

CA OPS/MVS Event Management and Automation 13.0 New Features

Michael Kiehl
Principal Product Manager

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Agenda

RELEASE OVERVIEW

INTEGRATION WITH OPERATIONAL INTELLIGENCE

MAINFRAME TEAM CENTER

Release Overview

CA OPS/MVS 13.0 Release Overview

- Incremental released on December 13 2016
- Complete GA Release on November 13 2017
 - This marks the end of new feature development

CA OPS/MVS 13.0 Features

- Sample Rexx to Generate Outbound Web Services
 - Member: OPRXREST
 - Framework to generate Web Services calls from OPS/MVS
 - Limitation in TCP interface prevents usage of HTTPS
- TOD Rule Processing
 - Directed to new TOD rule processing subtask
 - Allows other AOF rule types to be processed more quickly
 - Can now enable, disable, and display rules while TOD rules are running
- Support JSON for RESTful Web Services

BCPii Interface Updates

- Requires PTFs to HISRV 7.7 and OPS/MVS 13.0
- OPS/MVS Reason Codes will no longer be translated, instead HISRV Reason Codes will be used
- Documentation Updates
 - New attributes were documented in OPS/MVS doc set
 - Common CA HISRV return and reason code descriptions added
- New BCPii Attributes added

HWI_TIME_OFFSET_DAYS	HWI_TIME_OFFSET_INCREASE	HWI_CROSS_PARTITION_AUTHORITY	HWI_PROFILE_DESCRIPTION	HWI_CLOCK_TYPE
HWI_TIME_OFFSET_MINUTES	HWI_GLOBAL_PERFORMANCE_DATA_CONTROL	HWI_LICCC_VALIDATION_ENABLED	HWI_PROFILE_PARTITION_ID	HWI_LAST_USED_LOADADDR
HWI_TIME_OFFSET_HOURS	HWI_IO_CONFIGURATION_CONTROL	HWI_LOGICAL_PARTITION_ISOLATION	HWI_OPERATING_MODE	HWI_LAST_USED_LOADPARAM

SSM Policy Manager

Custom User Column Support

```
SSM Resource Policy Manager ----- CA11 -- O P S V I E W ----- Subsystem QPSL
Option ==> |

D  Discovery   - Populate SSM policy data
R  Resources   - Define SSM policy by resource
UC  User Columns - Select SSM user columns to include in policy
UI  User Types - Define custom SSM resource types

Press END to return
```

Any non-default columns added to an SSM table will appear on this panel

When Added to Policy these columns can be managed through the SSM Policy Panels

```
User Column Administration CA11 -- O P S V I E W ----- Row 1 to 5 of 5
Command ==> _____ Scroll ==> PAGE
System: *_____

Line Commands:  A Add to policy  D Delete from policy  ? Help

SEL  User Column      Table      In Policy  Message
Filter _____
-    OWNER            JOESTC     Y
-    STARTTIME        JOESTC     N
-    STATUS            JOESTC     Y
-    BADCOL            JOECICS    Y          Table not SSM managed
-    CICSTYPE          JOECICS    Y          Table not SSM managed
***** Bottom of data *****
```

SSM Policy Manager

Custom User Column Support

New Panel added to allow for modification of data in custom user columns

```
SSM User Data ----- CA11 ----- O P S U I E W ----- Row 1 to 2 of 2
Command ==> _____ Step 5 of 6
System: *
Enter PF6 for NextPanel or PF5 for PrevPanel

Resource Name: JOESSM1          Table Name: JOESTC

  User Column      Typ Column Value
  -----
= OWNER           CHR C1CSGRP
= STATUS          CHR PHASE1
***** Bottom of data *****
```

SSM Policy Manager

UNLOAD Command

```
SSM Resource List -- CA11 ----- O P S U I E W ----- Row 1 to 17 of 51
Command ==> _____ Scroll ==> CSR
System: * _____ Step Through: Y (Y/N)

Commands: ADD LOCATE REFRESH SORT COMPARE|IMPORT|LOAD|VERIFY ALL ?
Line      B Browse  C Copy   CP Compare CT Create user type
Commands: D Delete  E Edit   I Import  L Load  U Unload  V Verify

Filter  Resource Name      Type           Table Name      Status
-----|-----|-----|-----|-----
  AD14MUF      DATACOM-AD      STCTBL
  AD14SRVR     DATACOM-SR      STCTBL
  ALLOCATE     ALLOCATE        STCTBL
  AL2QSRVR     CA7SRVR         STCTBL
```

