CA's Mainframe 2.0:

Simplifying the Installation, Deployment, and Configuration of CA Products on z/OS

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abstract

In this session you will learn how, even with little or no mainframe experience, you can quickly automate and streamline your CA Technologies product acquisition, installation, deployment and maintenance with CA Mainframe Software Manager™ (CA MSM), a major component of CA Technologies Mainframe 2.0 strategy.

The speaker will demonstrate this amazing technology innovation that can help you get more from your mainframe investments and quickly deliver value through an enhanced customer experience.



agenda

- CA MSM Overview
- Proof Points
- Recent key deliverables
- Demonstration
- Looking Ahead to 2011
- Q&A



CA MSM Overview



mainframe software management the journey

- Aggressive three-year journey to deliver on our promises and the virtues of the platform
- Delivering a new CA mainframe software management experience
- Delivering a CA Mainframe Stack

CA MSM r2.0 Product Acquisition and Software

- Installation Services
 Health Checks
- Best Practice Guides
- The CA Mainframe Stack

2010

- CA MSM r3.0
- Software Deployment Service
- Service Enablement
- More Health Checks
- Integrated System Testing
- IVPs and EVPs

2011

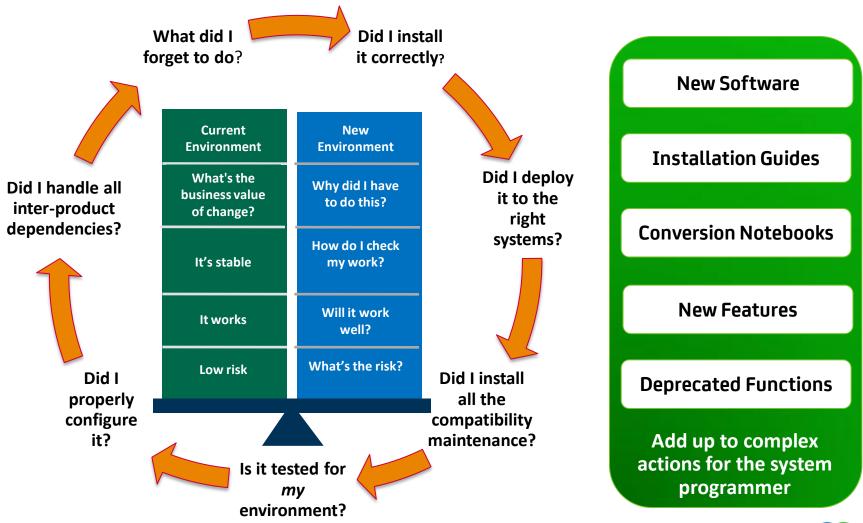
- CA MSM r4.0
- Software Configuration Service
- ServiceabilityFeatures
- More Health Checks

Continued Innovation, New Products, Technology Exploitation



5

install, deploy, configure and maintain





reducing complexity = improved QoS

Reducing choice:

- Enables the product to better enforce "best practices" for product installation and configuration
- Reduces the likelihood of a systems programmer making an error or misinterpreting instructions

■ Enabling a product (or providing a structure) to handle activities normally tackled by system programmers eliminates errors and automates the enforcement of standards

Both sides of the equation improve the experience of the platform

Both are crucial to reduce the skills requirement while not compromising the strengths of the z/OS platform



