VSE/ESA 2.4
User Experiences

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Background at Grede

- Not a heavy user of CICS
  - About 165,000 transactions per day
  - 80% use Natural from Software AG
  - Remainder is COBOL and OEM products
- CICS still a mission critical function
- Requirements are the same as heavily used systems
  - 99+% availability
  - 1/3 second internal response time

Background at Grede, cont...

- ICCF partition
  - program development & operations
- 1 TOR and 1 AOR
  - All in house apps and OEM support
  - Natural and COBOL

VSE/ESA Version 2.4

- Besides a re-install, not many outright changes
- Plenty of changes internally
  - OS/390 emulation mode
  - Turbo Dispatcher only
- Some OEM products may require updating
  - Luckily most of this had been done for Y2K anyway

CICS Transaction Server 1.1

- Installs with VSE into normal library structure
- A whole new CICS world
  - new message format
  - displays changed
  - many new abend codes
- Very exciting new and expanded features
  - CICS Clients
  - CICS Web Support/3270 Bridge
  - REXX for CICS

What's been done so far...

- Basic installation - the easy part
  - in my sandbox system
  - isolated and low priority
  - not much in the area of tuning, yet
- Tailored to mimic our existing layout
- All OEM/Optional product installs
  - TCP/IP, PSF, DB2
  - ADABAS, Natural, Dynam, FAQS

OEM product status

- TCP/IP works fine (SP K and L)
- ADABAS 6.2.2 needs fixes, 6.2.3 no problems
- Natural 2.3 require SAG fixes
  - also a VSE supervisor fix (ECB not being posted)
- Natural 3.1 OK
- DYNAM Family at 9901+ (or 9907) - OK
  - CUI still being changed to Command Level
  - Available with service in 2000
- CA-FAQS requires 9907 for online support

CICS Specific notes

- Very few problems
  - outside of learning new concepts
    - DSA's, Trace, Dump, other changes
- Programs need not be defined
  - they can be autoinstalled
- Files and LSR Pools in CSD
- Expanded CEMT displays

CICS/TS startup...

```
F2 0001 1Q47I   F2 CICSZULU 00862 FROM ZULU(RKS0) , TIME=16:01:12
F2 0002 // JOB CICSZULU      ZULU MAIN CICS
        DATE 04/01/2000, CLOCK 16/01/12
F2 0002 *   WAITING FOR VTAM TO COME UP
F2 0002 DFHPA1101  DBDCCICS DFHSITP1 IS BEING LOADED.
F2 0002 DFHPA1108  CICSZULU DFHSITP1 HAS BEEN LOADED. (GENERATED AT: MM/DD=
        09/29 HH:MM= 05:36).
F2 0002 DFHPA1100  CICSZULU OVERRIDE PARAMETERS FROM JCL EXEC STATEMENT:
        SIT=P1,START=COLD,$END
F2 0002 DFHTR0103 TRACE TABLE SIZE IS 80K
F2 0002 DFHSM0122I CICSZULU Limit of DSA storage below 16MB is 5,120K.
F2 0002 DFHSM0123I CICSZULU Limit of DSA storage above 16MB is 24M.
F2 0002 DFHSM0113I CICSZULU Storage protection is not active.
F2 0082 DFHDM0101I CICSZULU CICS is initializing.
F2 0083 DFHXS1100I CICSZULU Security initialization has started.
F2 0083 DFHSI1500 CICSZULU CICS startup is in progress for CICS Transaction Server Version
1.1.0
F2 0083 DFHSI1501I CICSZULU Loading CICS nucleus.
F2 0083 DFHXS1105 CICSZULU Resource profiles for class TCICSTRN have been built.
F2 0083 DFHXS1103I CICSZULU Default security for userid CICSUSER has been established.
F2 0083 DFHXS1101I CICSZULU Security initialization has ended.
F2 0083 DFHMN0105I CICSZULU Using default Monitoring Control Table.
F2 0083 DFHMN0110I CICSZULU CICS Monitoring is inactive.
F2 0084 DFHST0103 CICSZULU A DMF error has occurred with return code X'10'.
F2 0083 DFHSI1502I CICSZULU CICS startup is Warm.
F2 0084 DFHSI1503I CICSZULU Terminal data sets are being opened.
F2 0084 DFHDU0304I CICSZULU Transaction Dump Data set DFHDMPA  opened.
```

