Session Title: Communicating with IBM

*ShopzSeries

Session ID: zEG09

Speaker Name: Stev Glodowski

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Notes:
Performance is in Internal Throughput Rate (ITR) ratio based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput improvements equivalent to the performance ratios stated here.
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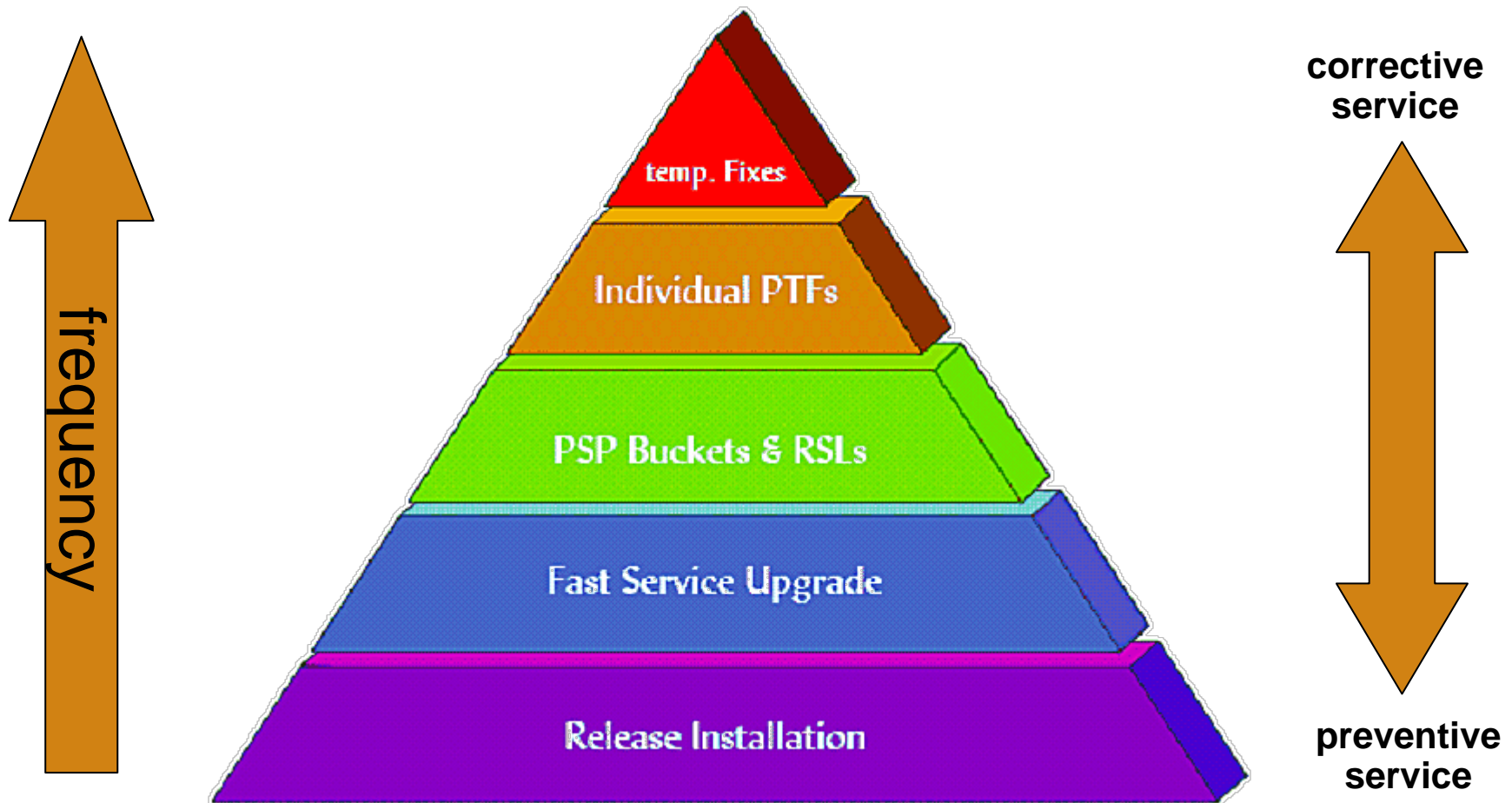
Agenda

- z/VSE Electronic Support

- Service deliverables

  – Refresh, PSP, RSL, RSU …

- How to help yourself in case of a problem

  – Search for APARs and PTFs

- ShopzSeries

  – Ordering service and products

  – Installing downloaded PTFs and products

z/VSE Electronic Support

www.ibm.com/VSE

e-Lab Support

z/VSE – Global Team

US

RU

DE

AUS

e-Lab Support – WHY ?

- Instant access to worldwide available skills

- Speed up problem solving

- Direct access to support team

e-Lab Support - BASICS

- All zVSE customers are entitled to report suspected defects and request service via **SSR** (Software Service Request)

- Standard response time 2H / 4H / EoN
    - Off shift for Sev 1 (2H)
    - For Sev 1 call ISC in addition

- English only

- Electronic Service delivery only (except RSL)
    - Via Email, Shopz, z/VSE Homepage

- Start with US and Canada

e-Lab Support - PROs

- Direct access to VSE Lab skill (world-wide)

- Shortest way to the expert

- Skip intermediate support levels

- Describe problem only once
  - No information loss as possible during voice communication

- No need to be available for phone calls
  - If required or requested then phone calls may be arranged

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VSE service pyramid

frequency

temp. Fixes

Individual PTFs

PSP Buckets & RSLs

Fast Service Upgrade

Release Installation

corrective service

preventive service

The service pyramid for VM is similar, e.g. instead of FSU -> RSU

Priority 1: Stay on a supported level

- Make sure that your system is always on a supported level
  - to get help and support from IBM when you need it

- Plan ahead sufficient time
  - for release or version upgrade
  - for PTF installation