technology delivered in 2010

Promises made

Simplification through Automation

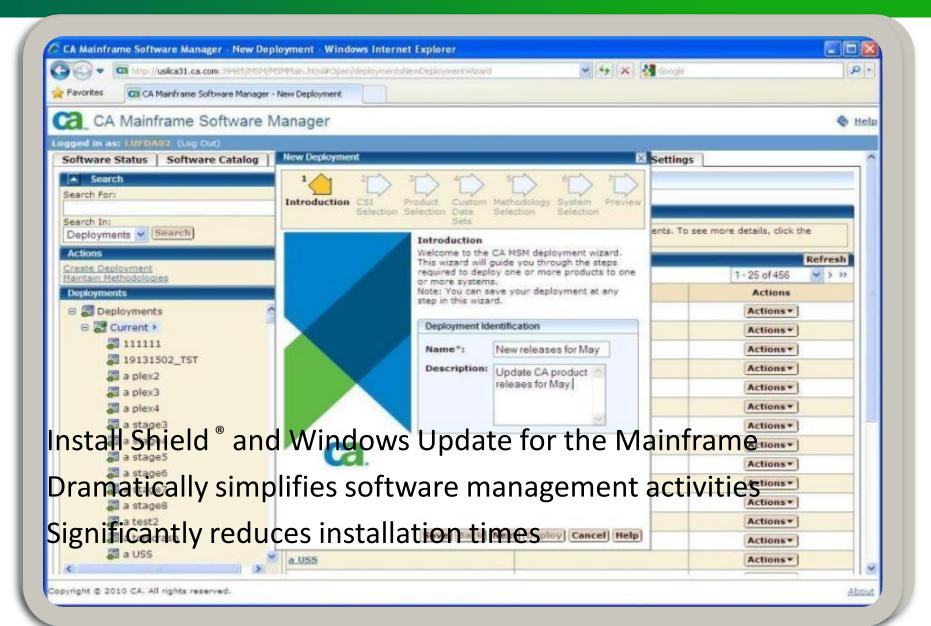
Promises kept

Mainframe Software Management

CA Mainframe Software Manager (MSM)									
Web UI	Electronic Software Delivery (ESD)	Standardized SMP/E Installation	Product Acquisition Service	Software Installation Service	Software Deployment Service	Software Configuration Service (2011)			
	CA Mainframe Stack								
	Best Practices Guides								
		Interope	rability Cer	tification					
	Health Checker Integration								
	Mainframe Integrated System Test								
CA Recommended Service									



simplify management: CA Mainframe Software Manager (CA MSM)

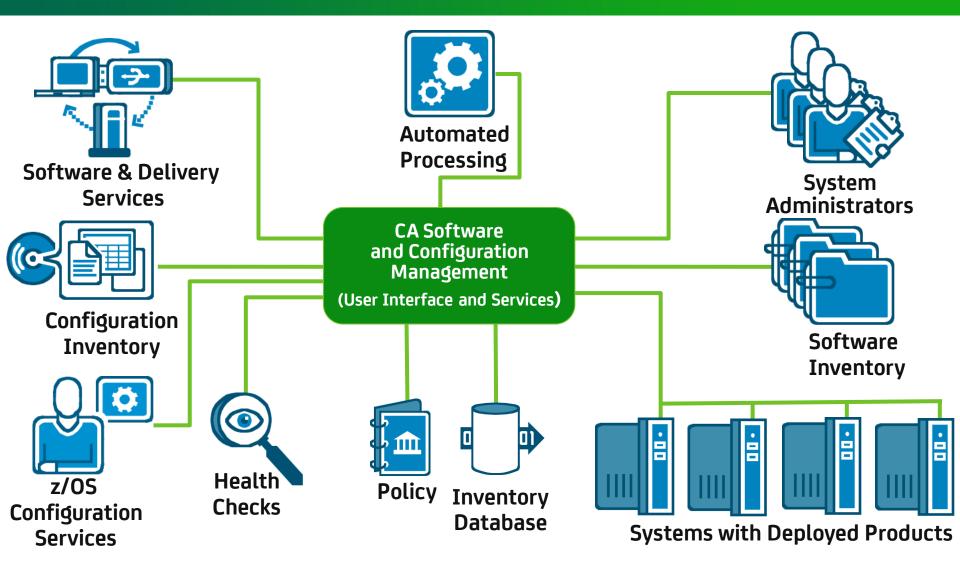


what does CA MSM do?