Unload commands gives the ability to remove resource from the **ACTIVE** STC Table while remaining in Policy Table

AOF Multi-system Rules Management

- Control rule enablement/disablement across multiple MSF connected systems to keep automation rules in sync after updates.
- OPSplex Routing Scope:
 - Single system
 - Non-sysplexed systems
 - Systems belonging to single sysplex
 - Systems belonging to multiple sysplexes

AOF Multi-system Rules Management

```
AOF CTRL - Rule List ----- CA11 --- LEWJ007.OPS121.BASE.RUL Row 1 to 20 of 25
Command ==> _____ Scroll ==> PAGE
Line Commands: R EasyRule S ISPF Edit C Compile X Delete Compile
                U View F Enable D Disable A Set Auto-Enable Z Reset Auto-Enable
                NE Multi System Enable MD Multi System Disable
                System: *LOCAL*
RuleName Status AE TYP UU MM Created Changed Size MOD ID
- ARCHFAIL DISABLED N *** 01.00 13/08/22 13/08/22 13:05 28 0 OPS121
- ARCHMSG DISABLED N *** 01.00 13/08/22 13/08/22 13:05 63 0 OPS121
- ARCHMCS2 DISABLED N *** 01.00 13/08/22 13/08/22 13:05 63 0 OPS121
```

```
CA11 ----- System Selection List ----- Row 1 to 3 of 3
Command ==> _____ Scroll ==> PAGE

Use S in the SEL column to select system(s)
or select current sysplex or All systems
to perform: ENABLE BASE.ARCHFAIL

- Local Sysplex PLEXC1 OR - All systems

Sel Ident Name Status Plexname Result
- Local OPS11L ACTIVE PLEXC1
- Remote OPS31L FAILED PLEXC1
- Remote OPS61L FAILED N/A
```

Multi-system Global Variable Management

- Copy, Remove, Drop, and Delete Global Variables from a single location across MSF connected systems
- OPSplex Routing Scope:
 - Single system
 - Non-sysplexed systems
 - Systems belonging to single sysplex
 - Systems belonging to multiple sysplexes

Multi-system Global Variable Management

```

AOF CTRL - Display Global Variables ----- CA11 -----
Command ==> █
Line Commands: S Show Subnodes  M Modify      X Hex Browse  B Browse
                D Remove Node    P Drop Node  O Delete one  Z Hex Edit
                MC Multi system Copy one    MM Multi system Copy Node
                MD Multi system Remove Node  MP Multi System Drop Node
                MO Multi system Delete one

System ==> *LOCAL*  Wait ==> _____  Access Date < _____
Global Prefix: GLOBAL1
Subnode Name  Nodes Subnode Value
    
```

```

CA11 ----- System Selection List ----- Row 1 to 5 of 5
Command ==> █ Scroll ==> PAGE

Use S in the SEL column to select system(s)
or select current sysplex or All systems
to perform: COPY GLOBAL1.temp

_ Local Sysplex PLEXC1  OR  _ All systems

Sel Ident  Name  Status  Plexname Result
_ Local    OPS11L  ACTIVE  PLEXC1
_ Remote   OPS11U  FAILED  N/A
_ Remote   OPS31K  ACTIVE  PLEXC1
_ Remote   OPS31L  ACTIVE  PLEXC1
_ Remote   OPS61L  ACTIVE  PLEXC1
    
```

Multi-system RDF Table Management

- Copy, Transfer, and Delete Tables from a single location across MSF connected systems
- OPSplex Routing Scope:
 - Single system
 - Non-sysplexed systems
 - Systems belonging to single sysplex
 - Systems belonging to multiple sysplexes

