

Yesterday, Today &
Tomorrow – How CA
Mainframe Chorus can
work for you!



agility
made possible™



Agenda

Overview of CA Mainframe Chorus

Underlying components of CA Mainframe Chorus for Security and Compliance

Things you can implement today to prepare you for tomorrow.

Chorus as a platform and not just a security tool.

Q & A

Overview

The mainframe has long been known for its...

Integrated Workspace



AREA/	REGION	GROSS	EXPENSE1	EXPENSE2	COUNT
10001	10	4,537,955.90-	5,100.00-	.00	2
10001	18	-2,086,572.19	-1,940.73	1,000.00	19
10001	30	(162,278.43)	(30.00)	.00	
10001	42	8,781,387.650B	.00	1,500.00	
10001	45	209,763.010B	.00	.00	
10001	46	374,581,409.140R	57,430.540B	1,677,766.72	5
10001	47	94,607,014.40Cr	.00	189,304.38	
10001	48	88,316.54	.00	.00	
10001	56	10,270,858.01	31,631.870B	16,141.81	1
10001	57	14,607,781.16	.00	.00	
10001	58	478,384.64	.00	.00	
10001	59	7,510,761.24	.00	1,200.00	
10001	60	42,050,758.13	290,277.320R	127,815.39	565
10001	61	56,682,016.18	11,040.640R	85,822.08	217
10001	62	3,487,976.08	1,526,728.16	204,677.42	2
10001	64	15,058,472.40	6,281.87	3,313.60	8
10001	65	124,752,634.30	55,680.22	15,825.35	6
10001	71	70,807.68	.00	.00	
10001	73	5,866,984.77	22.00	.00	
10001	75	5,858,917.56	.00	.00	
10001	76	64,515,051.60	7,947.08	.00	1
10001	79	.00	.00	.00	
10001	80	7,988,907.67	16,931.23	3,564.73	29

Robust Reporting

Rich Visualization

```

SYSVIEW 12.5 CAS1 ----- ACTIVITY, System Activity ----- 03/31/10 10:32:49
Command =====>
----- Lvl 3 Row 1-10/16 Col 1-19/43 -----
CPU 0% 0% 25% NoEMG 5MB ASIDs 4 100% 25% 100% 70%
LCPU 2% 0% 25% NoREG NoMTO Tasks 4 Rate 5 ESQA 70%
NoIMP NoTAP -----I/O----- AFQA 1.02m 30A 71%
Spool 67% Rate 10186 UCQA 3170 100% 71%

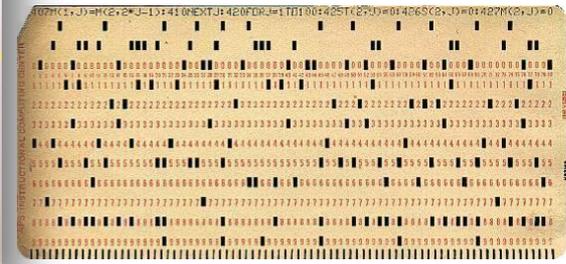
Format: DEFAULT ALERTS CPU IO PERP PROC STG USER WIM
Status NoSRT NoLIM NoSEL NoDST PFX NoOmn NoUPD NoPRT NoCAP

ALL ALL
Cmd Jobname Stepname Procstep Type Jobnr Jc Status CPU-Time Limit Clocktime
-----
PTX66MAN PTX66MAN PGMINDC STC 11596 2 NS 7.795995 86400 01:32:51
PTX66SRV PTX66SRV WEBSRV STC 11596 2 IN 3.456497 86400 01:32:51
PTX66SRV STEP1 OTX 11756 2 LSW 0.025760 01:31:32
PTX66SRV STEP1 OTX 11755 2 LSW 0.023144 01:31:32
PTX66CAT PTX66CAT JAVAVM STC 11724 2 IN 43.590861 86400 01:31:43
PTX66MGT PTX66MGT PANMAIN STC 11723 2 NS 8.898387 86400 01:31:43
PTX66MGT STEP1 OTX 11756 2 LSW 0.285899 01:31:32
PTX66OFA PTX66OFA OFSAGENT STC 11753 2 NS 5.477973 86400 01:31:41
PTX66SRV STEP1 OTX 11775 2 LSW 0.023533 01:31:31
PTX66IDC PTX66IDC INSDC STC 13509 2 NS 2.060636 86400 00:13:26
    
```



Knowledge & Collaboration

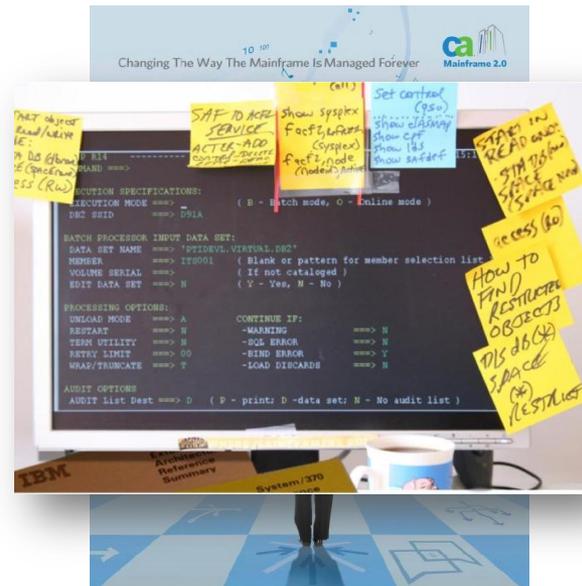
Process Automation



Next Generation Mainframe Management...