- Downloads software products and service from CA Support Online
 - Includes other artifacts (e.g. PDFs, letters, etc.)
- Creates CSIs
- Evaluates and installs software into CSIs
- Evaluates and installs maintenance into CSIs
- Adds "External Maintenance"
 - e.g. ++APARs, ++USERMODS
- Installs "External Package"
 - e.g. Beta products, other vendor products
- Migrates existing CSIs
- Maintains relationships between products and CSIs



CA MSM architecture





CA MSM proof points



CA MSM time savings – installation

Time to	Install	4 N	Mainframe	Δn	nlications
THILE LO	III3tatt	TO	Mannanie	ΛP	pucacions

	Main	frame Expert In	ıstall	Mainframe Novice Install			
Product	Traditional	With CA MSM	Improve- ment	Traditional	With CA MSM	Improve- ment	
CA 1® Tape Management	36 min	9 min	4X	3 hrs 12 min	14 min	14X	
CA Auditor for z/OS	26 min	7 min	4X	2 hrs 22 min	8 min	18X	
CA Datacom®	1hr 14 min	6 min	12X	3 hrs 8 min	10 min	19X	
CA JARS Resource Accounting	37 min	5 min	7X	1 hr 11 min	6 min	12X	
CA Librarian®	28 min	2 min	14X	1 hr 13 min	6 min	12X	
CA MIM™ Resource Sharing	30 min	5 min	6X	1 hr 31 min	5 min	18X	
CA OPS/MVS® Event Management and Automation	36 min	6 min	6X	1 hr 50 min	7 min	16X	
CA Panvalet®	54 min	3 min	18X	1 hr 11 min	5 min	14X	
CA SMF Director	40 min	5 min	8X	1 hr 10 min	6 min	12X	
CA SymDump® for CICS	38 min	3 min	12X	4 hrs 3 min	6 min	40X	
<u>Totals</u>	<u>6 hrs 39 min</u>	<u>51 min</u>	<u>8X</u>	<u>20 hrs 51 min</u>	<u>73 min</u>	<u>17X</u>	

87% productivity gains for mainframe experts and 94% for novices! **

Source: CA Technologies Lab Results



CA MSM time savings – maintenance

Time to instail <u>iviaintenance</u> for 7 iviainframe Applications									
	Number	Mainf	rame Expert Insta	II	Mainframe Novice Install				
Product	of Fixes	Traditional	With CA MSM	Improve -ment	Traditional	With CA MSM	Improve -ment		
CA Auditor for z/OS	14	23 min	1 min 22 sec	17X	41 min	1 min 30 sec	27X		
CA Cleanup for CA ACF2™	1	6 min	38 sec	10X	33 min	1 min 13 sec	27X		
CA Easytrieve®	9	24 min	1 min 24 sec	17X	60 min	1 min 59 sec	31X		
CA Endevor® Software Change Manager	19	32 min	5 min 5 sec	7X	46 min	10 min 2 sec	5X		
CA Librarian®	15	45 min	1 min 58 sec	23X	38 min	2 min 55 sec	13X		

Time to Install Maintenance for 7 Mainframe Applications

93% productivity gains for mainframe experts and 94% for novices! **

17X

18X

14X

1 min 39 sec

1 min 48 sec

13 min 54 sec

Source: CA Technologies Lab Results

2 min 25 sec

1 min 39 sec

21 min 43 sec

62 min

37 min

5 hrs 17 min



26X

22X

15X

27 min

32 min

3 hrs 09 min

12

CA Panyalet®

CA View®

Totals

CA MSM time savings – deployment

Time to <u>Deploy</u> 10 Mainframe Applications									
	To A Sin	gle Remote Syste	m	To Six Remote Systems					
Product	Traditional	With CA MSM	Improve- ment	Traditional	With CA MSM	Improve- ment			
CA 1 Tape Management	55 min	2 min 9 sec	25X	2 hr 30 min	5 min 45 sec	26X			
CA 11™ Workload Automation	45 min	1 min 56 sec	23X	1 hr 45 min	3 min 32 sec	30X			
CA Cleanup for CA ACF2	39 min	1 min 52 sec	21X	1 hr 22 min	3 min 22 sec	24X			
CA Copycat	37 min	2 min 1 sec	18X	1 hr 20 min	3 min 15 sec	25X			
CA Deliver™	36 min	2 min 17 sec	16X	1 hr 17 min	5 min 36 sec	14X			
CA Endevor SCM	55 min	3 min 19 sec	17X	2 hr 10 min	11 min 24 sec	11X			
CA NetMaster® Suite	1 hr 15 min	6 min 5 sec	12X	3 hr 20 min	21 min 58 sec	9X			
CA SYSVIEW® Performance Management	1 hr 40 min	4 min 16 sec	23X	5 hr 10 min	13 min 42 sec	22X			
CA TPX	43 min	3 min 41 sec	12X	1 hr 10 min	11 min 1 sec	6X			
CA View	58 min	6 min 19 sec	9X	2 hr 40 min	13 min 55 sec	12X			
<u>Totals</u>	<u>9 hrs 3 min</u>	<u>33 min 55 sec</u>	<u> 16X</u>	22 hr 44 min	<u>93 min 30 sec</u>	<u>15X</u>			