- IBM announces End-of-Service dates
  at least 12 Month ahead
  - VSE: http://www.ibm.com/servers/eserver/zseries/zvse/
  - VM: http://www.vm.ibm.com/techinfo/lpmigr/vmleos.html

- Consult your software vendors for upgrades and specific information

End-of-Service dates

Product	End of Marketing	End of Service
z/VSE 4.1	October 31, 2008	April 30, 2010
z/VSE 3.1	May 31, 2008	July 31, 2009
VSE/ESA 2.7	September 30, 2005	February 28, 2007
VSE/ESA 2.6	March 14, 2003	March 31, 2006
VSE/ESA 2.5	December 14, 2001	December 31, 2003

http://www.ibm.com/servers/eserver/zseries/zvse/about/status.html

Product	End of Marketing	End of Service
z/VM 5.3	-	September 2010
z/VM 5.2	-	April 2009
z/VM 5.1	September 2006	September 2007
z/VM 4.4	March 2006	September 2006
z/VM 4.3	August 2003	May 2005

http://www.vm.ibm.com/techinfo/lpmigr/vmleos.html

VSE: Refreshes

- VSE Base Tapes + Optional Product Tapes
    - For Fast Service Upgrade (FSU) **(always possible for 2 follow-on releases)**
        - Upgrade from older releases Releases (e.g. VSE/ESA 2.7 -> z/VSE 4.1)
        - Refresh to a higher Level (e.g. z/VSE 4.1.0 -> z/VSE 4.1.2)
    - For base installation
- Contains all PTFs available until a cut off day
- have undergone a basic regression test by IBM
- are orderable until a new refresh level or new release becomes available

Product	End of Marketing	End of Service
z/VSE 4.1.2 *June 2008	**October 31, 2008**	**April 30, 2010**
z/VSE 3.1.3	**May 31, 2008**	**July 31, 2009**
VSE/ESA 2.7.3	**September 30, 2005**	**February 28, 2007**
VSE/ESA 2.6.3	**March 14, 2003**	**March 31, 2006**

VM: Recommended Service Upgrade (RSU)

- List of recommended PTFs at specified cut off day
  - Contains not only HIPER PTFs
  - Only available for VM

- Updated 2-3 times a year

- Can be ordered from IBM Service or Internet
  - use RSU Number (e.g.. UM97520)
  - ShopzSeries: http://www.ibm.com/software/shopzseries
  - RSU Lists: http://www.vm.ibm.com/service/rsu/
  - Additional info: http://www.vm.ibm.com/service/oi.html
  - Will be shipped like PTF Service Envelope's

VSE: Recommended Service Levels (RSLs)

- List of ALL available PTFs at specified cut off day
  - contains not only HIPER PTFs
  - only available for VSE

- Kept up to date on a 2-3 Month period

- Can be ordered from IBM Service or Internet
  - copy & paste PTF List into the service order (ShopzSeries)

- Will be shipped as PTF Tape's

- **http://www.ibm.com/servers/eserver/zseries/zvse/support/preventive.html#rsl**

VSE: Recommended Service Levels (RSLs)

Service recommended for		PTF Order List	Cutoff Date
z/VSE 4.1.1	Base Products	PTFs 411B	January 31, 2008
	Optional Prod.	PTFs 411O	
z/VSE 4.1.0	Base Products	PTFs 410B	October 12, 2007
	Optional Prod.	PTFs 410O	
z/VSE 3.1.3	Base Products		
	Optional Prod.		
z/VSE 3.1.2	Base Products		
	Optional Prod.		
z/VSE 3.1.1	Base Products		
	Optional Prod.		
z/VSE 3.1.0	Base Products		
	Optional Prod.		

Recommended service levels

PTF numbers November 30, 2005:

z/VSE 3.1.1 base products

(total size of RSL: 16.9MB)
CICS Transaction Server for VSE/ESA 1.1.1
UK07647 UK07656 UK07779 UK08223 UK08369 UK08567

DITTO/ESA VERSION 1.3.0
UK07731 UK08473

EREP 3.5.0
UD52922 UD52943 UD52946

ICKDSF 1.17.0
UK07981

The PTF list can be copy & pasted into a service order in ShopzSeries

Preventive Service Planning (PSP Buckets)

- List of PTFs that solve „High Impact or Pervasive" (HIPER) problems
- Available for every refresh level
  - e.g. zVSE313, zVSE412…

- Are permanently maintained and kept up to date by the product change teams
- are divided into subsets for the individual components and hardware devices
  - e.g.. IBMLANG/75K, 2086DEVICE

- Can be ordered from IBM Service or Internet
  - use PSP name plus subset (e.g. zVSE313 - BASESERVICE)
  - ShopzSeries: http://www.ibm.com/software/shopzseries
  - List: https://techsupport.services.ibm.com/server/390.psp390

- Will be shipped as PTF Tape's or Service Envelop's

Comparison of the service deliverables

	Refresh	RSU	RSL	PSP	PTF
What is it	**Complete Product (includes all PTFs)**	**List of recommended PTFs at a cut off day**	**List of ALL PTFs at a cut off day**	**List of selected PTFs (HIPER)**	**Official Fix for a code problem (APAR)**
When is it available	**Every 6-12 Month, usually for the newest release**	**Updated 2-3 times a year**	**Every 2-3 Month**	**Is constantly kept up to date**	**Will be created when a fix is available**
When should it be installed	**For base install or Fast Service Upgrade (FSU)**	**Preventive to stay on an current level**	**Preventive to stay on an current level**	**After a refresh installation and preventive to avoid HIPER problems**	**To fix a certain problem**

Service recommendations

- It is essential to have a preventive maintenance strategy

- Install the latest Refresh

  - every 12 Month

- If you are on a current refresh level:

  - Install the newest RSL

    - every 6 Month

  - Install the newest PSP Bucket

    - every 3 Month
    - also order the hardware bucket when you install new hardware

Service recommendations

- When migrating onto a new release or version:
  - Order and install the latest refresh level
  - Order and install the newest RSLs and PSP buckets for this refresh
  - Also consult your Software Vendors for their corresponding service levels
  - Have a testing period to make sure everything runs well as it did before
  - Order and install the newest PSP bucket again 2-3 weeks before production cutover
  - Before production cutover have a fallback plan in place

- When you migrate to a new hardware
  - Order and install the corresponding hardware buckets before you migrate to the new hardware
  - Before production cutover have a fallback plan in place

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How to help yourself in case of a problem

- What to do if you encounter a problem ???

