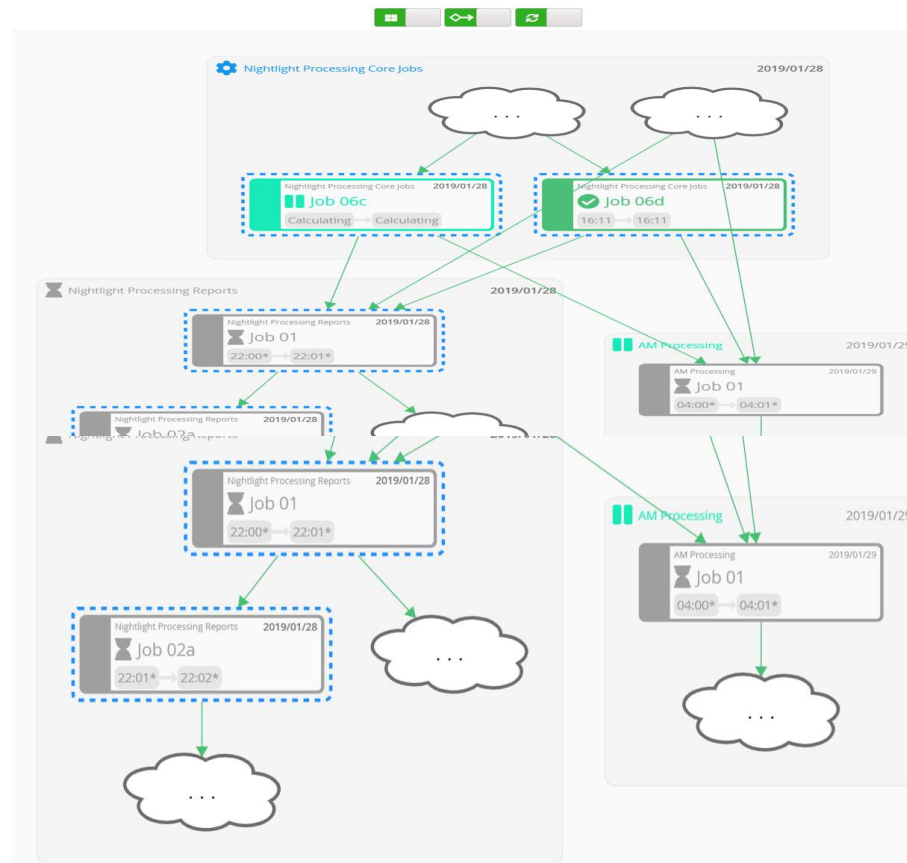
Date	Schedule Path	Name	Start Time	Durat...	End Time	Status
2019/01/24	SMAUtility	Report File Cleanup	08:59	00:00	08:59	Failed
2019/01/24	SMAUtility	SMA Database Backup	09:00	00:00	09:00	Failed
2019/01/24	SMAUtility	SMA Database Maintenance	08:59	00:01	09:00	Failed
2019/01/25	SMAUtility	Report File Cleanup	08:46	00:00	08:46	Failed
2019/01/25	SMAUtility	SMA Database Backup	08:46	00:00	08:46	Failed
2019/01/25	SMAUtility	SMA Database Maintenance	08:46	00:00	08:46	Failed
2019/01/26	SMAUtility	Report File Cleanup	+1d 12:52	00:00	+1d 12:52	Failed
2019/01/26	SMAUtility	SMA Database Backup	+1d 12:52	00:00	+1d 12:52	Failed
2019/01/26	SMAUtility	SMA Database Maintenance	+1d 12:52	00:00	+1d 12:52	Failed
2019/01/28	SMAUtility	Report File Cleanup	08:48	00:00	08:48	Failed
2019/01/28	SMAUtility	SMA Database Backup	08:48	00:00	08:48	Failed

10 date(s) > 4 schedule(s)

