



Hear What's New with CA Mainframe Security

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Agenda

- CA Mainframe Security Release Status
- CA ACF2[™] for z/OS & CA Top Secret[®] for z/OS r15 Overview
- CA Mainframe Security Product Update
- Open Discussion/Questions

Note: Specific examples of some features are in an Appendix section at the end of this presentation



Release status

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- CA ACF2 & CA Top Secret r15 9/2010
- CA ACF2 & CA Top Secret r14 sp1 2/2010
- CA ACF2 / CA Top Secret r12 End of Service 3/1/2011
- CA ACF2 & CA Top Secret r1.3 for DB2 6/2010
- CA ACF2/VM & CA Top Secret/VM r12 sp3 02/2012
- CA Cleanup r12 sp1 6/2010
- CA Auditor r12.1 6/2010
- CA Compliance Manager r2 11/2011
 - CA Mainframe Chorus for Security and Compliance Management r2 – 12/2011
- EAL4+ Certification (CA ACF2, CA Top Secret, CA Compliance Manager – Complete
- <u>http://www.ca.com/us/Support/mainframe-compatibilites/z196-</u> Compatibility-Matrix.aspx
 SHAR

An overview of CA Security Health Checks



CA product Health Checks continuously monitor the active system environment to ensure CA solutions are optimally configured:

- Validate that best practices are being followed
- Check that recommended product parameter settings are in use
- Monitor product resources to ensure they remain at or below predefined thresholds
- Verify that recent product enhancements are being utilized to ensure maximum return on your investment in CA technology



CA ACF2 Health Checks



- ✓ Determine use of SAFDEFs with NOAPFCHK
- Determine if the CA ACF2 AUTO Start feature is in use (CAISEC00)
- Determine if volume contention exits with ACF2 Databases

✓ Exits

Leveraging the power of the z/OS Health Checker for your Security implementation





CA ACF2 Health Checks **Benefit** ACF2 Health Checks ✓ Determine use of **SAFDEFs** with ✓ Reduces risk of user NOAPFCHK bypassing APF checking on **RACROUTE** calls ✓ Determine if the CA ACF2 AUTO Start feature is in Leveraging the power of the z/OS use (CAISEC00) Health Checker for your ✓ Enables CA ACF2 to start early and Security implementation ✓ Determine if volume ensures other contention exits with ACF2 Address Spaces that **Databases** start during IPL will have correct level of security







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CA ACF2 Health Check Sample

SESSION1 - EXTRA! for Windows 95/NT _ 8 × SYSVIEW ISPF1 XE61 ---- HCMSGS, Health Checker Messages ---- 03/25/11 09:46:13 Command ====> $Scroll \times = = > PAGE$ ----- LvI 6 Row 1-13/13 Col 1-79/131 Options NOMSGID Policy *NONE* LogStr TaskId HCHECK **XNONEX** Owner CA ACF2 Check ACF2 AUTO START CHECK CHECK(CA_ACF2,ACF2_AUTO_START_CHECK) START TIME: 03/19/2011 23:36:44.432974 CHECK DATE: 20100101 CHECK SEVERITY: LOW CA ACF2 AUTO START VALIDATION The ACF2 AUTO start specified in member CAISEC00 of SYS1.PARMLIB is in effect. Use of the CAISEC00 ACF2 AUTO start ensures that critical address spaces which start at IPL have the correct level of security. In addition address spaces which require security may fail or have to wait for security to become active. END TIME: 03/19/2011 23:36:44.435145 STATUS: SUCCESSFUL 1=HELP 2=SPLIT 3=RETURN 5=FIND 7=UP 8=DOWN 9=SWAP 10=LEFT 11=RIGHT 12=RECALL 4 <0:00.1 02/16 Connected to host TPX [141.202.66.55] NUM 8:46 AM 🏕 Start 🛛 🧑 👩 📷 \Rightarrow 🛛 🕞 6 Microsoft Office ... 🚽 🚝 SESSION 1 - EXT... 🔯 Office Communicator 🛛 💭 Rauchet, Paul N - Co... 😰 🖂 🔂 💽 🚺 🏟 🗞 🚯 🚰 🥹 8:46 AM **ARE** in Atlanta

