

**CICS T/S Security User
Experiences
WAVV 2002**

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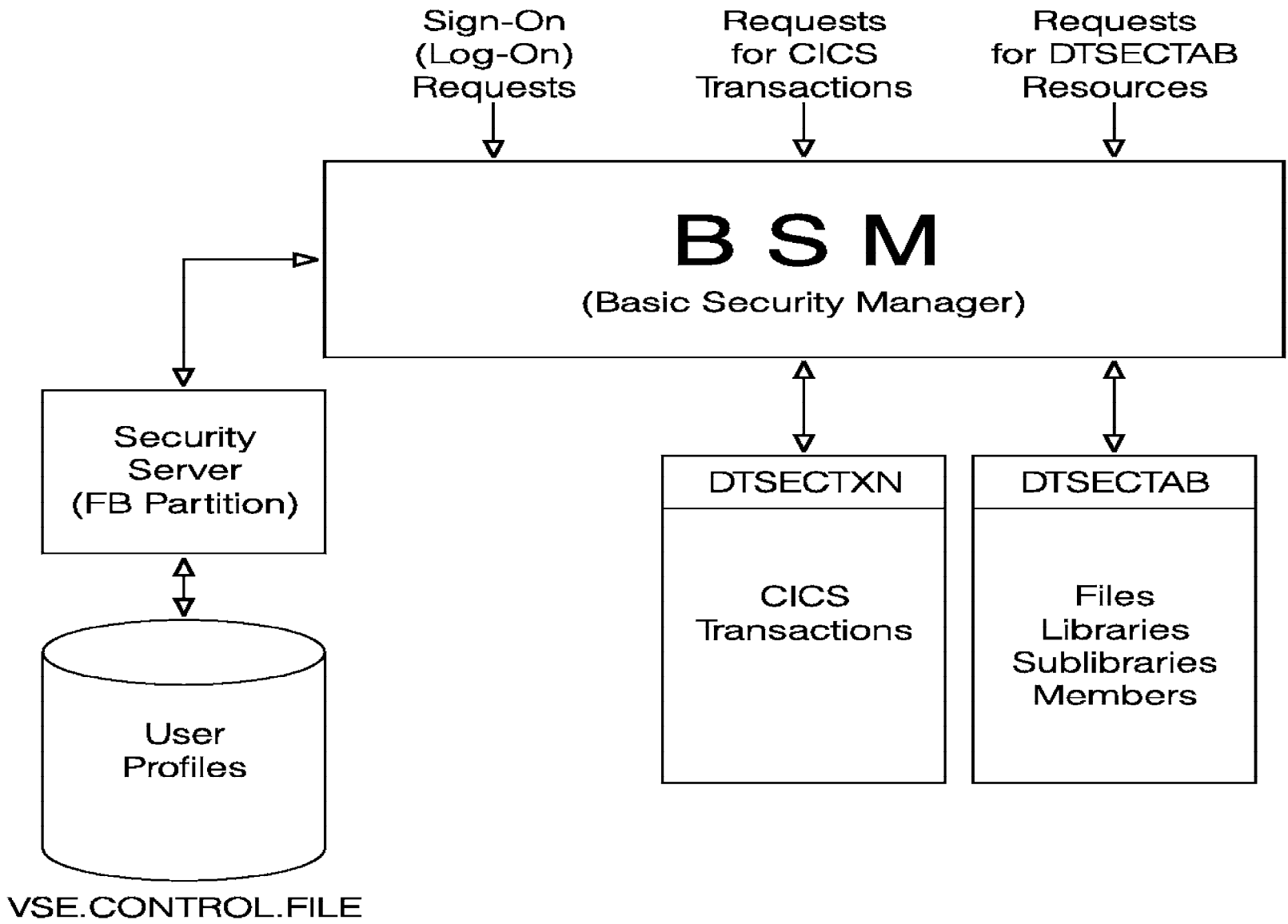
- 2000+/- CICS users
- 5 Production CICSs
- 5 Development CICSs
- 2 Systems test CICSs
- Converted to CA-Top Secret 3.0 in fall 1999
 - Hear more: CICS/TS User Experience
 - Monday 10:30, User 1
- Were using CA-Top Secret 2.3

CICS/TS Security Options

- BSM
- ESM
 - CA-Top Secret
 - BIM-Alert/CICS
 - Others?