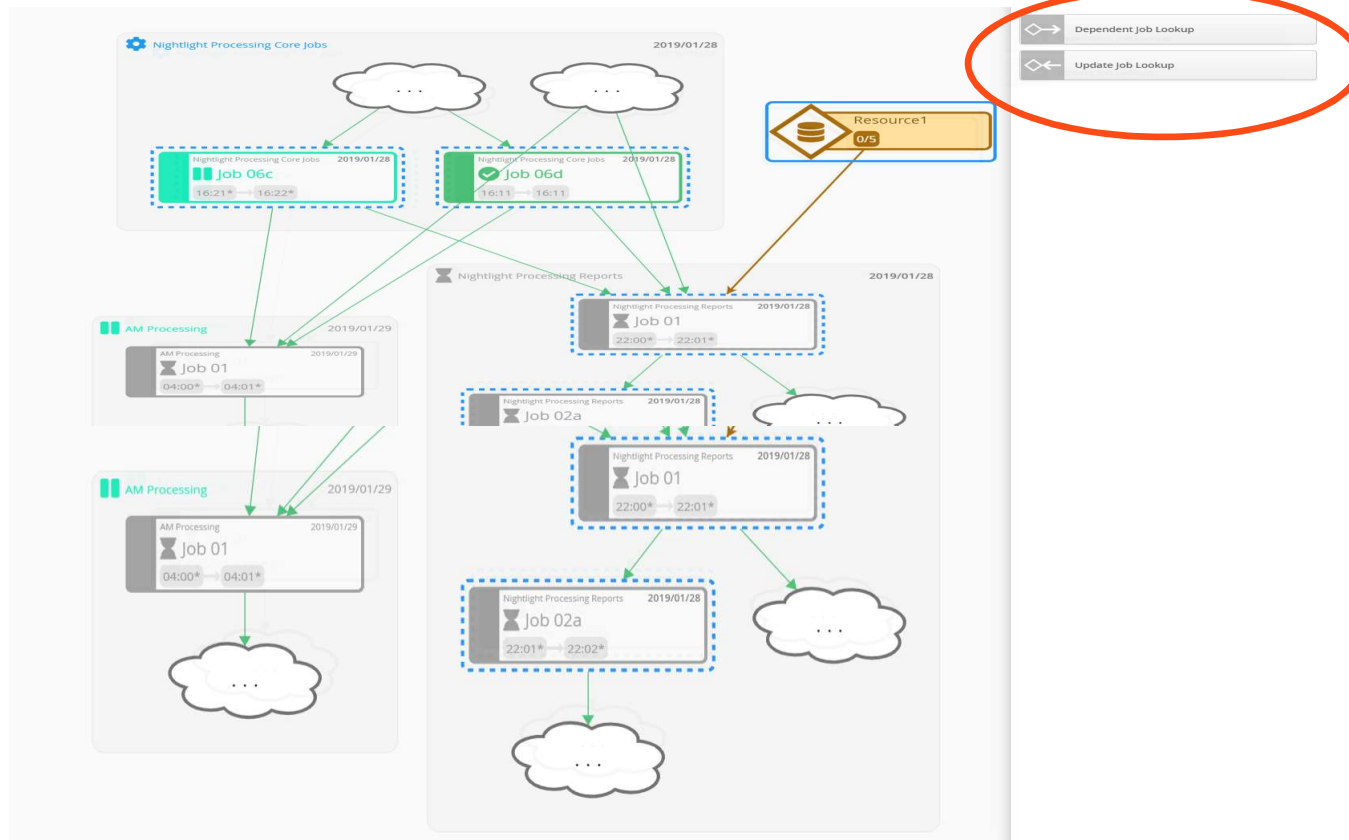
Solution Manager PERT Screen



Solution Manager - Progressive Discovery



Solution Manager - Progressive Discovery



SMA Self Service - Event Scroll Bar

Event Template * \$PROPERTY:ADD,<property name>,<initial value>

✓ OK ✕ C

- \$CALENDAR:ADD,<calendar name>,<dates>
- \$CALENDAR:DEL,<calendar name>,<dates>
- \$CONSOLE:DISPLAY,<message>
- \$JOB:ADD,<schedule date>,<schedule name>,<job name>,<frequency name>,[job instance ...
- \$JOB:ADDHLD,<schedule date>,<schedule name>,<job name>,<frequency name>,[job insta...
- \$JOB:BAD,<schedule date>,<schedule name>,<job name>
- \$JOB:CANCEL,<schedule date>,<schedule name>,<job name>
- \$JOB:DELETE,<schedule date>,<schedule name>,<job name>
- \$JOB:GOOD,<schedule date>,<schedule name>,<job name>
- \$JOB:HOLD,<schedule date>,<schedule name>,<job name>