**Integrated
Workspace**

**Rich
Visualization**



**Robust
Reporting**

**Knowledge &
Collaboration**

**Process
Automation**

New skills requirements emerging an ever-changing landscape

ENVIRONMENTS WILL CONTINUE TO CHANGE

...probably at an
accelerating rate...

NEW MANAGEMENT ISSUES WILL EMERGE

...complexity vs.
skills and business
knowledge transfer...



ENABLE THE NEXT- GENERATION MAINFRAMER

...Ambidextrous
workforce skills,
team alignment, &
need for faster
ramp-up...

HYBRID ENTERPRISES DEMAND SIMPLIFIED TOOLS

...New requirements
for hybrid
environments...

DYNAMIC WORK ROLES

...breakdown silos of
traditional roles and
responsibilities...

Modernize Mainframe Management: Empower the Hybrid IT Workforce

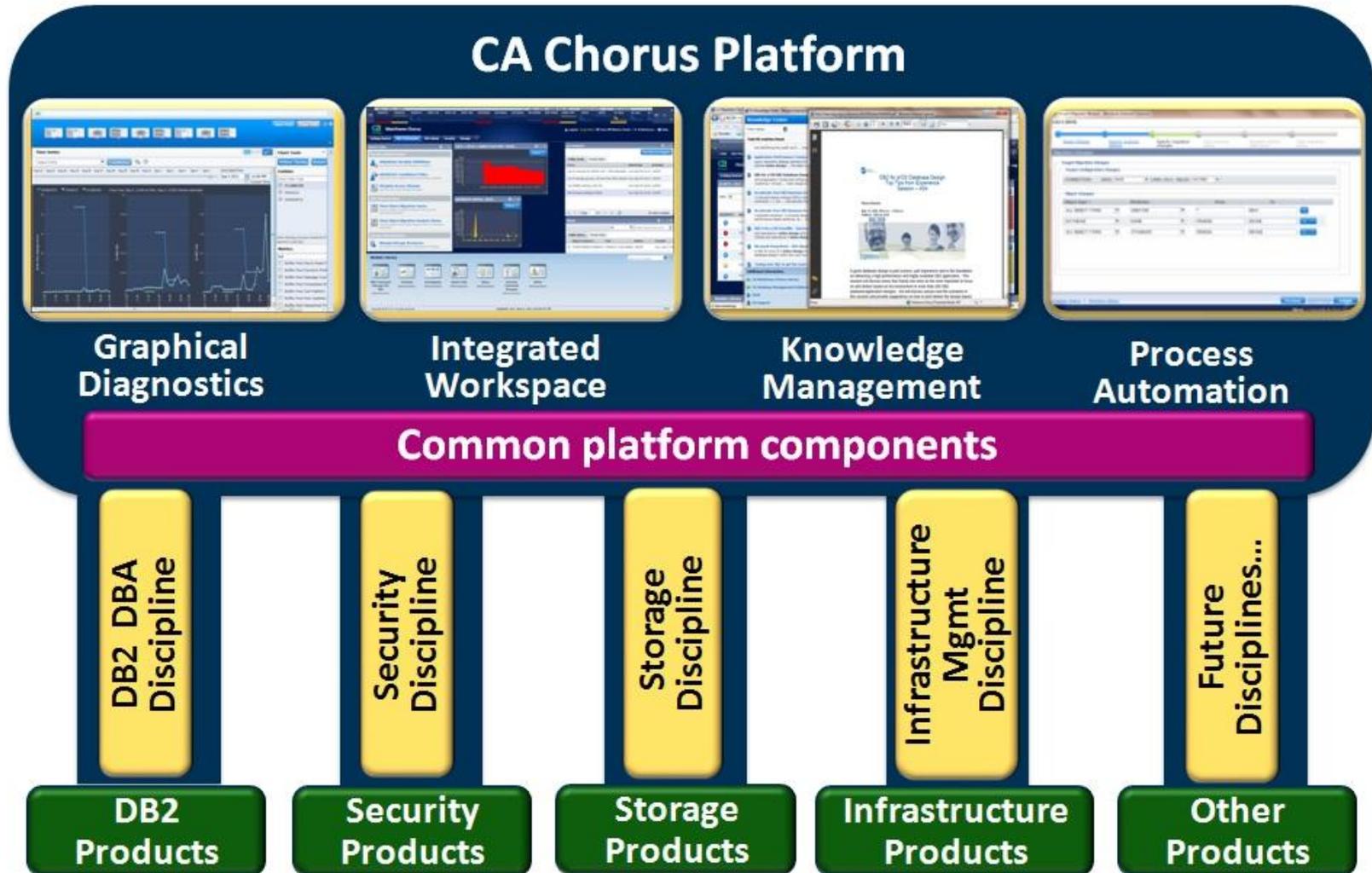
1. Enable next-generation mainframer & hybrid IT worker
2. Capture and transfer expert knowledge
3. “Net Generation” thinks and works differently
4. Demands a new approach with modern technology