  – What did change since it worked the last time? Make sure you carefully document every change!

  – Change back all changes step by step. Do you still encounter the problem?

  – Is the problem reproducible? If yes, what do you do to force the problem to occur? Try different variations.

  – Collect information about the problem

    • When exactly does it occur? What is the trigger?
    • What is the result of the problem? Error message, Dump, Hardwait, Loop, Performance loss, …
    • Which products or components are affected?

How to help yourself in case of a problem

- Is this already a known and fixed problem?
  - Search the APAR database
    - https://techsupport.services.ibm.com/server/zseries.srchBroker
    - Keywords: Message number, symptom, …
  - VSE: APAR Lists available for each release and component on the VSE support page
    - http://www.ibm.com/servers/eserver/zseries/zvse/support/corrective.html
  - VSE Hot Service News:
    - http://www.ibm.com/servers/eserver/zseries/zvse/support/index.html#news

- Call IBM Support
  - IBM L1 searches internal problem database and/or
    passes the problem to the L2 team

Search under Corrective Service

Service and support

Introduction	Preventive	Corrective	Problem Mgmt.

• General	• CICS Transaction Server
• Advanced functions (AF)	• VSE Connectors
• **VSAM**	• TCP/IP
• POWER	• DL/I
• Interactive interface & ICCF	• Language Environment (LE)
• REXX	• VSE VTAPE

z/VSE V4.1 | z/VSE V3.1 | Unsupported releases

VSE/VSAM

→ Details about VSE/VSAM
→ [
↓ [
↓ [
→ [

Important news

May 16, 2007   'IDC2950I INVALID FORMAT STRUCTURE' on MASTERCATALOG LISTCAT

For a detailed description please see
IDC2950I INVALID FORMAT STRUCTURE
(PDF, 24KB)

Latest VSE/VSAM 8.1 APARs for z/VSE V4.1

Last update: July 31, 2008

APAR Date	PTF	Contents
DY46943 2008/06/25	UD53371	0C4 Pgm Check When Processing a Dummy USB Entry After AIX Failed to OPEN
DY46942 2008/06/24	UD53370	Performance Degradation with Certain Applications
DY46918 DY46836 2008/05/21	UD53365	• LOOP Between CICS/TS and VSE/VSAM Attempting to Retry Exclusive Control Error • Program Check in IKQAIX Attempting Journaling on Alternate Index
DY46913 2008/05/21	UD53354	RESTORE Hang After Secondary Alloocation Failure by Specifying a High Number of Data Buffers
DY46859 2008/05/21	UD53356	SNAP13 for Redirector
DY46899 2008/04/18	UD53345	Skip SDUMP for Invalid RBA Case if RBA Came from Application

http://www.ibm.com/servers/eserver/zseries/zvse/support/corrective.html

Example – Search with Message number

- The following message occurs:

```
L151I UNEXPECTED RETURN CODE FROM MACRO/MODULE GETVIS
        IN MODULE INLPOPEN PHASE $IJBLBR - RC = X'10'
```


https://techsupport.services.ibm.com/server/zseries.srchBroker

Example – Search results

DY46209: LIBRM GETS L151I UNEXPECTED RETURN CODE FROM MACRO/MODULE GETVISIN MODULE INLPOPEN PHASE $IJBLBR - RC = X'10'

A fix may be available

Obtain the fix for this APAR

APAR status
Closed as program error.

Error description

```
LIBRM gets MSGL151I UNEXPECTED RETURN CODE FROM MACRO/MODULE
GETVIS IN  MODULE INLPOPEN PHASE $IJBLBR - RC = X'10'.
GETVIS RC X'10' means "maximum number of subpools exceeded".
```

Local fix

Problem summary

```
*******************************************************************
* USERS AFFECTED: LIBRM in 7x24 partition.                       *
*******************************************************************
* PROBLEM DESCRIPTION: MSGL151I UNEXPECTED RETURN CODE           *
*******************************************************************
* RECOMMENDATION:                                                *
*******************************************************************
LIBRM gets MSGL151I UNEXPECTED RETURN CODE FROM MACRO/MODULE
GETVIS IN  MODULE INLPOPEN PHASE $IJBLBR - RC = X'10'.
GETVIS RC X'10' means "maximum number of subpools exceeded".
This occurs in a never ending partition using LIBRM macros
in different subtasks. The Librarian uses subpool IDs built
of the string 'INLC' or 'INLG' concatenated with the task
identifier (TID). The subpool ID is not freed at end of task.
Therfore the maximum of 128 subpools is exceeded after some
time.
```

Problem conclusion

```
For partition GETVIS requests the TID is no longer part of the
subpool ID.
```

Temporary fix

Comments

APAR information

APAR number	DY46209
Reported component name	VSE/AF SVR BAM
Reported component ID	568606606
Reported release	65C
Status	CLOSED PER
PE	NoPE
HIPER	NoHIPER
Submitted date	2005-02-03
Closed date	2005-03-22
Last modified date	2005-08-25

APAR is sysrouted FROM one or more of the following:

APAR is sysrouted TO one or more of the following:
UD52738 UD52739 DY46349

Modules/Macros
 INLPGVFV

Fix information

Fixed component name	VSE/AF SVR BAM
Fixed component ID	568606606

Applicable component levels
R65C PSY UD52738   UP05/05/03 I 1000
R75C PSY UD52739   UP05/05/03 I 1000

➢ PTF can be ordered using this link

➢ Or copy & paste it into a ShopzSeries order

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What is ShopzSeries ?

