CA IDMS™ Continuous Delivery Version 19.0 New Features and Enhancement

November 10, 2020

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Introductions

- CA IDMS Software Engineers:
  - Mike Picchioni
  - Rick Rhodes
  - Jonathon Thomson

- Sheila Miller – Product Manager

- Nakesha Newbury – Product Owner

- Dave Ross – Product Architect

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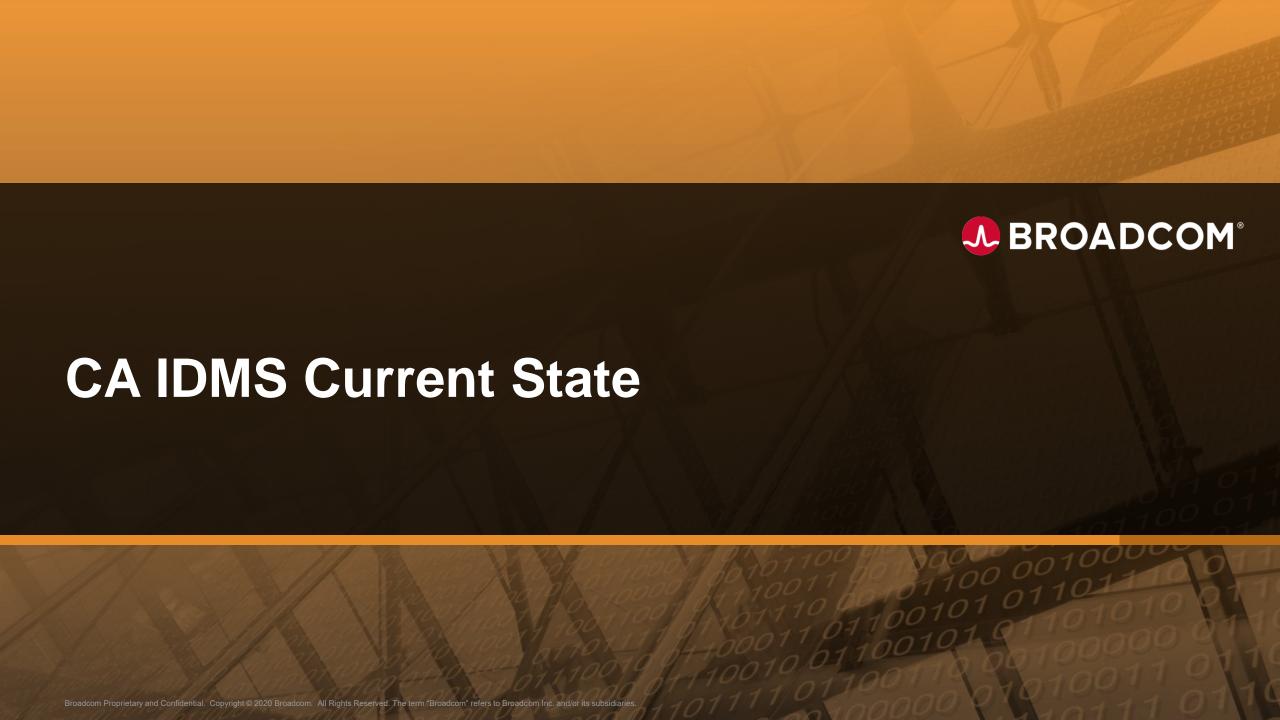
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Agenda

- CA IDMS
  - ➤ Current State
  - ➤ Server 17.1
  - ➤ IDMS REST API 1.0 & Zowe CLI
  - ➤ z/OSMF
  - ➤ Data Masking
  - ➤ General Updates

- Q&A

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CA IDMS Current State

CA Database Focus Areas

Maintain Superior Level of Support and Innovation for our Customers Mission Critical Systems

Innovate

Embrace Open

Simplify & Automate

Optimize

Security & Data Protection

Educate and Sustain

Education

Engineering Excellence

Sustaining

Technical Currency

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CA IDMS™ Roadmap Current State

Delivered	Planned	Under Consideration

Marquee Features

Delivered

Embrace Open
- **REST API** – real-time monitor, systems management, analytics, and modern dashboard enablement
- **Zowe CLI (Command Line Interface)** enable automated scripting of CA IDMS/DC commands

Technical Currency
- **CA IDMS Server 17.1** new software build, installation, windows fixes, new sample JDBC program to extract data in CSV format
- **Service update PAX** CA IDMS 19.0 service update

Optimize
- **SQL data exception messages** provide more details when receiving Data Exception messages with ability to debug problems with SQL query
- **CA ADS zIIP Eligibility** enables ADS runtime to run on zIIP specialty engines
- **MQ Adapter** connect to Z/OS QM, on-line applications, trigger monitor, RRS

Simplify & Automate
- **Sysgen Avoid the Surprises** automated alert, new command to view pending changes; reporting
- **Dynamic storage pool expansion** automatically expand storage pools based on pre-defined limits
- **IBM z/OSMF** standard software install, deployment, and configuration

Security & Data Protection
- **Mapping support for output edits** protecting sensitive data to meet security compliance regulations

Planned

Embrace Open
- **IDMS Zowe CLI Plugin** – execute and automate IDMS commands using common tools and modern IDE's; ease of use for next-gen DBA's and Developers
- **IDMS REST API –** additional metrics, compiler support, data sources

Education
- **Vitality:** Education
- **TechDocs** improvements – Improved search utilization

Optimize
- **64 bit**: buffers above the bar, phased approach

Simplify & Automate
- **IBM z/OSMF** portable packaging

Security & Data Protection
- **Extract, Transform, Load (ETL) Utility & TDM integration -** Anonymization & masking of PII sensitive data to meet GDPR security requirements (analysis only underway)
- **Security Technical Implementation Guides (STIGs) –** security standards to decrease risk of unauthorized disclosure of sensitive information and enhance confidentiality & integrity

Under Consideration

Embrace Open
- **Continued development of REST APIs** driven by customer centric requirements
- **Eclipse CHE / VS Code integration –** syntax support for IDMS DML & ADS support using modern developer tools
- **Web / GUI front-end to CA IDMS REST APIs**

Optimize
- **SVC Elimination** improved security, ease upgrade and installs
- **SQL Enhancements** SQL Describe Command, Locking SELECT FOR UPDATE, SQL storage pools
- **MF Operational Intelligence (MOI) & Machine Learning (ML)** CA IDMS integration

Technical Currency
- **Quick Bridge** certified on current Windows OS

Simplify & Automate
- **Automated REORG / High Availability** REORG an area without risk of human error and (near) zero downtime or interruption to their business.
- **z/OSMF Workflows** – assistance with DB Utilities

Security & Data Protection
- **IBM Z pervasive encryption**

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End of Service (EOS) Announcement – December 30, 2019