Pioneers
of IT

Next
Generation

CA Mainframe Chorus Architecture



CA Mainframe Chorus *an overview...*



Integrated Workspace

- Singular interaction model
- Fast Learning Curve



Role-Based Navigation

- Matches Job Functions
- Leverage resources across platforms



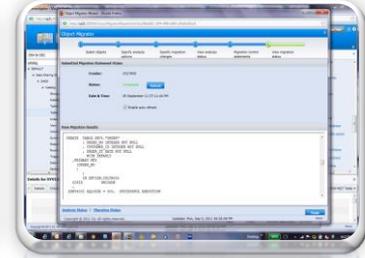
Graphical Diagnostics

- Data in human readable formats
- Solve problems faster



Knowledge Management

- Community knowledge and expertise at users fingertips
- Increases the whole team's efficiency



Process Automation

- Wizard-like process tools
- Reduces possibility of errors

CA Mainframe Chorus Workspace

CA11 :: DF1G :: EXCPT

CA11 :: DF1G :: BUFFER POOL: BP0

RACROUTE AUTHS

DE29 IO STATS

Mainframe Chorus

coltr05 (Log Out) | Turn Off Metrics Panel | Preferences | Help

Getting Started | **DB2 Performance** | DB2 Admin | Security | Storage | +

Quick Links

Security Administration

- Administer Security Definitions**
Launches the Security Administration interface
- Administer Compliance Policy**
Launches the Compliance Policy Administration interface
- Simulate Access Attempt**
Launches the Access Attempt Simulator

DB2 Administration

- View Object Migration Status**
Lists the status of migration requests that you have previously submitted.
- View Object Migration Analysis Status**
Lists the status of all analysis requests that you previously submitted.

Storage Administration

- Manage Storage Resources**
Launches the Storage Resource Management interface.

Investigator

Start New Investigation

Public Paths | Private Paths

TITLE	MODIFIED	AUTHOR
List of volumes for SYSDA with < 50% allocated	Sun Sep 04 16:10	coltr05
List of storage groups with less than 50% allocat	Sun Sep 04 16:07	coltr05
List USERS starting with COL	Sun Sep 04 16:02	coltr05
IBM Sample Database DSN8	Sun Sep 04 15:25	coltr05

Page 1 of 1

No data to display

Notes

All | Enter Search Keyword...

Object Instance	Text	Author	Created
SYSDATABASE (DSNRLST)	DSNRLST is the datab	coltr05	Sun, Sep 4, 2011

Module Library

Search for module

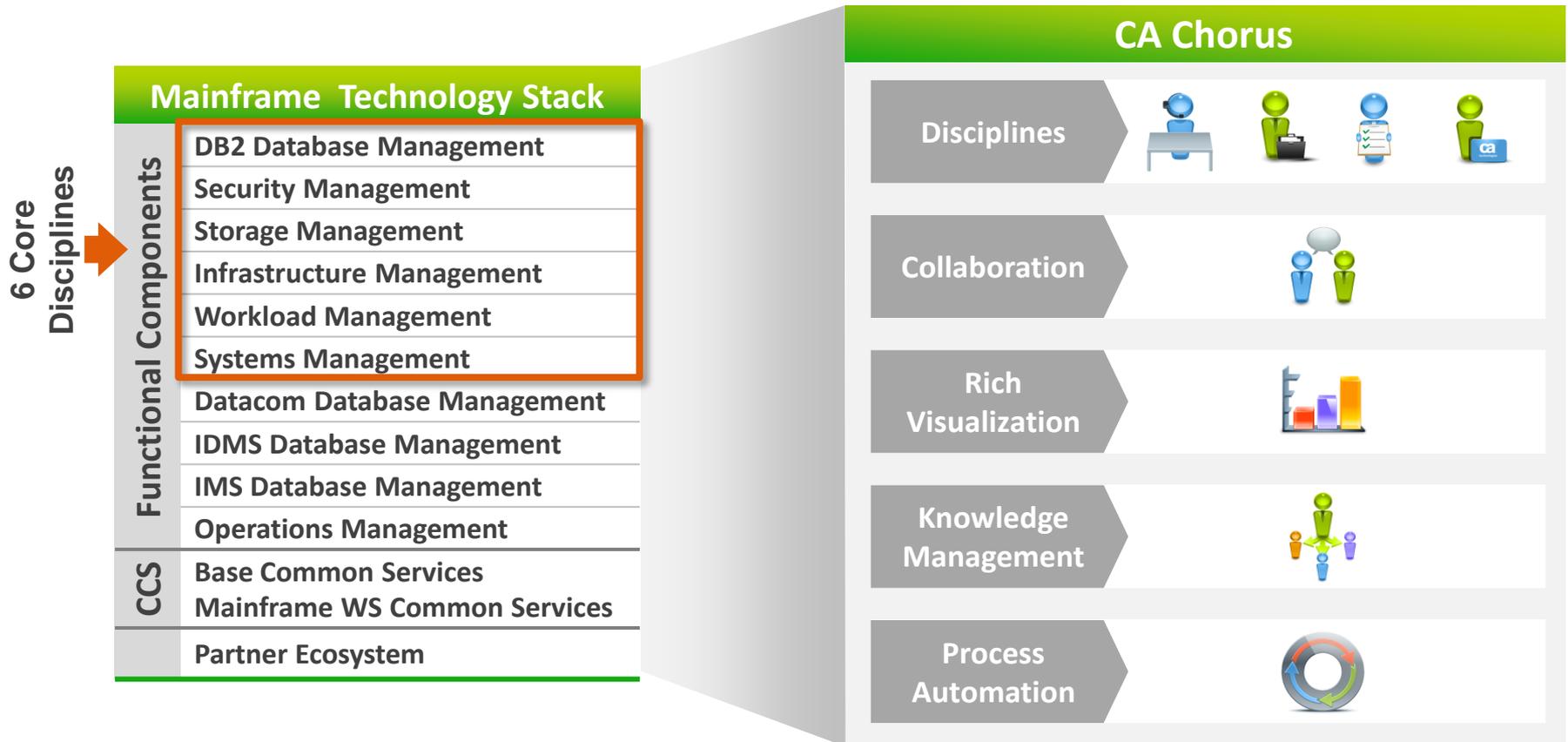
- DBA Command Manager for DB2 Administration**
- Tutorials Administration**
- Investigator Administration**
- Quick Links Administration**
- Notes Administration**
- Security Command Manager Administration**
- Alerts Administration**