- IBM's productivity tool for planning and ordering zSeries software

- With ShopzSeries you can:
  - order tailored product and service packages for z/OS, z/OS.e, z/VM and VSE/ESA, z/VSE
  - review your software licenses in all of these environments
  - plan for future upgrades.

- URL:
  - http://www.ibm.com/software/shopzseries

IBM ShopzSeries - Sign in

- You need an IBM-ID

- The IBM-ID is free of charge and can be registered within minutes

- With ShopzSeries you create a profile that contains your hardware systems

IBM ShopzSeries - Profile

IBM ShopzSeries – Create an order

– You can order products or service for VSE, VM and z/OS

– You will get a notification e-Mail when your order is ready

– You can download the product or service packages or you get it on CD-ROM or tape

IBM ShopzSeries – Order service

VM

VSE

Upload your Installed Software Report

VSE: Installed Software Report Tool

Download:

http://www.ibm.com/servers/eserver/zseries/zvse/downloads/tools.html#isrtool

VSE: Installed Software Report Tool

ShopzSeries VSE Installed Software Report Generator

Profile: VSECON

IP or hostname: vsecon.~~boeblingen.de.i~~

User ID: fran

Customer No.: 999999

Output file:

VSECON.report

Profile names:

Profile	Customer	Description

ShopzSeries VSE Installed Software Report Generator

Message log (see 'E:\ISRTool\VSEISRTool.log'):

```
VSE Installed Software Report generator started.
SystemID       = VSECON
Host           = vsecon.boeblingen.de.ibm.com
User           = fran
CustomerNumber = 9999999
CoutryCode     = 724
VSE Installed Software Report will be generated into 'VSECON.report'.
FTP: Opening connection. Host=vsecon.boeblingen.de.ibm.com User=fran
FTP: Welcome message:
TCP/IP for VSE FTP Daemon Version 01.05 D 03/16/04 12.26
Copyright (c) 1995,2003 Connectivity Systems Incorporated
FTPD ready for new user.

FTP: quote SITE UNIX OFF
Executing MSHP job. Command=RETRACE PROD
```

Close

VM: Create an Installed Software Report

- Logon with MAINT User-ID

- Command VMFBTMAP ALL

  - z/VM 5.1.0 or later

- Creates a file named VMPFXALL BITMAP on the System Inventory Disk (Default: 51D - File Mode D)

- Download this file to your workstation in binary

IBM ShopzSeries – Order VM RSUs/ESOs

ESO

RSU

IBM ShopzSeries – Order PSP service

ShopzSeries > My current order >

Step 3 of 5 Specify order contents
Service - March 21, 2006, 12:33

Your order will include service for the products in your installed software report.

Previous | Save | Discard | Continue

VSE

– VSE PSP orders base on your Installed Software Report

– VM PSP orders allow to select the PSP bucket to order

Step 3 of 5 Specify order contents
Service - March 21, 2006, 12:32

...t the PSP recommended service "buckets" you would like to order.

...ilable PSP recommended service by product

...t	Description	ID	Version
	z/VM Version 5.2.0 Stacked 5201RSU (PTF UM97520)	**5VMCPR20**	**V5R2M0**
	DIRM510 0502RSU		
	RACFVM1100 0501RSU		
☐	TCPIP520 0501RSU		
☐	ZVM520 0501RSU		
☐	VMESO0501 VMVSAM		
	VTAM FOR VM/ESA V4R2M0	**5654010A**	**V4R2M0**
☐	VMESO0602 ACFVTAM/420		

☑ Include requisite service from 9201 ▾ [Help]

Previous | Save | Discard | Continue

VM

IBM ShopzSeries – Order PTFs and RSLs

ShopzSeries > My current order >

Step 3 of 5 Specify order contents

Service - March 21, 2006, 11:08

Enter the PTFs you would like to order separated by blanks or commas.
[Help]

```
CICS Transaction Server for VSE/ESA
1.1.1
UK07647 UK07656 UK07779 UK08223
UK08369 UK10000 UK10276 UK10932
UK10938 UK11037

DITTO/ESA VERSION 1.3.0
UK07731 UK08473 UK11283

EREP 3.5.0
```

☑ Include requisite service from past 90 days [Help]

⬅ Previous   ➡ Save   ✖ Discard   ➡ Continue

ShopzSeries > My current order >

Step 3 of 5 Specify order contents

Service - March 21, 2006, 11:08

ERROR:
The following items were not added because they are invalid: CICS Transaction Server for VSE ESA 1 1 1 DITTO ESA VERSION 1 3 0 EREP 3 5 0 ICKDSF 1 17 0 CICS VSE 2 3 0 None ACF VTAM VERSION 4 2 0 VSE Central Functions 7 1 0 VSE SP UNIQUE CODE VSE SP MRI English 81D (total size of PTFs 2 3MB) VSE SP MRI German 81A (total size of PTFs 2 3MB) VSE SP MRI Japanese 81E (total size of PTFs 2 3MB) VSE SP MRI Spanish 81H (total size of PTFs 2 5MB) VSE POWER VSE VSAM None VSE AF VSE AF MSHP None VSE AF IOCP None VSE AF Fastcopy None REXX VSE None OSA SF VSE Connector None IBM LE for VSE ESA 1 4 4 LE VSE C 1 4 4 None LE VSE COBOL 1 4 4 None LE VSE PLI 1 4 4 None TCP IP 1 5 0 FOR VSE ESA None IBM High Level Assembler 1 5 0

Enter the PTFs you would like to order separated by blanks or commas.
[Help]

```
UD52833 UD52862 UD52864 UD52865
UD52873 UD52874 UD52878 UD52880
UD52881 UD52886 UD52888 UD52905
UD52906 UD52907 UD52908 UD52909
UD52912 UD52914 UD52920 UD52921
UD52922 UD52927 UD52928 UD52943
UD52945 UD52946 UD52947 UD52970
UD52983 UD52994 UD53001 UD53010
UD53011 UK07560 UK07647 UK07656
UK07731 UK07779 UK07897 UK08102
```