Top Secret Health Checks

Top Secret Health Checks

 Determine if CA Top Secret Audit Tracking file is allocated on same volume as the TSS Security File

 Determine if CA Top Secret CACHE and SECCACHE features are enabled Leveraging the power of the z/OS Health Checker for your

Security implementation





Top Secret Health Checks



Top Secret Health Checks

 Determine if CA Top Secret Audit Tracking file is allocated on same volume as the TSS Security File

 Determine if CA Top Secret CACHE and SECCACHE features are enabled Leveraging the power of the z/OS Health Checker for your

Security implementation

Benefit

- Reduces the number of support issues resulting from performance degradation when these two files share a DASD volume
- Helps prevent performance degradation by not using all of the productsupplied cache features





Top Secret Health Check Sample

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3270 Edit Yew Options Tools Help MySessions	10 (5) (di) (*)
te fa fa fa its te fe its ta fa	
Display Filter Way Drint Ortions Counch Hale	Intel: (Mex.)
Display Filter view Print options search Help	
SUSE OUTPUT DISPLAY TOP_SECKET_CACHE_STATUS LINE 0	
CUMMANU INPUT ===>	SURULL ===> CSR
CUECK/CA TOD SECRET TOD SECRET CACUE STATUS)	
CHECK (CA_TOP_SECKET, TOP_SECKET_CACHE_STATUS)	
STAKT TIME: 03/25/2011 11:14:11.468302	
CHECK DATE: 20080101 CHECK SEVERITY: MEDIUM	
THE CA TOD SECRET SECCACHE EFATURE TS NOT ACTIVE	
THE CA FOR SECRET SECRETE PERIORE IS NOT ACTIVE	
THE CA TOP SECRET CACHE FEATURE IS NOT ACTIVE	
* Medium Severity Exception *	
TSSHCK21E The CA-Top Secret Security File caching feature	es are not
optimally configured.	
Explanation: CA-Top Secret Security is not performing	optimally
because the the CACHE and/or SECCACHE features are di	sabled. CA Top
Secret allows for the specification of two separate of	taching features
which are enabled via the CACHE and SECCACHE control	options. Both
of these features are highly reliable and provide for	* the best
possible performance of the product. Without these f	Features enabled
sites may be subject to performance degradation espec	cially when the
Security File is shared across multiple systems.	
ected to tpx.ca.com port 23	4/21 11:15 IBM-3278-5 - A5







CA ACF2 & CA Top Secret r15



Restricted administration controls





You can now control administration capabilities without high-level privileges being given (ie. Security, Account, Audit, MSCA, SCA, etc.)

- Initial target:
 - Passwords and password related fields
 - Administration of certificate commands
- New pre-defined resource class: CASECAUT
 - Internal CLASSMAP record with TYPE=AUT (CA ACF2)
 - NORESCHK not honored for CASECAUT class (CA Top Secret)
- Provide administration access through resource authorization
 - Cannot perform Administration on a higher-level user



Restricted administration controls (CA Top Secret)





- Allows a user other than MSCA to run TSSXTEND and TSSFAR
- Allows a user with no admin authorities to run utilities



New administration commands



•User Comparison •User Modeling •User Archival





Automated user comparison (CA ACF2)

- New ACF COMPARE command
 - Single command compares two users and displays differences
 - Compares logonids
 - Compares associated roles
 - Compares user profile segments
 - CICS, EIM, LANGUAGE, NETVIEW, OPERPARM, SECLABEL, WORKATTR
 - Syntax: COMPARE userid1 USING(userid2)
- Requirements
 - User must have SECURITY or AUDIT privileges
 - Logonids being compared must be within administrator's scope



Automated user modeling (CA ACF2)

