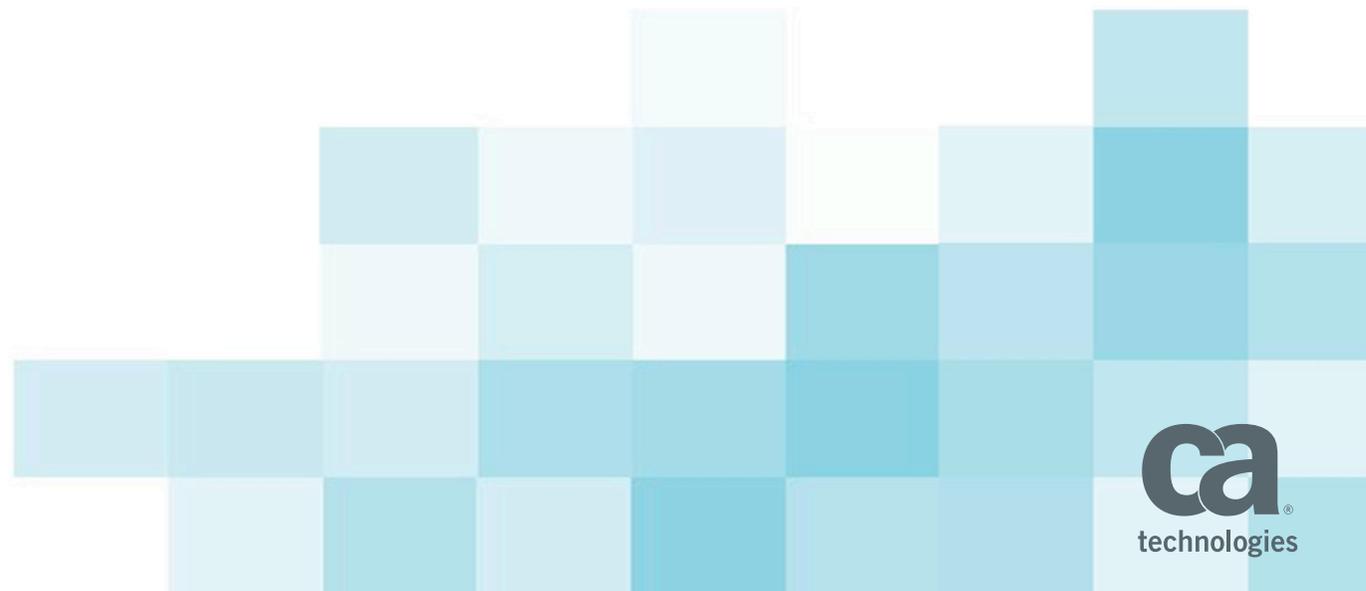


CA Roadmap

CA OPS/MVS Event Management and Automation

October 1st, 2017



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How we roll:

At CA, we eliminate the barriers between ideas and outcomes. These DNA principles drive us in fulfilling that mission at work and in our lives. They represent CA at its best.

Self-Aware

We look in the mirror. We know our strengths, but also see our weaknesses—and constantly work on both.

Authentic

We shoot straight. Our customers trust us with their most critical needs because we are always open and transparent.

Customer-Centric

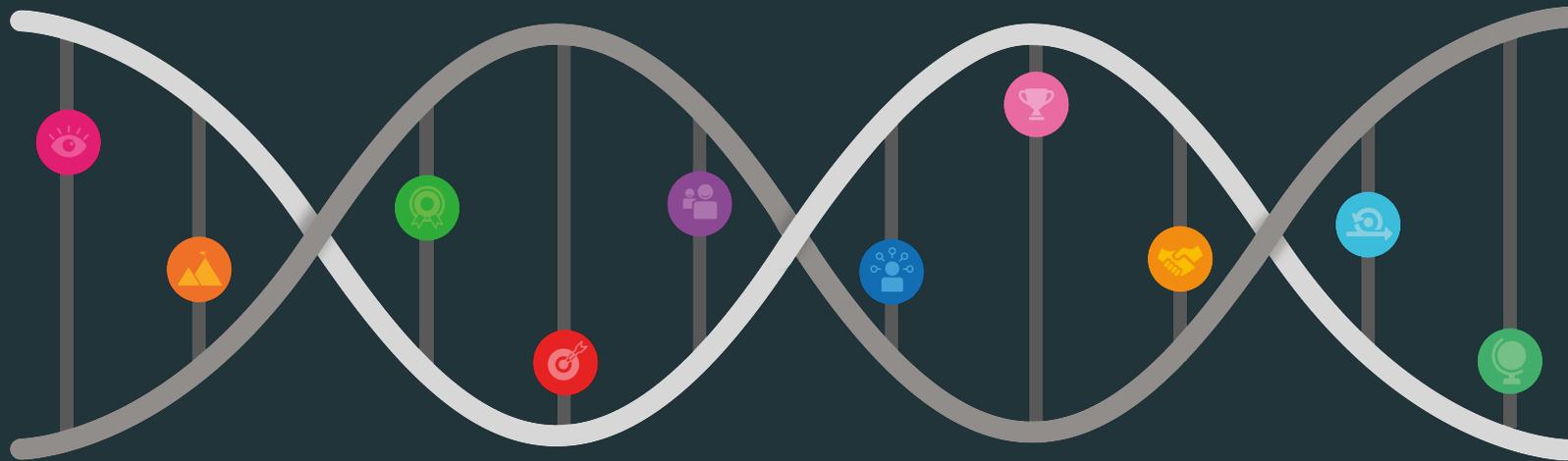
We do it for them. When our customers win, we win. We put their needs first and pride ourselves on our ability to surprise and delight.

