A Paradigm Shift in Mainframe Management

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Disclaimer

- This presentation, in parts, discusses future direction & beta software
 - To save you from the 2 page legal disclaimer!
 - Inclusion of feature/function/product is by no means guaranteed and should not be relied upon
 - Any timescales alluded to are speculative and should not be interpreted as concrete delivery dates, inclusion is still not guaranteed



Session Agenda

- Where are we today?
- Changing the way the Mainframe is managed forever
 - Mainframe 2.0
- Chorus
 - The evolution of Mainframe 2.0
 - A look at the Workspace
 - The first role
 - Database Management for DB2



Where Are We Today?



Some Interesting Quotes

"The last mainframe will be unplugged on March 15, 1996."

Stewart Alsop, 1991

"On December 31, 1999 at midnight, when the big ball drops and people are kissing in Times Square, the era of the mainframe computing will be over."

Robert Cringely, 1992



The Mainframe Renaissance



But We Still Have Some Problems...

- 'The Greying Workforce'
 - Many Mainframers are reaching retirement age
 - Enticing new people in
 - There are not enough places like this!
- Knowledge transfer
 - 80-90% of knowledge resides with the individual
- Managing the Mainframe is not always easy
 - Old fashioned, difficult to use interfaces
 - A wide range of knowledge is required
 - TSO, JCL, ISPF, JES, z/OS, DB2 etc. etc. etc.
- The Mainframe won't be going away anytime soon



Changing the Way the Mainframe is Managed Forever





Changing the way the mainframe is managed forever!

1. THE MARKET

Mainframe Platform Drivers

- Business Growth
- Hardware Evolution
- •Mainframe Virtues



2. THE CHALLENGES

Control Costs

- Do More...
- "...with less"
- "...with nothing"

Sustain Critical Skills

- Build next generation team dynamically
- On ramp for next gen is long and complex

Increase Agility

- Provision services faster
- Multiplatform data center
- Solve critical issues

4. THE PROGRAMS

Promises Made

Maximize Value

Simplify Management

Practical Innovation

Promises Kept

Customer Engagement Technology Exploitation

Mainframe Software Mgmt Mainframe Stack

Integration, Productivity, and Insight

3. THE STRATEGY

Maximize Value

Simplify Management

Practical Innovation

Best in Class Quality, Support, and Customer Experience

1

2

3

The Programs

Promises Made

Maximize Value

Simplify Management

Practical Innovation

Promises Kept

Customer Engagement:

- -Mainframe Value Program
- -Customer councils
- -Best Practices
- -Training & Publications

Technology Exploitation:

- -Specialty Engines
- -Application Tuning
- -Database Performance
- CA Mainframe Software Manager
- CA Mainframe Stack
- Interoperability Testing
- Health Checks

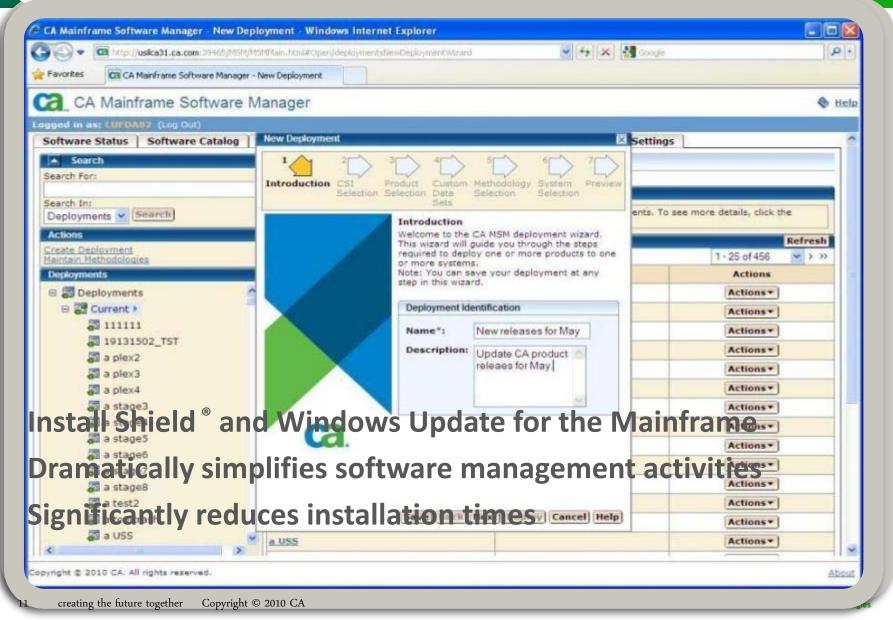
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- Cross Enterprise Application Performance Mgmt.
- Risk and Compliance Management
- Development Environment Integration
- Workload Automation



Simplify Management:

CA Mainframe Software Manager (CA MSM)