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Improve staff efficiency

CA Chorus vision

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

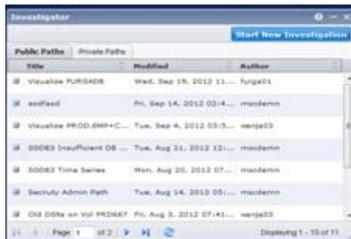


Underlying components for Security and Compliance Discipline

Chorus for Security and Compliance Management

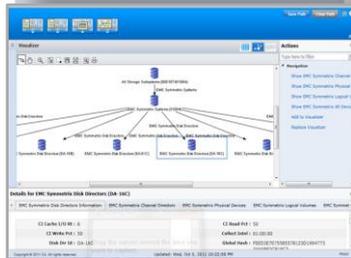
INVESTIGATOR

- Drill-down capabilities to speed mean time to repair



VISUALIZER

- Visualize relationships like systems, users, roles, etc



TIME SERIES

- Historical view of data and trends



ALERTS

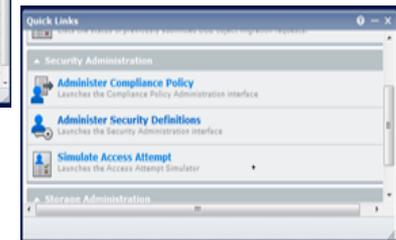
- A single role view of actionable event information

The screenshot shows the Alerts interface with a table of security alerts. The table has columns for Event, User, Message, Severity, and Time. The data rows include:

Event	User	Message	Severity	Time
SIGNON	MSCDEM	Userid MSC... XE21	High	Mon Sep 3...
SIGNON	MSCDEM	Userid MSC... XE21	High	Mon Sep 3...
SIGNON	MSCDEM	Userid MSC... XE21	High	Mon Sep 3...
SIGNON	MSCDEM	Userid MSC... XE21	High	Mon Sep 3...
SIGNON	MSCDEM	Userid MSC... XE21	High	Mon Sep 3...
SIGNON	MSCDEM	Userid MSC... XE21	High	Mon Sep 3...
SIGNON	MSCDEM	Userid MSC... XE21	High	Mon Sep 3...
SIGNON	MSCDEM	Userid MSC... XE21	High	Mon Sep 3...
SIGNON	MSCDEM	Userid MSC... XE21	High	Mon Sep 3...
SIGNON	MSCDEM	Userid MSC... XE21	High	Mon Sep 3...

QUICK LINKS

- Direct connections to other components like Compliance Manager policy UI, the Web Admin UI, and a new access simulation UI



Underlying components for Security and Compliance

	<i>Knowledge Center</i>	<i>Investigator</i>	<i>Time Series</i>	<i>Security Command Mgr</i>	<i>Quick Links</i>	<i>Notes</i>	<i>Alerts</i>
CA ACF2 and CA Top Secret							
CIA database	✓	✓				✓	
Admin	✓				✓		
Security command line*	✓			✓			
ACFTEST/TSSSIM	✓				✓		
STATG	✓	✓	✓				
Compliance Manager							
Policy*	✓				✓		
Events*	✓	✓				✓	
Alerts*	✓						✓

* Includes support for RACF

Headed the Chorus way? Things you can start doing today to plan for tomorrow

Things you can do now...