1-10/56

Event Template * \$PROPERTY:ADD,<property name>,<initial value>

✓ OK ✕ C

- \$JOB:MAXRUNTIME,<schedule date>,<schedule name>,<job name>,<minutes>
- \$JOB:PRIORITY,<schedule date>,<schedule name>,<job name>,<SAM priority>
- \$JOB:RELEASE,<schedule date>,<schedule name>,<job name>
- \$JOB:RESCHEDHLD,<schedule date>,<schedule name>,<job name>,<next start rule>,<mi...
- \$JOB:RESCHEDULE,<schedule date>,<schedule name>,<job name>,<next start rule>,<mi...
- \$JOB:RESTART,<schedule date>,<schedule name>,<job name>
- \$JOB:RESTARTHLD,<schedule date>,<schedule name>,<job name>
- \$JOB:SKIP,<schedule date>,<schedule name>,<job name>
- \$JOB:START,<schedule date>,<schedule name>,<job name>
- \$JOB:TAGADD,<schedule date>,<schedule name>,<job name>,<tags>
- \$JOB:TAGDEL,<schedule date>,<schedule name>,<job name>,<tags>
- \$JOB:USER,<schedule date>,<schedule name>,<job name>,<batch user>
- \$JOBMASTER:BUILDDSTATE,<schedule name>,<job name>,<frequency name>,<build state>
- \$JOBMASTER:TAGADD,<schedule name>,<job name>,<frequency name>,<tags>
- \$JOBMASTER:TAGDEL,<schedule name>,<job name>,<frequency name>,<tags>
- \$MACHINE:STATUS,<machine name>,<status>
- \$NOTIFY:EMAIL,<to>,<cc>,<bcc>,<subject>,<message>,<attachments>,[exclude prefix infor...
- \$NOTIFY:LOG,<severity>,<eventid>,<message>,[event source],[exclude prefix informatio...
- \$NOTIFY:NETSEND,<machine>,<message>,[exclude prefix information from header]
- \$NOTIFY:SNMP,<severity>,<eventid>,<message>,[exclude notification id from header]
- \$NOTIFY:SPOAL,<text>,<severity>,<alarmid>,<alarmqual>,[exclude notification id from h...

Operation Status

UNDER REVIEW

- Indicates that the failed job is being worked on
- Available for Jobs in the following status.
 - Failed
 - Marked failed
 - Initialization error

FIXED

- Used to show when a job was manually fixed
 - Similar status to marked finished OK
 - Separates events from manual review
- Available for jobs in the following status:
 - Failed
 - Marked failed
 - Initialization error
 - Under review

Login Security Messages

Server Options

Server Options

General Logging Time Settings SMTP Server Settings Notification Settings Automatic License Notifications Password Requirements H

Description	Value
Default Browser Language	English
Job Dependency Offset Type	Calendar Days
Alternate Odd and Even Weeks	True
Number of Runs Included in Job Average Calculations	10
SAM Calculates Job Averages	False
Remove Period in Abbreviated Months and Days	False
Allow Wild Cards in Events	True
TLS Certificate Serial Number	
Login Security Message	Only SMA employees are authorized access to this OpCon database. Plea
Incident Management System	
Allow Job Events to Restart Schedules	False
Failed jobs should keep the Schedule "In Process"	False

<

Login Security Message

Only SMA employees are authorized access to this OpCon database. Please log out if you are not an SMA employee.

Confirm

?

Only SMA employees are authorized access to this OpCon database. Please log out if you are not an SMA employee.

Accept Decline

Only SMA employees are authorized access to this OpCon database. Please log out if you are not an SMA employee.

✓ Accept ✗ Decline

Third Party Incident Number

Job Information

"Schedule Log Cleanup" is Finished OK - 0000000000

Schedule Date : Monday 28 January 2019
Parent Schedule Name : SMAUtility
Job Name : Schedule Log Cleanup
Job Status : Finished OK 0000000000
Start Machine : BDEMAREE
Job Type : Windows
Frequency : SMA Sun-Sat 07
Server Start Time : 1/28/19 8:48 AM
Late to Start Time : Undefined
Latest Start Offset : 00:00

Department : SMA Utility Jobs
Scheduled Server Time : 1/28/19 12:00 AM
Server End Time : 1/28/19 8:48 AM
Late to Finish Time : Undefined
Incident Ticket ID :

Priority : 0
Estimated Run Time (min) : 1
Real Elapsed Run Time : 00:00:03
Maximum Run Time (min) : 0

Job Dependencies (0) | Th/Rs Dependencies (0) | Exp Dependencies (0) | Trns Update (0) | Events (0) | Subsequent Jobs (1) | Documentation (1) | Tags (1) | Configuration

Operations Related Information | Manual Status Changes | Job Start and Time Details | Job Recurrence | General Job Details | Job Information | Prerun Information | LSAM Feedback

Description	Value
Step	0 Defined
Available Property	0 Defined
Token Replacement Values	[[SMAOpConPath]] = C:\Program Files\OpConxps\[[SMAOpConOutputPath]] = C:\ProgramData\OpConxps\[[SMAOpConPath]] = C:\Program Files\OpConxps
Agent Start Command	"C:\Program Files\OpConxps\MSLSAM\SMADirectory.exe" -d C:\ProgramData\OpConxps\SAM\Log\SMASchedMan -c 5D -e .log -B
Default Job Messages	0 Defined
Incident Ticket ID	<input type="text"/>
Incident Ticket URL	<input type="text"/>