☑ Include requisite service from past 90 days [Help]

⬅ Previous   ➡ Save   ✖ Discard   ➡ Continue

– Copy & paste the PTF-List (including all other text)

– ShopzSeries automatically detects what's a valid PTF number

IBM ShopzSeries – Download the packages

- You will be notified by e-Mail, when your order is ready

- Download Director

  – small Java Applet

  – resume downloads when connections are lost

  – increases download speed using multiple connections
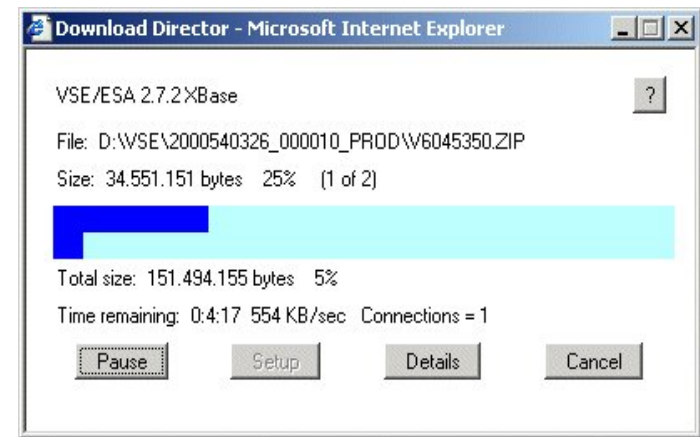
VSE: Installing downloaded PTFs

- You get ONE binary job stream (fixed 80)
  - Zipped with PKZIP (ShopzSeries)
  - includes all ordered PTFs
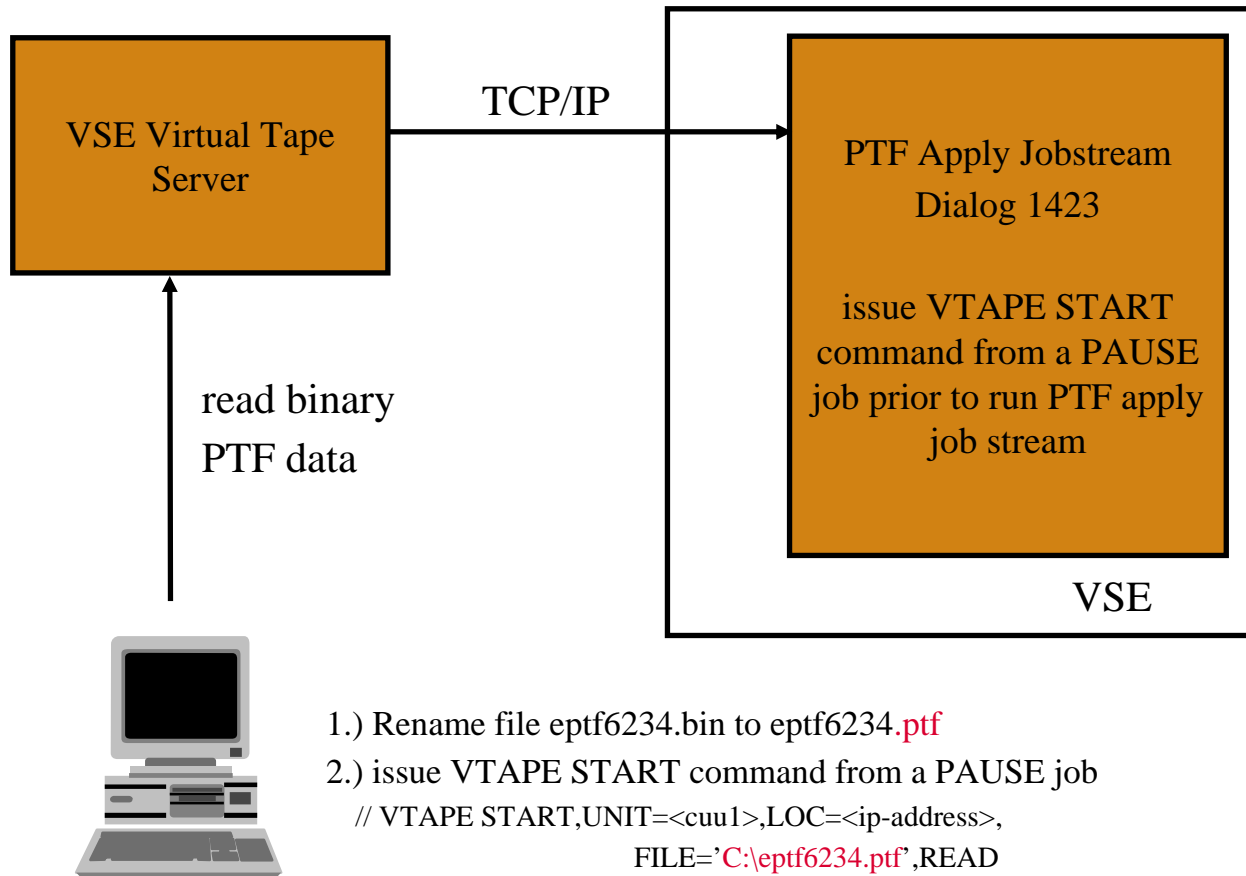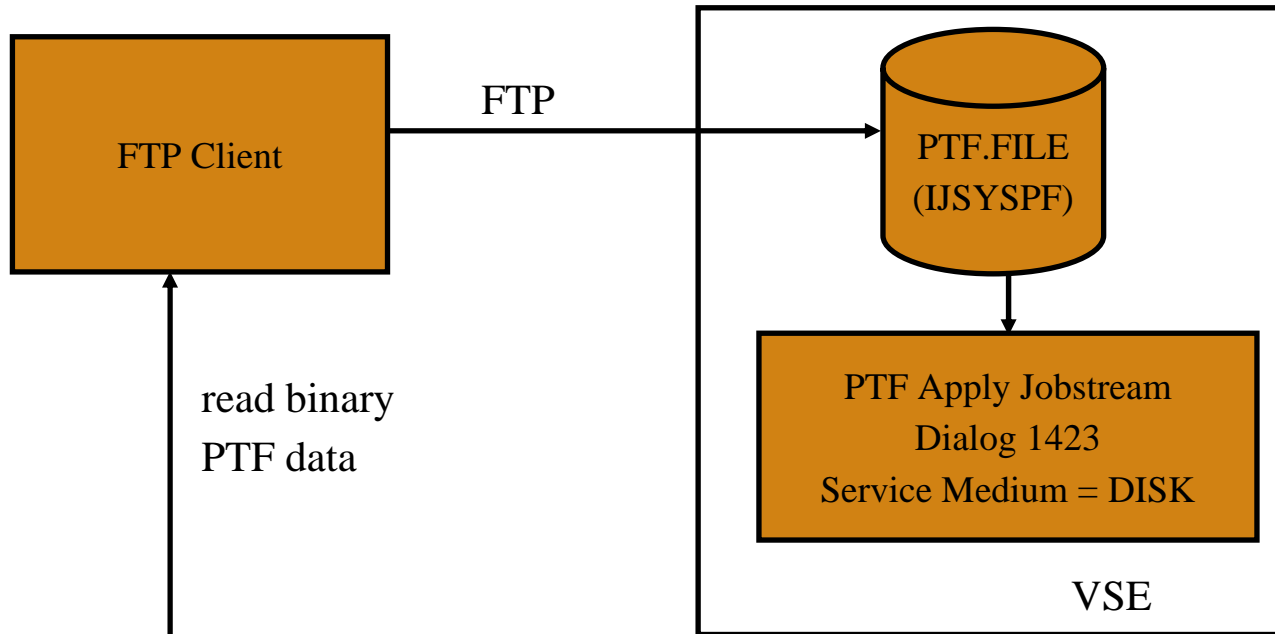
- Recommended installation procedure:
  - Unzip the package into a temporary directory on your PC
  - upload it into PTF.FILE (IJSYSPF)
    - http://www.ibm.com/servers/eserver/zseries/zvse/documentation/edelivery.html#eptf
  - or use Virtual Tape (PTF tape simulation)