LDAP/LDS/DSI



CIA



Data Classification

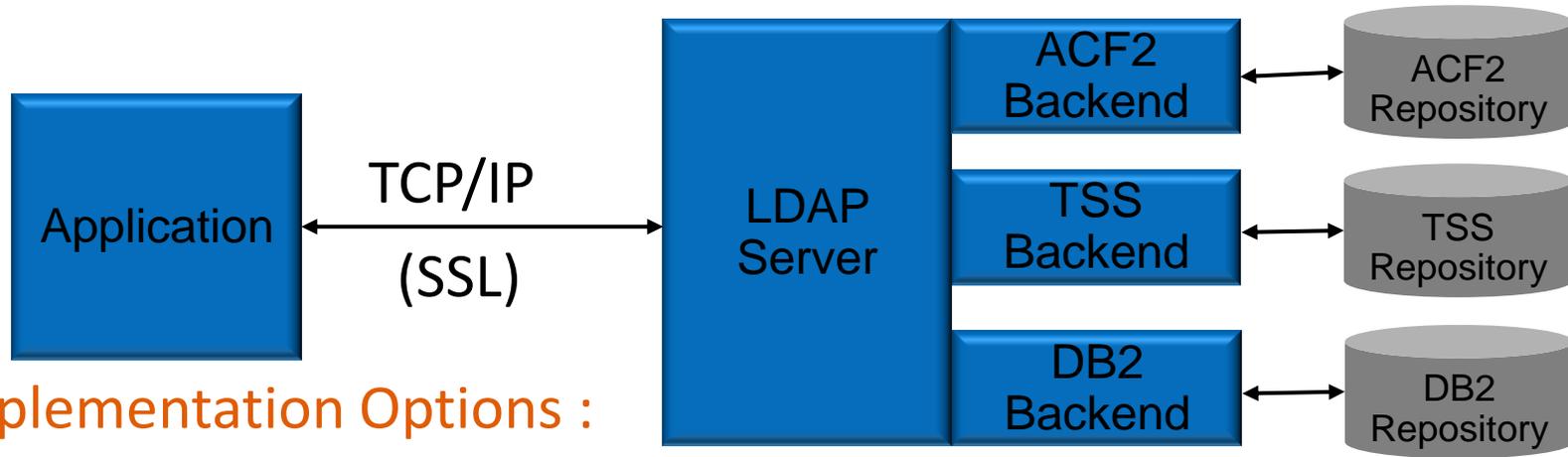


DB2 and/or Datacomm/AD support



For a complete list of all pre-requisites visit
www.support.ca.com

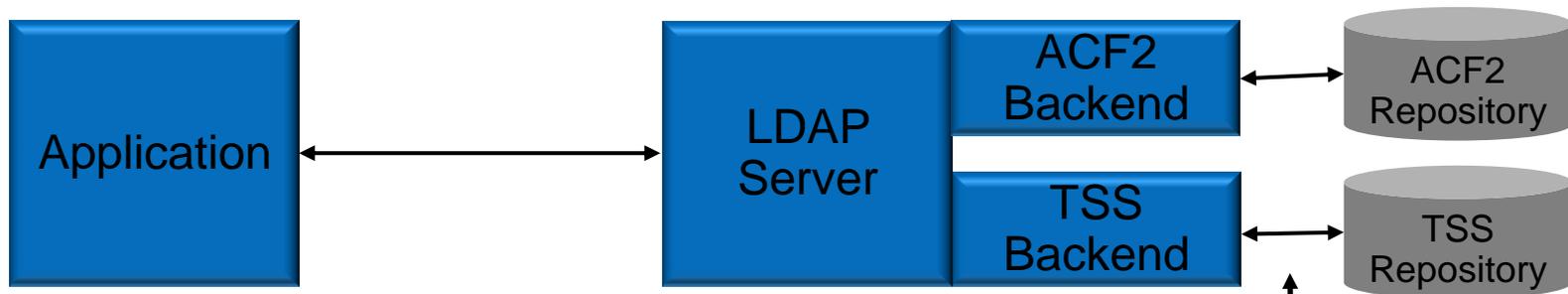
CA LDAP Server Architecture



Implementation Options :

- Just one interface (ACF2 or TSS) or both
 - Anything that uses LDAP protocol
 - Configurable objects/search filters
- DB2 option for non-security objects
- Uses System SSL
 - Hardware crypto/FIPS support

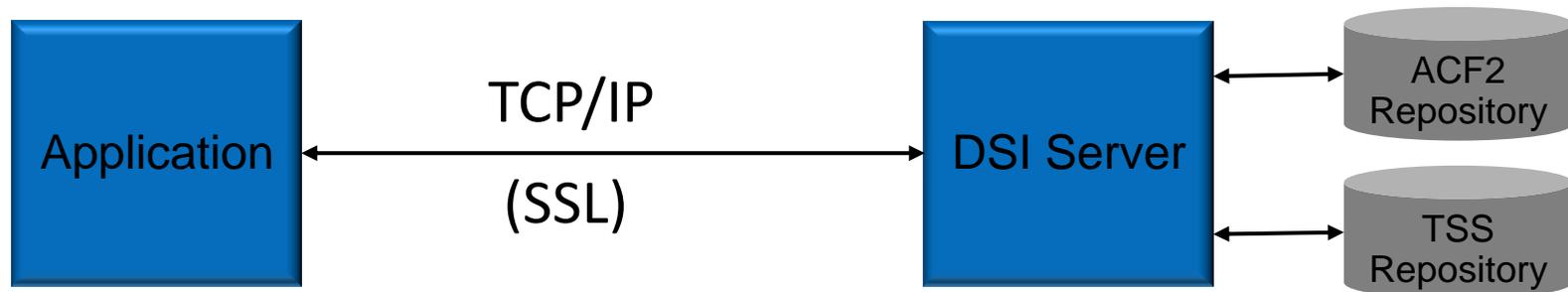
Interaction with the ESM



Callable service, R_admin() :

- Gives command to CA ACF2 or CA Top Secret to execute
 - No different than issuing at a TSO prompt
 - ESM will determine if you are authorized (scoped)
- LDAP never has direct access to the security file
 - No copy of the data to maintain or sync