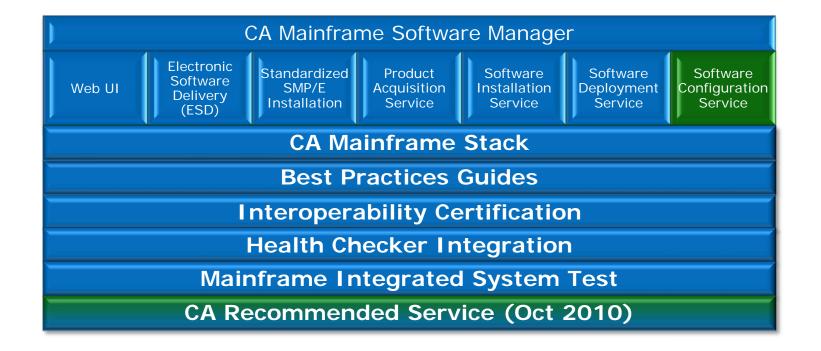


Mainframe Software Management In May 2010

Promises Made

Promises Kept

Mainframe Software Manager
Mainframe Stack



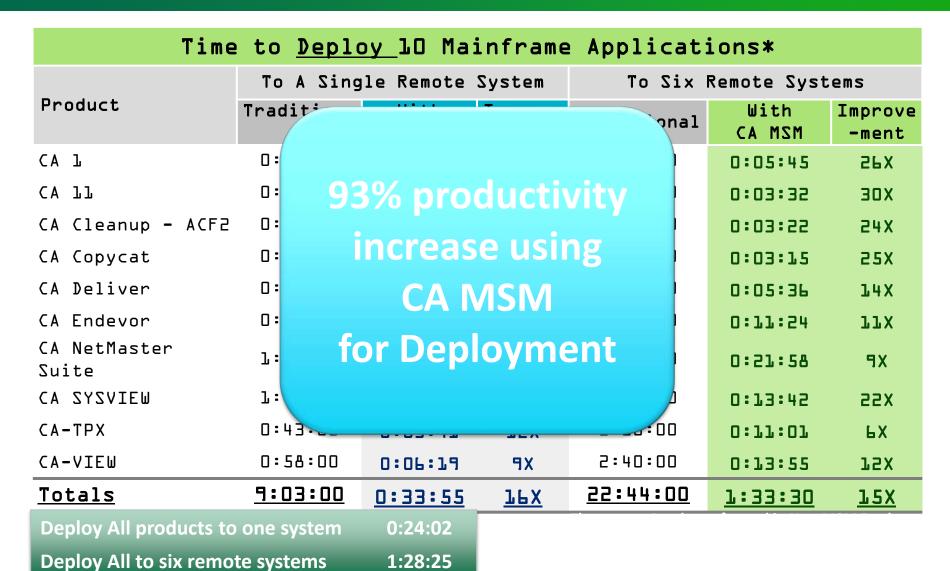


CA MSM Time Savings - Installation

Time to <u>Install</u> 10 Mainframe Applications*							
	Mainframe Expert Install			Mainframe Novice Install			
Product	Traditiona l	With CA MSM	Improve -ment	Traditional	With CA MSM	Improve -ment	
CA 1	36 min	9 min	4 X	3 hrs 12 min	14 min	14X	
CA Auditor	26 min	7 min	4 X	2 hrs 22 min	å min	18X	
CA Datacom	lhr 14 min	6 min	7 5X	∃ hrs å min	10 min	19X	
CA JARS	37 min	5 min	7X	l hr ll min	6 min	1 5X	
CA Librarian	28 min	2 min	14X	l hr 13 min	6 min	75 X	
CA MIM	30 min	5 min	ЬX	l hr ∃l min	5 min	18X	
CA OPS/MVS	∃⊾ min UCtivity	L min	for m	l hr 50 <i>ainframe</i>	7 min expert	lex s and	
CA Panvalet Source: CA Technologi	54 Min es Lab Results	94%mfo	raqvi	cos! min	5 min	7 4 X	
CA SMF Director	40 min ¹³	July 2010 Mainfran	ne 2.0 Copyright	t⊚2o1dochar 1.0 min	6 min	12Xgies	

CA MSM Time Savings - Deployment

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Chorus...The Next Evolution in Mainframe 2.0

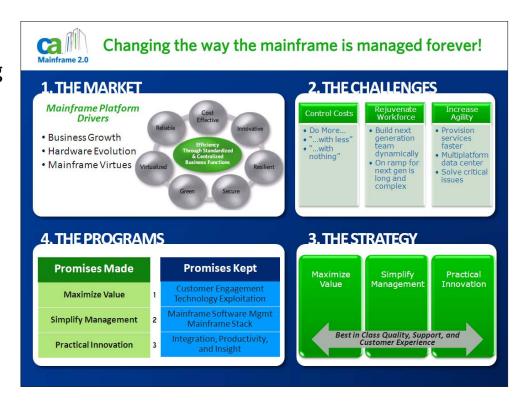


Mainframe 2.0 Strategy

Changing the way the mainframe is managed forever!

Solve the major obstacles to the mainframe continuing as the premier data processing platform for the next 30-40 years to:

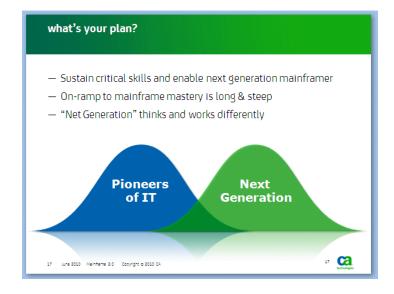
- Reduce the complexity of managing mission critical workloads
- Reduce the risk of declining Quality of Service due to the retiring workforce
- Increase the leverage of existing IT staff to manage the mainframe



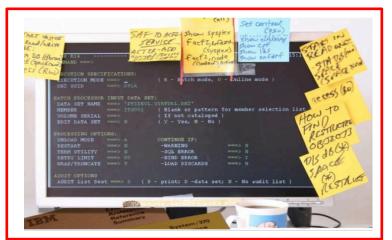


Mainframe Knowledge Transfer & Knowledge Management

– What plans do you have in place for managing the scarcity of mainframe skills and the knowledge gap?

