CICS TS Coexistence

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CICS/VSE	VSE/ESA
COBOL/370	Language Environment
VTAM	

Topics

- What is Coexistence
- Coexistence scenarios
- Sharing resources
- SVA considerations
- VSE support
- Summary

What is Coexistence

- Support for staged migration of obsolete CICS functions

- Coexistence release
  - CICS/VSE 2.3
  - Shipped with VSE/ESA 2.4+
    - Optional product on extended base tape
  - Runs in same VSE 2.4+ system with CICS TS

What is Coexistence...

- CICS/VSE 2.3 coexistence release
  - Support for withdrawn CICS functions
    - BTAM
    - Macro level programs
    - Unsupported languages
    - Internal security, etc.
  - Supports DL/I DOS/VS 1.10
  - Supports DB2 for VSE 6.1 and above

What is Coexistence...

- CICS/VSE 2.3 coexistence release...
  - No Interactive Interface support
  - No ICCF support
  - No OLPD support

Interactive Interface and ICCF must run in CICS TS partition

Coexistence scenarios

Separate standalone partitions

CICS/VSE 2.3

Command and macro level applications

BTAM/VTAM terminals

CICS TS 1.1

Command level applications Interactive Interface

VTAM terminals

Data

BTAM terminals

VTAM terminals
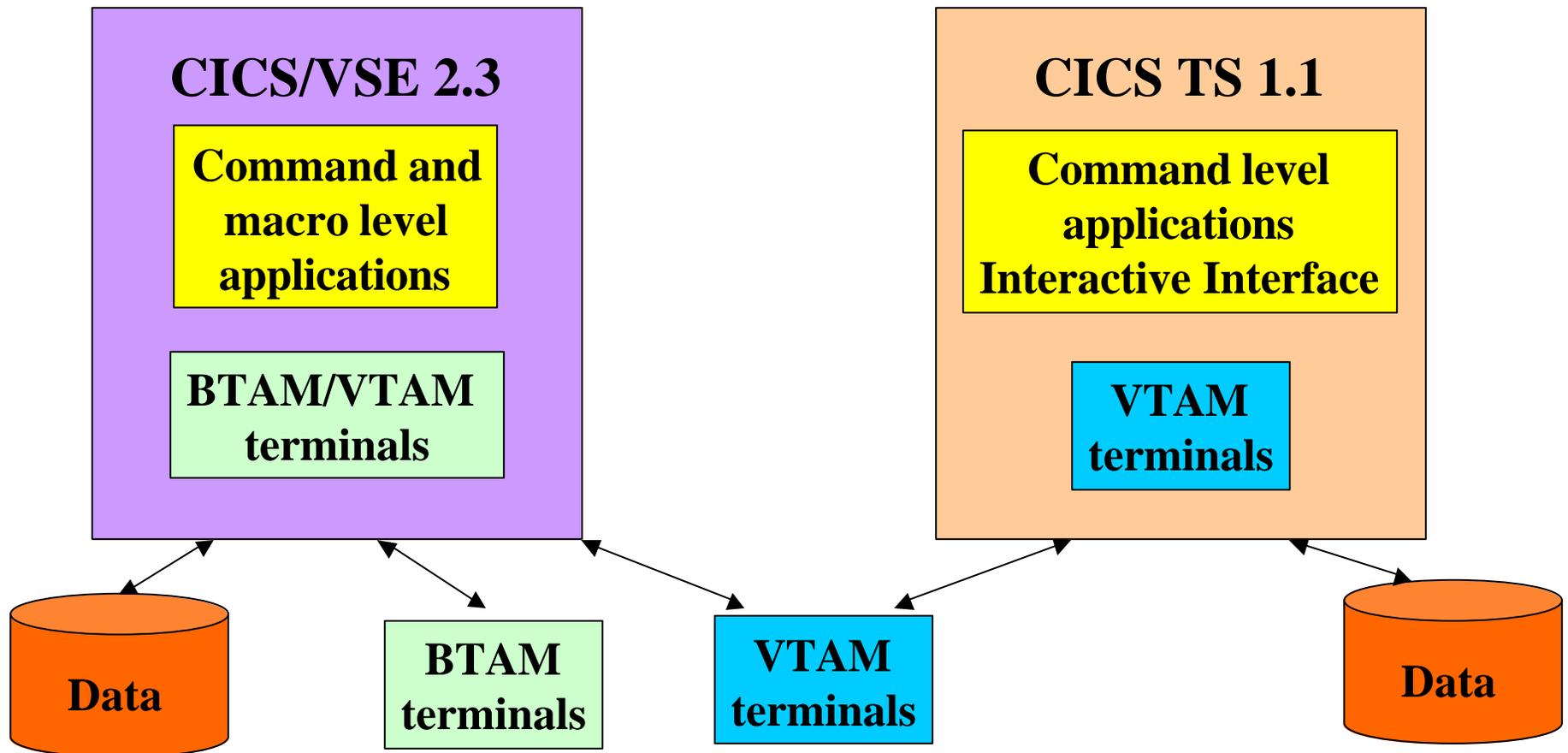
Data

Coexistence scenarios...

BTAM terminal access to CICS TS applications

CICS/VSE 2.3		CICS TS 1.1
Remote transaction definitions		**MRO remote BTAM terminal definitions**
BTAM terminal definitions	**MRO Transaction Routing**	**Command level applications**