Creative

We never stop chasing greatness. We constantly pursue elegant solutions to our customers' most complex problems and support their desire to achieve breathtaking results.

Agile

We are agile. Because agility is everything today, we move with a sense of urgency and adapt quickly in anticipation of change.



Resilient

We go all in and hold nothing back. In the face of adversity, we show no fear—only the grit to persevere.

Results-Oriented

We love the game. Digital transformation is crucial to the success of our customers, and we do what matters to ensure they win.

Collaborative

We never go it alone. We are one CA, one team that succeeds together by making the most of our collaborative expertise.

Socially Aware

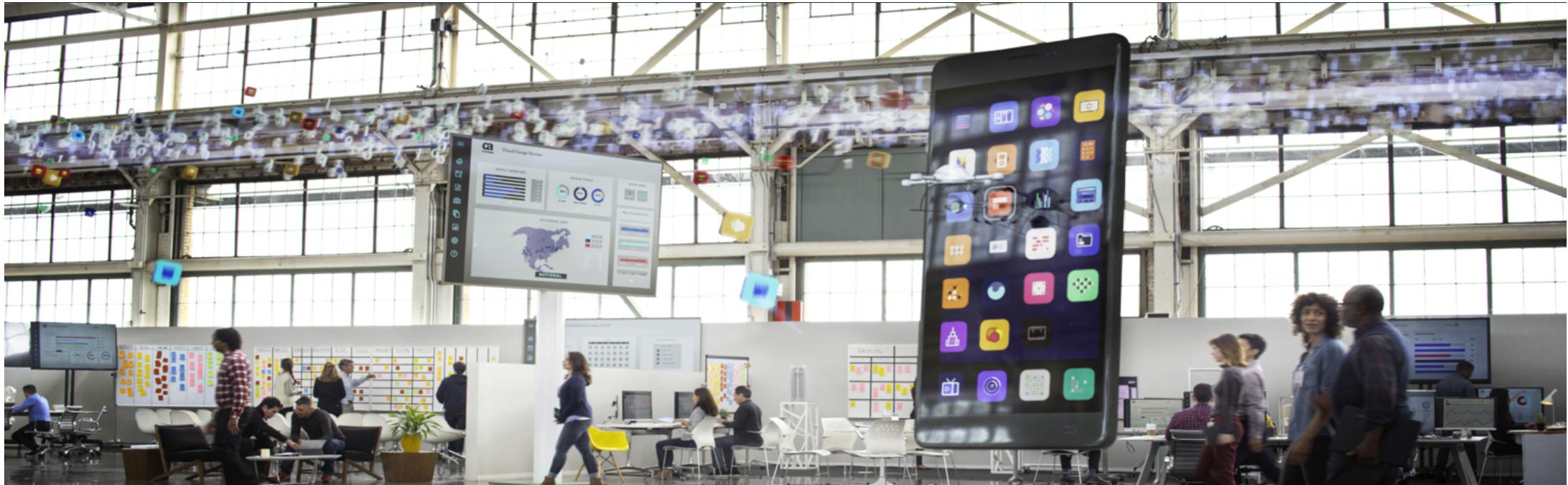
We respect each other and our communities. We support the people and causes that make a difference.

Uncompromising Integrity

We do the right thing. Always. That means honoring our commitments and principles in everything we do.

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Modern Software Factory with Connected Mainframe

1.3B CICS transactions processed every second¹

78% clients growing MIPS²

99.999% availability for billions transactions daily³



Connected Mainframe:
\$198.5M additional revenue yearly⁴



1 – IBM Estimates on Real Client Usage, 2 – Arcati 2017 Mainframe Yearbook, 3 – Business Finance Magazine, “Mainframe 101

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Outcomes: Modern Software Factory with Mainframe

A Blueprint for Success.