Multi-system Table Management

```

RDF Table Editor ----- Primary Panel -----
Option ==> |

B - Browse table           C - Copy table
E - Edit table             R - Rename table
I - Insert new table       F - Free table enq
D - Delete table           T - Transfer table contents
MD - Multi system table delete  MC - Multi system table copy
MT - Multi system table transfer

blank - Display table list

Specify Relational Table (see note below):
Name ==> _____ (Required for B,C,D,E,F,R,T)
New Name ==> _____ (Required for C,I,R,T)
    
```

```

RDF Table Editor ----- RDF Table List for System OPS11K -----
Command ==> |
OPTIONS: Browse Copy Delete Edit Free Insert Rename S(edit) Transfer
MULTI SYS: MCopy MDelete MTransfer
Sel Table _____ New Table
    
```

```

CA11 ----- System Selection List -----
Command ==> |

Use S in the SEL column to select system(s)
or select current sysplex or All systems
to perform: COPY CA11TBGAU2 TO TEMP SSMparm(N)

_ Local Sysplex PLEXC1 OR _ All systems

Sel Ident Name Status Plexname Result
_ Local OPS11K ACTIVE PLEXC1
_ Remote MUS11C INACTIVE N/A
_ Remote MUS11E FAILED N/A
_ Remote MUS11L FAILED N/A
    
```

- Options available from both the Table Editor main panel (2.6) and the RDF Table List
- Working to expand capability to table columns

Misc. Updates

- Support for 8 Character UserIds
- Compatibility
 - z/OS 2.3
 - IMS 15.1
 - Tomcat 8.0.39
- Critical Path Monitoring
 - Updated to use CPM1602I and CPM1603I messages
- SSM Policy Manager support for NULL Start and Stop Commands
- Best Practice Video Series
- New Best Practice and Tuning Guide

Integration with Operational Intelligence

Work in Progress

Automated Remediation– Problem Avoidance/Prediction

Use Case & Solution Concept

PERSONA:



- Operations,
- Systems Programmer,
- Network Engineer,
- Automation Administrator

USE CASE:

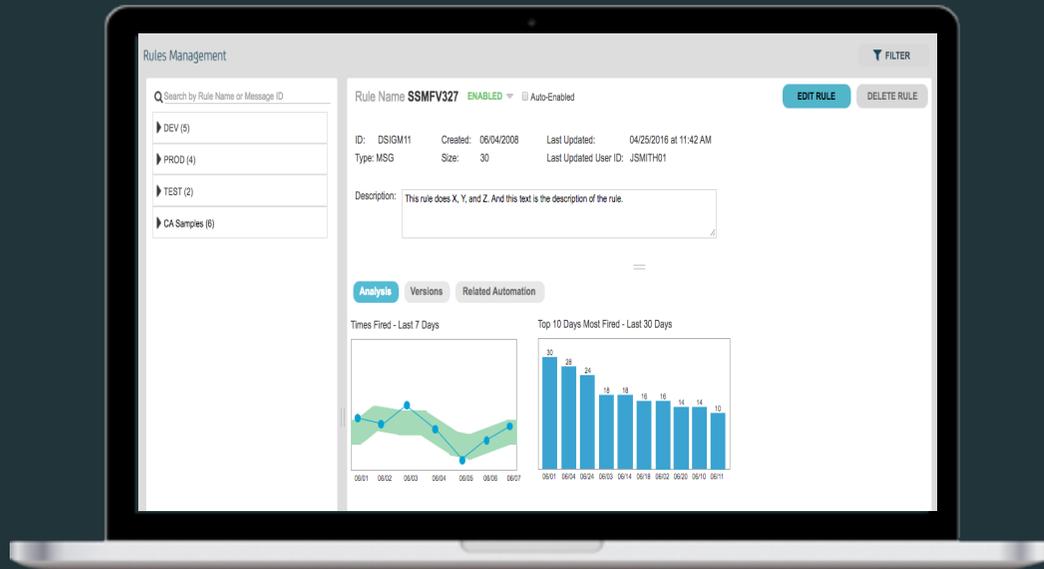
Sherman, Debbie, Fred, and Anders have deep experience and skills in their respective areas. They want to reduce the number of system problems that requires them to be directly involved in the remediation. They would like the system to automatically correct problems with known root causes and work arounds. Thus reducing customer facing outages and allowing them to work on projects to achieve business objectives.

