

SMArt Sessions 2019

Rediscovering the Power of OpCon

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Embedded Scripts Operations in Solution Manager Exception Management File Arrival Expressions

Embedded Scripts

1. Centralized repository
2. Stored in database
3. Easy to ID which jobs are using
4. Central hub increases visibility
5. Version control

*Only 1 in 10 indicate
that their script is well
documented, audited
and version controlled*

SMA's State of Automation Survey

Embedded Scripts: Repository

- Create and maintain scripts
- View all versions
- Cross references
- Deploy

The screenshot displays the 'Script Repository' application window. It features a table of scripts and a pop-up window showing the version history for a specific script.

Script Repository

Scripts [9]

Type Filter Text

Script Name	Type	Description
CSV2Excel	PowerShell	
Echo_Command	Command Shell	
FICS	Command Shell	
FileCheck_GEQ	Command Shell	
Folder_Create	Command Shell	
OpConAPI_PropertyAdd	PowerShell	
PipeToCSV	PowerShell	
SQLQuerySNAME	SQL	
StringCondense	Command Shell	

Versions

FileCheck_GEQ

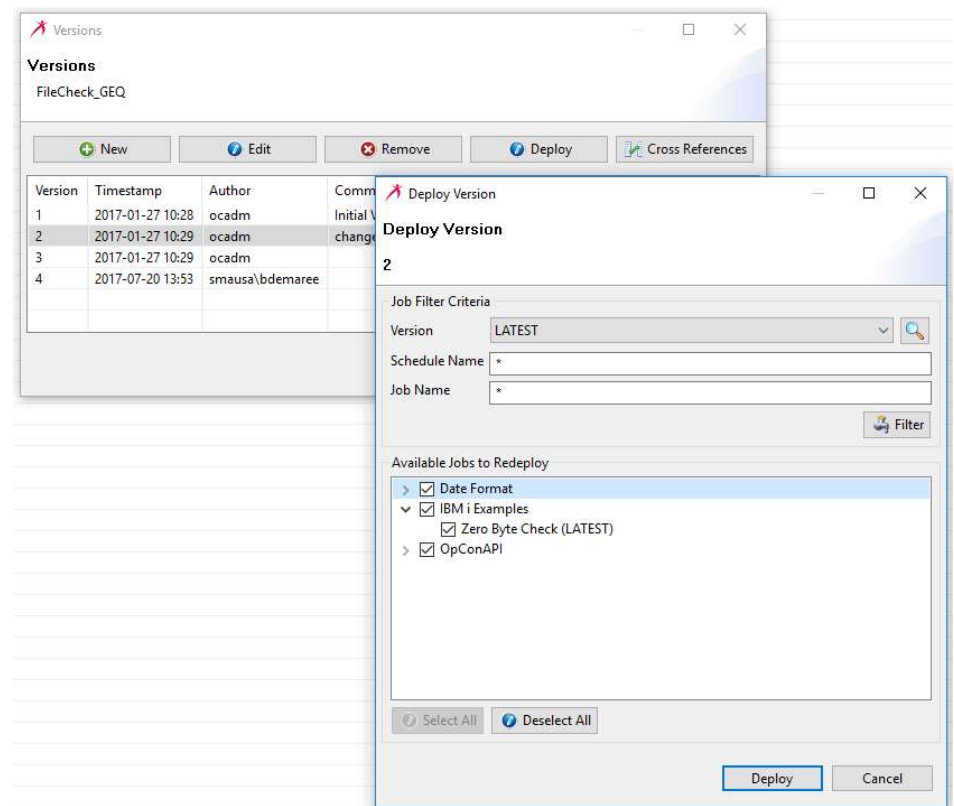
+ New Edit Remove Deploy Cross References

Version	Timestamp	Author	Comment
1	2017-01-27 10:28	ocadm	Initial Version
2	2017-01-27 10:29	ocadm	changed exit code to 200
3	2017-01-27 10:29	ocadm	
4	2017-07-20 13:53	smausa\bdemaree	