How do enable data-centric security and privacy to protect enterprise data?



Concept

Security

Economics

How do we free up budget and lower costs to self-fund growth in MIPS?



Insights

How can we learn from experience to increase stability, reduce MTTR and improve SLA's?



Product

Agility

How do we increase the innovation velocity for mission essential mainframe apps?

Automation

How do we digitize our processes to go beyond scripts for significant improvements in efficiency?

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Customers
Demand More



Expectations of
Application Performance



LOB Demands & Speed

Bringing Machine Learning to Mainframe

MTRR & Firefighting

Optimized Performance & Efficiency

Automation

Generalist



Specialists



Experts



MODERNIZATION

- React to events
- Self service views
- Modern U/X



ANOMALY DETECTION

- Predict anomalies
- Proactive response



PATTERN DISCOVERY

- Topology discovery
- Predict business service disruption



INTELLIGENT AUTOMATION

- Root cause analysis
- Resolution guidance
- Automate response

Data and Event Processing

Machine Learning Algorithms

Automation

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Intelligent Automation & Management Solutions

Bringing Machine Learning to Mainframe

Take action earlier with **embedded analytics** which detects abnormal patterns of operation



Predict Earlier



Remediate Faster



Operational intelligence captures patterns, triggering **dynamic** and reliable problem **remediation**

PREVENT PROBLEMS



Improve Continuously



Collaborate Efficiently



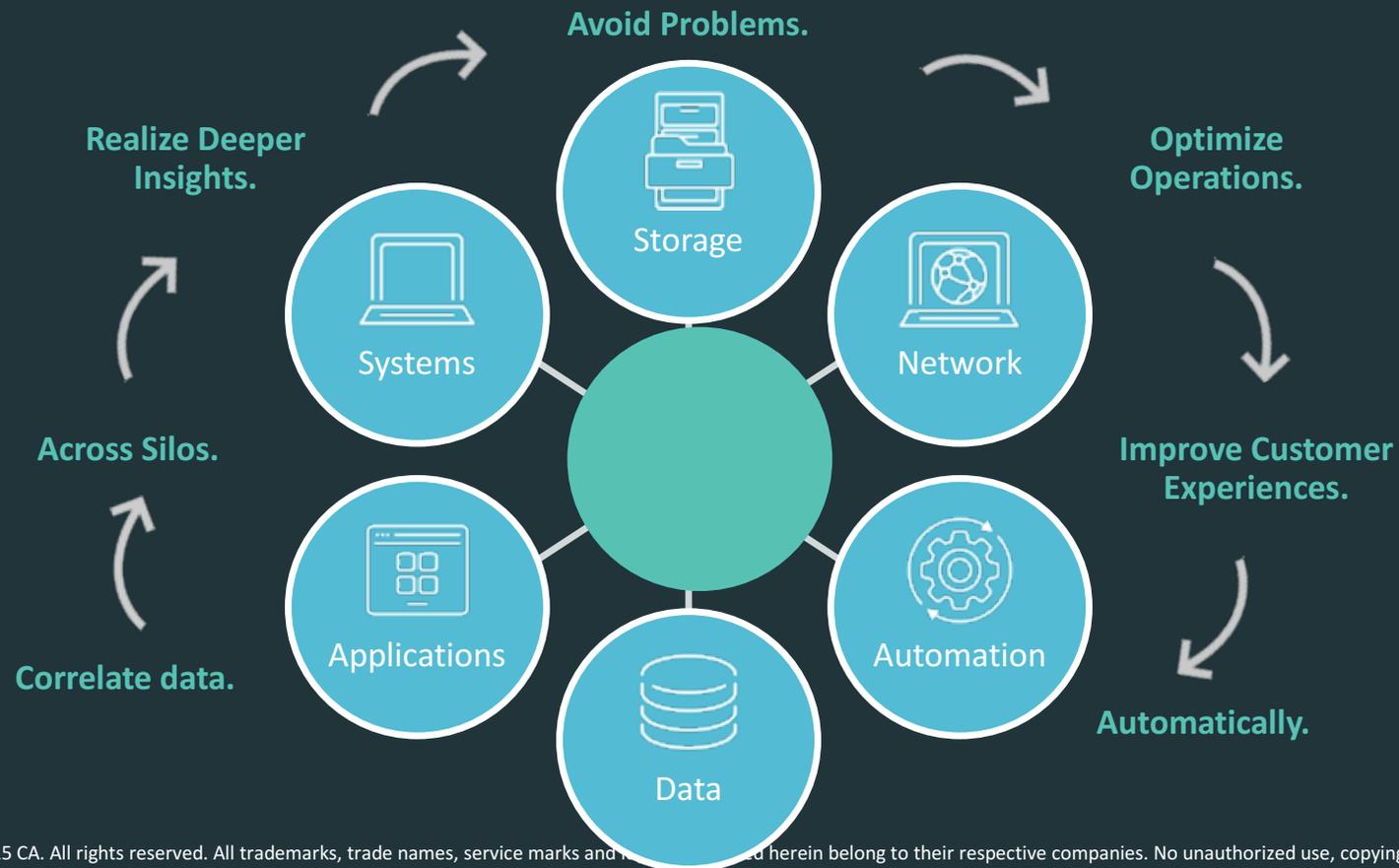
Machine learning with operational feedback recommends the next best action for future event