**BTAM terminals**

VTAM terminals
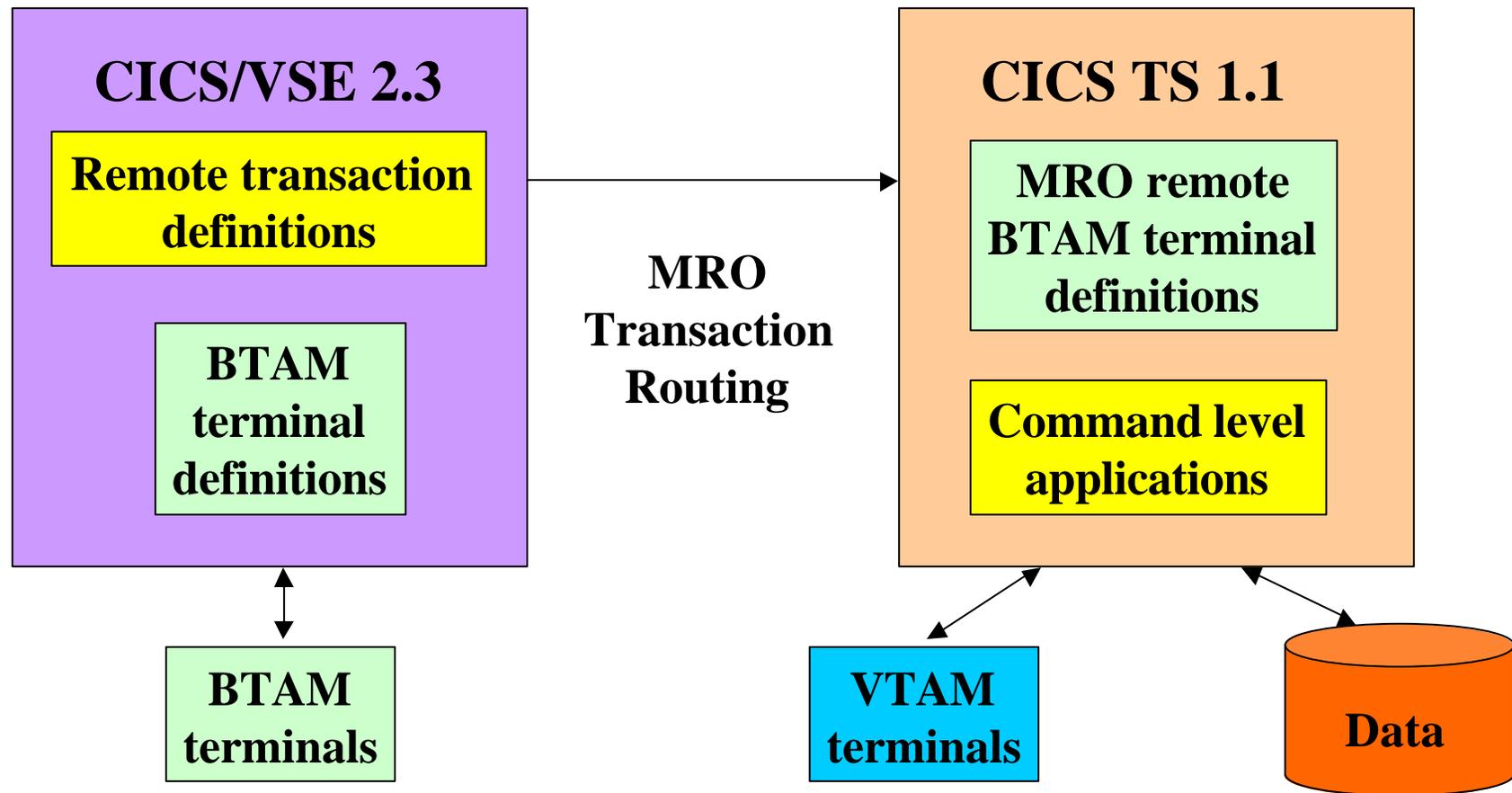
Data

Coexistence scenarios...