PROBLEM

- *“Detect and remediate issues before becoming customer problems”*
- *“Increasing MTTR do to time spent on repeat issues”*
- *“Support and Engineering stretched beyond limits”*

Automated Remediation – Problem Avoidance/Prediction

Use Case & Solution Concept

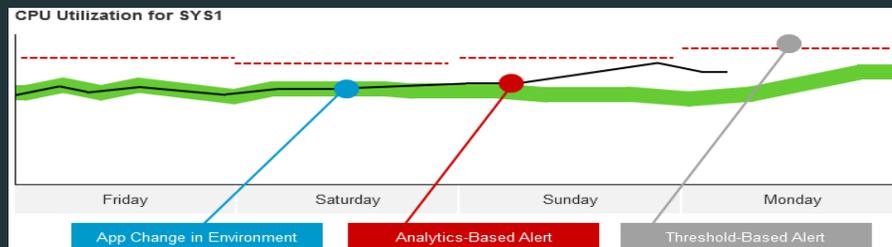


SOLUTION

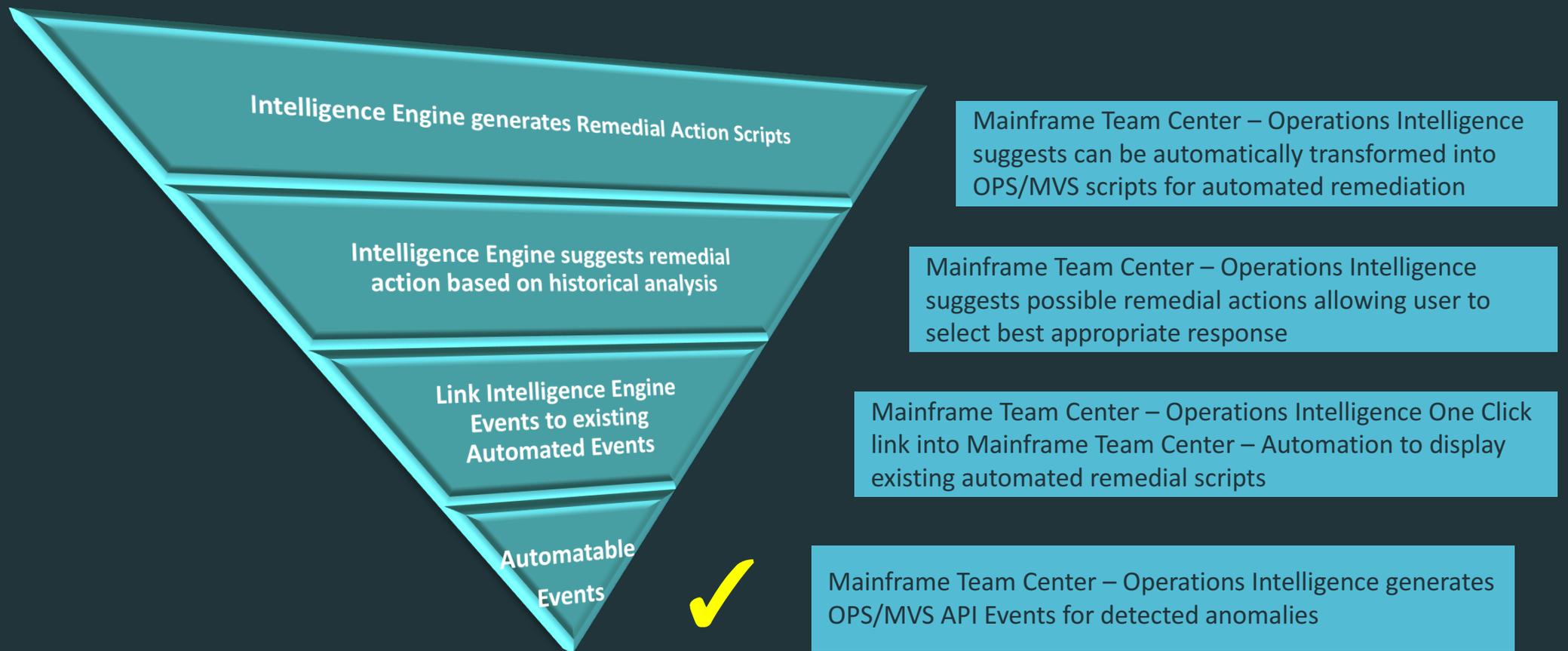
- Detect anomalies & trigger automated corrective scripts
- Leverage historical data to analyze automation patterns to further increase efficiency
- Simplified U/X – browser access & designed for collaboration

BOTTOM LINE

- High Availability
- Problem avoidance
- Reduced MTTR
- Reduce SME dependence for problem remediation