- ## EOS – December 31, 2020
  - CA IDMS for z/OS Plus 18.5
  - CA IDMS Visual DBA for z/OS 18.0, 17.0, and 16.0

- ## Upgrade to Latest Version
  - CA IDMS for z/OS Plus 19.0
  - CA IDMS Visual DBA for z/OS 18.1

End of Service Announcement for CA IDMS 18.5 for z/OS and CA IDMS™ Visual DBA 18.0, 17.0, and 16.0 for z/OS

December 2019
To: CA IDMS Customers
From: The CA Technologies CA IDMS Product Team
Subject: End of Service Announcement for CA IDMS 18.5 for z/OS and CA IDMS™ Visual DBA 18.0, 17.0, and 16.0 for z/OS

CA Technologies, a Broadcom Company, is continually working to improve our software and services to best meet the needs of our customers. In accordance with the terms, guidelines, details and parameters of

Broadcom's standard support program which is documented in the "Working with CA Support" guide located at: https://casupport.broadcom.com/product-information.html, please consider this email your written notification that we are discontinuing technical support for CA IDMS 18.5 for z/OS and CA IDMS™ for z/OS Visual DBA 18.0, 17.0, and 16.0 for z/OS effective December 31, 2020. This will allow our Development organization to more effectively focus its resources and add value to the current release of CA IDMS. After December 31, 2020, CA Technologies will continue to make self-service support available until the end of your current maintenance term.

At this time, we encourage you to plan for the migration to CA IDMS 19.0 for z/OS and CA IDMS Visual DBA 18.1 for z/OS as soon as possible, so you can take full advantage of the features and enhancements this release has to offer. For information on CA IDMS, please visit the CA IDMS pages at CA Support.

As CA Technologies would like to make your upgrade to CA IDMS 19.0 and CA IDMS for z/OS Visual DBA 18.1 for z/OS as straightforward as possible, we are offering the following:

- The latest supported Version/Release of CA IDMS, at no charge, as long as you have an active maintenance contract for CA IDMS. Documentation to help you prepare for your upgrade to the new Version/Release can be viewed on the CA IDMS pages at CA Support.
- Upgrade assistance from qualified local CA partners. For more information and a list of partners in your area, please contact your local CA Channel Partner Group office.
- Should you need any assistance with developing a migration strategy or performing the actual migration, CA Services can help. For more information on CA Services and how you can leverage our experience, please visit CA Services.

If available, CA Extended Support, a CA Technologies support offering, that extends support for CA Technologies software product versions or releases that have reached End of Service. CA Extended Support may be available for a limited time after the End of Service date. Please visit our CA Support website for more information.

Your success is very important to us, and we look forward to continuing our successful partnership with you.

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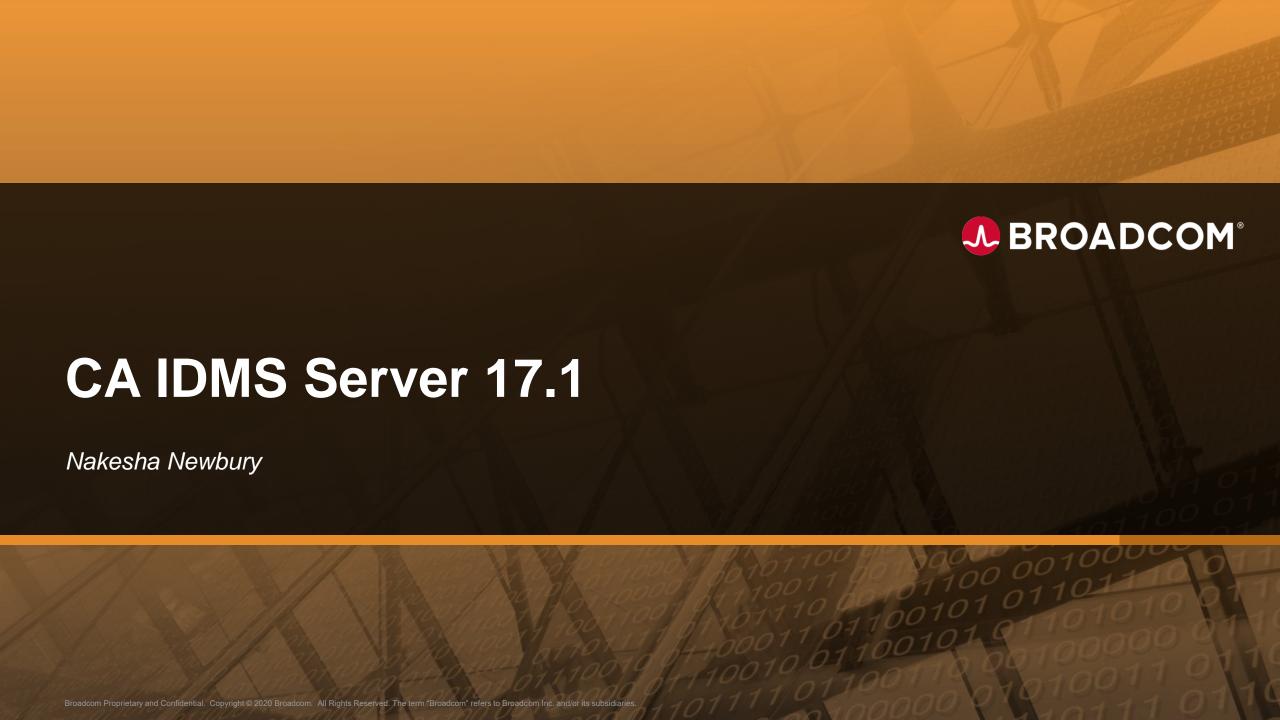# CA IDMS 19.0 Upgrade Solution

Use Case:
As an IDMS Admin I need a **service update** for CA IDMS 19.0 which will simplify and accelerate the upgrade process to the latest release enabling me to focus on other priorities.
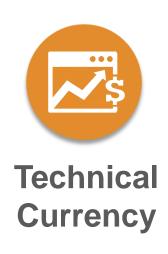
Simplify

✓ Lands easier on the customer

✓ Streamlines experience by eliminating a complicated and lengthy upgrade process

✓ Quicker time to value in realizing product currency and ability to leverage the latest product capabilities

CA IDMS 19.0 Upgrade Solution

- Provides currency out of the box
  - Eliminates the need to apply over 400 PTFs & HoldData
  - Based on CA RS 1912
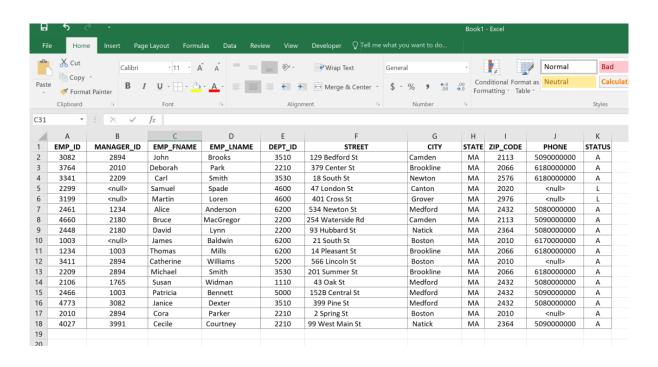 - Includes all maintenance published up until 12/2019