CICS TS terminal access to macro level applications
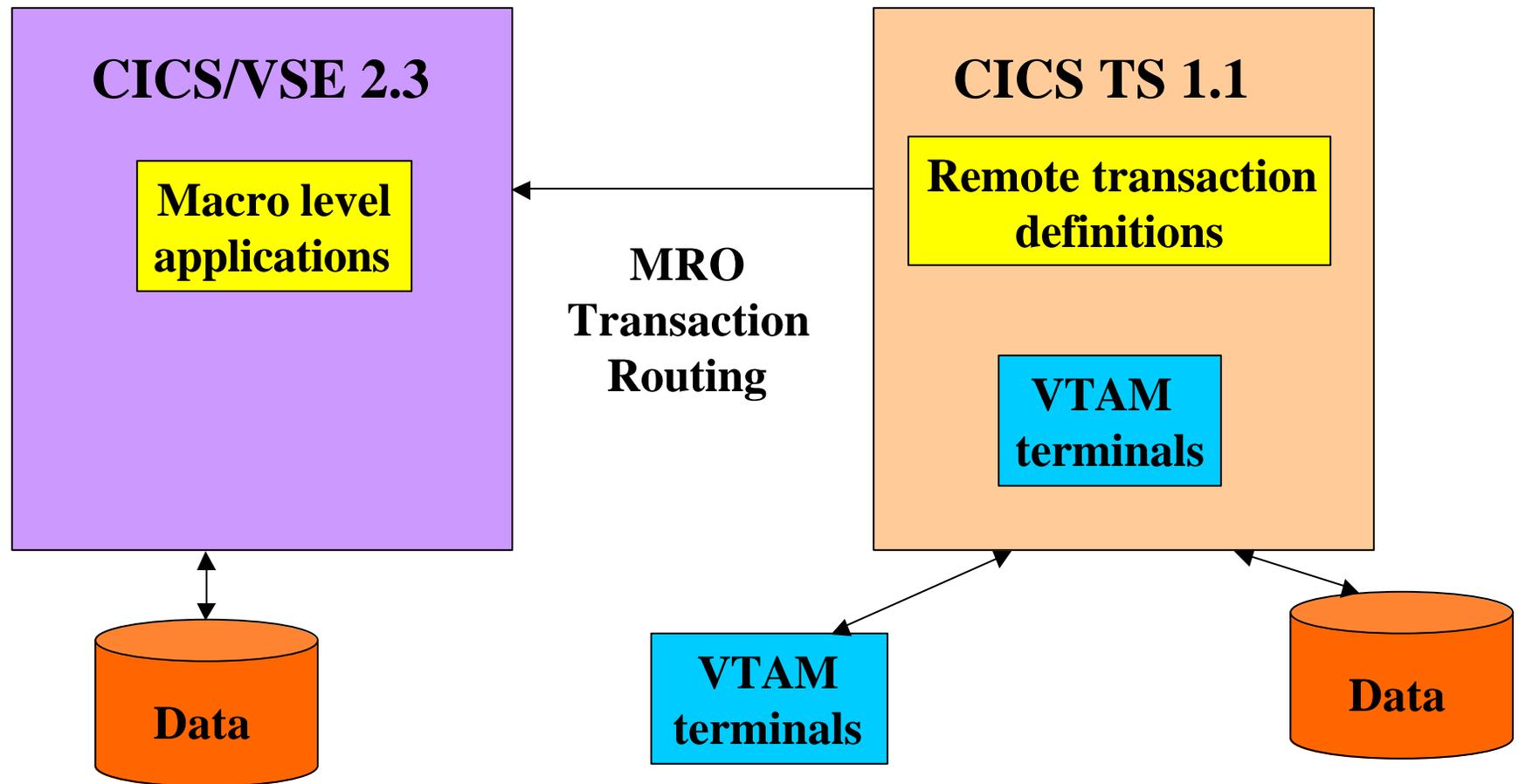
Coexistence scenarios...