Close

Embedded Scripts: Repository Deploy

- Select which versions to utilize
- Select/deselect jobs



Embedded Scripts: OpCon Job

- Job action
- User ID
- Script, type, and version

Windows Definition

Job Action

User Id

Script Script Type Version

Runner Run Command Template

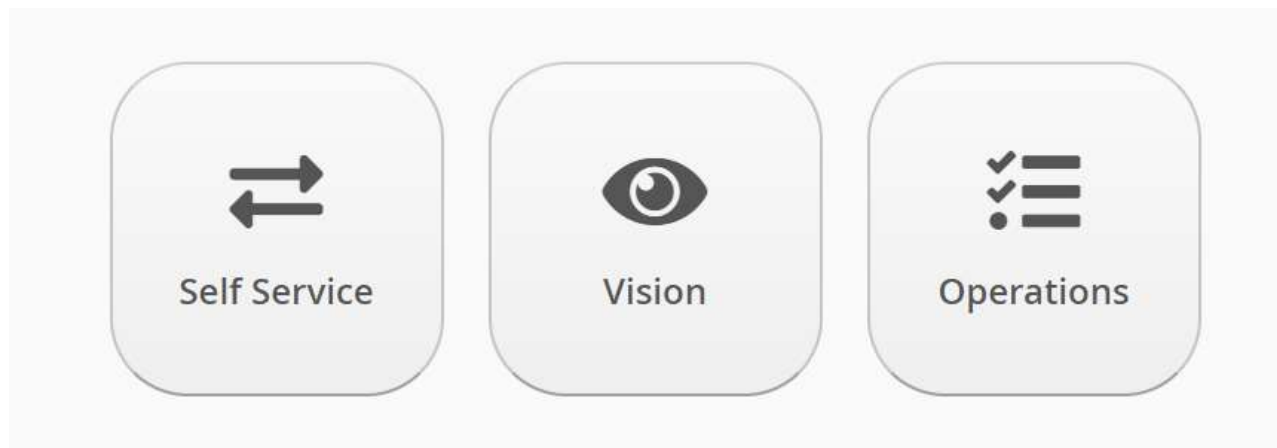
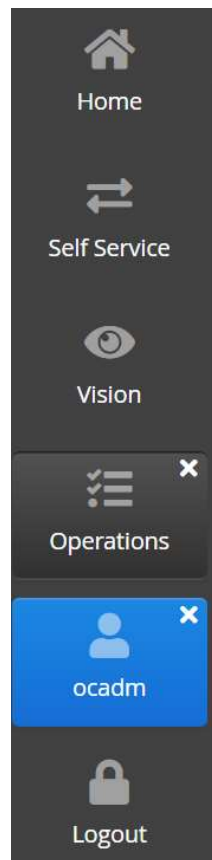
Arguments

Working Dir.