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CA IDMS Server 17.1

Nakesha Newbury

CA IDMS Server 17.1

Technical Currency

- Server Currency Release to resolve **supportability** issues and **future enhancements**

- Accumulated Fixes

- JDBC build with **OpenJDK**; ODBC with latest C++ compilers; OpenSSL rebuild

- Updated **Install Shield** rebuild (separate install for 32/64; CCI-PC removed)

- **Windows 10** compatibility and **Start Menu** fix

- Installer Support for **Patches/Fixes**

- Extract to CSV sample program

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Extract IDMS Data in Comma Separated Values (CSV) Format

- Ability to easily request and produce IDMS data in CSV format

- Output file can be read easily by CSV tools, such as Microsoft Excel

- Server Java program

CA IDMS REST API & Zowe CLI

Jonathan Thomson

CA IDMS REST API

Use Case:
As a CA IDMS REST user, I need the ability to quickly and easily access data in order to leverage solutions that analyze system issues, automate processes and alerts, and create intelligent recommendations for tuning.

Open

✓ Enable client dashboards or application to view system and performance data

✓ Allows users to implement and automate warnings and recommendations to avoid system risks

✓ Provides flexibility to leverage modern, user friendly tooling improving the user experience

Bottom Line:
Flexibility to leverage modern tooling to automate systems management minimizing risk of system outages.

CA IDMS REST API

- Can be deployed with or without Zowe API Mediation Layer
  - Build scripts to invoke the REST API via Zowe CLI
  - Web applications can be leveraged for additional reporting and analytics
  - Automated warning and recommendations

- Remote performance monitoring/management
  - System Run Unit Summary
  - Active SQL Detail
  - Buffer I/O Detail
  - Communication Line Detail
  - Program Pool Detail
  - Transaction Overview and Detail

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CA IDMS Zowe CLI Plugin

Use Case:
As a next-gen CA IDMS DBA, Systems Programmer, and Application Developer, I want the ability to execute and automate CA IDMS commands so that I can maintain my CA IDMS environment more easily with less training.

Open

✓ Automate CA IDMS administration tasks by using Zowe / CLI

✓ Interact in a familiar format to simplify and automate common CA IDMS admin tasks

✓ Manage CA IDMS using common tools, such as an Integrated Development Environment (IDE)

Bottom Line:
Empower next-gen CA IDMS users to manage mission critical CA IDMS systems using modern tooling.

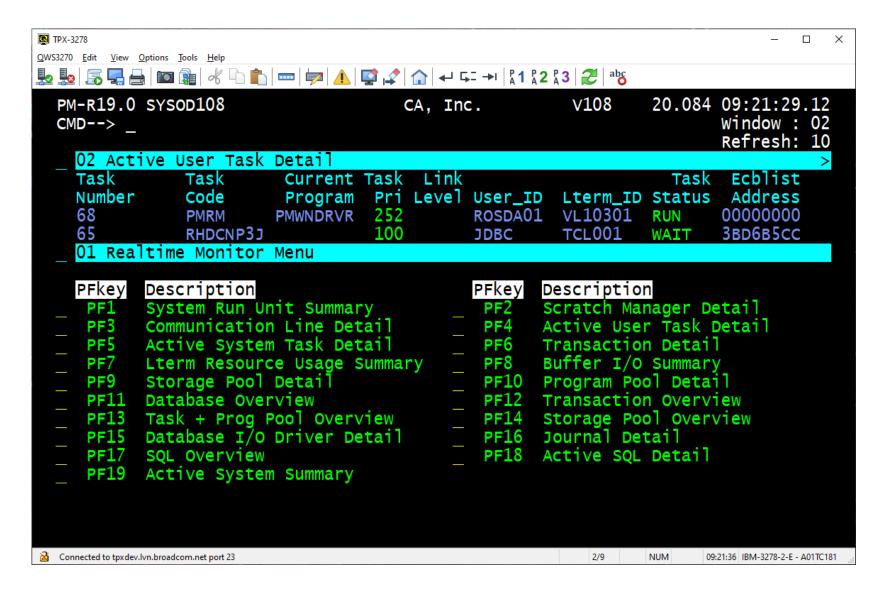**CA IDMS Zowe CLI Plugin**

- Leverages IDMS REST API services
  - DCMT
  - DCUF
  - DC LOG
  - Performance Monitoring

- Manage CA IDMS tasks using common tools

- IDEs

- Shell commands

- Modern scripting languages, such as Bash, Python, TypeScript, and JavaScript

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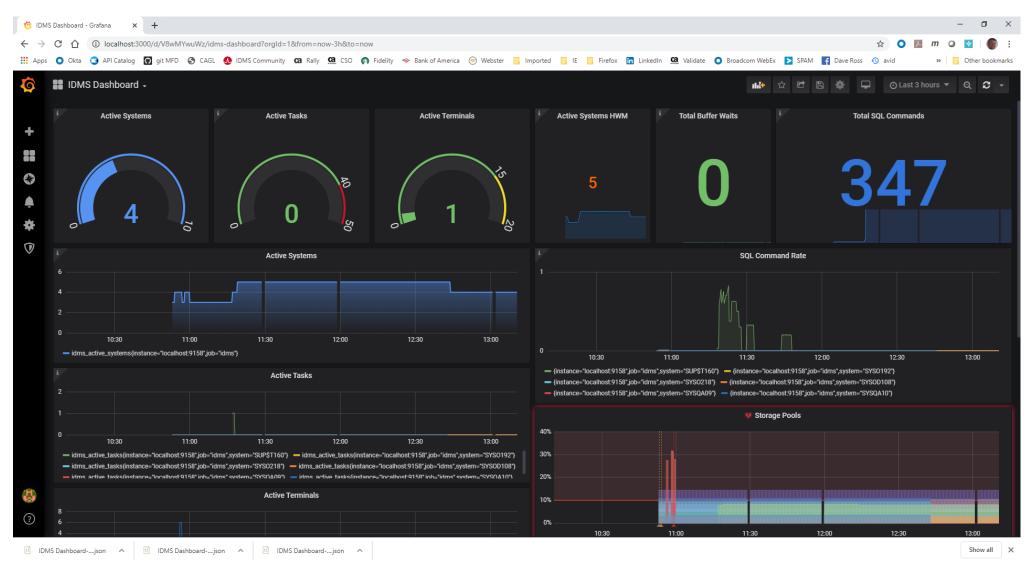**BROADCOM®**