Automated Events Timeline



OPS/MVS API Event Definition

- 3 Unique Event Id's
 - OIEVNT001 – Alarm Started
 - OIEVNT002 – Alarm Severity Changed
 - OIEVNT003 – Alarm Cleared
- API.TEXT
 - Contain base alarm information
- API.EXTRA
 - Up to 30k of additional information about the alarm
 - Information varies based on alarm

OPS/MVS API Examples

Remaining Text will be variable based on the Alarm Triggered

- 0000001482349798000Y0000000032 DYNAMIC THRESHOLD EVENT FOR WLMPI ON CA31 ALARM CLEARED – TYPE = UNDER, LAST SEV = LOW | METRIC_TYPE=RAW | METRIC_CATEGORY=z/OS System | METRIC_PATH=z/OS System:CA31>z/OS Workload
Manager:RPTCLASS.ONLTEST.1.3>WLMPI | ALARM_STARTED=1482348898000 | EVENT_CODE=0 | METRIC_VALUE=11.3
- 0000001482349798000N00000000999 STATIC THRESHOLD EVENT FOR MSU4HAVG ON ***** ALARM NEW SEV – TYPE = OVER, CURR SEV = HIGH | METRIC_TYPE=DERIVED | DERIVED_TYPE=LPAR_GROUP_METRIC | LPAR_GROUP=TSO1,TSO2,CA01 | AGGREGATION_TYPE=SUM | METRIC_CATEGORY=z/OS System | METRIC_PATH=z/OS System:*****>MSU4HAVG | ALARM_STARTED=1482348898000 | EVENT_CODE=1 | METRIC_VALUE=184.34

How will Operational Intelligence know Remedial Actions?

Future

- Data Mining from:
 - OPSLOG
 - SMF Data
 - Product Metrics
 - Correlation between Event Begin/End and System Actions
- Will require multiple iterations through the same event to develop the pattern
- Multiple suggested actions could be presented each with a confidence score.

Suggested Resolution Prototype

Future

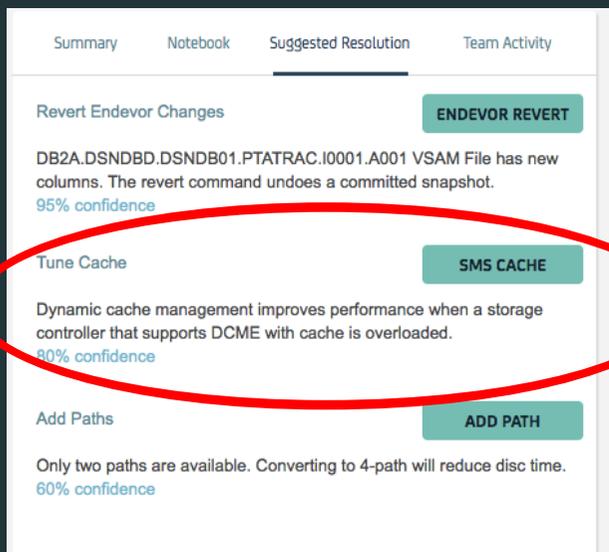
The screenshot shows a web interface with four tabs: 'Summary', 'Notebook', 'Suggested Resolution', and 'Team Activity'. The 'Suggested Resolution' tab is active. It displays three suggested resolutions, each with a title, a description, a confidence percentage, and an action button.

Title	Description	Confidence	Action
Revert Endeavor Changes	DB2A.DSNDBD.DSNDB01.PTATRAC.I0001.A001 VSAM File has new columns. The revert command undoes a committed snapshot.	95% confidence	ENDEAVOR REVERT
Tune Cache	Dynamic cache management improves performance when a storage controller that supports DCME with cache is overloaded.	80% confidence	SMS CACHE
Add Paths	Only two paths are available. Converting to 4-path will reduce disc time.	60% confidence	ADD PATH

- Develop Suggested Resolutions based upon analysis of OPS/MVS OPSLOG and relevant data feeds
- Based upon frequency and correlation to metric resolution a confidence percentage is assigned
- Manually execute

Turn into Automated Scripts

Future



Summary Notebook Suggested Resolution Team Activity

Revert Endeavor Changes **ENDEAVOR REVERT**

DB2A.DSNDBD.DSNDB01.PTATRAC.I0001.A001 VSAM File has new columns. The revert command undoes a committed snapshot.
95% confidence