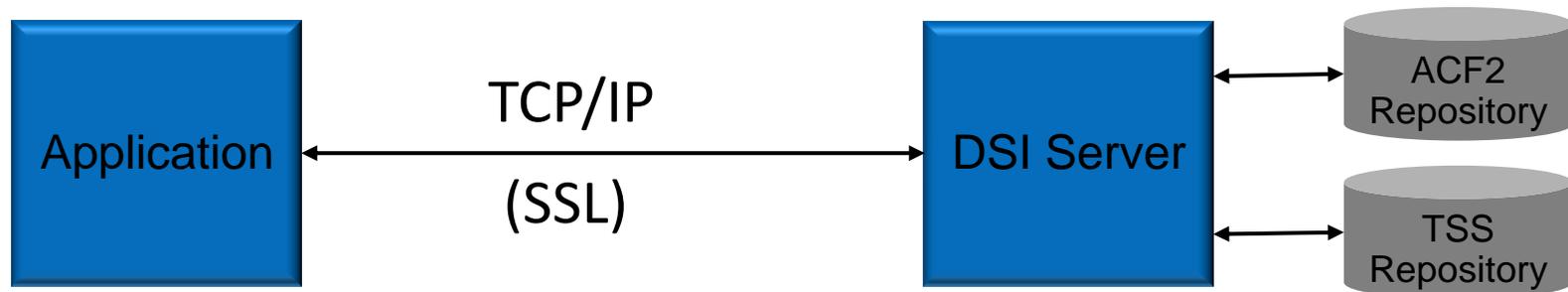
CA DSI Architecture



Implementation Options :

- Single server, single configuration, either ESM
 - Uses several callable services based on what's needed
- Uses System SSL
 - Hardware crypto/FIPS support

Interaction with the ESM



- Like LDAP, never has direct access to the security file
 - Uses several callable services based on function invoked
 - No copy of the data to maintain or sync
 - ESM will determine if you are authorized (scoped)

Why use CIA?

CIA is an extremely useful addition to your security architecture

Enables you to create/automate custom reporting of your security data, without impacting the response time of your security software.

CIA has given us the ability to consolidate reporting for several systems to one central location

Has also given us the ability to easily create custom reports that would otherwise take a long time to develop execs to create. Basic reports didn't/couldn't provide the information the way we wanted to present it.

Creating your CIA database

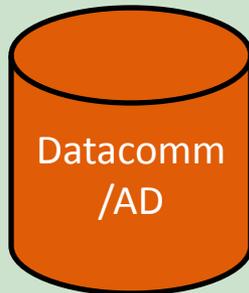
Update user defined fields in CIA jobs

CIAUNLD: Unload your security data

CIADDL: Creates CIA Repository

CIALOAD & CIALOADA: Load data into your CIA repository

Create your repository database



CIABIND

Binds the application packages so that the CIA service functions can execute.