CICS TS application access to CICS/VSE data

CICS/VSE 2.3
- Local resource definitions
- Macro level applications

MRO Function Shipping

CICS TS 1.1
- Remote resource definitions
- Command level applications

Data

VTAM terminals
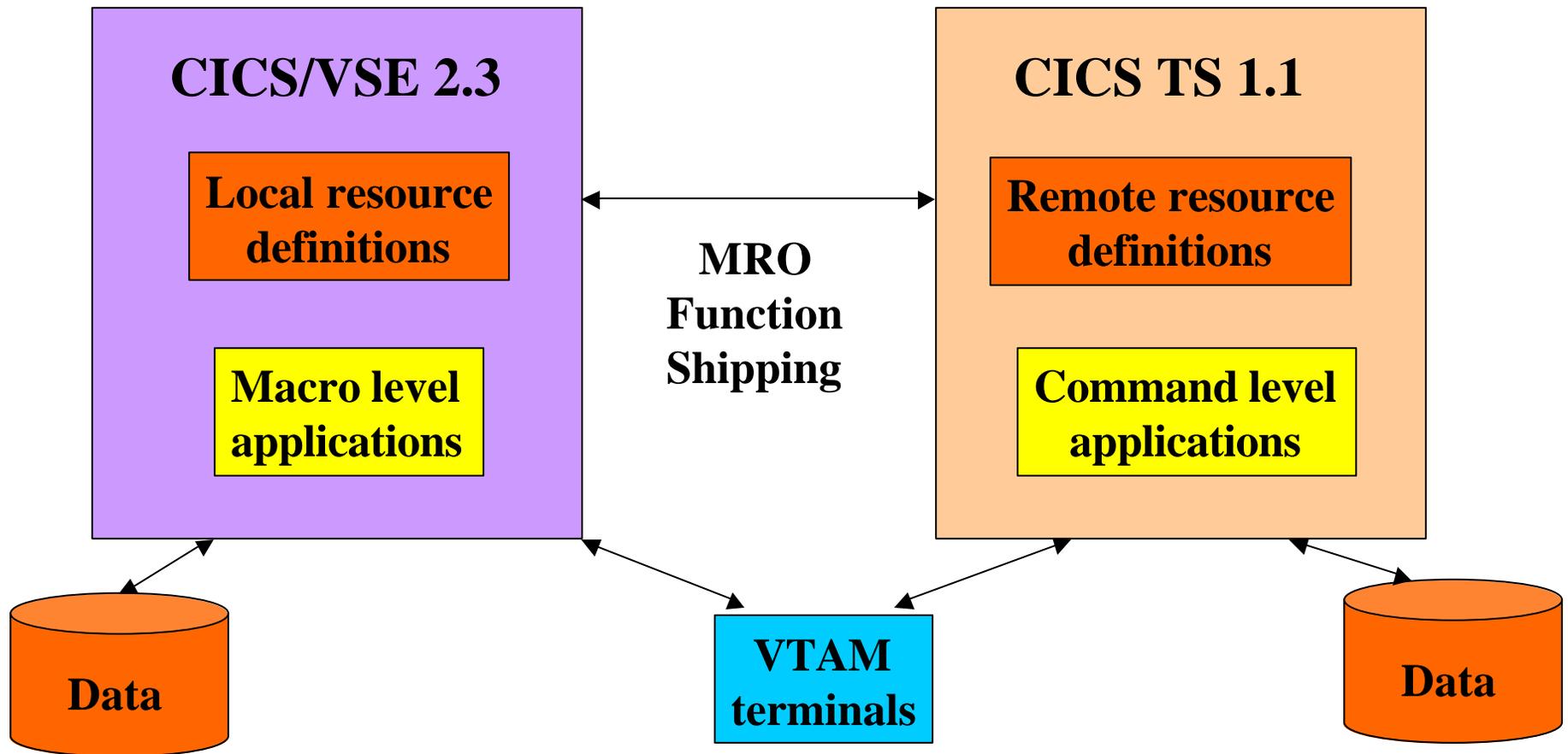
Data

Coexistence Considerations

- Sharing data between CICS TS and CICS/VSE
  - Do both partitions need access to the same data?
- Application and system definitions for separate CICS releases
  - Maintain separate libraries and compile procs
  - Compile applications and maps using CICS/VSE 2.3 libraries

Sharing Data Resources

- Same considerations as prior releases
- Command level applications
  - Use MRO function shipping between CICS partitions to ensure data access integrity
  - FCT, transient data, temporary storage, DL/I, data tables, EXEC START
    - CICS/VSE 2.3 access to shared data tables through function shipping request to CICS TS

Sharing Data Resources...

- **Macro level applications**
  - No support for MRO function shipping
 - Data must reside in same partition as application

Sharing the CSD

- Support to share CSD between CICS/VSE 2.3 and CICS TS
  - Update with CEDA from CICS TS or DFHCSDUP
    - Supports updating CICS/VSE parameters
  - Define as read-only to CICS/VSE
  - Compatibility groups
    - CICS/VSE 2.3 definitions that are obsolete or incompatible with CICS TS definitions
      - DFHCOMP1, DFHCOMP2 (Report Controller)
    - Add last in CICS/VSE grouplist

Sharing the CSD...

- Create separate CSDs for CICS/VSE and CICS TS
  - CICS TS CSD installed with VSE/ESA 2.4+
  - Use CSD from old system
    - Backup from current system and restore on VSE/ESA 2.4+
    - Run DFHCSDUP to upgrade to CICS/VSE 2.3 level
    - Remove ICCF and Interactive Interface entries
  - VSE skeleton SKPREPCO creates new CICS/VSE 2.3 CSD on VSE/ESA 2.4+