- New ACF MODEL command
 - Copies subset of logonid fields, profiles, and roles from existing user
 - Builds commands to insert new user modeling existing user
 - Syntax: MODEL logonid(newuser) USING(modelid) INTO('pds(member)')
 - If INTO not specified, command output displayed to terminal
 - Administrators can MODEL any logonids within their scope



Automated user archiving (CA ACF2)



- NEW ACF2 ARCHIVE subcommand for LIST and DELETE commands
 - Builds ACF commands that recreate a user (Logonid and User Profiles)
 - Re-adds user to roles they were previously assigned to
 - Syntax: {LIST | DELETE} logonid ARCHIVE INTO('output.work.user(member)')
 - If INTO not specified, command output displayed to terminal
 - Administrators can ARCHIVE any logonid within their scope



Compare command enhancements (CA Top Secret)



- Description
 - New TSS COMPARE(ACID) USING(ACID) command will compare the two ACIDS and then display the differences to the screen.
- This command is treated like a list command
 - Administrators must have explicit authority via the ADMIN -DATA command
 - The compare command will only display output for the ACIDS within their scope



Administration user modeling (CA Top Secret)



- Description
 - MODEL command
 - Models permissions for datasets/resources from existing user acid to another user acid
 - Generates list of TSS commands
 - First record in output is comment, which contains:
 - Command
 - User acid being modeled
 - Date and time of model
 - TSS administrator who issued command
 - System on which command was executed
 - User acid used as a model





Administration archival (CA Top Secret)

- Description
 - Archival allows user's permissions and resources to be archived into form of TSS commands
 - Generated TSS commands can be stored in PDS dataset and used to restore a user
 - First record in output is a comment, which contains:
 - Command
 - User acid being modeled
 - Date and time of the archive
 - TSS administrator who issued command
 - System on which command was executed





Administration archival (CA Top Secret)

- Requirements
 - Specify ARCHIVE keyword on LIST or DELETE command
 - Administrator must have DATA(ALL) authority and scope over ACID being archived
 - Specify keyword INTO to have TSS commands written out to PDS
 - During archive processing, most of user's security record information is archived, but some fields are not copied during archive process (e.g., digital certificates)
 - Use EXPORT command
 - · If user being archived has digital certificates

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Certificate enhancements



Renew Command
IDN/SDN Extensions
Certificate Utility Enhanced



Certificate RENEW command (CA ACF2)



- Renews digital certificate with one command
 - Provide certificate and new 'expire' date
 - Eases the administration from up to a six step process to one
 - Syntax: RENEW user.cert EXPIRE(12/31/11) SIGNWITH(my.ca)
- Requirements
 - Certificate & Signer of cert being renewed must have private key in CA ACF2 Info-Storage database or in ICSF (PKDS)





Certificate DN support (CA ACF2)



- Distinguished Name (DN) max sizes increased to accommodate larger CA certificate SDNs/IDNs
- GSO CERTMAP fields SDNFILTR and IDNFILTR increased to allow larger values up to 1024 bytes
- Notes:
 - Do not share INFOSTG database between systems without support
 - Specify SDNSIZE(1024) to activate large DN support only after ALL systems sharing INFOSTG have been upgraded





Certificate enhancements (CA ACF2)

- Expanded Key Ring Support
 - Limitation due to size of INFO-STORAGE Database
 - New User parameter on CONNECT or REMOVE "logically" connects or removes ALL certificates from a user keyring
- Password Prompt
 - Prompt for password if missing from CHKCERT, INSERT, or EXPORT command
- Expiring Certificate Warning
 - New GSO OPTS CERTEXP(days)
 - ACF79468 Certificate xxx.yyy is expiring in xx days



Certificate RENEW command (CA Top Secret)

- · Renews digital certificate with one command
 - Provide certificate and new 'expire' date
 - Eases the administration from up to a six step process to one
 - Syntax: TSS RENEW(JOE1) DIGICERT(cert1) NADATE(12/31/10)
- Requirements
 - Certificate being renewed must have private key in CA Top Secret database or in ICSF
 - Signer of certificate being renewed must have private key in CA Top Secret database or in ICSF