SAP Updates



SAP Updates – Hana Certified



SAP Updates – Child Jobs

SAP Child Processes

ZEQ_ACCROL_D has 999 child processes

☒ Released ☒ Active ☒ Finished ☒ Failed

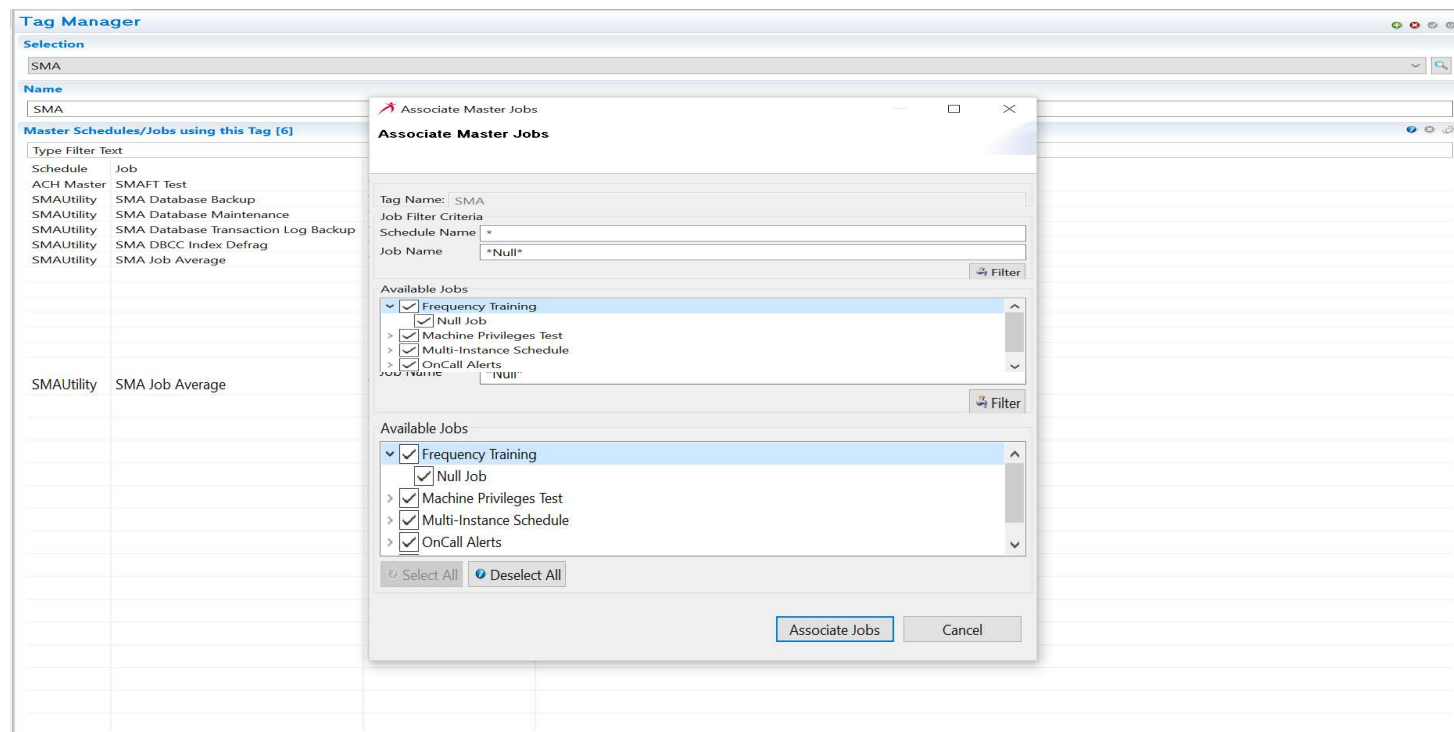
Type Filter Text

Process	Status
> D080E017820120170404094217-4540	Terminated
> D080E017820120170404094232-9523	Terminated
D080E017820120170404094126-4210	Terminated
D080E017820120170404094041-7552	Finished
D080E017820120170404094041-6916	Finished
D080E017820120170404094041-6151	Finished
D080E017820120170404094041-217	Finished
D080E017820120170404094041-8458	Finished
D080E017820120170404094041-6991	Finished
D080E017820120170404094041-4755	Finished
D080E017820120170404094041-6522	Finished
D080E017820120170404094041-2767	Finished
D080E017820120170404094042-5791	Finished
D080E017820120170404094042-6476	Finished
D080E017820120170404094042-4009	Finished
D080E017820120170404094042-2868	Finished
D080E017820120170404094042-6779	Finished
D080E017820120170404094042-1640	Finished
D080E017820120170404094042-3098	Finished
D080E017820120170404094042-6655	Finished
D080E017820120170404094042-1358	Finished
D080E017820120170404094042-2664	Finished
D080E017820120170404094042-5971	Finished
D080E017820120170404094042-7703	Finished

SAP Updates - Administration



Tag Manager Updates






New Modules

OpCon Vision and OpCon Deploy



The background of the slide is a white surface with a large, vibrant orange and red splatter or explosion effect in the center. A white rounded rectangle is superimposed on this splatter.

Yes, that's
possible.