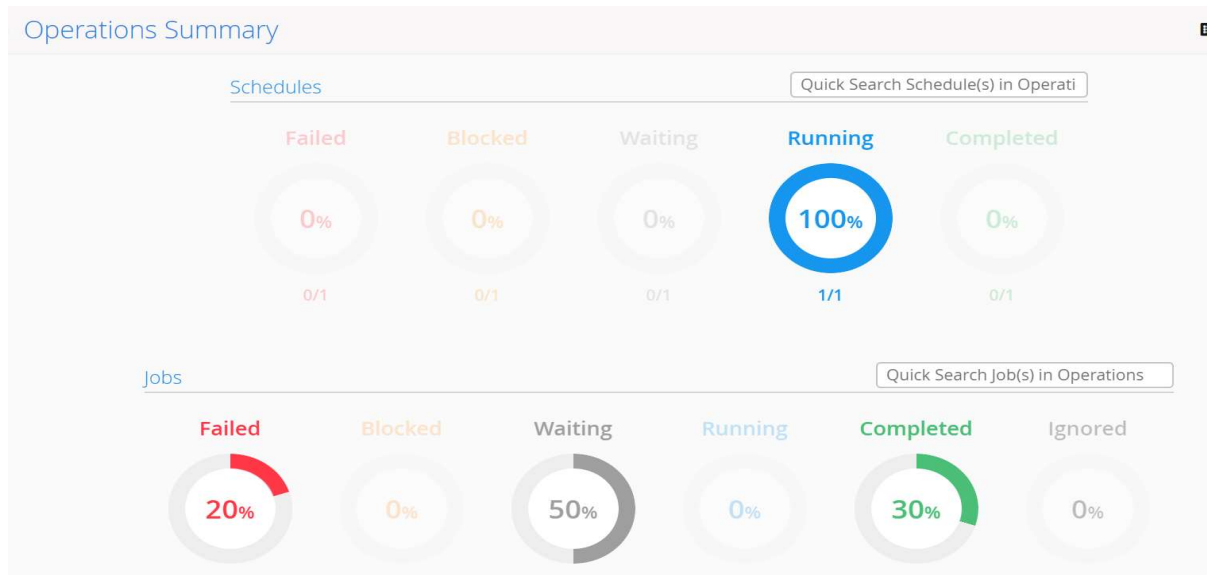
Solution Manager

Solution Manager



Solution Manager: Operations

- Increasing functionality with each release



Solution Manager: Operations

- Filter options
- Multiselect

Job Filters

	Date	Schedule Path	Name	Start Time	Durat...	End Time	Status
<input checked="" type="checkbox"/>	2019/01/27	SMAUtility	Audit History Purge	16:29*	00:00*	16:29*	⌛ Wait Job Dependence...
<input checked="" type="checkbox"/>	2019/01/27	SMAUtility	Job History Archive	16:29*	00:00*	16:29*	⌛ Wait Job Dependence...

Job Status ×

A Search

☐ Cancelled
☐ Failed
☐ Finished Ok
☐ Fixed
☐ Held
☐ Missed Start Time
☐ Running
☐ Skipped
☐ Under Review
☐ Waiting

● ○ 0/10

[Tags](#)

[Departments](#)


[Access Codes](#)

Operations: Machines

- Filter
- Multiselect

	Status	Name	Platform	Lastupdate	Running Jobs
<input type="checkbox"/>	<div>✓ Communicating</div>	<div>BTAYLOR</div>	<div>Windows</div>	<div>2018/09/04 11:...</div>	<div>0 / 50</div>
<input type="checkbox"/>	<div>○ Stopped</div>	<div>UNIX</div>	<div>UNIX</div>		<div>0 / 0</div>

Solution Manager: Profile

 Profile

Login	<input type="text" value="ocadm"/>
Full User Name	<input type="text" value="System Administrator"/>
E-mail	<input type="text"/>
Notes	<input type="text" value="Cannot be changed or removed"/>
Comments	<input type="text" value="Has broad privileges"/>
User Password	<input type="password"/>
Confirm User Password	<input type="password"/>
Event Password	<input type="password"/>
Confirm Event Password	<input type="password"/>



Manage by Exception

Advanced Failure Criteria

Name
Incorrect Property Name

Job Properties

Job Details Instance Definition Frequency Events Threshold/Resource Update Dependencies Documentation Tags Notification Triggers

Job Type: Windows Department: <General> ☐ Disable Build
Job Sub-Type: <None> Access Code: <None> ☐ Allow Multi-Instance

Machine Selection
Primary Machine: OpCon Alternate Machine 1: <None> Machine Group Selection: <None>
Alternate Machine 2: <None> Alternate Machine 3: <None> ☐ Run on Local ☐ Run on External

Windows Definition
Job Action: Run Program
User Id: Use Service Account
Prerun:
Working Directory:
Command Line: timeout /t [[WrongPropertyName]]
Working Directory:

Failure Criteria
Basic | **Advanced**

And/Or	Comparison Operator	Value	End Value	Result
<input checked="" type="checkbox"/>	Not Equal To	0	0	= Fail
<input type="checkbox"/>		0	0	= Fail
<input type="checkbox"/>		0	0	= Fail
<input type="checkbox"/>		0	0	= Fail