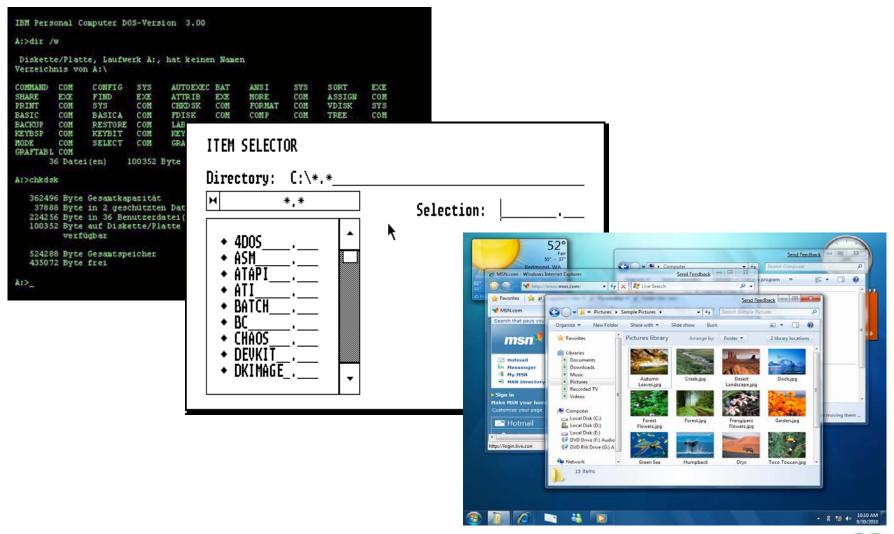


Hopefully it doesn't look like this!





Evolution – Increases Productivity

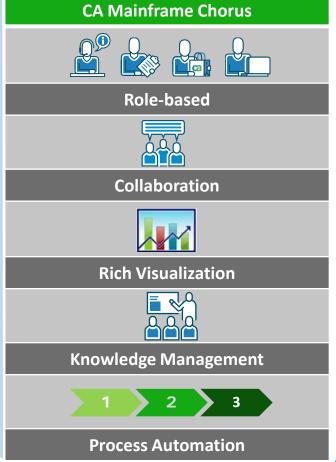




What is CA Mainframe Chorus?

Object-oriented workspace, with a new role-based interaction model that incorporates rich features and data visualization and leverages CA's portfolio of products as a single bank of features and functions

	Mainframe Technology Stack			
Functional Components	DB2 Database Management			
	Security Management			
	Storage Management			
	Workload Management			
	Performance Management			
	Systems Management			
	Datacom Database Management			
	IDMS Database Management			
	IMS Database Management			
	Operations Management			
SOO	Base Common Services Mainframe WS Common Services			





Why Roles?

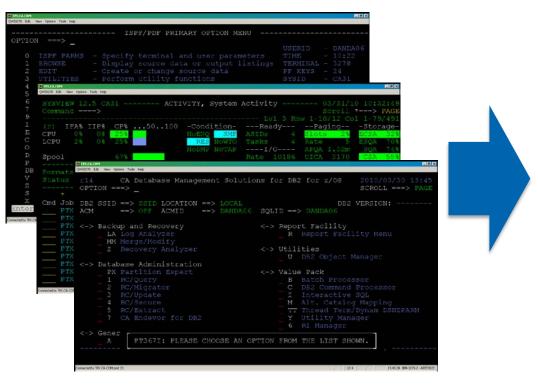






What is CA Mainframe Chorus?

- A new and fundamentally different user interaction model
 - Based on how people do their jobs, not how they use specific products
 - Provides rich features and data visualization in a web-based workspace