Sharing BSM Security

CICS/VSE 2.3   **CICS TS 1.1**

| Sign-on Requests | Sign-on and Transaction Requests | Security Server FB |

RACROUTE

| SNT | BSM | User Profiles |

VSE Control File
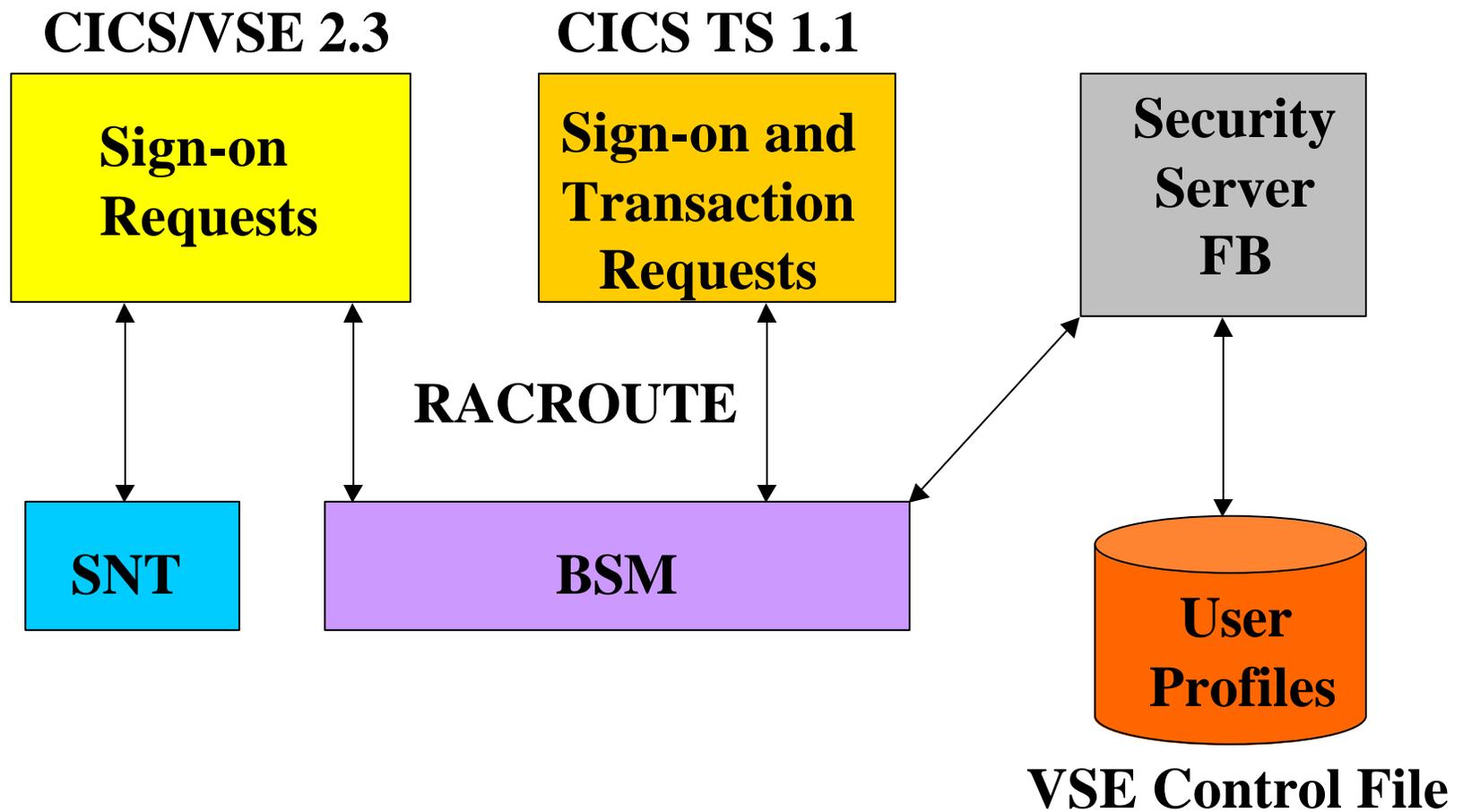
Sharing BSM Security ...

- Implement CICS/VSE 2.3 BSM support
  - Assemble <u>CICS/VSE 2.3</u> ESM interface modules
    - DFHXSE and DFHXSSCO
    - Source supplied in <u>PRD1.BASE</u> as .A books
    - Macro program assembly
      - See CICS/VSE Customization Guide for DFHXSE example
    - Requires CICS/VSE production and generation source libraries (PRD2.CICSOLDP, PRD2.CICSOLDG) and VSE generation library (PRD2.GEN1)
  - Add PPT entry for DFHXSSCO

Sharing BSM Security ...

- **Implement CICS/VSE 2.3 BSM support ...**
  - SNT required with default user entry
    - DFHSNT TYPE=(ENTRY,DEFAULT)
    - OPERID, OPERPRIORITY, operator class and transaction security keys taken from default entry if parameters coded in SNT
      - Fields are blank if no parameters coded
  - Modify DFHXSSCO to use CICS security values from BSM user profiles
  - Specify EXTSEC=YES in SIT

SVA Considerations

- CICS TS modules required in SVA
  - DFHCSVC, DFHDSPEX (mandatory)
  - DFHIRP, DFHCSTE, DFHIRW10 (MRO support)
  - DFHCSEOT (MRO and data tables support)
  - DFHDTSVC, DFHDTSAN (data tables support)
  - DFHCDDAN (XRF)
  - Loaded in BG ASI by $SVACICS loadlist
- Downward compatible with CICS/VSE 2.3

SVA Considerations...