BSM

- Limited function with CICS/TS
 - Transaction security only
 - No RSL support
- Only for CICS/TS, not CICS 2.3
 - Must duplicate security changes during conversion



SIT Security Settings

- DFLTUSER
- ESMEXITS
- PLTPISEC
- PLTPIUSR
- RESSEC
- SEC
- SECPRFX
- XCMD
- XDCT
- XAPPC
- XFCT
- XJCT
- XPCT
- XPPT
- XPSB
- XTRAN
- XTST
- XUSER

ACIDs

- The ACID (Accessor ID) is the USERID
- Several ACIDs within CICS
 - The ACID of the CICS region job
 - * \$\$ JOB ... SEC=(userid,password)
 - // ID USER=userid,PWD=password
 - The ACID of the CICS user signed on
 - IUI User
 - CESN
 - The default ACID when there is no CICS user signed on
 - DFLTUSER=
 - The ACID for PLTPI processing
 - PLTPIUSR=

Quirks

- CEMT INQ TRANS(*) only displays transactions you have access to
- SPI interface requires additional security settings for the user
- The statistics transaction requires many additional security permissions

CA-Top Secret

- Security options that affect CICS
 - OTRAN
 - SPI
 - CONS

CA-Top Secret

- Basic setup
 - Resources should be in their own Zone
 - Profiles are a division in the resource zone
 - Different types of resources in different Divisions within the resource zone

CA-Top Secret Resources

- CREATE(RESOURCE) TYPE(ZONE)
 - CRE(VCSPROFS) TYPE(DIVISION)
 - CRE(TRAN) TYPE(DIVISION)
 - CRE(SPI) TYPE(DIVISION)
 - CRE(PROG) TYPE(DIVISION)
 - CRE(LIBR) TYPE(DIVISION)
 - CRE(FILE) TYPE(DIVISION)

CA-Top Secret Profiles

- CREATE(VCSPROFS) TYPE(DIVISION)
 - CRE(EVERYONE) TYPE(PROFILE)
 - CRE(EVERYMIS) TYPE(PROFILE)
 - CRE(PROFSYS) TYPE(PROFILE)
 - CRE(PROFPGM) TYPE(PROFILE)
 - CRE(PROFOPR) TYPE(PROFILE)
 - CRE(PROFCICS) TYPE(PROFILE)
 - CRE(PROFSUB) TYPE(PROFILE)

CA-Top Secret Profiles

- A single user will have access to multiple profiles
- Set up model users for each type of user
 - CRE(BASEOPR) TYPE(USER) DEPT(OPER)
 - ADDTO(BASEOPR) PROFILE
(PROFOPR,EVERYMIS,EVERYONE)
 - ADDTO(BASEOPR) VSEMCON
- When creating the a new operations user, use BASEOPR as a model
- Requires the use of the “ALLMERGE” option
- Some options (like MISCx) are not copied from model

OTRAN

- CREATE(TRANIBM) TYPE(DEPT)
 - ADDTO(TRANIBM) OTRAN(CEBR)
 - PERMIT(PROFPGM) OTRAN(CEBR)
 - PERMIT(PROFSYS) OTRAN(CEBR)
ACC(ALL)
 - PERMIT(PROFCICS) OTRAN(CEBR)
ACC(COLLECT)

OTRAN QUIRKS

- Some transactions do SPI commands
 - PERMIT(EVERYONE) OTRAN(SPYL)
ACCESS(EXECUTE,INQUIRE)

SPI

- CREATE(SPIALL) TYPE(DEPT)
 - ADDTO(SPIALL) SPI(AUTINSTM)
 - ADDTO(SPIALL) SPI(AUTOINST)
 - ADDTO(SPIALL) SPI(COLLECT)
 - ADDTO(SPIALL) SPI(CONNECTI)
 - ADDTO(SPIALL) SPI(DELETESH)
 - ADDTO(SPIALL) SPI(DSNAME)
 - And a LOT more may be needed

SPI

- PERMIT(EVERYONE) SPI(EXITPROG)
ACC(SET)
- PERMIT(EVERYONE) SPI(FILE)
ACCESS(INQUIRE,SET)
- PERMIT(EVERYONE) SPI(PROG)
ACCESS(INQUIRE)
- PERMIT(CNSL) SPI(PROG) ACCESS(ALL)