Large DN support (CA Top Secret)

Requirements

- New maximum DN size is 1024 for Subject DN, 1007 for Issuer DN
- SDNFILTR and IDNFILTR have also been increased
- Large DN feature is incompatible with operating systems that do not have the support
- Sharing a security file between incompatible systems is not supported
- New SDNSIZE(255|1024) parameter will allow migration of all systems to the new support before allowing certificates with large DNs to be inserted or gencerted



Certificate utility enhanced (CA ACF2 & CA Top Secret)



• New fields displayed in Utility output

Field	Field Value Description
Algorithm	Signing algorithm
Trusted	Trust status (Yes or No)
Cert Length	Certificate length
Extensions	Contents of certificate extensions (Hex dump, if not common)

• New Totals displayed in Utility output

Totals Field	Totals Field Value Description
Trusted Certificates	Total number of trusted certificates
High Trust Certificates	Total number of high trusted certificates



Data classification enhancement



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









CA ACF2[™] for z/OS Only





Role based security

- ACFXREF Utility changed to include XROL records
 - Manipulates Cross-reference XROL records and identifies invalid values on INCLUDE and EXCLUDE statements
 - Facilitates removal or restoration of roles and users that no longer exist from role definitions
- New output CMDS and BACKOUT files
 - Valid for all ACFXREF processing types (XROL, XSGP, XRGP)
 - CMDS output file
 - BACKOUT output file



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Auto erase enhancements

- Erase-on-Scratch (EOS) support
- "Existing" method (ACF2 intercepts-based)
 - Erase processing done out of ACF2 ERASE intercepts
 - If using existing EOS method, ACF2 does the manual scratching
- "New" method (SAF-based)
 - Controlled by GSO AUTOERAS record new PROCESS(SAF|ACF2)
 - Better control for user
 - Can control EOS centrally against all data sets via AUTOERAS record - at individual HLQ level & SECLEVEL for data classification records



TSO options



- New BYPPAUSE field
 - Bypasses CA ACF2 message prompt and pause during TSO SIGNON
 - Limits display of CA ACF2 informational messages during TSO logon
 - Incorporation of User Mod UM75289
 - Requirement: Must use CA ACF2 TSO Logon Routine
- New LOGHERE field
 - Allows TSO/E user who has a session on one terminal to log on to another terminal with the RECONNECT option and "steal" the session from the original terminal
 - Requirement: Must be at z/OS 1.11 or above





Misc enhancements

- DSERV Exit Support
 - PDSE support for PDS Member Level Protection and Program Pathing
- SHOW RSRCTYPE
 - Incorporated in Show All output







CA Top Secret® for z/OS Only



Virtual storage constraint relief (VSCR)

Use of 64-bit storage above the bar

Auto Start

- Support auto starting TSS as Subsystem
- Requirements
 - Support START/NOSTART in CAISECxx parmlib member
 - Allow control options overrides via CAITSSxx
 - Set subsystem name via SUBSYS= keyword
 - VERIFY issued by AXR is suspended by TSSSFR00











CA Mainframe Security Products



CA Mainframe Security Suite





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CA Cleanup for (ACF2, Top Secret, RACF)



- Reports inactive users
- Reports unused security entitlements
- Provides capability to automatically enforce security policy by removing:
 - Inactive user definitions
 - Unused security entitlements
 - Obsolete security entitlements



P	Security Standards Council				
	PCI DSS Requirements				
8.3	Incorporate two-factor authentication for remote access (network-level access originating from outside the network) to the network by employees, administrators, and third parties. Use technologies such as remote authentication and dial-in service (RADIUS); terminal access controller access control system (TACACS) with tokens; or VPN (based on SSL/TLS or IPSEC) with individual certificates.				
8.4	Render all passwords unreadable during transmission and storage on all system components using strong cryptography based on approved standards (defined in <i>PCI DSS Glossary, Abbreviations, and Acronyms</i>).				
8.5	Ensure proper user authentication and password management for non- consumer users and administrators on all system components as follows:				
	8.5.1 Control addition, deletion, and modification of user IDs, credentials, and other identifier objects				
	8.5.2 Verify user identity before performing password resets.				
	8.5.3 Set first-time passwords to a unique value for each user and change immediately after the first use.				
	8.5.4 Immediately revoke access for any terminated users.				
	8.5.5 Remove/disable inactive user accounts at least every 90 days.				
	8.5.8 Enable accounts used by vendors for remote maintenance only during the time period needed.				