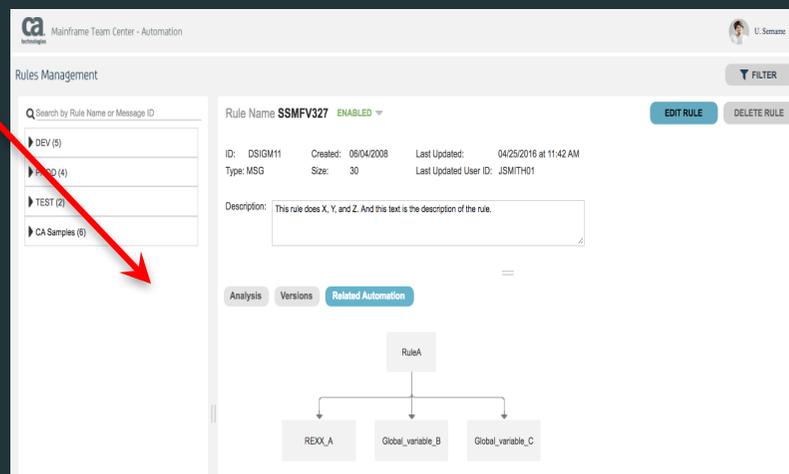
Tune Cache **SMS CACHE**

Dynamic cache management improves performance when a storage controller that supports DCME with cache is overloaded.
80% confidence

Add Paths **ADD PATH**

Only two paths are available. Converting to 4-path will reduce disc time.
60% confidence

Once comfortable with Resolution, automatically generate the OPS/MVS Script that will take this action whenever the metric trends abnormal



ca Mainframe Team Center - Automation U. Semanc

Rules Management FILTER

Search by Rule Name or Message ID

- DEV (5)
- PROD (4)
- TEST (2)
- CA Samples (8)

Rule Name **SSMFV327** ENABLED

ID: DSI6M11 Created: 06/04/2008 Last Updated: 04/25/2016 at 11:42 AM
Type: MSG Size: 30 Last Updated User ID: JSMT101

Description: This rule does X, Y, and Z. And this text is the description of the rule.

Analysis Versions Related Automation

```
graph TD
    RuleA[RuleA] --> REXX_A[REXX_A]
    RuleA --> Global_variable_B[Global_variable_B]
    RuleA --> Global_variable_C[Global_variable_C]
```

Expected Life Cycle for Automated Remediation

Future

- MOI learns how a metric is returned to normal within your environment
- Suggested Remediation's are presented with various confidence levels
- Sheila will manually execute Suggested Remediation over multiple incidents to gain confidence
- Generate Automated Remediation script
 - MOI will indicate metric has Automated Remediation
- Future incidents are automatically corrected

Mainframe Team Center

Modern tools & views – Management / Insight

Use Case & Solution Concept

- PERSONA:**  • Automation Administrator,
• Operations

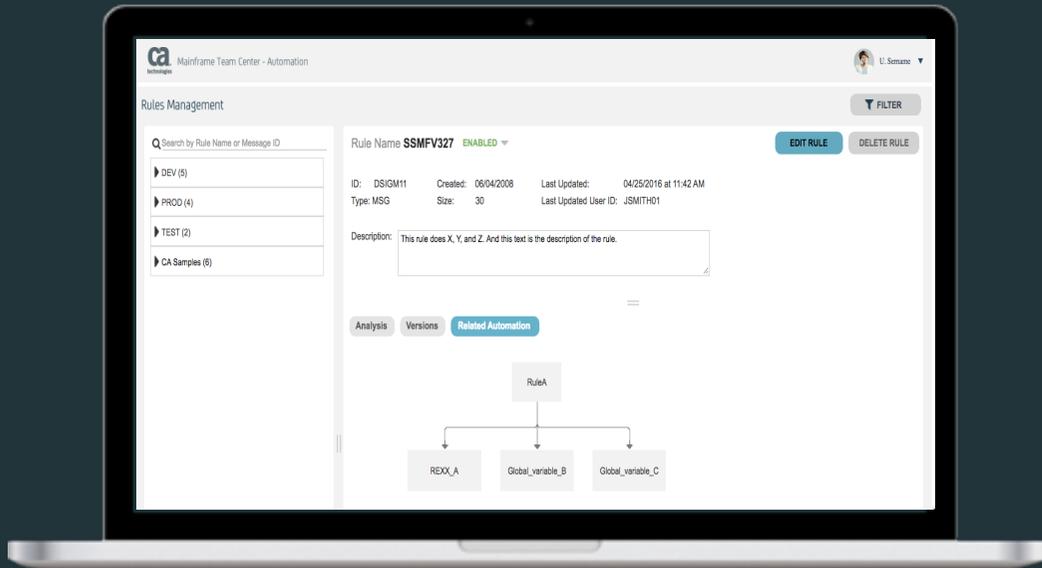
USE CASE:

Anders and Debbie have a need to understand what automation is currently in place and where it has been deployed. Additionally Anders needs any easy way to manage and deploy automation routines. They would like these processes to be contained within a single tool spanning the entire mainframe environment instead of being single system or sysplex centric.

PROBLEM

- *“Understanding our automation footprint is a manually intensive exercise. An automation product should be able to automate this process.”*
- *“Managing automation at an individual system level is too time consuming. We need to develop once and deploy everywhere applicable.”*

Modern tools & views – Management / Insight Use Case & Solution Concept



SOLUTION

- All Automation scripts in a single location
- Detailed Analytics around code management and relationships
- Integrated search and filter for quick access to automation scripts
- Simplified U/X – browser access & designed for collaboration

BOTTOM LINE

- Problem avoidance
- Reduced research and deployment time
- In context Integration within Mainframe Operations Intelligence

RULES MANAGEMENT

- View rules from all your LPARs in a single location
- Quick Search Capabilities
- Installed in USS
- Uses CA Common Services communication to expand beyond SYSPLEX

The screenshot displays the 'Mainframe Team Center Automation' interface. The left sidebar shows a 'Rules Management' section with a search bar and a list of rules. The main area shows the details for the rule 'CA11:OPSE / AP / APREXX', which is 'ENABLED'. The rule source is displayed in a code editor.

Search Rule

- CA11.OPSE (3)
- AP (12)
- APIRULE
- APREXX
- APTEST
- NMFTST1
- NMFTST2
- OPFNDSYS
- PPQTST1
- PPQTST2
- QAACTMSG
- QANMLMSG
- REXTST1
- WTOTST1
- LUTDA010 (157)
- OPS01234 (2)

CA11:OPSE / AP / APREXX **ENABLED**

Event ID: MEAPTEST

Type: MSG Last Updated: 2017/02/07 16:02 Size/Lines: 16
Created: 2002/10/29 Last Updated User ID: EDDMA01

Rule Source

```
)MSG MEAPTEST
)PROC
/*BEGIN DESCRIPTION*
AP.APREXX rule: calls a REXX program on external AP system EDDMA01
*END DESCRIPTION*/
String = COPIES('1234567890abcdefGHIJKLMNOPQRSTUVWXYZ',5)
address AP
"REXX Program(OPSRXTST) ARG("String") System(EDDMA01)"
if RC <> 0 then
do
say "Return code from address AP: " RC
do while queued() <> 0
pull data
say data
end
end
```

Rules Filtering

Filter Options

Rule Type:	Rule State:	Systems:
<input type="checkbox"/> API — Application Program Interface	----	<input type="checkbox"/> CA11
<input type="checkbox"/> ARM — Automatic Restart Management	▼	<input type="checkbox"/> CA31
<input type="checkbox"/> CMD — Command	Auto-Enabled:	
<input type="checkbox"/> DOM — Delete Operator Message	----	
<input type="checkbox"/> EOJ — End of Job	▼	
<input type="checkbox"/> EOM — End of Memory	Last Updated User ID:	
<input type="checkbox"/> EOS — End of Step	User ID	
<input type="checkbox"/> GLV — Global Variable	Rule Fire Count:	
<input type="checkbox"/> MSG — Message	----	
<input type="checkbox"/> OMG — Omegamon Exception Event	▼	
<input type="checkbox"/> REQ — Request	Last Updated:	
<input type="checkbox"/> SCR — Screen	----	
<input type="checkbox"/> SEC — Security	▼	
<input type="checkbox"/> TLM — Time Limit Exceeding		
<input type="checkbox"/> TOD — Time of Day		
<input type="checkbox"/> USS — UNIX System Services		

- Rule Type – Limit display to specific types of Rules
- Systems – Limit to a subset of systems
- Rule State – Enabled / Disabled?
- Auto-Enabled – Yes / No?
- Last Updated User Id – Who changed it?
- Rule Fire Count – Greater or Less than a value
- Last Updated – Specific Date, Before, After, or Range

What's Planned for MTC - Automation?