IDMS Performance Monitor
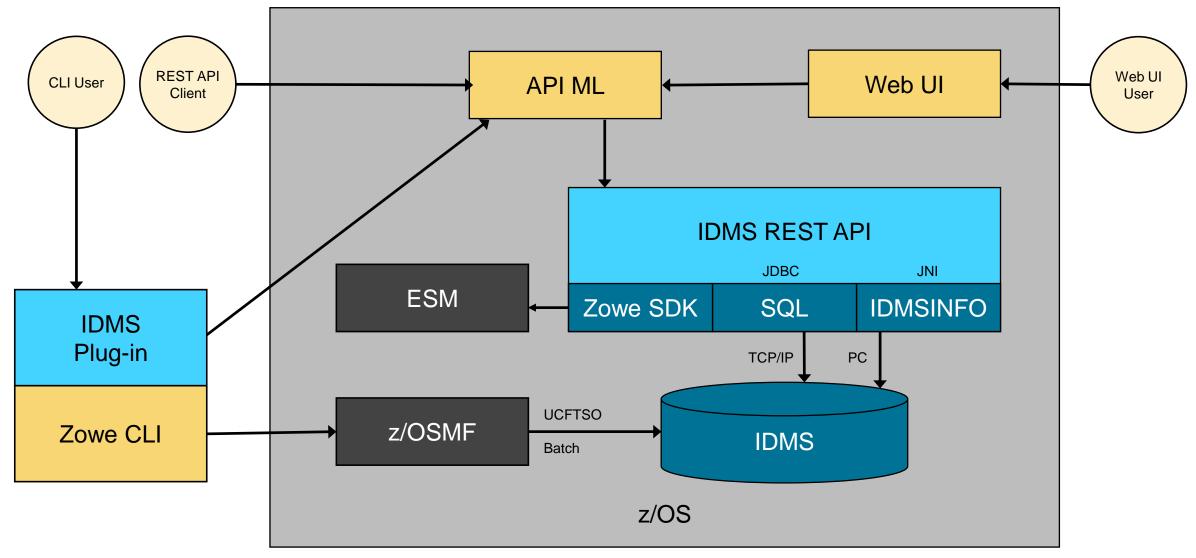
IDMS Grafana Dashboard

IDMS REST API

Enables client dashboards or applications to view IDMS systems and Performance Monitor data
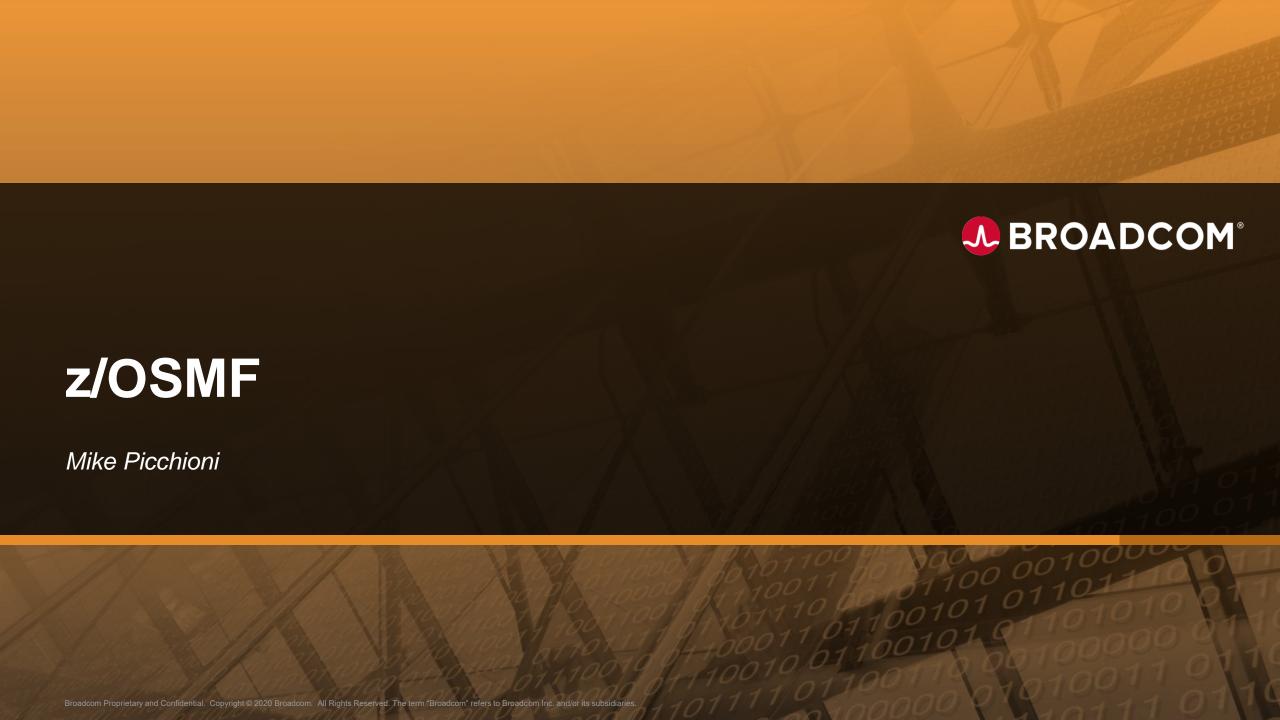
- Execute DCMT commands

- Return DC Log Record Data

- Return data for IDMS Systems running on an LPAR

- Return data for Active User Tasks

- Buffer I/O Summary

- Storage Pool Overview & Detail

- LTERM Resource Usage Summary

- Task and Program Pool Overview

- SQL Overview

- Journal Detail

- System Run Unit Summary

- Active SQL Detail

- Communication Line Detail

- Database Overview

- Transaction Overview

- Program Pool Detail

- Buffer File Detail

- Active System Task Detail

- Transaction Detail

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IDMS API Architecture

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z/OSMF

Mike Picchioni

CA Database z/OSMF Installation Workflows

Partially Delivered

Use Case:
As a CA Database DBA or Systems Programmer, I want the ability to streamline and simplify installation, upgrades and configuration using z/OSMF standards improving ease-of-use and productivity

Open

✓ *Early* adoption of new industry standard tool for software installation and maintenance

✓ System Programmer efficiency through common toolset

✓ Basis for common maintenance application methodology

Bottom Line:
Move CA Databases to z/OSMF standard so you can more easily manage day-to-day operations and administration.

z/OSMF provides:

- Framework for CA Database systems installs, maintenance, and upgrades via web browser interface
- Single point of control
- Manage systems from anywhere