Anything Else
Finish OK





Prerun Exit Code: 0

Advanced Failure Criteria

Failure Criteria

Basic Advanced

Exit Codes

And/Or	Comparison Operator	Value	End Value	Result
	Equal To	0	0	= Finish OK
 OR	Equal To	100	0	= Finish OK
		0	0	= Finish OK
		0	0	= Finish OK

Anything Else
Fail

Advanced Failure Criteria – Event Driven

Event Definition Wizard

Event Trigger
Please select what will trigger the event

Send event on:

- ☐ Job Status
- ☐ Job Completion
- ☒ Exit Description
- ☐ Job Completion Complex Expression

< Back **Next >** Finish Cancel

Event Definition Wizard

Trigger Details
Please define the Exit Description evaluation that will trigger the OpCon Event

Comparison Operator: Equal To

Value: 100

End Value:

< Back **Next >** Finish Cancel

Job Output Parsing

Job Master

Selection

Schedule: Training Critical Log

Job: Incorrect Property Name

Name: Incorrect Property Name

Job Properties

Job Details | Instance Definition | Frequency | Events | Threshold/Resource Update | Dependencies | Documentation | Tags | Notification Triggers

Job Type: Windows | Department: <General> | ☐ Disable Build

Job Sub-Type: <None> | Access Code: <None> | ☐ Allow Multi-Instance

Machine Selection

Primary Machine: bdemaree1 | Alternate Machine 1: <None> | Machine Group Selection: <None>

Alternate Machine 2: <None> | Alternate Machine 3: <None>

☒ Run on Least Tasked Machine
☐ Run on Each Machine

Windows Definition

Job Action: Run Program

User Id: Use Service Account | Job Priority: Normal | ☐ Run in Command Shell

Prerun:

Working Directory:

Command Line: timeout /t [[WrongPropertyName]]

Working Directory:

Windows Verification

Job Action: Run Program

User Id: Use Service Account | Job Priority: Normal | ☐ Run in Command Shell

Prerun:

Working Directory:

Command Line: timeout /t [[WrongPropertyName]]

Working Directory:

E.C.O.F:

Failure Criteria | Job Output Parsing

Search Operation: | String to Search: | Exit Code: 0

Search Operation	String to Search	Exit Code

Job Output Parsing

- ❑ Specified error messages
- ❑ Search operator
- ❑ String to search
- ❑ Exit code

Failure Criteria

Job Output Parsing

Search Operation

String to Search

Exit Code

Contains

Error

901

Add

Update

Remove

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


Custom Application Log





File Arrival

File Arrival

Windows Definition




Job Action **File Arrival** 

User Id **SMATRaining\SMAUSER** 

File Name **C:\Demo\test[[[SCHEDULE DATEYYYYMMDD]]]*.txt** 

☐ Sub-directory Search

File Creation Time Stamp Window, Relative to Midnight (in days,hrs,mins or a token)

Start Time	End Time	File Size Stable Duration (in secs)
0  day(s) at 07:30 07:30 AM 7.5 hour(s)	0  day(s) at 17:30 05:30 PM 17.5 hour(s)	5 
<input type="checkbox"/> Token <input type="text"/>	<input type="checkbox"/> Token <input type="text"/>	<input type="checkbox"/> Token <input type="text"/>

File Arrival

- Property options
 - \$ARRIVED FILE NAME
 - \$ARRIVED FILE PATH
 - \$ARRIVED FILE SHORT NAME
 - \$ARRIVED FILE BASE NAME
 - \$ARRIVED FILE EXTENSION



Expressions

Expressions

- Property Expressions




```
[ [=SubStr ([ [FileName] ], 4, 1) ] ]
```

Expressions

- Dependencies

```
(02 < ToInt([[ $TIMEhh ]]) && ToInt([[ $TIMEhh ]]) <10) || (14 <  
ToInt([[ $TIMEhh ]]) && ToInt([[ $TIMEhh ]]) <20)
```



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.