Get everyone working together to **isolate root causes faster** with data insights from multiple sources

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Mainframe Operational Intelligence

When Something Goes Wrong, You Have Only One Place to Look

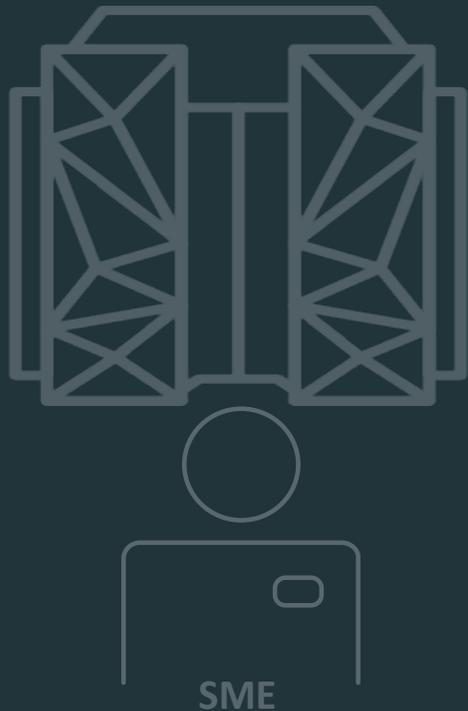


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CA Innovates
Intelligent
Experience:
Early proof of
concepts and
prototypes to
ensure CA
products
continue to
exceed client
needs &
expectations in
the future

Intelligent Experience: Reinventing How SMEs Work with CA Mainframe Products



What is Intelligent Experience?

Combining a unified experience across our mainframe products with enhanced intelligence capabilities, CA seeks to transform the ability of our customers to get the job done while providing tangible immediate business value:

Simple and Easy to Use

Powerful, Efficient, & Collaborative Design

Integrated, Extensible & Componentized

Consistent & Elegant Interfaces

Timely Access to Information

Proactive with Analytics Capabilities

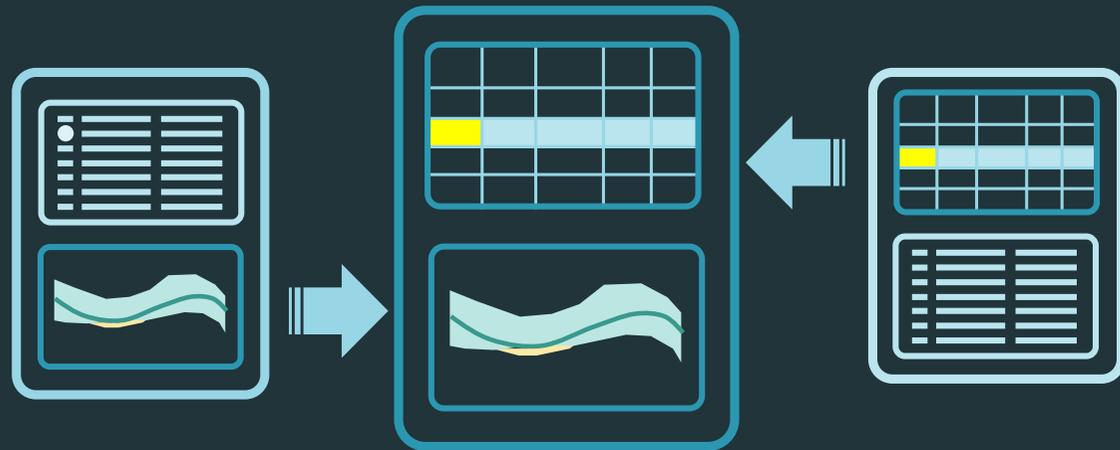
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Meeting and Exceeding the Needs of Today

Modern, Efficient, Powerful: A Unified Experience for CA Mainframe Products.



Maximize the efficiency, time, value of your SMEs by pulling in the information they need from CA products within a single unified experience when they need as they need it.



- No more logging into multiple products, learning multiple interfaces.
- No more multiple screens to track down a single issue.
- No more massive multi-department meetings to determine root cause analysis.