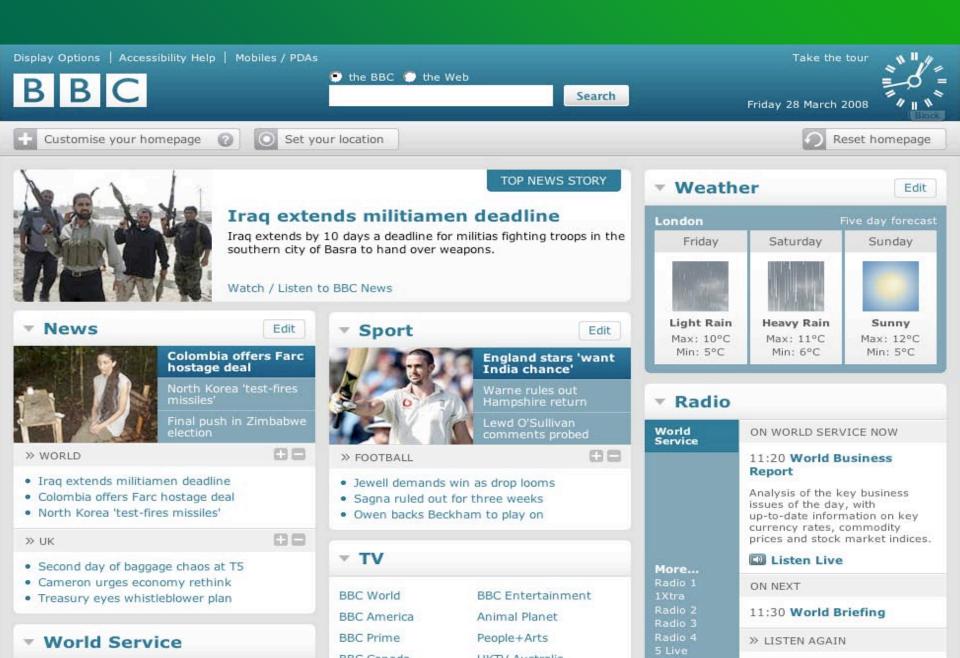


Program, Design and Interaction Approach

Program Objectives:	 Appeal to non-mainframe IT professionals Boost productivity of current mainframe experts
Design Principles:	 Engaged with external industrial design firm We engaged with experts on interaction modules and usability Immersive process with our customers
Interaction Model:	 Next generation management paradigm with: Customizable workspaces De-siloed applications Contextual actions Drill through attributes Utilities in context Data visualisation Collaboration



Workspace - Integration Your Way!



The Database Management Role



CA Mainframe Chorus Workspace and DB2 Database Management Role Features

CA Mainframe Chorus Workspace

- Rich visual presentation
- Third party integration
- Smart Objects intelligent interface
- Process capture "wizards"
- Collaboration tools

DB2 Database Management Role

- Time series data graphing
- Object-based navigation and management
- Alerts on DB2 threshold exceptions
- DB2 Knowledge Center
- Real time performance data

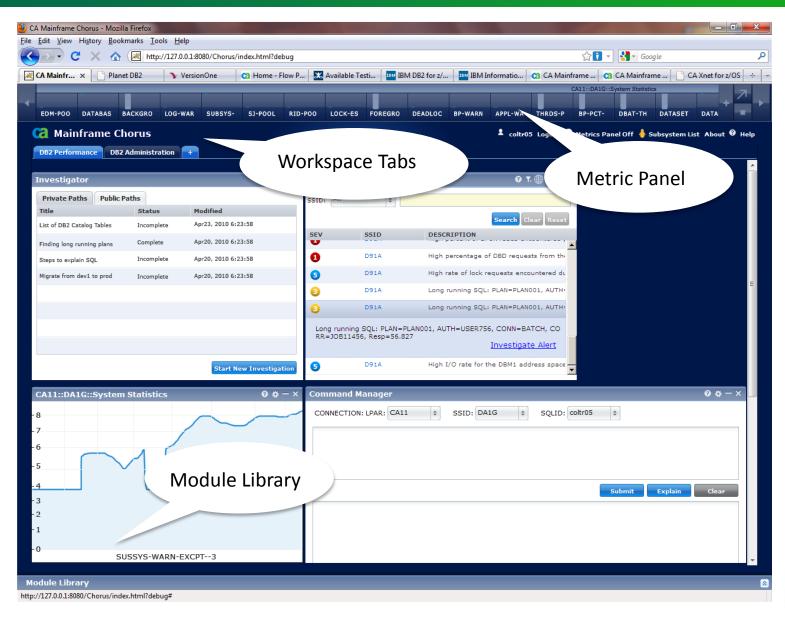


The Required Tools

- -CA RC/Query r14
- -CA RC/Migrate r14
- -CA RC/Update r14
- -CA Plan Analyzer for DB2 for z/OS r14
- -CA Subsystem Analyzer for DB2 for z/OS r14
- -CA Detector for DB2 for z/OS r14
- -CA Insight Performance Monitor for DB2 for z/OS r14