Future

Rules Management

Filter Options

Systems: All Systems

Rule Type: All
Automatic Restart Management Rules (ARM)
Command Rules
Delete-Operator-Message Rules
End-of-Job Rules

Last Updated: All

Last Updated User ID: User ID

Rule Fire Count: All

APPLY FILTERS RESET FILTERS

Search by Rule Name or Message ID

DEV (5)
PROD (4)
TEST (2)
CA Samples (6)

Rule Name SSMFV327 **ENABLED** Auto-Enabled **EDIT RULE** **DELETE RULE**

ID: DSIGM11 Created: 06/04/2008 Last Updated: 04/25/2016 at 11:42 AM
Type: MSG Size: 30 Last Updated User ID: JSMITH01

Description
This rule does X, Y, and Z. And this text is the description of the rule.

Rule Source Versions **Related Automation** Analysis

RuleA
REXX_A Global_variable_B Global_variable_C

- Filtering of Source List based on multiple factors
- Description pulled directly from Source
- Ability to change rule status across multiple systems
- Add, Delete, Edit Source across multiple systems
 - Advanced Editing using JQuery
 - Point and Click Option for easy development
- Graphical Display of Source Call Trees
- Display when Source is Out of Sync across multiple systems
- Historical Analysis of Product Performance

MTC –Automation Futures

Future

- OPSLOG
 - Direct Link to AOF and SSM
- System State Manager
 - Operational View
 - Administrative
- Global Variables
- Parameters

MTC-A OPSLOG Wireframe

Future

PROFILES: **Parameters: 3/6** **Events: 5/19** **Rulesets: 0/4** **Exit Type: 1/3** **Text Searches: 0/3** CLEAR VIEW

OPSLOG

OPSLOG: <opslog name> System: <system name>

ACTIONS ▾ PROFILES ▾ LOCATE ▾ LOCATE ⚙️ ▾ ↻

Insert a Column ▾

	Date ▼	Time	Job Name x	Rows x - y of NN	OLDEST	NEWEST
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345678	Message 1 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345679	Message 2 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345623	Message 3 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345644	Message 4 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345678	Message 5 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345678	Message 6 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345679	Message 7 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345623	Message 8 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345644	Message 9 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345678	Message 10 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345678	Message 11 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345679	Message 12 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345623	Message 13 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345644	Message 14 Text		

System Command Enter ↻

MTC-A OPSLOG Wireframe

Future

Insert a Column ▾

	Date ▼	Time	Job Name x	Rows x - y of NN	OLDEST	NEWEST
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345678	Message 1 Text		
<input checked="" type="checkbox"/>	DD MMM	HH:MM:SS	12345679	Message 2 Text		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345623	Me		
<input type="checkbox"/>	DD MMM	HH:MM:SS	12345644	Me		

All Columns Display for MSG Event - 2 x

Label	Value
Date	DDMMYYYY
Time	12:45:78
ASID	4444
Elapsed	666666
Job Name	88888888
MSF DEST	666666
MSF ID	88888888
MessageNum	0123456789
Ruleset.RuleName1	OPSA SSM SSMFV327

Ruleset Description/Help Displayed Here

VIEW RULE
RULE OPTIONS ▾
CLOSE

Questions?



Influencing Our Roadmap

CA Communities Ideation

- Submit your ideas on communities.ca.com
- Vote & comment on ideas that are important to you
- CA Product Management reviews ideas and updates status as they move through the lifecycle
- “Currently Planned” idea status indicates inclusion in Agile Backlog or Product Roadmap

Customer Validation

- Register to participate in:
- Live Demos/End-of-Sprint Reviews
- Private - Members Only - Online Community
- Pre-Release Onsite Testing and Support (Beta)
- Upgrade Support from SWAT Team
- How to register: <https://validate.ca.com>



Michael Kiehl

Principal Product Manager

Michael.kiehl@ca.com

 @makiehl

 Slideshare.net/CAinc

 LinkedIn/com/in/michael-kiehl