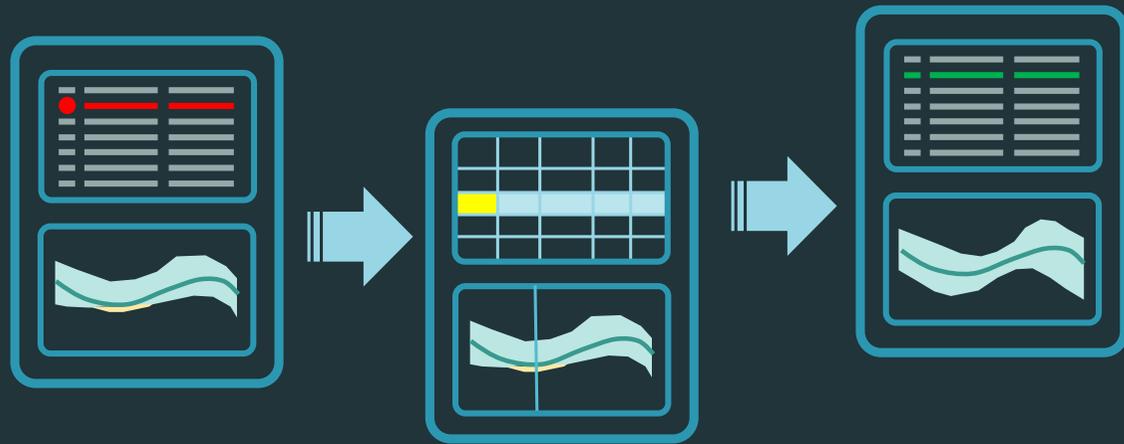
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Preparing for the Software Factory of Tomorrow

Bringing advanced Analytics and Machine Learning Capabilities to the Fore Front



Intelligent Experience will prepare you for the future by **enabling the SMEs to effectively utilize the machine learning and automated systems**, facilitating a smooth and efficient collaboration, allowing SMEs to leverage powerful **automation tools**.



- Aid in identifying issues as they arise by adding analytics capabilities in the interface
- Allow your SMEs to focus on critical issues rather than mundane repetitive every day tasks
- Expedite root cause diagnosis using sophisticated yet simple interfaces

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IT Operations Portfolio Vision

Continuous Operations

Security, Risk Management & Compliance

Next Generation Apps & Workforce

Smarter, Proactive Performance Management

Automate Everything

Data Masking, Audit & Protection

Modernization, APIs

Analytics, Smart Autonomics

Learned Remediation

Address emerging demands on mainframe staff

CA DB2 Tools

CA OPS/MVS

CA SYSVIEW

CA NetMaster

CA Vantage

CA Workload

Continue to strengthen the core

← ← ← *Minimize errors and outage risks with ever changing workloads and system demands* → → →
Improve Performance & Conserve CPU Resources
Increase data availability & minimize recovery times

Smart Interoperability

IBM, Modern Apps, Application Development Tools

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Technology and Product Architecture Goals

IT Operations

Technology Goals

- Day 1 toleration support new releases of z software and hardware
- Evaluate and leverage new technologies
- Leverage UI framework for extensibility, flexibility and common experience
- Use of high level language (Metal/C, Java, etc.)
- Continue to exploit z System hardware (zIIPs, Encryption, Compression)
- Exploit cross VS infrastructure: MFaaS, Machine Learning, OPEN API

Product Architecture Goals

- Automated product provisioning with best practice defaults
- Enable easy access of product data and control via REST APIs
- Adopt microservice-based architecture for scalability, availability, elasticity
- Supportability and quality of solutions meet z Enterprise expectations
- Conform to all architectural building codes

Product Overview

CA OPS/MVS Event Management and Automation

Business Problems Addressed

- Low productivity
- Business down time
- Scalability
- Staffing
- Mainframe TCO

Key Capabilities

- Monitor applications
- Improved Availability
- Increased Operational Efficiency
- Simplified System Management
- Multi-System Communication

Personas

- IT Management – Ops
- Application Owners
- Automation Administrator
- System Administrator

Team Persona

CA OPS/MVS Event Management and Automation

SHEILA

Support Analyst



SHERMAN

Systems Engineer



ANDY

Automation Director



ANDERS

Automation Engineer



MARLAINA

Automation Engineer



MY PAIN

Monitoring many systems & Devices

HELP ME

Simplify alerts, meaning and action

MY PAIN

Firefighting and identifying likely sources of future fires

HELP ME

Instantly know what changes may trigger problems

MY PAIN

Firefighting and identifying automated solutions to previous problems

HELP ME

Quickly develop and deploy automation. Provide analysis to identify and correct problems.

CA OPS/MVS Event Management and Automation with Release 13.0

Provide an automation toolkit that enables customers to easily configure and maintain systems in the continuously evolving Mainframe environment while allowing it to extend into distributed and mobile environments.