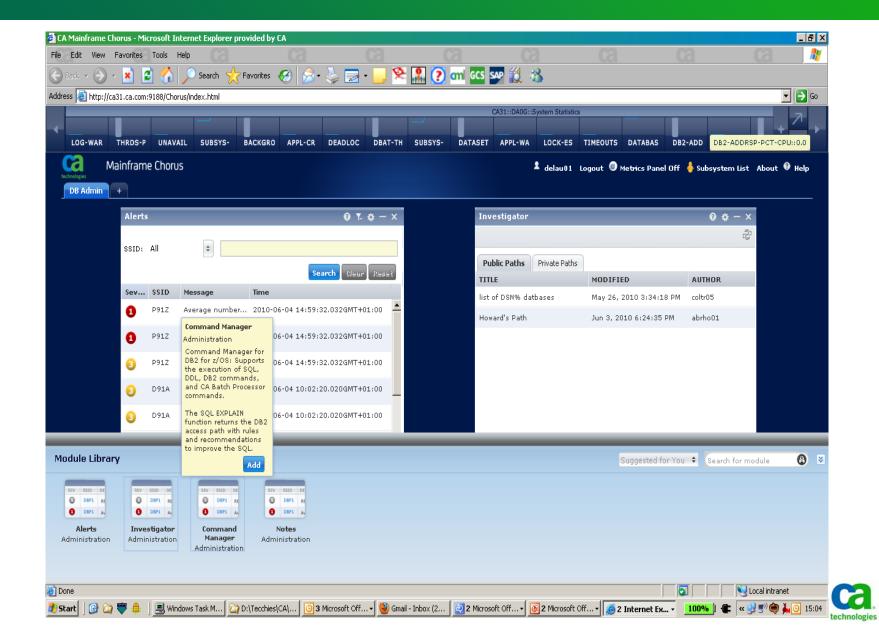


CA Mainframe Chorus workspace

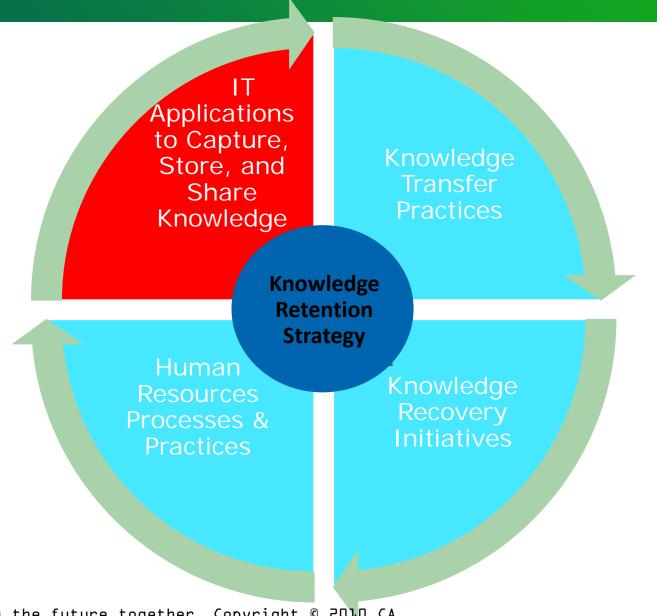




Modules

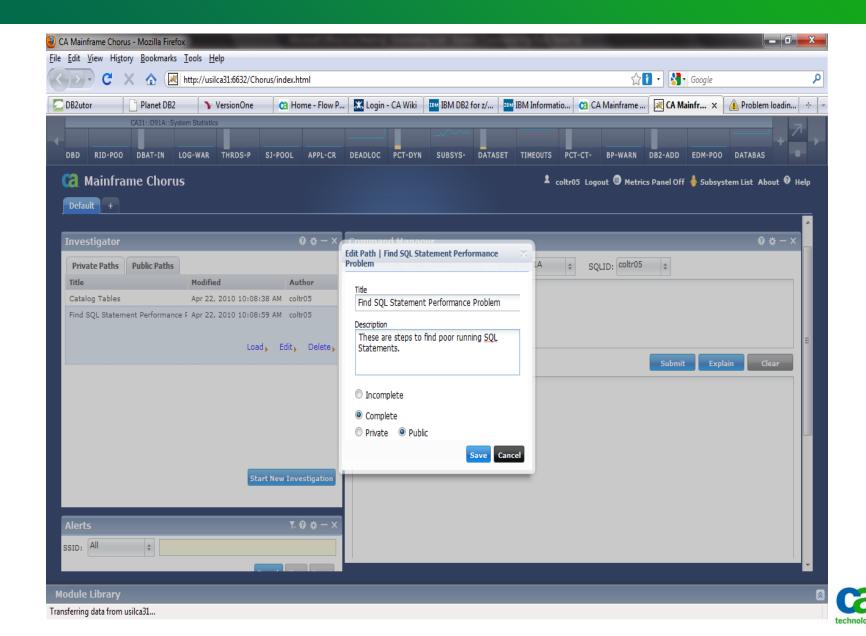


Enabling Knowledge Retention

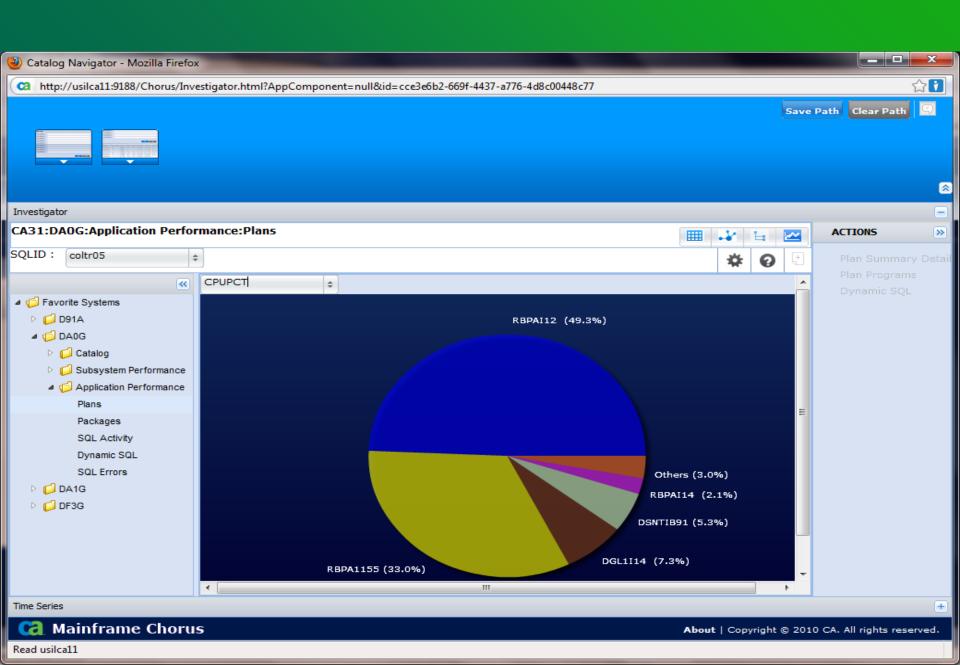




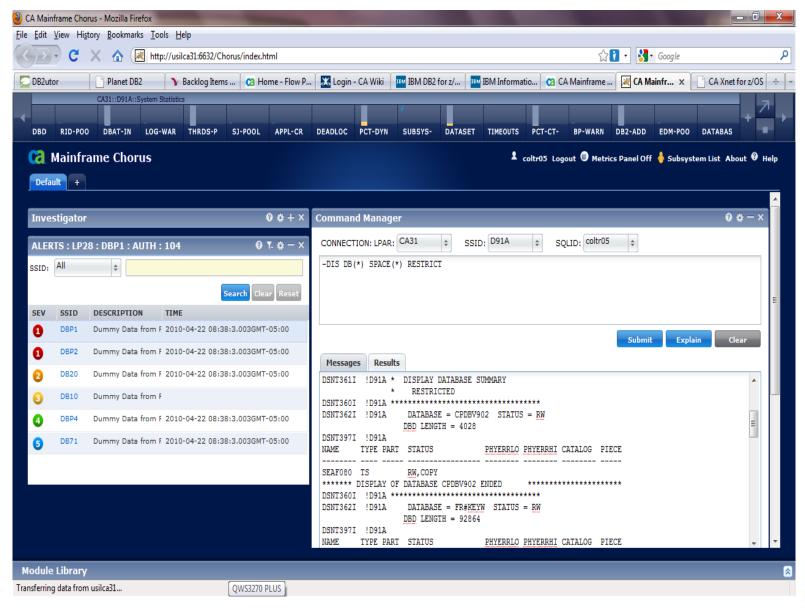
The Concept of Paths



Breadcrumbs