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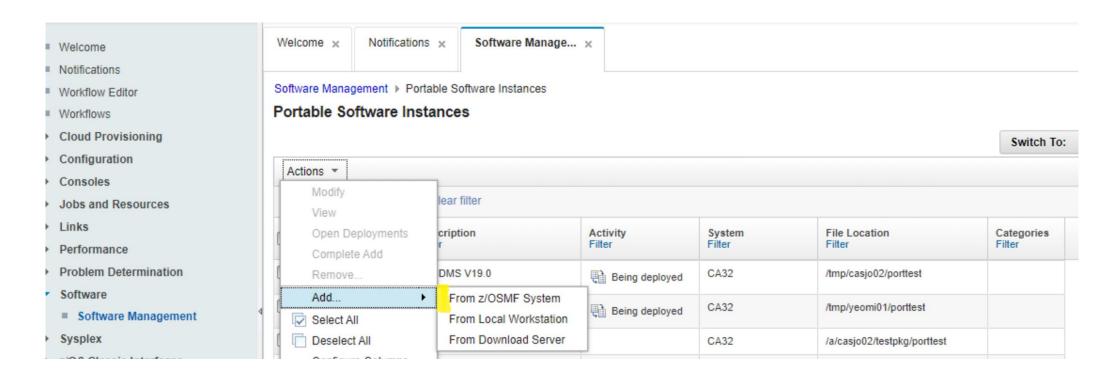**BROADCOM**®

Installing with z/OSMF

- z/OSMF uses Portable Packages to install software
  - Equivalent to a PAX file

- IDMS is delivering a Portable Package
  - Will be available from the Broadcom Support Page, IDMS.V19R0.ZOSMF.ZOSMF.pax.Z
  - Contains all published maintenance up to November 3rd, 2020

- Installing a portable package with z/OSMF consists of three main steps, Acquisition and Deployment
  - Acquisition – Adding the Portable Package into z/OSMF
  - Deployment – Creating an SMP/E environment from the Portable Package
  - Post-Deployment Workflows – Performing any necessary workflows provided by the product
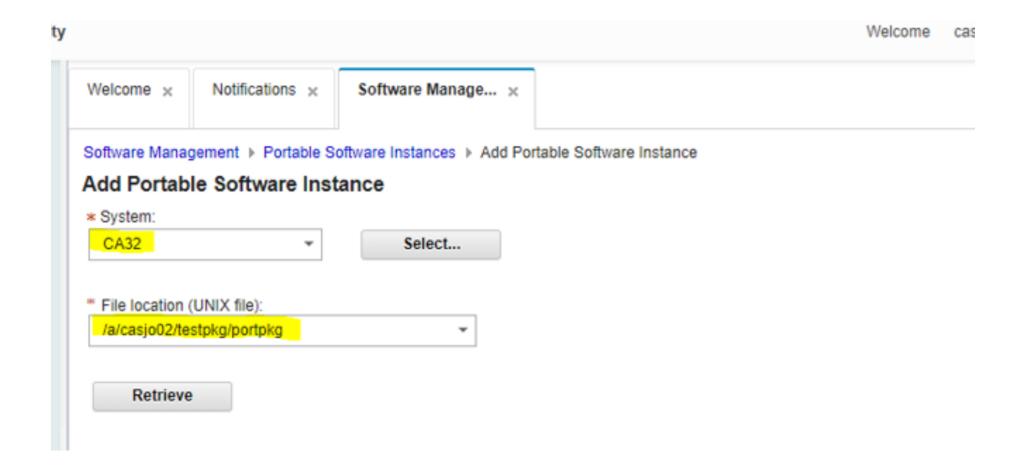
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Installing with z/OSMF

- z/OSMF homescreen

Installing with z/OSMF

- First step is 'Acquisition'.

- Software Management -> Portable Package Instances

Installing with z/OSMF

Installing with z/OSMF

Installing with z/OSMF

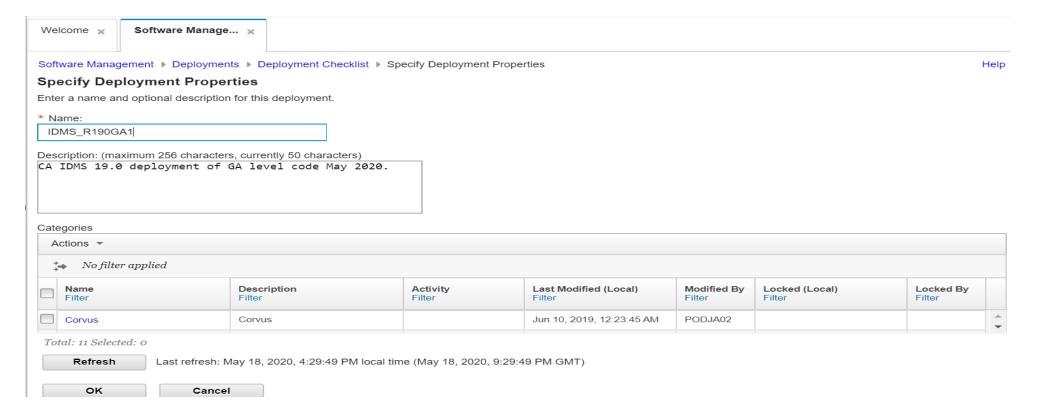- Deployment

Installing with z/OSMF

Installing with z/OSMF

Software Management ▶ Deployments ▶ Deployment Checklist ▶ Select Deployment Objective

Select Deployment Objective

This deployment creates a copy of the source software. The resulting copy is referred to as the target software instance. Indicate whether you want the target instanc

Objective:

◉ Create a new software instance and connect it to the following global zone CSI. Learn more...

　　◉ A new global zone CSI

　　○ Another existing global zone CSI

○ Replace an existing software instance, and connect the new instance to the existing instance's global zone CSI. Learn more...

Select the system where the target software instance will reside.

＊ Target system:

| CA32 | ▼ |

[Select...]

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Installing with z/OSMF

Configure Deployment for PICMI03_R190TEST

Welcome ✔
DLIBs ✔
Model ✔
SMP/E Zones ✔
Data Sets ➡
Catalogs
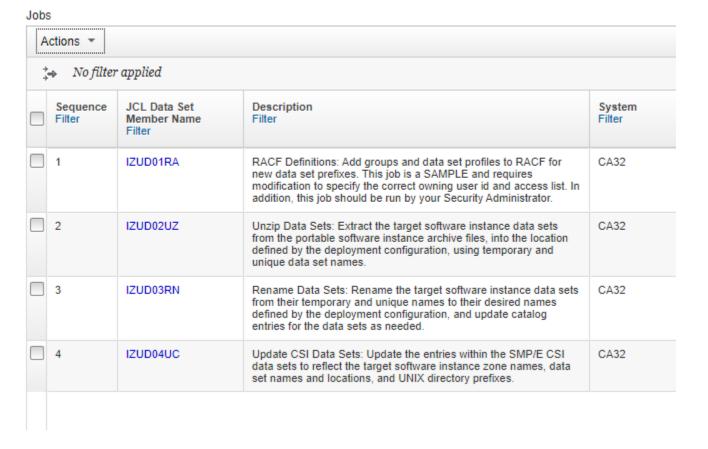Volumes and Storage Classes

Data Sets

The Data Sets table lists the names, volumes, and storage classes that will be used for the data sets included in the target software instance. Accept the default nam...