PRODUCT / SOLUTION OVERVIEW

- OPS/MVS provides the tools need to proactively monitor and automate a mainframe environment
- Provides solutions to automate mainframe startup, shutdown, and recovery
- Automate system events to provide reliable and consistent operations

GTM HIGHLIGHTS

- Modern GUI to centralize Rule Management across mainframe environment
- Expanded SYSPLEX exploitation for automation administration
- Direct link to Mainframe Operational Intelligence alarms generated via Machine Learning Algorithms

KEY CAPABILITIES

- Framework allowing for quick implementation of company policy system management
- Ability to integration with most applications both on and off platform
- System Resource Management
- Synchronous automation of system events

DIFFERENTIATORS

- Multi-threaded architecture allowing for higher throughput and faster response times
- Single programming language decreasing on-boarding time
- Open Architecture allowing for flexibility in automation policy

HORIZON

- Competing
- System Resource Management
- Enterprise wide Integration
- Landing Lightly

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Roadmap: CA OPS/MVS Event Management

Timeline as of October 1, 2017

	Delivered	Planned	Under Consideration
Product/Releases	CA OPS/MVS 13.0	CA OPS/MVS	CA OPS/MVS
Marquee Features/ Business Value	<p>Easy and modern automation rule management with Mainframe Team Center – Automation</p> <p>Automate resolution to alarms raised by dynamic thresholding</p> <p>Expanded SYSPLEX Administration of Rules, GLVs, and RDF Tables</p> <p>TLS 1.2 support for Automation Point to OPS/MVS MSF Link</p> <p>Expanded functionality with Automation Point Option</p>	<p>Mainframe Team Center – Automation</p> <p>OPSLOG viewable and linked to Rules Management</p> <p>Automatically determine Enterprise wide Rule Synchronization</p> <p>Simplified SSM Operations and Dependency Analysis</p> <p>Increased Resource Management flexibility via SYSPLEX RDF Tables</p> <p>Simplified and Improved USS Resource Management</p>	<p>Expanded integration via additional Web Services</p> <p>Expanded Integration with Workload, Performance, and AP</p> <p>Reduced incident research time via Real-time Consolidated OPSLOG</p> <p>Reduced system downtime with Push Button Automated IPL</p> <p>Modern approach to console consolidation and management via Automation Point</p>
	<p>Currently GA</p>	<p>Business Agility</p> <p>Mainframe Economics</p>	<p>Skills Management</p> <p>Security & Compliance</p>

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Modernize Toolset – Policy Based Resource Management

Maintain system resources while reducing change duration and errors

Delivered Feature

```
SSM Resource List -- CALL ----- O P S V I E W ----- Row 1 to 17 of 329
Command ==>                               Scroll ==> CSR
System: *                                   Step Through: N (Y/N)

Commands: ADD LOCATE 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   V Verify  ? Help

Filter  Resource Name      Type           Table Name      Status
-----
___ AD14MUF             DATACOM-AD     STCTBL
___ AD14SRVR           DATACOM-SR     STCTBL
___ ALLOCATE           ALLOCATE       STCTBL
___ AL2QSRVR          CA7SRVR        STCTBL
___ AL2QWEBD          CA7WEBCL       STCTBL
___ APCDB14           DATACOM-AD     STCTBL
___ APCMUF14          DATACOM-AD     STCTBL
___ APPC              APPC           STCTBL
___ ASCH              APPC           STCTBL
___ AS53TPXG          TFX            STCTBL
___ AS54TPX           TFX            STCTBL
___ AS54ZTPX          TFX            STCTBL
___ CA-VTAPE          CA-VTAPE       STCTBL
___ CADRAS            DRAS           STCTBL
___ CAENF             CAENF          STCTBL
___ CALDAP            CALDAP         STCTBL
___ CA7ICMT2          CA7ICOM        STCTBL
```

PAIN

- To manage a system resource one needs to know several advanced features of OPS/MVS
- Finding out how a resources is managed can be almost as time consuming as setting it up

SOLUTION

- Consolidation of System State Manager resource administration into a single location
- Best Practice Resource Definitions
- Guided or Report Style Add/Updating of Resources
- Senior staff can still use existing administration methods