93% productivity increase using CA MSM for Deployment! **

Source: CA Technologies Lab Results



recent key deliverables

recent key deliverables

- Software Deployment Service (SDS)
 - Deploy CA Technologies products for z/OS across systems in your enterprise via a Web based UI

- Support for CA Recommended Service (CA RS)
 - Recommended way to maintain CA products using CA MSM
 - Preventative and timely maintenance visible and downloadable via CA MSM



CA MSM r3.1

key features

Support for CA Recommended Service (CA RS)

Web Services for the CA MSM Product Acquisition Service (PAS)

Improved Download and
Dynamic Display of CA
Technologies Product
Information Based on Site ID

Improved Processing of SMP/E
Hold Data

- Recommended way to maintain CA z/OS products using CA MSM
- Preventative and timely maintenance visible and downloadable via CA MSM
- Web service interface to support.ca.com
- Improve the performance and usability of CA z/OS product acquisition
- Filter and view licensed products details for all site IDs
- No separate login needed to CA Support Online

- Simplifies error hold processing
- View contents of hold data associated with a PTF



What is CA RS?

 CA RS provides recommendation of IST-verified preventative maintenance across the entire CA Mainframe Stack

 Provides a way to manage risk while keeping your software environment up to date

Patterned after IBM's Recommended Service Upgrades (RSU)

CA Recommended Service works the same way!



CA MSM r3.1

key features

View CA MSM-Deployed PTFs to All Systems in Your Environment

Access to Product
Documentation from Within the
CA MSM User Interface

Access to Test Fixes and Beta Products

New Logging Option Through the CA MSM Task Manager

- Easily visualize deployed PTFs
- Provides a direct link to product documentation located on CA Support Online
- Reduces effort spent manually accessing test fixes and Beta versions outside of CA MSM
- Flexibility in managing test fixes and Beta versions in addition to the products you already manage
- Quickly identify and resolve problems
- Generate troubleshooting log without shutting down the Tomcat Application server region



CA MSM r3.1

key features

New CA MSM Messages Guide

Updated CA MSM Best Practices Guide

CA MSM r2.0 and CA MSM r3.0 Migration to CA MSM r3.1

- Reduce time-intensive investigations
- Easily understand error messages and mitigations
- Accelerate time to value
- Gain insight and learn timesaving hints and tips from CA
 MSM practitioners
- Simplifies migration
- Quickly adopt new CA MSM features and experience benefits in your environment