CICS/TS startup, continued...

```
F2 0084 DFHSI1510I CICSZULU Journal control subtask is being attached/entered.
F2 0084 DFHCP0101I CICSZULU CPI initialization has started.
F2 0084 DFHPR0104I CICSZULU Partner resource manager initialization has started.
F2 0084 DFHAI0101I CICSZULU AITM initialization has started.
F2 0084 DFHSI1516I CICSZULU Opening journal data sets.
F2 0084 DFHTD0100I CICSZULU Transient Data initialization has started.
F2 0084 DFHTS0100I CICSZULU Temporary Storage initialization has started.
F2 0084 DFHFC0100I CICSZULU File Control initialization has started.
F2 0084 DFHTS0101I CICSZULU Temporary Storage initialization has ended.
F2 0084 DFHFC0101I CICSZULU File Control initialization has ended.
F2 0084 DFHTD0101I CICSZULU Transient Data initialization has ended.
F2 0085 DFHJC4508 CICSZULU CICS SYSTEM LOG. PRIMARY   DATA SET NOW RECEIVING OUTPUT ON 011D
F2 0084 DFHJC4500 CICSZULU 01 of 01 journals successfully opened
F2 0084 DFHCP0102I CICSZULU CPI initialization has ended.
F2 0084 DFHPR0105I CICSZULU Partner resource manager initialization has ended.
F2 0084 DFHAI0102I CICSZULU AITM initialization has ended.
F2 0084 DFHAP1203I CICSZULU Language Environment for VSE/ESA is being initialized.
F2 0084 DFHSI8430I CICSZULU About to link to PLT programs during the third stage of
initialization.
F2 0084 DFHSI8434I CICSZULU Control returned from PLT programs during the
        third stage of initialization.
F2 0084 DFHSI1517 CICSZULU Control is being given to CICS.
```

Dynamically modifyable DSA sizes

```
I DSA
   STATUS:  RESULTS - OVERTYPE TO MODIFY
SOSStatus( NOTSOS )

Dsalimit( 05242880)
Cdsasize( 01048576 )
Rdsasize( 00524288 )
SDsasize( 00524288 )
Udsasize( 00262144 )


EDsalimit( 0014680064 )
ECdsasize( 0005242880 )
ERdsasize( 0005242880 )
ESdsasize( 0001048576 )
EUdsasize( 0001048576 )




                              SYSID=CICS APPLID=ZULUICCF
                              TIME:   18.56.07  DATE: 10.18.99
RESPONSE: NORMAL
 PF 1 HELP        3 END          7 SBH 8 SFH 9 MSG 10 SB 11 SF
```

Current configuration under VSE 2.4

- 1 TOR and 1 AOR and ICCF
- Initial configuration
  - ICCF under CICS/TS (required)
  - TOR under CICS/TS (for IUI - required)
  - AOR under CICS/VSE - coexistence
    - Natural applications
    - DOS/VS COBOL applications
    - Some OEM software not yet ready for CICS/TS

Likely configuration change

- When OEM issue resolved...
  - Move Natural into the TOR
  - Keep AOR for old COBOL apps
    - most of this code performs CSA access
    - use CICS/TS as TOR to access these apps
    - usage is minimal, so little performance hit

CICS Universal Clients Version 3

- Distributed CICS stub system that runs on:
  - Win 95/98/NT, AIX, OS/2, more…
- Communicates to CICS/VSE or CICS/TS over APPC
- Provides ECI, EPI and ESI
  - External Call Interface
  - External Presentation Interface
  - External Security Interface
- License available with CICS/TS
  - Comes on CD or can be downloaded
- CICS Clients Version 2 work with CICS/VSE +PTFs

More on CICS Clients...

- ECI
  - Make a call from workstation program to CICS program running on VSE
- EPI
  - Programmatically navigate screens to provide front end display capability
- ESI
  - Check and/or change user password

More on CICS Clients...

- Write Client side programs in:
  - C, COBOL, Visual Basic, Java, REXX
- REXX Support for Windows new in V3

CICS Client program sample

Program Name to call →

commarea to pass →

Make the call →

Display returned commarea →

```
Call RexxSetup                        /* Ensure RexxUtil loaded  */
Call EciSetup                         /* Ensure RxCICS loaded    */
ECI.program_name = "CALENDAR"         /* required                */
started=time() date()
indate=date('U')
say 'Test started at' started
commareaR=left(' B11'indate'         12/31/99',105)
ECI.commarea_length = 105            /* set the length          */
say 'Outgoing COMMAREA:'commareaR
a=time('R')                          /* start the timer         */
commarea2 = ECI('ECI.',commareaR)    /* make the call           */
b=time('E')                          /* stop the timer          */
say 'Time='||b
say 'Returned COMMAREA:'commarea2
CALL CHECKECI eci.return_code  /* Check the ECI return code */
if eci.return_code <> 0 then
  call show_eci_stem
exit
```