- Not recommended: submit into VSE reader
  - no indirect PTF apply possible
  - PRE- and CO-requirements may not be fulfilled due to wrong order of PTFs
  - POWER JECL included in the data part of the PTFs will be processed while running the job.
  - Missing POWER JECL in the PTF file causes POWER to extract VSE JOB cards

VSE: Apply PTFs via Virtual Tape

VSE Virtual Tape Server

TCP/IP

PTF Apply Jobstream Dialog 1423

issue VTAPE START command from a PAUSE job prior to run PTF apply job stream

VSE

read binary PTF data

1.) Rename file eptf6234.bin to eptf6234.ptf
2.) issue VTAPE START command from a PAUSE job
   // VTAPE START,UNIT=<cuu1>,LOC=<ip-address>,
                  FILE='C:\eptf6234.ptf',READ

VSE: Apply PTFs via PTF.FILE (IJSYSPF)

FTP Client → FTP → **PTF.FILE (IJSYSPF)**

↑ read binary PTF data

PTF Apply Jobstream
Dialog 1423
Service Medium = DISK

VSE

DEFINE FILE,TYPE=ESDS,DLBL=IJSYSPF,PUBLIC='IJSYSPF'

Upload:
 BINARY
 RECFM=F   (fixed)   – quote site recfm f
 LRECL=80   – quote size lrecl 80

VSE: Apply PTFs via PTF.FILE (IJSYSPF)