CA MSM demonstration



Looking ahead to CA MSM r4.0

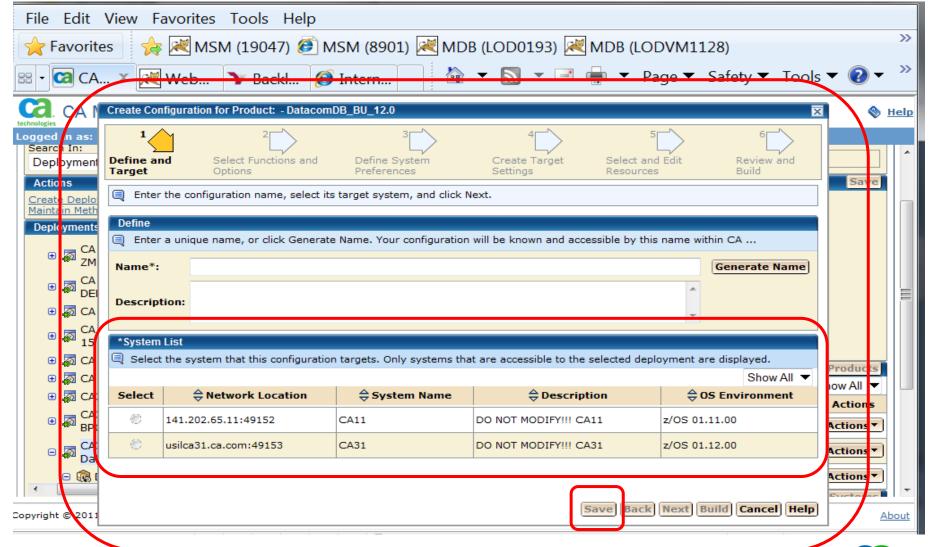


CA MSM r4.0 planned features

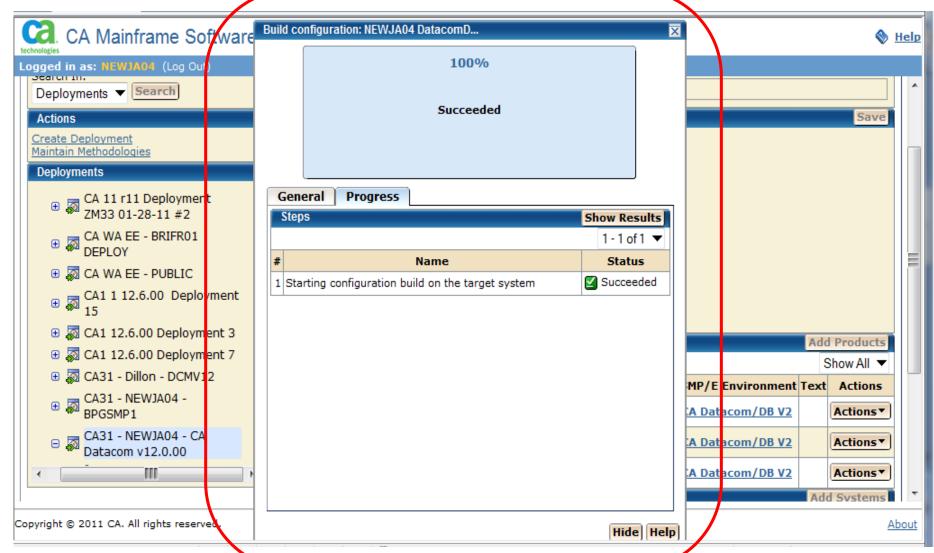
- Software Configuration Service
 - Easily configure CA Technologies products that have been acquired, installed and deployed using CA MSM
- Usability enhancements
 - Enhance the underlying CA MSM infrastructure and usability
- Standardized packaging
 - Adhere to CA Technologies standards for the packaging of all mainframe products to achieve a "common look" and improve installation experience
- Best Practices Guide
 - Updated to reflect new features and expanded field insight
- Continue to respond to customer requirements