Data Sets

Actions ▾

No filter applied

☑	Target Data Set Name Filter	Target Volume Filter	Target Storage Class Filter	Data Set Category Filter	Data Set Type Filter	Tracks Filter	Messag Filter
☑	PICM0I3.PORTTEST.AAGJCULP		SCMSPS	Dlib	PDS	14	
☑	PICM0I3.PORTTEST.AAGJDATV		SCMSPS	Dlib	PDS	2100	
☑	PICM0I3.PORTTEST.AAGJMAC		SCMSPS	Dlib	PDS	510	
☑	PICM0I3.PORTTEST.AAGJMOD		SCMSPS	Dlib	PDS	1500	
☑	PICM0I3.PORTTEST.AAGJMSG		SCMSPS	Dlib	PDS	2	
☑	PICM0I3.PORTTEST.AAGJSAMP		SCMSPS	Dlib	PDS	120	
☑	PICM0I3.PORTTEST.AAGJSASO		SCMSPS	Dlib	PDS	90	
☑	PICM0I3.PORTTEST.AAGJSKEL		SCMSPS	Dlib	PDS	47	
☑	PICM0I3.PORTTEST.AAGJSRC		SCMSPS	Dlib	PDS	975	
☑	PICM0I3.PORTTEST.AAGJXML		SCMSPS	Dlib	PDS	555	

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Installing with z/OSMF

- Next step is to run the deployment jobs

- IZUD01RA – Creates RACF definitions

- IZUD02UZ – Unzip Datasets

- IZUD03NR – Rename datasets

- IZUD04UC – Update CSI datasets

Jobs

Actions ▾

⇥ *No filter applied*

	Sequence Filter	JCL Data Set Member Name Filter	Description Filter	System Filter
☐	1	IZUD01RA	RACF Definitions: Add groups and data set profiles to RACF for new data set prefixes. This job is a SAMPLE and requires modification to specify the correct owning user id and access list. In addition, this job should be run by your Security Administrator.	CA32
☐	2	IZUD02UZ	Unzip Data Sets: Extract the target software instance data sets from the portable software instance archive files, into the location defined by the deployment configuration, using temporary and unique data set names.	CA32
☐	3	IZUD03RN	Rename Data Sets: Rename the target software instance data sets from their temporary and unique names to their desired names defined by the deployment configuration, and update catalog entries for the data sets as needed.	CA32
☐	4	IZUD04UC	Update CSI Data Sets: Update the entries within the SMP/E CSI data sets to reflect the target software instance zone names, data set names and locations, and UNIX directory prefixes.	CA32

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Installing with z/OSMF

- Once the deployment jobs have run you will have a new IDMS 19.0 SMP/E environment.

- Next step is to perform the necessary workflow

Software Management ▸ Deployments ▸ Deployment Checklist ▸ Perform Workflows

Perform Workflows

It is recommended that you open and complete all the workflows in sequential order before you proceed to the next :

Workflow Definition Files

Actions ▾

⤳→ *No filter applied*

	Sequence Filter	Name Filter	Description Filter	Messages Filter	Status Filter
☐	1	CA IDMS V19.0- Post SMPE workflow	Post SMPE Workflow		
☐	2	IDMS Add on product install	IDMS Add on product install		
☐	3	IDMS Base product install	IDMS Base product install		
☐	4	IDMS Upgrade product to new release	IDMS Upgrade product to new release		

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Installing with z/OSMF

- The next step is to perform any workflows. IDMS delivers 3 workflows for configuring an IDMS CV
  - AGJ190AX – Addon Configuration
  - AGJ190BX – Base Configuration
  - AGJ190UX – Upgrade Configuration

- These workflows are delivered in the PRODXML SMP/E dataset

- You can perform workflow separately from a deployment
  - From the z/OSMF homescreen go to the 'Workflow' section and point to the desired workflow in PRODXML

- Use the same variables as CAISAG and CSM

- Use the same 18 JCL jobs as CAISAG

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Configuring IDMS with z/OSMF

- Configuration is divided into steps

- Steps are performed in order, future steps become available to run as steps are completed

- The first portion of steps are for defining variables
  - Does not submit any JCL
  - Each variable has validation criteria to prevent invalid values

- The last 19 steps are equivalent to JOBS00-JOB18 in CAISAG
  - Generated JCL is displayed
  - Can be edited before submitting or saving to a dataset

- Steps that do not need to be performed are marked as Skipped

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Configuring IDMS with z/OSMF

Workflow Steps

Actions ▾

No filter applied

	State Filter	No. Filter	Title Filter	CalledWorkflow Filter
☐	➡ Ready	1	▪ Workflow Overview	
☐	✔ Complete	2	▪ Select Products to configure	
☐	✔ Complete	3	▪ Define Global Variables	
☐	✔ Complete	4	▪ Define Additional Variables	
☐	✔ Skipped	5	▪ Define IDMS SQL Variables	
☐	✔ Complete	6	▪ Define Employee Demo Database Variables	
☐	✔ Skipped	7	▪ Define SQL Demo Database Variables	
☐	✔ Skipped	8	▪ Define ASF Variables	

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Configuring IDMS with z/OSMF

📄 Notes | History

▶ Workflow Details

Workflow Steps

| Actions ▾ | | | | | | | | Search |

⤸ *No filter applied*

	State Filter	No. Filter	Title Filter	CalledWorkflow Filter	Automated Filter	Owner Filter	Skill Category Filter	Assignees Filter	Feedback status Filter
☐	✔ Skipped	24	▪ Define IDMS Online Log Display Variables		Yes	picmi03	z/OS System Programmer	picmi03	noFeedback
☐	✔ Skipped	25	▪ Define IDMS SASO Variables		Yes	picmi03	z/OS System Programmer	picmi03	noFeedback
☐	✔ Skipped	26	▪ Define Endevor DB for CA IDMS Variables		Yes	picmi03	z/OS System Programmer	picmi03	noFeedback
☐	✔ Complete	27	▪ JOB00 - Information about the Selected Configuration		Yes	picmi03	z/OS System Programmer	picmi03	noFeedback
☑	➡ Ready	28	▪ JOB01 - Allocate Configuration Libraries		Yes	picmi03	z/OS System Programmer	picmi03	noFeedback
☐	❖ Not Ready	29	▪ JOB02 - Create Custom Source and Link Members		Yes	picmi03	z/OS System Programmer	picmi03	noFeedback
☐	❖ Not Ready	30	▪ JOB03 - Create Custom Load Modules		Yes	picmi03	z/OS System Programmer	picmi03	noFeedback
☐	❖ Not Ready	31	▪ JOB04 - Install the IDMS SVC		Yes	picmi03	z/OS System Programmer	picmi03	noFeedback
☐	❖ Not Ready	32	▪ JOB05 - Allocate Database Files		Yes	picmi03	z/OS System Programmer	picmi03	noFeedback