- Transfer the PTF file directly to disk into the VSAM file IJSYSPF.
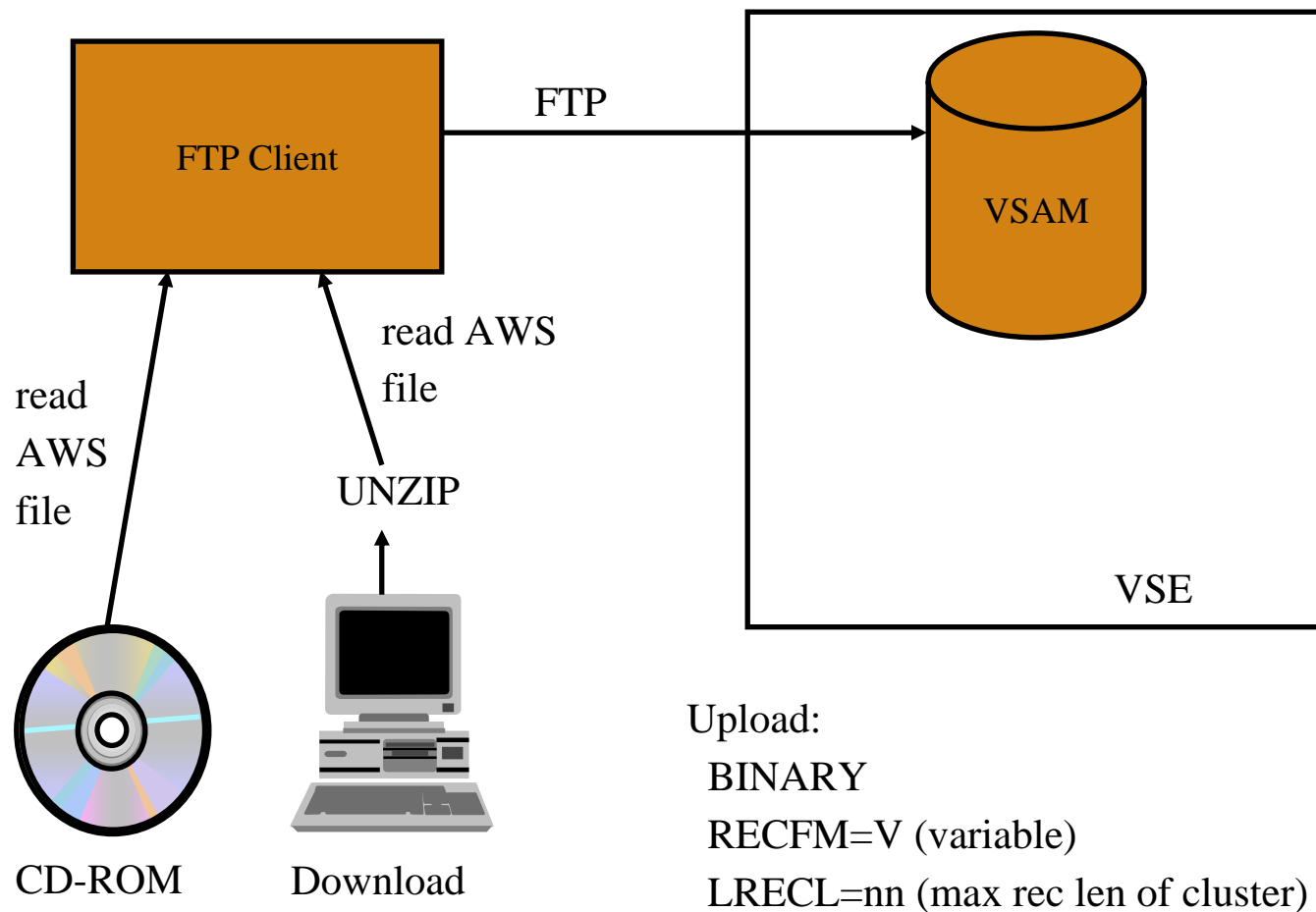
  The file needs to be defined in TCP/IP

- ```
  ftp> quote site unix off
  ftp> bin
  ftp> quote site lrecl 80
  ftp> quote site recfm f
  ftp> put ptffile.bin IJSYSPF  or  put ptffile.bin PTF.FILE
  ```

- Apply service using IUI dialog, service medium is disk. Fastpath 1423

```
Enter the required data and press ENTER.

SERVICE MEDIUM.............. 2        Is the service file on tape?
                                       (Enter  2 if on disk)
VIRTUAL TAPE................ 2        Enter 1 if service tape is a
                                      remote virtual tape.
TAPE UNIT ADDRESS........... ___      For list of valid addresses see HELP
TAPE QUANTITY............... 1        Enter the number of service tapes
TYPE....................... 1        Enter the type of mass-application
                                       1=ALL   2=INCLUDE   3=EXCLUDE
Enter 2 for NO and 1 for YES
BACKUP..................... 2        Do you want to backup all affected
                                     libraries?
FORCE INDIRECT............. 2        Do you want to apply all PTFs indi-
                                     rectly?
ADD INFO TO THE LIST........ 1        Do you want to add this info to the
                                     list of your processed service units
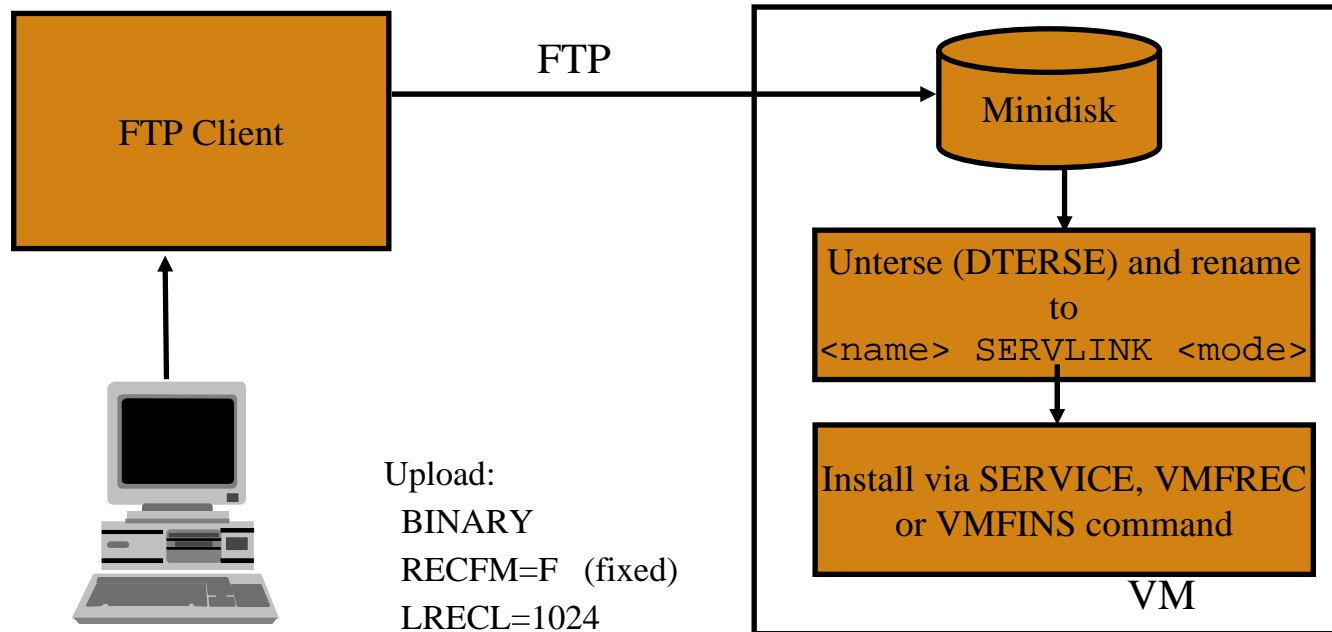                                     For tapes only one tape is possible.

  PF1=HELP       2=REDISPLAY   3=END
```