Configuration - Build

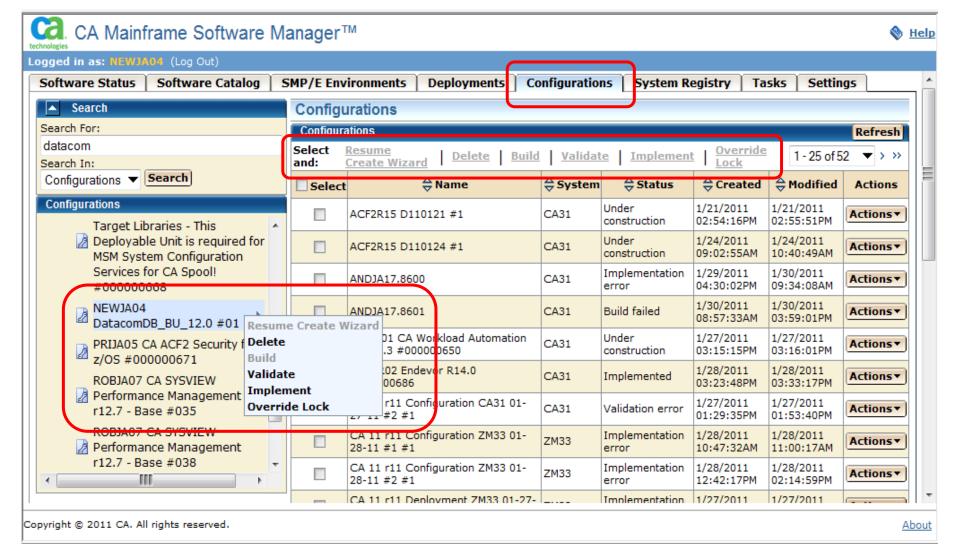


CA MSM v4.0 Configuration - Build

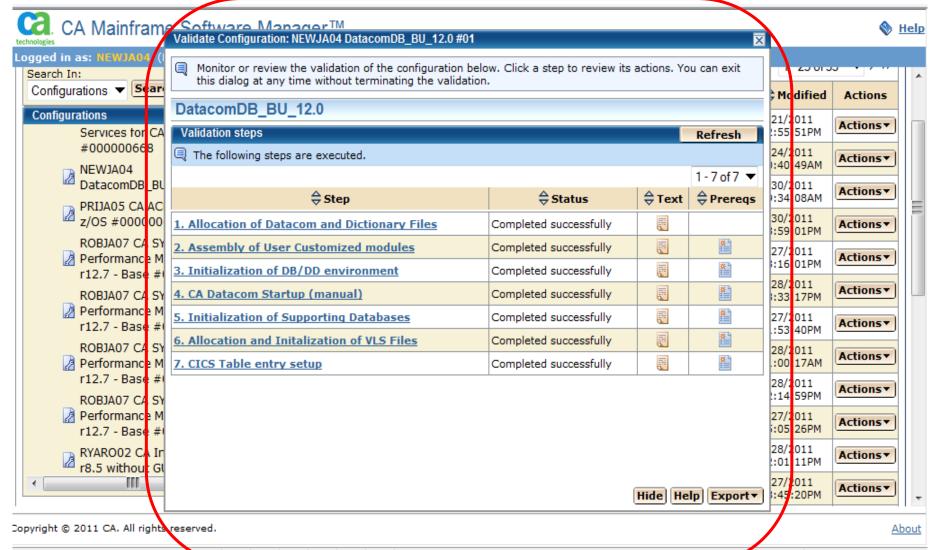




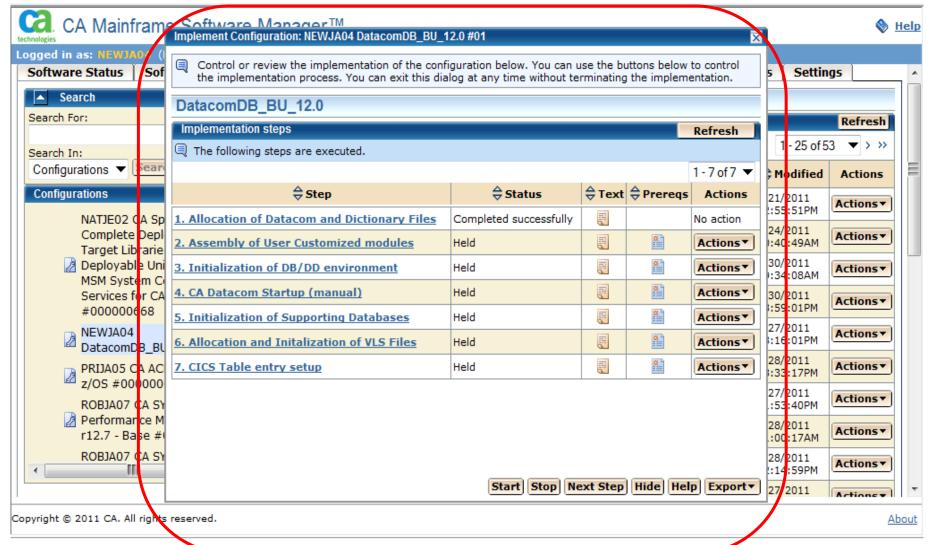
CA MSM v4.0 Configuration



Configuration - Validate



Configuration - Implement



Task Manager

technologies	CA N	/lain	frame Software Manager™						<u> </u>	Helj
Logged i	n as: I	VEW	A04 (Log Out)							
	NEW	/3/404	Validation - ZM33 - NEWJA04 CA File Master Plus (SCS Demo) #01	Implementation Task	■ Failed	1/28/2011 12:03:15PM		Impl-1457- 751	Delete Task	1
	NEW	JA04	<u>Build configuration: ZM33 - NEWJA04 CA File</u> <u>Master Plus (SCS Demo) #01</u>	Config Task	Succeeded	1/28/2011 11:59:47AM	1/28/2011 12:00:17PM	6260	Delete Task	
	NEW	JA04	Deploy: ZM33 - NEWJA04 - BPGSMP1	Deployment	Succeeded	1/28/2011 11:42:58AM	1/28/2011 11:46:14AM	6253	Delete Task	
	NEW	JA04	Delete the deployment: ZM33 - NEWJA04 - BPGSMP1	Deployment	Succeeded	1/28/2011 11:39:06AM	1/28/2011 11:39:24AM	6249	Delete Task	
	NEW	JA04	Deploy: ZM33 - NEWJA04 - BPGSMP1	Deployment	Succeeded	1/28/2011 11:20:43AM	1/28/2011 11:25:32AM	6234	Delete Task	
	NEW	JA04	Delete the deployment: ZM33 - NEWJA04 - BPGSMP1	Deployment	Succeeded	1/28/2011 11:11:08AM	1/28/2011 11:11:40AM	6229	Delete Task	
	NEW	JA04	Delete configuration(s)	Config Task	✓ Succeeded	1/28/2011 11:10:02AM	1/28/2011 11:10:15AM	6228	Delete Task	
	NEW	JA04	Deploy: ZM33 - NEWJA04 - BPGSMP1	Deployment	Succeeded	1/28/2011 05:40:57AM	1/28/2011 05:43:50AM	6117	Delete Task	