CA Auditor for z/OS



- Facilitates the review of OS resources and validates integrity without in-depth knowledge
- Helps provide that the integrity of your OS meets your corporate standards
- R12 now establishes audit baselines for internal and external audits



Source: Ponemon Institute LLC, The True Cost of Compliance, Research Study, January 2011





Administration



Administration

Administration

Command

Manager

Administration

Administration

Administration

Manager for

DB2

Administration

Review



- Release Status
- CA ACF2 & CA Top Secret Enhancements
 - Compliancy Considerations
 - Administration Capabilities
 - Performance Enhancements
 - Incorporated DARs
- CA Mainframe Security Products
 - CA Cleanup
 - CA Auditor
 - CA Mainframe Chorus for Security and Compliance Management







Open Discussion – Q&A



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Thank you!

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Appendix

Sample output



CA ACF2 sample health check – expiring certificates



CA ACF2 CHECK FOR EXPIRING DIGITAL CERTIFICATES

LIST OF DIGITAL CERTIFICATES EXPIRING WITHIN 30 DAYS

CERTNAME=CERTAUTH.P11BND CERTNAME=CERTAUTH.P11DEL

* Medium Severity Exception *

ACFHC051E At least one ACF2 Digital Certificate will expire in the next 30 days.

Explanation: There is one or more ACF2 Digital Certificate which will expire in the next 30 days.

System Action: ACF2 continues processing.

Operator Response: Report this problem to the Security Administrator.

System Programmer Response: Have the security administrator review the ACF2 Digital Certificates.

Problem Determination: N/A

Source: ACF2

Reference Documentation: Please refer to chapter Digital Certificate Support in the ACF2 Administrator Guide on the use of Certificates.





CA ACF2 sample – restricted administration controls



Example: help desk admin

ACF75052 RESOURCE RULE ACFCMD STORED BY SECADM01 ON 03/22/10-09:00 \$KEY(ACFCMD) TYPE(AUT) ROLESET

- USER.PASSWORD ROL(HLPDSK1) ALLOW
- USER.PASSPHRASE ROL(HLPDSK1) ALLOW
- USER.- ROL(HLPDSK2) ALLOW

ACF75051 TOTAL RECORD LENGTH= 236 BYTES, 5 PERCENT UTILIZED

change user01 password(user01) passphrase(new passphrase) ACF6C004 LOGONID USER01 CHANGED ACF6D070 PWPHRASE / USER01 RECORD CHANGED

change secadm password(secadm) ACF00103 NOT AUTHORIZED TO CHANGE FIELD PASSWORD



CA ACF2 sample - restricted administration controls



- Example: certificate administration
 - Note: User DCADM1 is "unscoped" and can administer all certificate-related objects for any user

set r(aut) RESOURCE comp * store ACF70010 ACF COMPILER ENTERED

- . \$KEY(ACFCMD) TYPE(AUT)
- . DIGTCERT.- UID(DCADM1) SERVICE(READ,UPDATE,DELETE) LOG

ACF70051 TOTAL RECORD LENGTH= 158 BYTES, 3 PERCENT UTILIZED ACF60029 RESOURCE ACFCMD STORED RESOURCE

f acf2,rebuild(aut),c(r) ACF8A037 DIRECTORY RAUT ADDED TO RESIDENT CHAIN





CA ACF2 sample – compare

ACF Compare JPETERS USING(JSMITH)				
	LID SE	CTION		
LID NAME	JPETER JAMES TSO SE	S PETERS CTION	JSMITH JOHN SMITH	
TSOPROC	CATSC)	XXTSO	
DFT-PFX	PETER	S	SMITH	
RESTRICTIONS SECTION				
PREFIX	PETERS	5	SMITH	
GROUP	DEFGRPA DEFAULTG			
	ROLES	SECTION	I.	
GROUPE GROUPA				
GROUPH GROUPC				
CICS PROFILES				
OPCLASS			Υ	
OPPRTY		0	255	
TIMEOUT	VALUE	0	15	