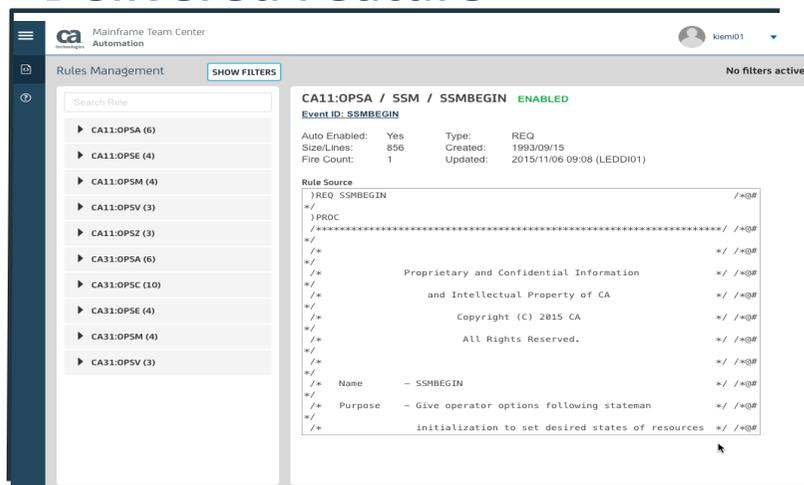
BENEFIT

- Reduced Training Time, Reduced Maintenance Time
- Able to support resource management without being an expert in every aspect of automation.
- By centralizing resource management and supplying policy based resource definitions L1/L2 staff will be able to maintain system resources with less training while reducing change duration and errors.

Modernize Toolset – Centralized Rules Management

Web based management of automation code spanning Mainframe complex

Delivered Feature



PAIN

- Manually intensive process to maintain automation code across multiple systems
- Quickly identifying and locating automation code across the enterprise

SOLUTION

- USS based Apache Web Server Interface
- Display automation code with a multiple system view
- Advanced filtering capabilities

BENEFIT

- Reduce amount of time needed to preform automation code maintenance
- Intuitive interface allows novice or non-automation administrators to research and identify automation policy

Delivered

Feature	Description	Benefit
JSON Web Services	Add the ability to have RESTful Web Services packets passed in JSON in addition to XML.	Adds customer flexibility when developing web applications using Web Services.
Multi-Threading of Rules	Currently time based rules execute in a queued fashion, this update will allow customers to define how many rules can run simultaneously	Delays in automated processing will be reduced during peak processing hours
Generate Outbound Web Services Requests	REXX Program OPRXREST can be used to send RESTful Web Services requests from CA OPS/MVS to other products	RESTful Web Services is an industry standard way to communicate between products and platforms. This updates allows the customers Mainframe Automation product to have a bi-directional communication path within this standard
Automation Point Option	CA Automation Point will now be listed as a sub-license	Access to off-board automation companion product allowing for a more complete mainframe automation solution
TLS Support for CCI MSF Links	MSF Links between CA OPS/MVS and CA Automation Point have been updated to support TLS 1.2 Encryption	Allows for connections off the mainframe to be Encrypted protecting any sensitive customer data being transmitted
Expanded SYSPLEX Administration	Allow Global Variables, Rules, and Tables to be updated from a single location across MSF connected CA OPS/MVS instances	Reduce time needed to distribute changes across a customers CA OPS/MVS environment by eliminating the need to log into individual systems that are connected via MSF.
CA Mainframe Operational Intelligence API Events	When CA Mainframe Operational Intelligence Alarm Manager predicts an issue a CA OPS/MVS API event will be generated allowing for automation scripts to correct before becoming a customer impacting incident	CA MOI Alarm Manager has been shown to predict issues up to 4 hours before traditional static threshold based monitoring products, thus allowing the automated responses to be triggered earlier
Updated Documentation and Videos	A new CA OPS/MVS guide and YouTube Video Series has been created details Best Practices and Tuning Recommendations	Allow for easy access to CA recommendations for CA OPS/MVS optimal performance. The video series was created in short manageable segments allowing to quick consumption.

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Planned MTC-A OPSLOG Integration

Expand Mainframe Team Center – Automation for OPSLOG functionality

Planned MTC-A OPSLOG

Date	Time	Job Name	Rows x - y of NN
DD MMM	HH:MM:SS	12345678	Message 1 Text
DD MMM	HH:MM:SS	12345679	Message 2 Text
DD MMM	HH:MM:SS	12345623	Message 3 Text
DD MMM	HH:MM:SS	12345644	Message 4 Text
DD MMM	HH:MM:SS	12345678	Message 5 Text
DD MMM	HH:MM:SS	12345678	Message 6 Text
DD MMM	HH:MM:SS	12345679	Message 7 Text
DD MMM	HH:MM:SS	12345623	Message 8 Text
DD MMM	HH:MM:SS	12345644	Message 9 Text
DD MMM	HH:MM:SS	12345678	Message 10 Text
DD MMM	HH:MM:SS	12345678	Message 11 Text
DD MMM	HH:MM:SS	12345679	Message 12 Text
DD MMM	HH:MM:SS	12345623	Message 13 Text
DD MMM	HH:MM:SS	12345644	Message 14 Text

PAIN

- As New Employees are added to Mainframe staff, most are unfamiliar with 3270 interfacing requiring extended training periods
- Existing OPSLOG interface is independent of other automation functionality requiring administrators to constantly switch screens.