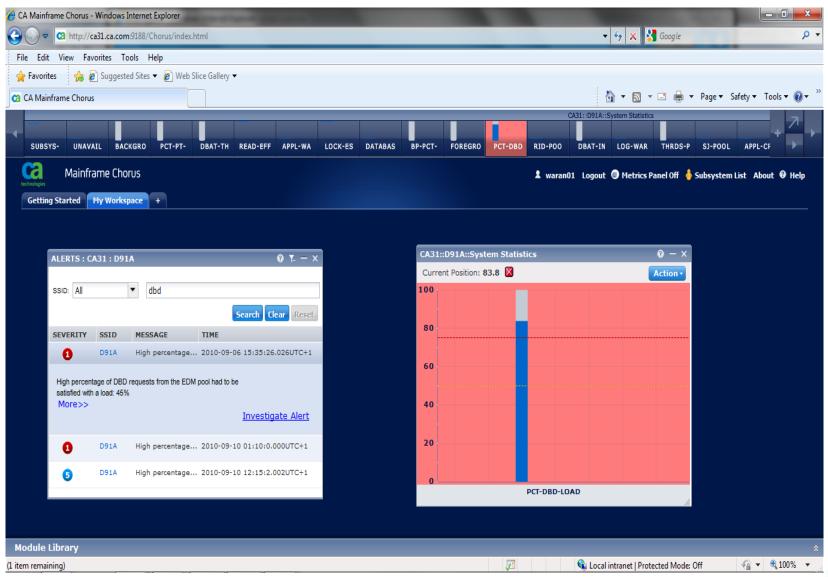


Alerting and the Command Manager



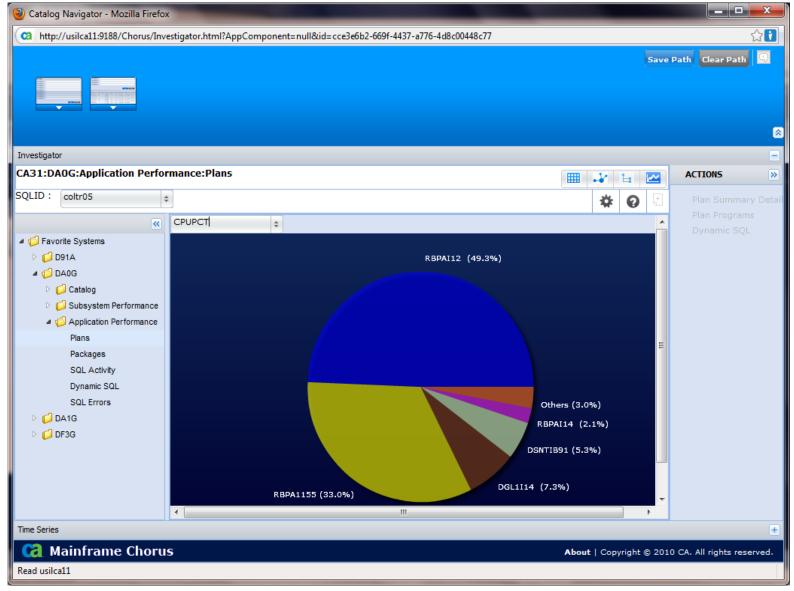


Alerting Cont'd



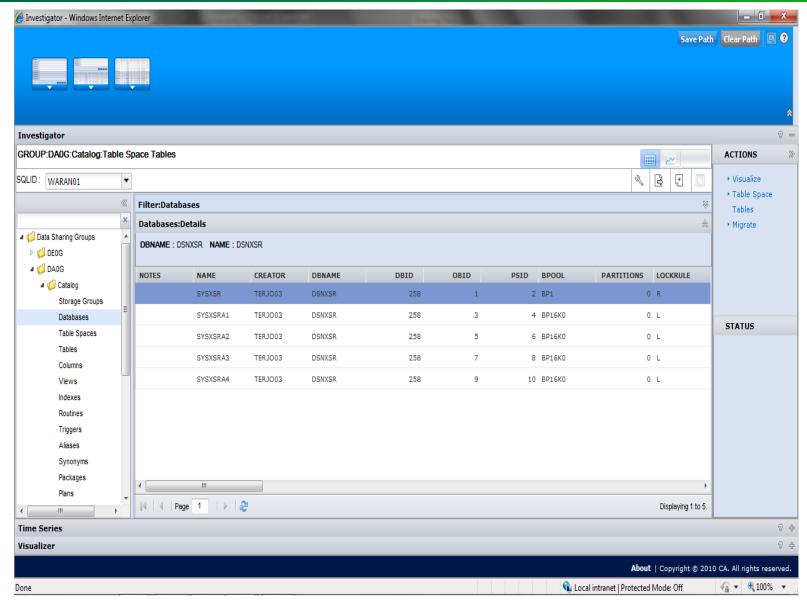


Understanding Resource Usage



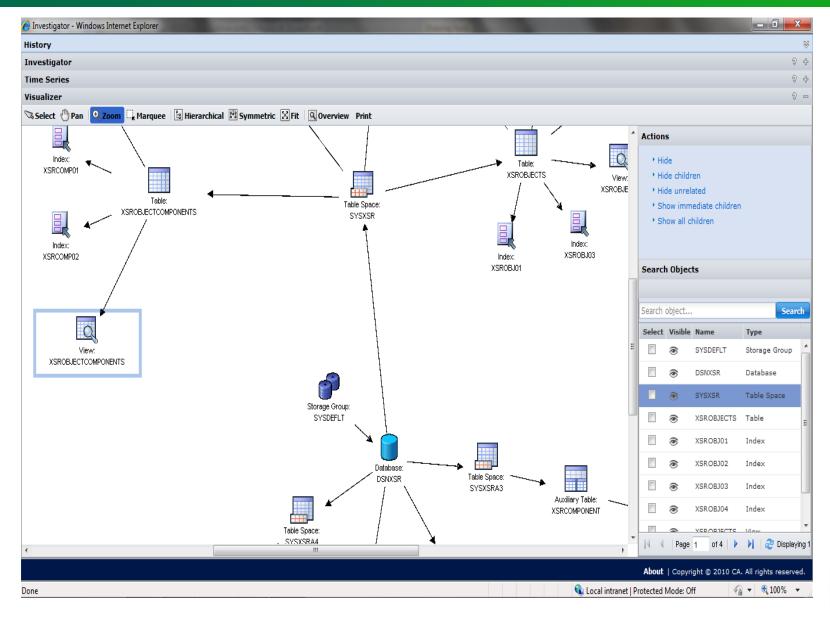


Viewing DB2 Metadata



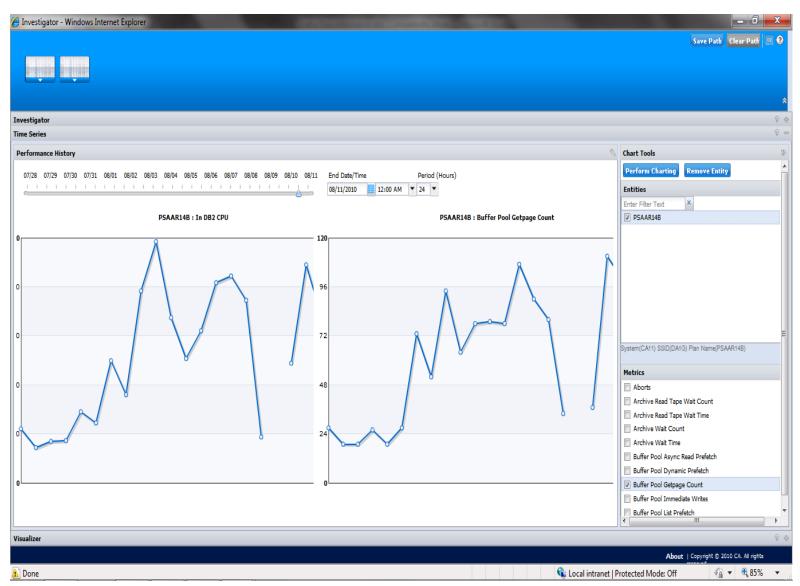


Visualizer



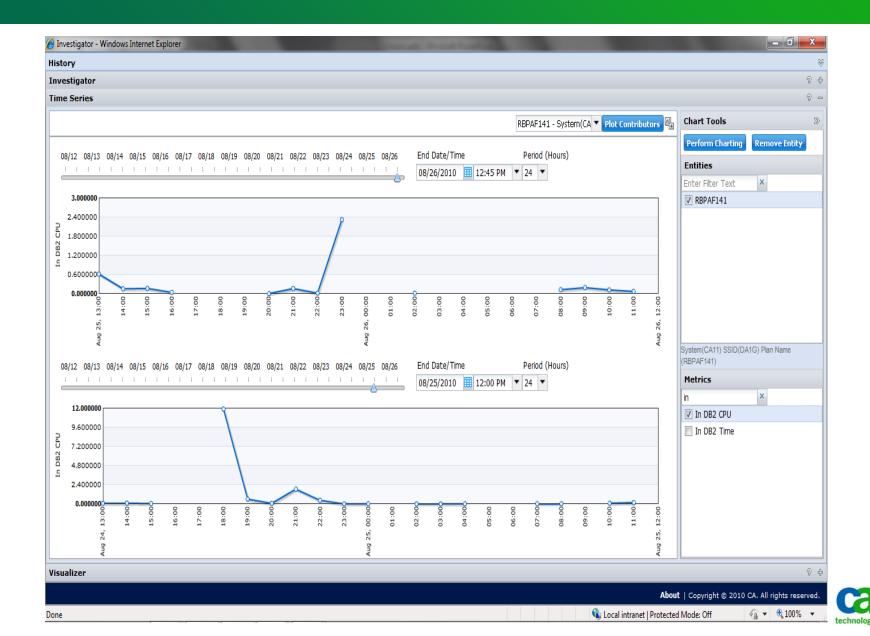