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CA ACF2 sample – archive

ACF

model logonid(newuser) using(ACFUSER) into('MYPDS.FILE(OUTPUT)')

SET LID INSERT NEWUSER -PASSWORD(NEWUSER) -ACCOUNT -ACCTPRIV -ALLCMDS -TSOFSCRN -GROUP(DEFAULTG)-

SET PROFILE(USER) DIV(CICS) INSERT NEWUSER -OPIDENT(CHI)-OPPRTY(255)-TIMEOUT(60)-

F ACF2, REBUILD (USR), CLASS (PROFILE)

SET X(ROL) CHANGE GROUPA -INCLUDE(NEWUSER)

F ACF2,NEWXREF,TYPE(ROL) END

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a

SET X(ROL) CHANGE GROUPA -INCLUDE(NEWUSER) CHANGE GROUPC -INCLUDE(NEWUSER) F ACF2,NEWXREF,TYPE(ROL) END

F ACF2, REBUILD(USR), CLASS(PROFILE)

SET PROFILE(USER) DIV(CICS) INSERT NEWUSER -OPIDENT(CHI)-OPPRTY(255)-TIMEOUT(60)-

ACCTPRIV -ALLCMDS -AUDIT -CICS -GROUP(DEFAULTG)-

PASSWORD(NEWUSER) -ACCOUNT -

ACF SET LID INSERT NEWUSER -

CA ACF2 sample - archive



delete newuser archive into('mypds.out(listarch)')





CA ACF2 sample - role based security

CA ACF2	- XREF CLEA	NUP REPORT		
DATE 02/24/10	(10.055) TIM	E 18.32	PAGE	1
RESOURCE(XR	DL) GROUP	SYSID(LONG)	RECID - USE	RGRP
DESCRIPT(USEI	R GROUP ROLE)			
	DE VALUES:			
USER-				
	DE VALUES:			
PGMR04				
PGMR03				
PGMRJ02	VALUE NO	OT FOUND		
LIST OF VALUES	5 ТНАТ МАТСНЕ	D MASK: USER-		
USER4	USER1			
USER3	USERSC			
USER2	USERGRP			
2				

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CA Top Secret sample - restricted administrative authorities



• User DCA01 is allowed to change passwords

```
tss add(sysdept) casecaut(tsscmd.user)

TSS03001 ADD FUNCTION SUCCESSFUL

tss per(DCA01) casecaut(tsscmd.user.replace.password) access(update)

TSS03001 PERMIT FUNCTION SUCCESSFUL

tss list(DCA01) data(admin)

ACCESSORID = DCA01 NAME = DCA

------- ADMINISTRATION AUTHORITIES

LIST DATA = BASIC,NAMES

------ RESTRICTED ADMINISTRATION AUTHORITIES

XA CASECAUT= TSSCMD.USER.REPLACE.PASSWORD OWNER(SYSDEPT )

ACCESS = UPDATE
```



CA Top Secret sample - restricted administrative authorities



User DCA01 is allowed to run TSSUTIL

```
tss add(sysdept) casecaut(tssutility)

TSS03001 ADD FUNCTION SUCCESSFUL

tss per(DCA01) casecaut(tssutility.tssutil) access(use)

TSS03001 PERMIT FUNCTION SUCCESSFUL

tss list(DCA01) data(xauth)

ACCESSORID = DCA01 NAME = DCA

XA CASECAUT= TSSUTILITY.TSSUTIL OWNER(SYSDEPT )

ACCESS = USE

ADMIN BY= BY(MASTER ) SMFID(XE05) ON(02/18/2010) AT(11:03:38)
```