	NEW	JA04	Implementation - CA31 - NEWJA04 CA File Master (SCS Demo) #02	Implementation Task	✓ Succeeded	1/27/2011 09:06:58PM		Impl-1430- 723	Delete Task	
	NEW	JA04	Build configuration: CA31 - NEWJA04 CA File Master (SCS Demo) #02	Config Task	Succeeded	1/27/2011 09:05:41PM	1/27/2011 09:06:01PM	6109	Delete Task	
	NEW	JA04	Implementation - CA31 - NEWJA04 CA File Master (SCS Demo) #01	Implementation Task	✓ Succeeded	1/27/2011 08:45:19PM		Impl-1429- 722	Delete Task	
	NEW	1A04	Build configuration: CA31 - NEWJA04 CA File Master (SCS Demo) #01	Config Task	Succeeded	1/27/2011 08:41:37PM	1/27/2011 08:41:47PM	6101	Delete Task	
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Summary of CA MSM



mainframe software management overview

Promises made

Simplification through Automation

Promises kept

Mainframe Software Management

CA Mainframe Software Manager (CA MSM)									
Web UI	Electronic Software Delivery (ESD)	Standardized SMP/E Installation	Product Acquisition Service	Software Installation Service	Software Deployment Service	Software Configuration Service			
	CA Mainframe Stack								
	Best Practices Guides								
		Interope	rability Cer	tification					
	Health Checker Integration								
Mainframe Integrated System Test									
	CA Recommended Service								



Summary of CA MSM



Provides a familiar
Web-based operating
environment for
software management
activities



Drastically reduces the human intervention required to take a product from delivery to execution