- CICS/VSE and CICS TS cannot share SVA-eligible modules with the same name

- Load CICS/VSE 2.3 modules in SVA

- Use CICS TS parameters to control SVA access

SVA Considerations...

- CICS TS SVA controls
  - SIT SVA=<u>NO</u>
    - SVA-eligible modules loaded in read-only DSAs
    - SVA is not used except for required modules
  - PRVMOD system initialization parameter
    - List of SVA-eligible modules loaded in read-only DSAs if SIT SVA=YES
    - List of common modules in DFH$SVEX.J in PRD1.BASE
    - Input from SYSIPT only

SVA Considerations...

- LE for VSE/ESA modules can be in SVA
  - Shared by CICS/VSE and CICS TS
  - Specify SVA=YES and CICS common SVA modules in PRVMOD for CICS TS
- DL/I
  - DL/I VSE 1.11 SVA controls
    - DLZACT CONFIG SVA=NO
    - SVA-eligible modules loaded in read-only DSAs
    - Specify if CICS/VSE 2.3 uses DL/I DOS/VS 1.10

VSE 2.4+ Support

- CICS/VSE 2.3
    - Optional product on extended base tape
    - Default libraries
        - PRD2.CICSOLDP (production)
        - PRD2.CICSOLDG (generation)
    - Skeletons in ICCF library 59

VSE 2.4+ Support...

- **Supplied CICS/VSE 2.3 Skeletons**
  - Startup job – SKCICSOL
  - CICS/VSE 2.3 system file definitions
    - SKPREPCO – creates CICS/VSE 2.3 CSD and other CICS/VSE system files
    - SKPREPSO – shares CICS TS CSD and creates other CICS/VSE system files
    - SKJOURO – format CICS/VSE journal files

VSE 2.4+ Support...

- **Supplied CICS/VSE 2.3 Skeletons...**
  - CICS tables
    - DFHxxxCO
      - DCT, FCT, JCT, SNT, PPT, PCT, SIT, TST, TCT, XLT
    - DFHxxxSO
      - PCT and PPT for use with shared CICS TS CSD
    - DFHPLTPO, DFHPLTSO
  - Auxtrace and dump dataset print jobs
    - DFHAUXOL, SKCIDUMP

VSE 2.4+ Support...

- **Supplied CICS/VSE 2.3 Skeletons...**
  - CICS User Replaceable Modules
    - Autoinstall program (IESZATCO)
    - Node error program (IESZNEPO)

VSE 2.4+ Support...

- Documentation to create a coexistence environment
  - VSE/ESA Administration manual
    - CICS/VSE setup and tailoring
    - Definitions for MRO connections to CICS TS

Summary

- Coexistence environment to support withdrawn functions

    - Facilitates migration to CICS TS

- CICS/VSE coexistence release

    - Run as separate, independent partition or interconnected to CICS TS with MRO

- VSE/ESA 2.4+ support for installation and tailoring

Available CICS TS Classes

- CICS TS Migration - A3731
    - What you need to know to migrate to CICS TS
    - Hands-on machine labs
    - 3 day class
        Chicago   5/6-8
        Atlanta   7/17-19

Available CICS TS Classes...

▐ CICS TS Tuning and Problem Determination - A3732

   ▐ Getting the best performance from CICS TS
   ▐ Handling dumps, abends, traces, and so forth
   ▐ Hands-on machine labs
   ▐ 3 day class

        WAVV   4/17-19
        Dallas   6/19-21
        Atlanta   8/12-14

Available CICS TS Classes...

- CICS TS Under the Covers - A3733
  - Using new function in CICS TS
  - Understanding more about how it works
  - Hands-on machine labs
  - 2 day class
    - Dallas   6/17-18
    - Atlanta   8/15-16

Other Sources of Information

- **IBM Redbooks**
  - Migration to VSE/ESA 2.4 and CICS Transaction Server for VSE/ESA 1.1   (SG24-5595)
  - Implementation of VSE/ESA 2.4 and CICS Transaction Server for VSE/ESA 1.1   (SG24-5624)
- **CICS Transaction Server Website   www-4.ibm.com/software/ts/cics**
  - Manuals, flyers, brochures, etc.