CA Top Secret sample – compare

TSS COMPARE(CMPACD2) USING	(CMPACDB)	
ACID CMPACD2	CMPACDB	
DEPTMENT COMPDEP2	COMPDEPT	
DIVISION		
ZONE	COMPZONE	
Profiles are different or i	n a different order starting with.	
KRACPROF		
LANGUAGE	F	
SOURCE		
ANOTHER8		
CHAR5		
C2		
FOUR		
OPERCLAS		
02		
05		
06		
PHYSKEY	ADDINGTOACHARACTER	
DEFNODES		
LA		
PHI		
SEGMENT OMVS		
ASIZE	2147483647	
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CA Top Secret sample – compare

Example (TSS COMPARE COMMAND)

------ Facility differences for Acid CMPACDB FACILITY = MQM DAYS = TUE THU SATSUN TIME =ANY ACTIONS = FAIL

------ Permit Differences for ACID CMPACD2 XA DATASET CMPACD1.WORK EXPIRE(04/12/10) ACCESS=UPDATE XA DATASET = KAUGE01.BOZO ACCESS=READ



CA Top Secret sample – archive

• Example (implementation)

TSS LIST(Rachael) ARCHIVE

TSS LIST(Cassie) ARCHIVE INTO(KOTPA01.ARCHIVE.CASSIE)

TSS LIST(Jonathan) ARCHIVE INTO(KOTPA01.ARCHIVE.DATASET(JONATHAN))





CA Top Secret example - archive

• Example (results/output)

/*ARCHIVE RACHAEL STORED 03/08/10-15.25.37 BY MASTER1 ON XE15 /*Please edit any CREATE commands by adding a PASSWORD keyword to the command TSS CREATE(RACHAEL) NAME('RACHAEL E. KOT') TYPE(USER) DEPT(DEPTLORD) TSS ADD(RACHAEL) GROUP(OMVSGRP) TSS ADMIN(RACHAEL) MISC4(CERTAUTH CERTUSER CERTGEN CERTEXPO CERTCHEK) TSS ADD(RACHAEL) FAC(BATCH) TSS ADD(RACHAEL) FAC(CICSPROD) TSS ADD(RACHAEL) FAC(CICSPROD) TSS ADD(RACHAEL) FAC(TSO) TSS ADD(RACHAEL) UID(000000004) TSS ADD(RACHAEL) HOME(/U) TSS ADD(RACHAEL) DFLTGRP(OMVSGRP) TSS PER(RACHAEL) DSN(SYS1.) ACCESS(READ) TSS1594I ARCHIVE FUNCTION SUCCESSFUL





CA Top Secret example - model

• Example (implementation)

TSS MODEL USING(Rachael) ACID(Cassie)

TSS MODEL USING(Jonathan) ACID(Ronald) INTO(KOTPA01.MODEL.RONALD)

TSS MODEL(Jonathan) ACID(Jason) INTO(KOTPA01.MODEL.DATASET(JASON))





CA Top Secret - model

• Example (results/output)

/*MODEL CASSIE STORED 03/08/10-16.29.03 BY MASTER1 ON XE15 USING RACHAEL /*Please edit any CREATE commands by adding a PASSWORD keyword to the command TSS CREATE(CASSIE) NAME('RACHAEL E. KOT') TYPE(USER) DEPT(DEPTLORD) TSS ADD(CASSIE) GROUP(OMVSGRP) TSS ADD(CASSIE) MISC4(CERTAUTH CERTUSER CERTGEN CERTEXPO CERTCHEK) TSS ADD(CASSIE) FAC(BATCH) TSS ADD(CASSIE) FAC(CICSPROD) TSS ADD(CASSIE) FAC(TSO) TSS ADD(CASSIE) HOME(/U) TSS ADD(CASSIE) DFLTGRP(OMVSGRP) TSS PER(CASSIE) DSN(SYS1.) ACCESS(READ) TSS03001 MODEL FUNCTION SUCCESSFUL