PLANNED SOLUTION

- Incorporate OPSLOG functionality into Mainframe Team Center – Automation modern interface
- Streamlined and Intuitive Interface
- Direct inline linkage to other Mainframe Team Center components

PLANNED BENEFITS

- Reduction in training time for new automation administrators based on a more intuitive user interface
- The deep linkage between log data and automation data will reduce required time for automation administrators when researching both customer requests and incidents

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Planned MTC-A System State Manager Integration

Expand Mainframe Team Center – Automation allowing for SSM Operations

Planned MTC-A SSM

FILTERS Resources: 8 Control Gps: 0 View: Exception Current: != Abcd1234 Desired: =4321wxyz

SSM Resource Status ????: <????? name> System: <system name>

ACTIONS FILTERS LOCATE LOCATE [Settings] [Refresh]

VIEW OPTIONS

Command	Status	Resource	Current	Desired	MESSAGE
.....		ABCDEFGH	DOWN	UP	
		ABCDEFGJ	DOWN	UP	
		ABCDEFGK	DOWN	UP	
		ABCDEFGL	DOWN	UP	

Enter

PAIN

- As New Employees are added to Mainframe staff, most are unfamiliar with 3270 interfacing requiring extended training periods
- Existing SSM interface is independent of other automation functionality requiring Operators to constantly switch screens.

PLANNED SOLUTION

- SSM Interface focused on the needs of the Operations personnel
- Streamlined and Intuitive Interface
- Direct inline linkage to other Mainframe Team Center components

PLANNED BENEFITS

- Reduction in training time for new operators based on a more intuitive user interface
- SSM Resources views can be dynamically modified to display based on what function the operator is currently performing
- SSM Resources will have a direct link to automation scripts and OPSLOG messages

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Planned SYSPLEX RDF Tables

Allow RDF tables to span a SYSPLEX instead of system specific

Planned SYSPLEX RDF Tables

```

RDF Table Editor ----- RDF Table List
Command ==>
  OPTIONS: Browse Copy Delete Edit Free Insert Rename S(edit)
  MULTI SYS: MCopy MDelete MTransfer
Sel Table                               New Table
___ SSM_MANAGED_TBLS                     _____
___ SSM_POLICY_TBL                       _____
___ SSM_TYPE_TBL                         _____
___ SSM_TYPE_TBLB                         _____
___ SSM_UCPOL_TBLS                       _____
___ SSM_UCPOL_TBL1                       _____
___ SSM_UTYPE_TBL                         _____
___ SSM_UTYPE_TBLB                       _____
SSMCO_CBEFWLT_TBL

```

PAIN

- Customers need to manage their SSM Resources on an individual system bases instead of being able to make use of SYSPLEX functionality
- Significant manual effort to replicate table data between multiple systems, even when data is identical

PLANNED SOLUTION

- Allow RDF tables to optional be defined to a SYSPLEX Scope
- Identical management options between system bound and SYSPLEX bound RDF Tables

PLANNED BENEFITS

- Reduce the amount of time customers need to manage identical tables across their SYSPLEX
- Reduce setup and maintenance time required for System State Manager Resources that need to be defined as Movable
- Reduce System State Manager administration time for resources that are defined identically on multiple systems within a SYSPLEX



Planned

Feature	Description	Benefit
SSM Dependency Tress	Graphically display System State Manager Prereq and Subreq dependency for entire system or for individual resources within Mainframe Team Center - Automation	Allows to quickly reference how Resources are tied together within SSM and how changes and/or outages will affect their environment.
MTC-A Synchronization	Rules displayed in Mainframe Team Center – Automation are updated on a timer bases, this update will allow customers to select for automatic synchronization whenever a rule is changed	Customers will have greater control over when updates are pushed to MTC-A.
USS Resource Management	Improved management of USS Resource and SYSLOGD messages	Allow for better management and automation of resources executing the the USS Environment
SSM Auditing	Expanded audit tracking of SSM managed RDF Tables beyond existing OPSLOG messages	Allow customers to easily track when changes are made and who performed them
Function Updates	Allow OPSINFO to use MSF for functions that make sense and to expand TOD rule fire time specifications	Expand the usability of CA OPS/MVS based upon customer feedback and suggestions
MTC-A Various Updates	Include REXX Programs, Script call tree, Text Searching within Code, Searching based on TOD Fire times, Automatic Script Comparing	Expand MTC-A usability and allow for easy identification of automation scripts for maintenance.

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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:
<http://validate.ca.com>



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in