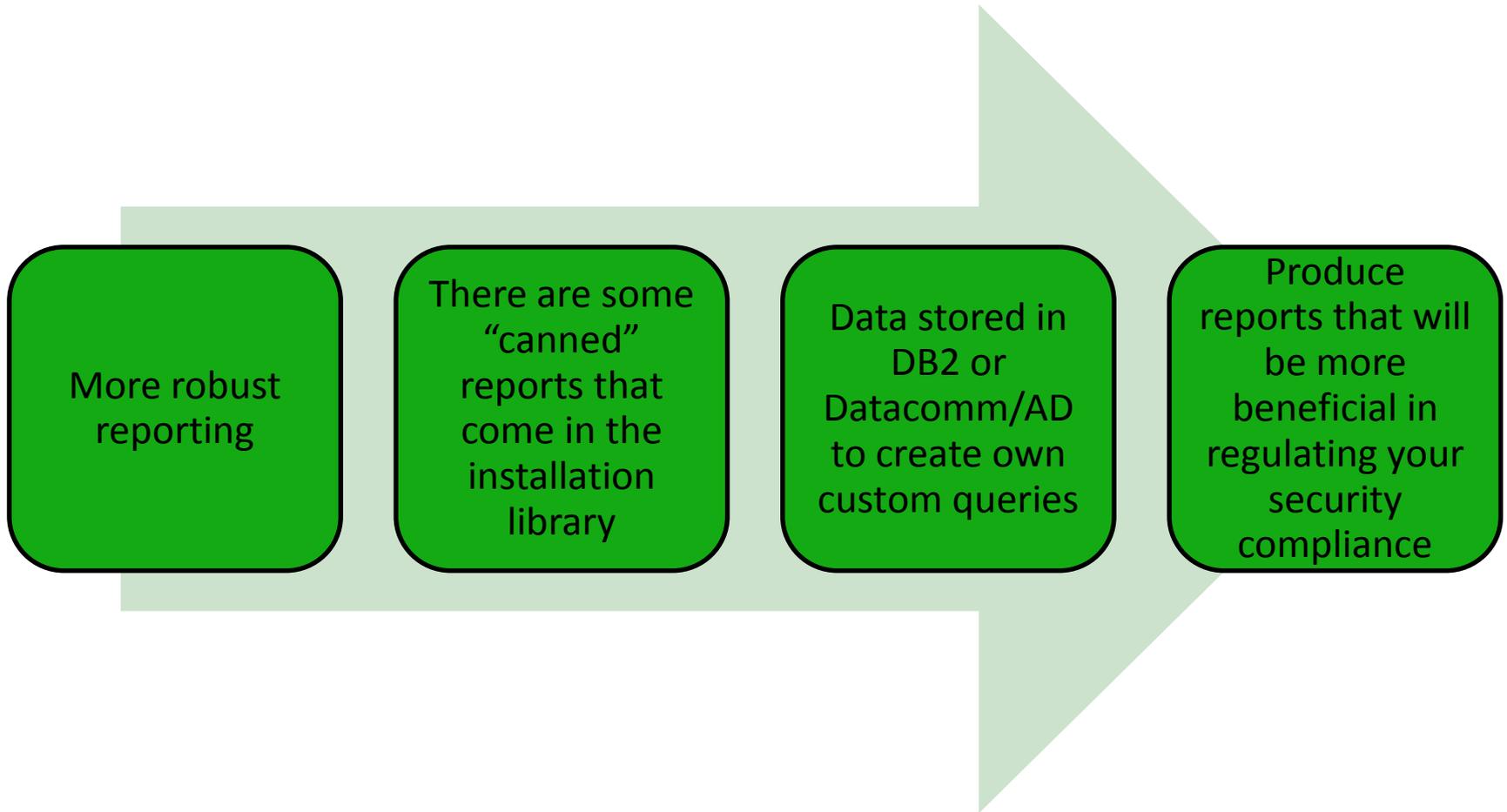
CIAFUNC

Installs the CIA service functions

CIALINK

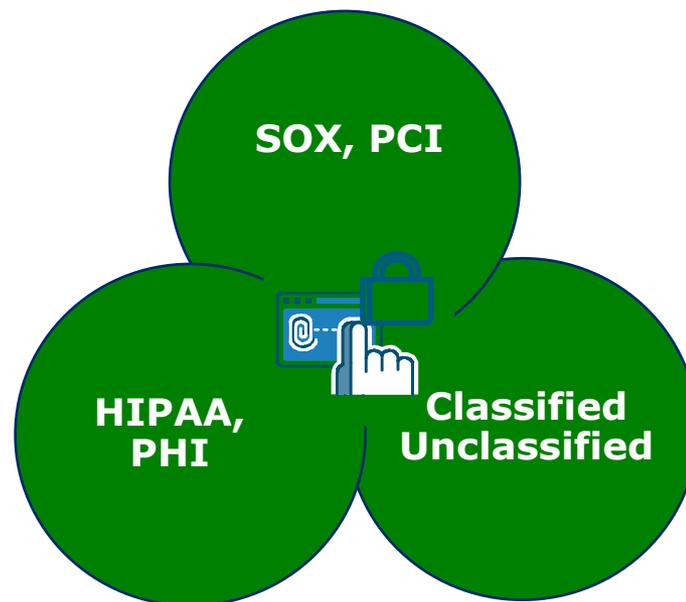
Links the DB2 modules (DSNRLI & DSNTIAR) to the service functions

Reporting with CIA



Data classification

- Data Classification Enhancement
 - Add Data Classification and Ownerships to CA Compliance Manager Event Records and CA Mainframe Chorus for Security and Compliance Management



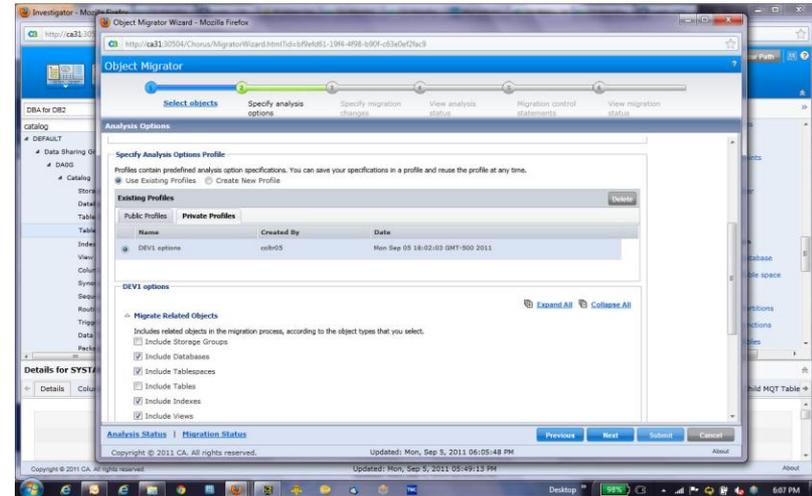
More than just a security tool...

CA Mainframe Chorus for DB2 Database Management

CA Mainframe Chorus provides a platform on which to build role-based workspaces.

CA Mainframe Chorus for DB2 Database Management:

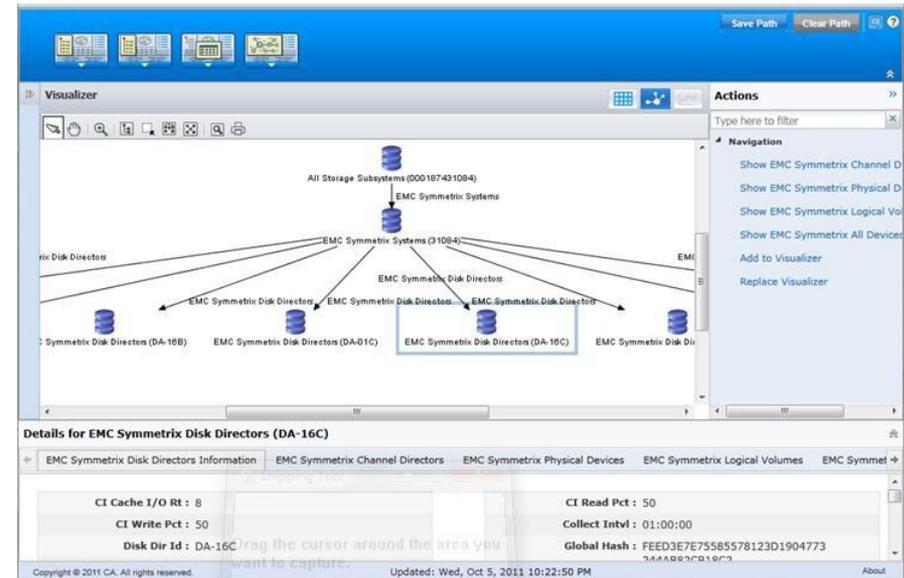
- Delivers a unique user experience for DB2 for z/OS DBAs.
- Provides instant access to decades of DBA experience.
- Displays historical performance data.
- Allows users to:
 - Proactively monitor thresholds and alerts.
 - Quickly identify and resolve performance bottlenecks.