CONSOLE

- CREATE(OPRCON) TYPE(DEPT)
 - CREATE(CNSL) TYPE(USER) SOURCE(CNSL)
FAC(CICSPROD,CICSTEST) PASSWORD(NOPW,0)
OPIDENT(CNL)
 - PERMIT(CNSL) OTRAN(CEMT) ACC(ALL)
 - ADDTO(CNSL)
TRANSACTION(CICSPROD,(CEMT))
 - ADDTO(CNSL)
TRANSACTION(CICSTEST),(CEMT))

Datasets

- For Batch access, Datasets are protected by DSN
- For CICS access, VCS chose to not implement CICS Userid access
 - XFCT=NO

The X's

- XCMD
- XDCT
- XAPPC
- XFCT
- XJCT
- XPCT
- XPPT
- XPSB
- XTRAN
- XTST
- XUSER

Controlling the X's

- Set in SIT
- Set in CA-Top Secret TSSPARMS file
 - Forces CA-Top Secret to override the SIT during CICS startup
 - Easier here with multiple production/test CICSs
 - FACILITY(CICSPROD=FACMATRX=YES)
 - FACILITY(CICSPROD=XCMD=YES)
 - FACILITY(CICSPROD=XFCT=NO)

Facility

- CICS grouped by FACILITYs
- Assign a FACILITY when defining the ACID used by the CICS partition job
 - CREATE(CICSPRD) FACILITY(BATCH)
MASTFAC(CICSPROD) PASS(xxxxxxxx,0)
DEPT(IBMUSERS) NOSUSPEND
NOSUBCHK NOVOLCHK

TSSPARMS

- AUTH(MERGE,ALLMERGE)
- FACILITY(CICSPROD=DORMPW)
- FACILITY(CICSPROD=WARNPW)
- FACILITY(CICSTEST=DORMPW)
- FACILITY(CICSTEST=WARNPW)
- FACILITY(CICSPROD=SIGN(M))
- FACILITY(CICSTEST=SIGN(M))

TSSPARMS

- FAC(CICSPROD=FACMATRX=YES)
- FAC(CICSPROD=XCMD=YES)
- FAC(CICSPROD=XFCT=NO)
- FAC(CICSPROD=PCTRESSEC=OVERRIDE)
- FAC(CICSPROD=NOLUMSG)
- FAC(CICSPROD=NOSTMSG)
- FAC(CICSPROD=NORNDPW)

TSSPARMS

- FAC(CICSPROD=BYPREM(CEMT=SET))
- FAC(CICSPROD=BYPADD(CEMT=INQUIRE))
- FAC(CICSPROD=BYPADD(SPI=SYSTEM))
- FAC(CICSPROD=BYPREM(SPI=SET))
- FAC(CICSPROD=BYPADD(SPI=INQUIRE))
- FAC(CICSPROD=BYPADD(SPI=PWRSPPOOL))

TSSPARMS

- FAC(CICSPROD=BYPADD(TRANID=SESN))
- FAC(CICSPROD=BYPADD(TRANID=M4SP))
- FAC(CICSPROD=BYPADD(TRANID=SPYC))
- FAC(CICSPROD=BYPADD(TRANID=SPYR))
- FAC(CICSPROD=BYPADD(TRANID=SPYQ))
- FAC(CICSPROD=BYPADD(TRANID=BMTP))
- FAC(CICSPROD=BYPADD(PCT=SPYC))
- FAC(CICSPROD=BYPADD(PCT=SPYI))

Miscellaneous

- Initial conversion was for VSE 2.4
 - During upgrade to VSE 2.5 and 2.6, required some additional security additions
 - STC (Started Task Command) only in OS/390 Manual
 - CA-TOP Secret Implementation: BATCH, STC, and APPC Guide; Release 5.1; OS/390
- Initial conversion was with first GA version of CA-Top Secret
 - During every upgrade of TSS, additions to the control file were required
 - Most times not documented
- Because we used PROFILES, changes were minor

Information

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- Download this presentation and our CA-Top Secret master configuration file for CICS/TS at:
<http://www.vse2pdf.com/coolstuff>