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Configuring IDMS with z/OSMF

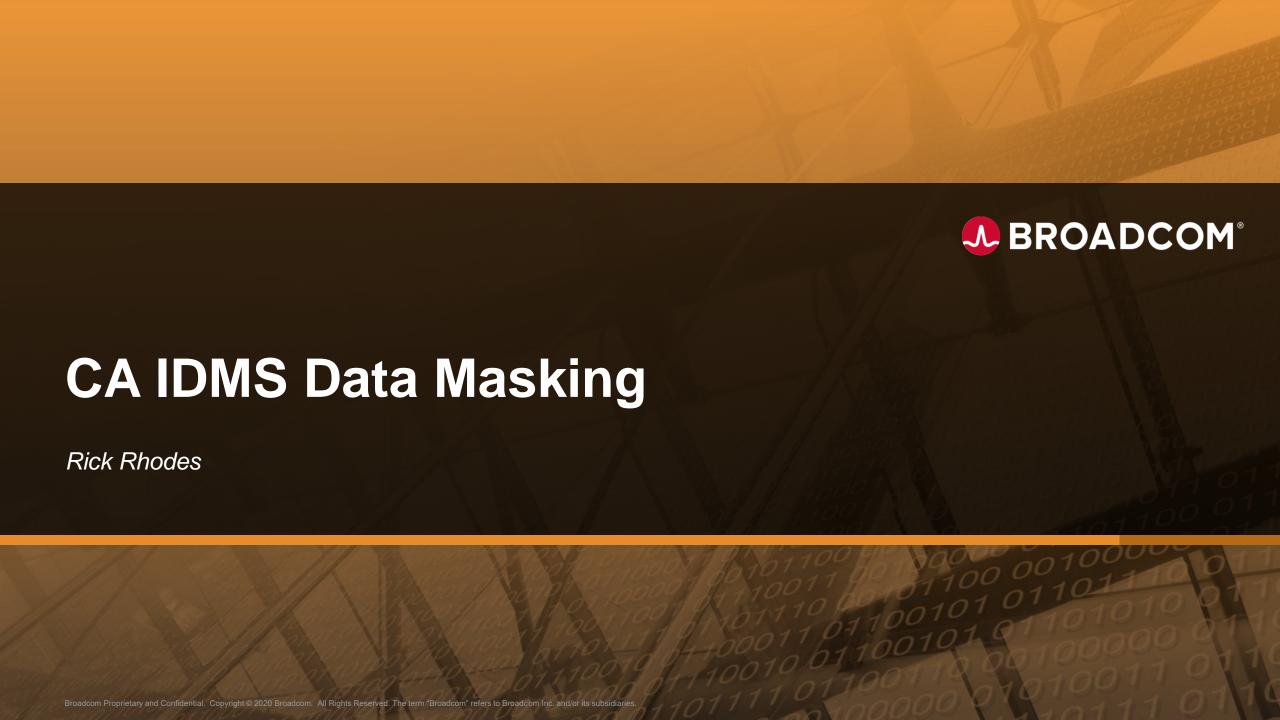# Configuring IDMS with z/OSMF

✔ Review Instructions

✔ Create JOB statement

➡ **Review JCL**

   Submit and Save JCL

Review JCL

Review the generated JCL, then click **Next** to proceed. Optionally, you can edit the JCL. To do so, click the **Edit JCL** bu

```
//IZUWFJB JOB (111200000),CLASS=D,MSGCLASS=X,
//             MSGLEVEL=(1,1),REGION=0M,NOTIFY=PICMI03
/*JOBPARM SYSAFF=CA32
//          JCLLIB ORDER=MEN.C1300.TECHDBAS.CUSTOM.JCLLIB
//*-----------------------------------------------*
//*   COPY CURRENT DMCL AND DBTB TO NEW NAMES     *
//*-----------------------------------------------*
//SAVDMDB1 EXEC PGM=IEBCOPY,COND=(0,LT)
//*    EXPECTED RETURN CODE:  00
//SYSPRINT DD SYSOUT=*
//SYSUT3   DD UNIT=SYSDA,SPACE=(TRK,(1))
//SYSUT4   DD UNIT=SYSDA,SPACE=(TRK,(1))
//IN       DD DISP=SHR,DSN=MEN.C1300.TECHDBAS.V190.DBA.LOADLIB
//OUT      DD DISP=(NEW,PASS),DSN=&&SAVELIB,
//            UNIT=SYSDA,SPACE=(TRK,(5,1,2)),
//            DCB=(RECFM=U,BLKSIZE=32760)
```

[Edit JCL]   Maximum record length: ⓘ   [80]

[< Back]   [Next >]   [Save]   [Finish]   [Cancel]

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CA IDMS Data Masking

Rick Rhodes

CA IDMS MAP Field Masking

Use Case:
As a CA IDMS MAP developer, I need the ability to quickly and easily mask MAP field data in runtime displays to protect sensitive information.