Time Series...1





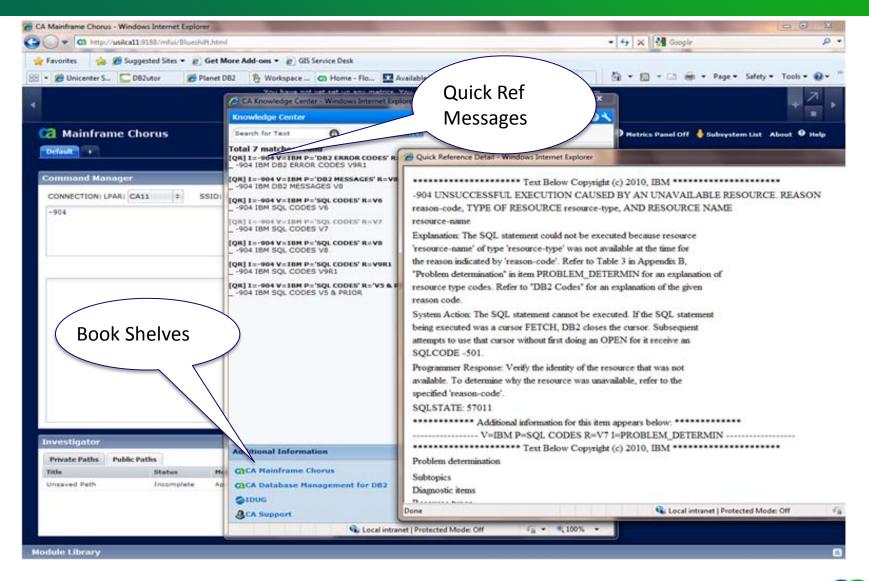
Time Series...2



Domain Documentation

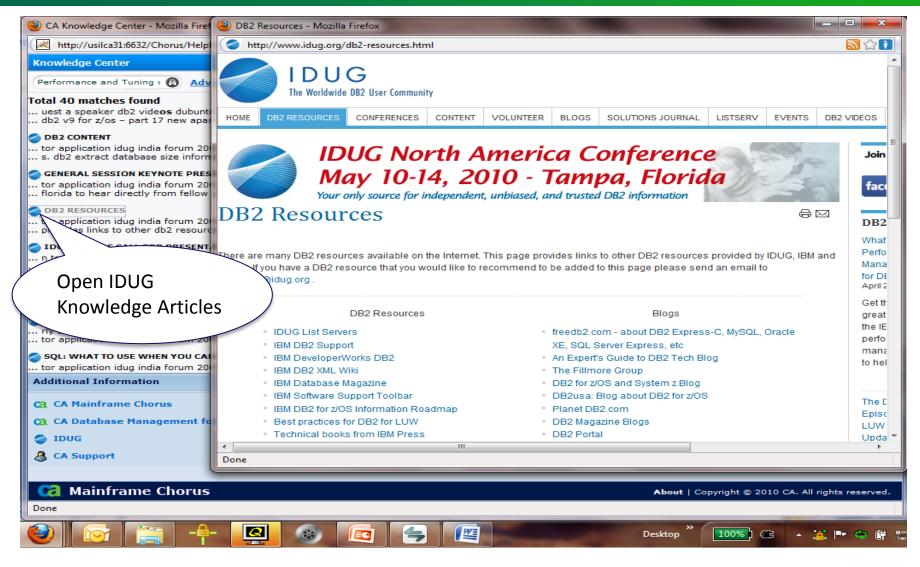


in-context domain documentation





IDUG knowledge





summary a few words to review

- CA Mainframe Chorus will provide a new, revolutionary user interface based on how people do their jobs, not on specific products
- CA Mainframe Chorus for DB2 Database Management is in beta now
- CA Mainframe Chorus for Security Management is currently in development
- In the near future, additional roles will be developed that will transform traditional product user interfaces in similar ways



thank you andrew.ward@ca.com