Standardizes the acquisition and management of CA Technologies software for z/OS



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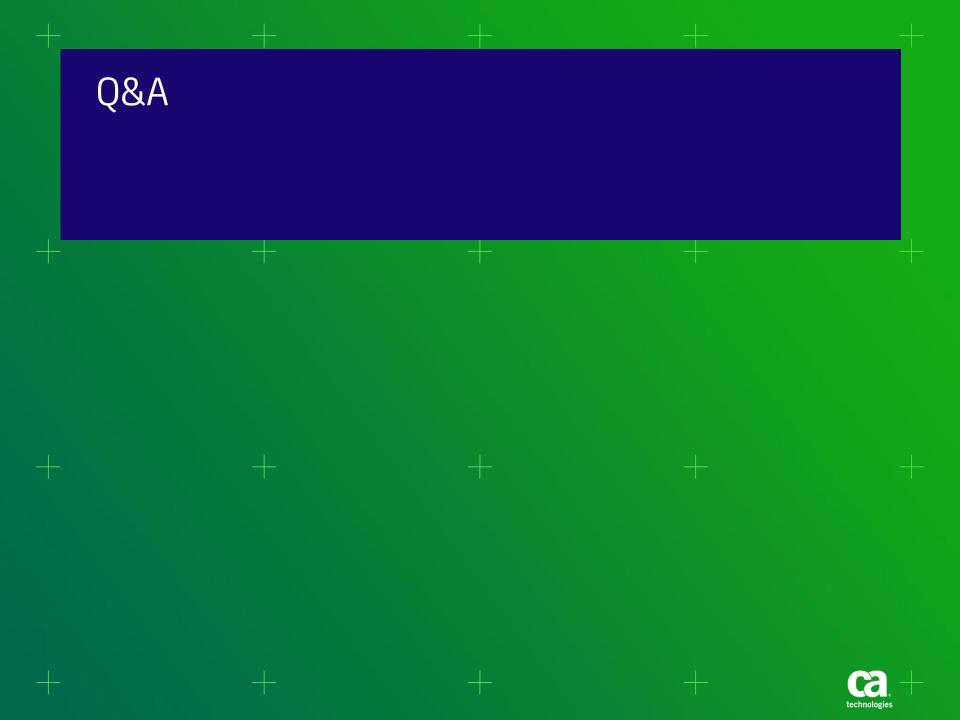
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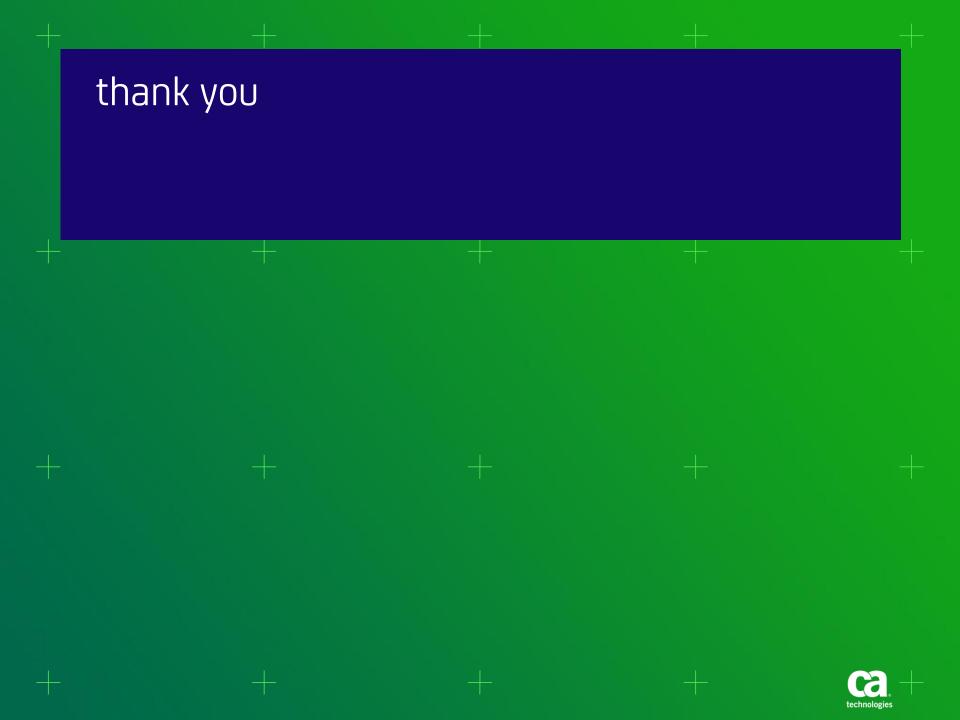


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