Open

✓ Allows use of a masking character in MAP field external pictures

✓ No application coding necessary to hide sensitive data in a map display

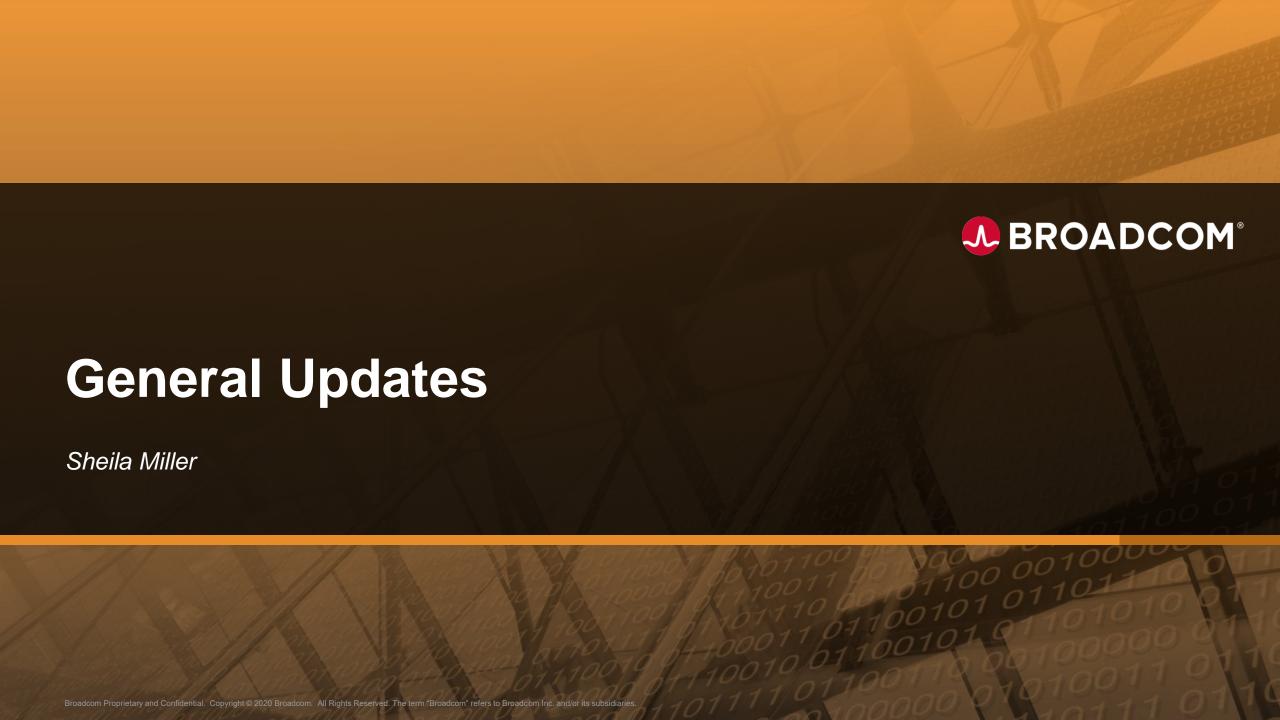✓ Applying or modifying a field masking pattern becomes a simpler task

Bottom Line:
Simplify the effort required to protect sensitive information in MAP field displays

CA IDMS Map Field Masking

- Can be used with alphabetic, alphanumeric and numeric fields
- An 'M' can be substituted for an 'A', 'X' or '9' in an external picture
- An asterisk will be placed in external picture locations where an 'M' is used.

Internal Picture	External Picture	Resulting Field Display
9(10)	M(3)-MMM-9(4)	***-***-7890

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General Updates

Sheila Miller

TechDocs – CA IDMS New Features Enhancement List

LINK

Are You Participating?

CA Communities Ideation

- Submit your ideas on communities.broadcom.com

- Vote and 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 Review meetings
  - Private - Members Only - Online Community
  - Pre-Complete Release Feature Testing and Support
  - Upgrade Support From SWAT Team

- How to register: validate.broadcom.com

Please Note: Broadcom systems migration effort requires that all members register on the new platform CA IDMS IUA EIUA

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CA IDMS Performance Data for New Support in MOI Needed!

- Interlocked with the CA Mainframe Operational Intelligence (MOI) product team to extend its operational analytics and performance management to CA IDMS SMF performance monitor data

- In need of real-world data: 2-3 weeks of sample CA IDMS SMF data, which the CA MOI team will use to validate its analytic algorithms and insights generated.

- Additionally, for those willing to provide even more data, 4-6 weeks, we will playback (demo) CA MOI to you using your ingested data *(hosted on a Broadcom server)*, so that you get to see its value more directly.

- Data can be from either the Interval Monitor, Application Monitor, or both. The default SMF record type for all of this data is SMF record type 230 or whatever record type was specified in your site specific #PMOPT macro.

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Poll: Are you willing to participate in Customer Validation?

- CA IDMS REST API Initiatives

- MOI and IDMS Integration

- General participation – ongoing

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CA IDMS REST API – Published Whitepaper

CA IDMS IUA Communities

White Paper

How CA IDMS™ DBAs Leverage Open Source and APIs for Monitoring

Introducing the CA IDMS REST API

The CA IDMS™ Representational State Transfer (REST) Application Programming Interface (API) provides database administrators (DBAs) the ability to quickly and easily access data to analyze system issues, automate processes and alerts to create intelligent recommendations for tuning. By leveraging the CA IDMS REST API modern tooling can be used, offering flexibility of choice for users to work in familiar environments. The data from a REST invocation is returned in JavaScript Object Notation (JSON) which is simple to consume and parse with modern programming languages. This white paper will outline the importance of APIs, share insights on how the CA IDMS REST API can be used, along with real-world examples and benefits.

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Events

- **Webcast:** CA IDMS Product Roadmap
  - January 13, 2021 from 11:00 AM – 12:00 PM (ET)

- **Webcast Reply***:* [CA IDMS New Feature Update: MQ Adaptor, Sysgen Enhancements and More](#)
  - May 6, 2020

- **Webcast Replay:** [CA IDMS REST Performance API Overview & Demo](#)
  - June 3, 2020

- **Conference: CA IDMS/IUA Technical Conference 2021**
  - Stay Tuned – More to come…

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CA IDMS Education: Web-based Training (WBT)

[Mainframe Education](#) – Learning Management System

- **CA IDMS Web Services Release 19.x: Introduction 100** (Course Code: 06IDM10050)

- **CA IDMS/DB: New DBA Fundamentals 200 Bundle** (Course Code: 06IDM2053B)

- **CA IDMS/DB Database Version 19.x: Database Navigation 200 Bundle** (Course Code: 06IDM2052B)

- **SQL and Web Connectivity for IDMS and Datacom** (Course Code: 06IDM20290)

- **CA IDMS™ Version 19.0: Implementation and Use of Generic VTAM Resources with Parallel Sysplex Features** (Course Code: 06IDM10060)

- **CA IDMS™ Version 19.0: Web Services for Modernization** (Course Code: 06IDM20490)

- **CA IDMS™ Version 19.0: SQL Enhancements for Modernization** (Course Code: 06IDM20500)

- **CA IDMS™ REST API**: APIs and Integration Using Open Source Monitoring Tools 200 (Course Code: 06IDM20540)

Web-based Training (No cost with Active Maintenance

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CA IDMS Education: Instructor-led Training (ILT)

[Contact Education Team](#) – Fee-based

- *CA IDMS Version 19.x: New DBA Foundations 200* (Course Code: 06IDM20311) (32 hours)

- *CA IDMS/DB Database Version 19.x: Database Navigation 200* (Course Code: 06IDM20361) (24 hours)

- *CA ADS Version 19.x: Application Development 200* (Course Code: 06IDM20341) (40 hours)

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Introducing Broadcom Digital Badges

- Credly Digital Badging Platform
  - ➤ Broadcom Page

- CA IDMS
  - Database Navigation and Fundamentals

Questions

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Thank You