CA Mainframe Chorus for Storage Management

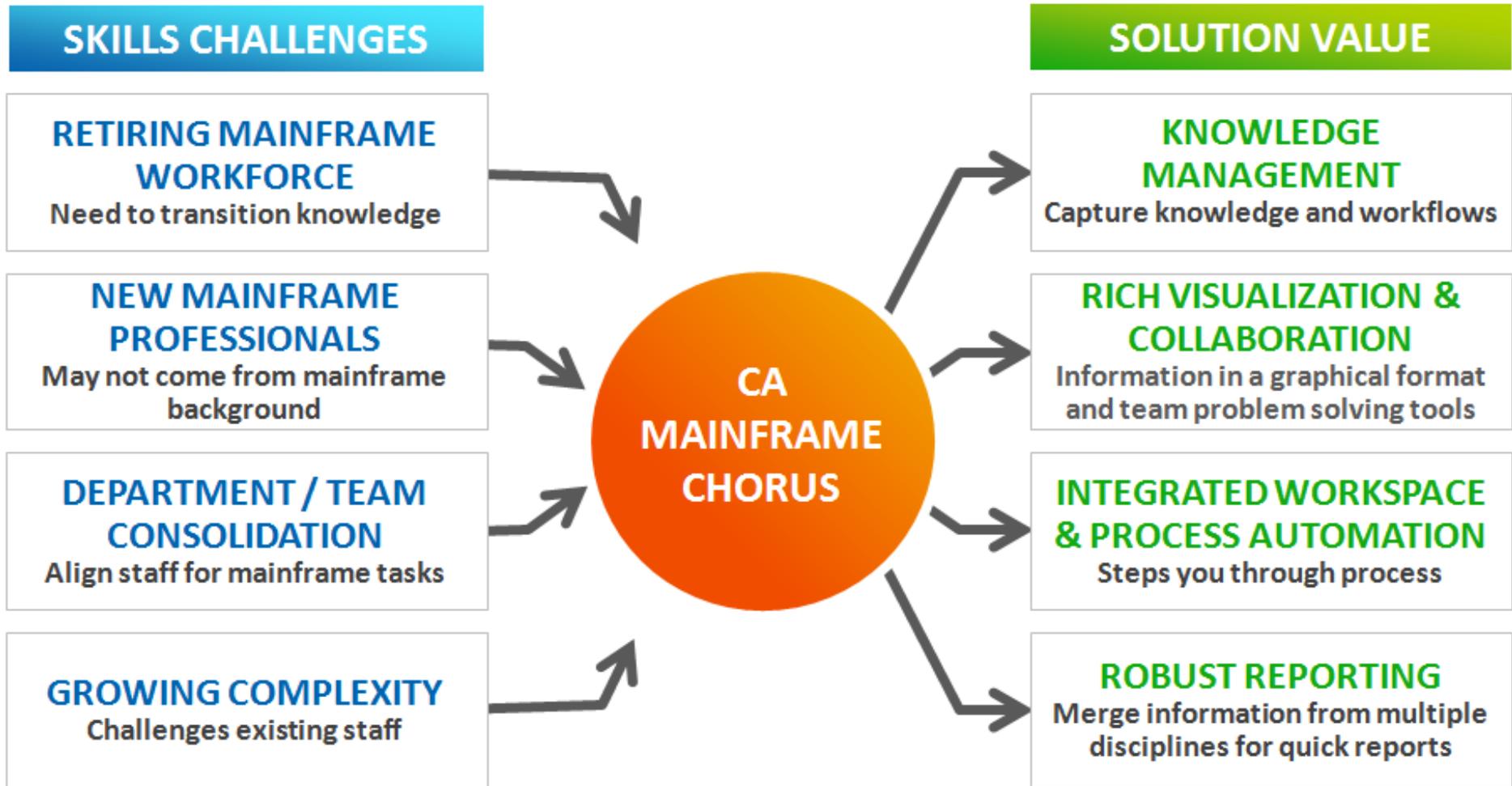
CA Mainframe Chorus for Storage Management:

- Delivers a unique user experience for storage administrators.
- Enables non-mainframe skilled staff to assume storage management responsibilities.
- Includes storage objects, data and alerts in a consolidated view, enabling administrators to take appropriate actions based on current and future needs .
- Provides information that helps administrators monitor thresholds and alerts and identify, diagnose and resolve performance bottlenecks.



Recap

Skills challenges addressed by CA Mainframe Chorus



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Q & A

Thank you