VSE: Performing an Fast Service Upgrade

- **FSU from VSE/ESA 2.5.x/2.6.x to VSE/ESA 2.7.x can only be done using a real tape**

  - except on MP3000, Flex-ES

  - You need to create a real tape from the tape image

    - Use DITTO Tape to Tape Copy

- **FSU from >= VSE/ESA 2.7.0 to 2.7.x or z/VSE 3.1 or 4.1 can be done with VTAPE (VSAM tape image)**

  - upload of tape image into VSAM file needed

- **FSU is done as usual (either from real tape or VTAPE)**

  - FSU Preparation   - Dialog 1432
  - FSU Installation   - Dialog 1433

VSE: Upload a tape image to VSAM

FTP Client

FTP

VSAM

read AWS
file

read
AWS
file

UNZIP

CD-ROM

Download

VSE

Upload:
 BINARY
 RECFM=V (variable)
 LRECL=nn (max rec len of cluster)

VM: Install service and products

- See "z/VM Guide for Automated Installation and Service"
- "z/VM Summary for Automated Installation and Service (Tape/CD-ROM Installation)"
    - http://www.vm.ibm.com/pubs/v51isum.pdf
- "z/VM Electronic Delivered Service (CORrective or RSU) Installation Instructions"
    - http://www.vm.ibm.com/install/servinst.html

IBM ShopzSeries – Product catalog

VSE: Installing optional products

- Optional product tapes come in a stacked format

  - all products ordered are contained in one tape image file (e.g. VSEOPT41.aws)

- Optional products can be installed via VTAPE using the dialogs 111 and 112

  - using a remote tape image

    - AWS file (CD-ROM)
    - AWS file within a ZIP file (download)

  - using a VSAM tape image

    - upload of tape image into VSAM file needed

VSE: Installing optional products
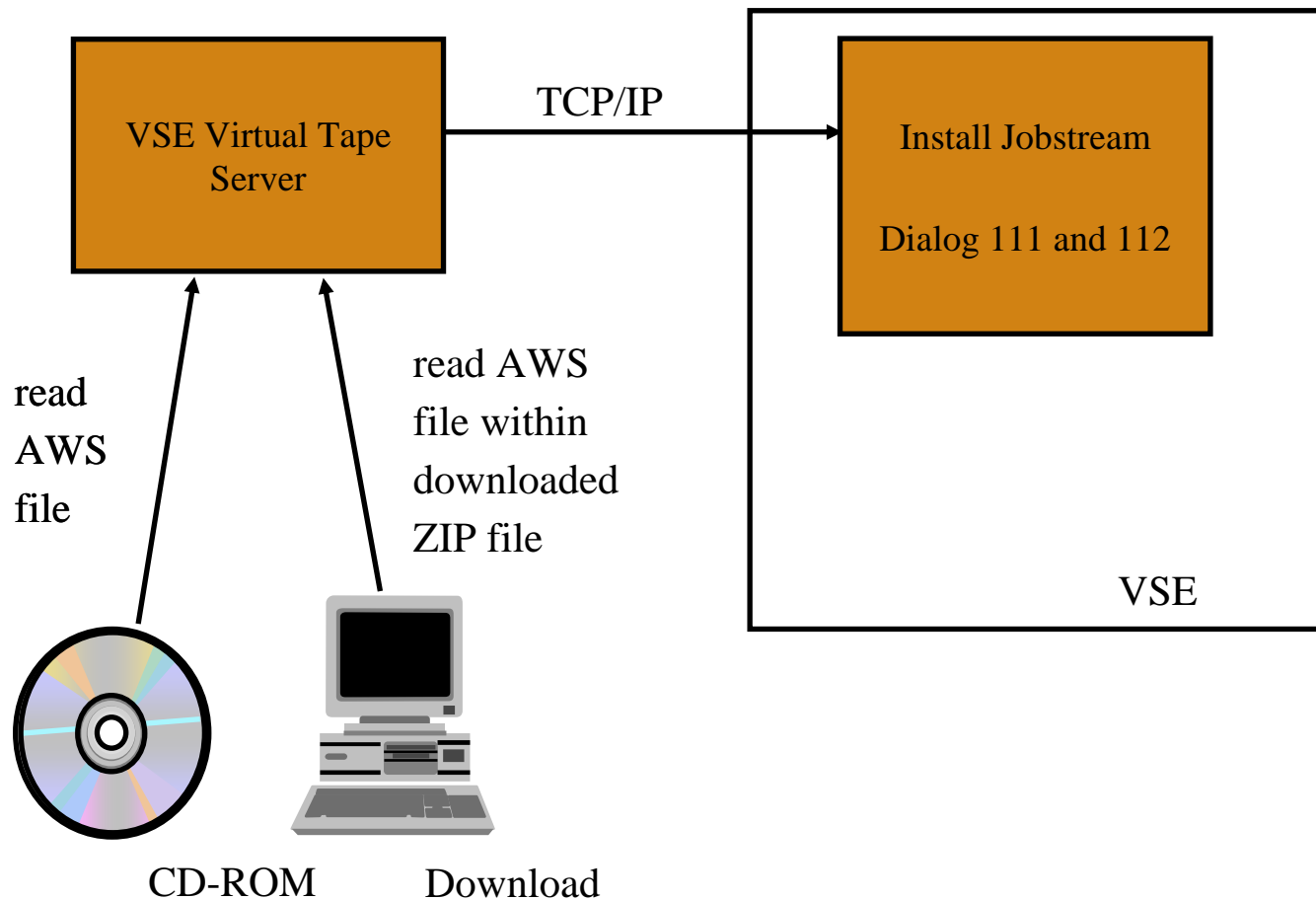
VSE: Installing the VSE base system

- Base installation can NOT be done from VTAPE
  - except on MP3000, Flex-ES

- You need to create a real tape from the tape image

  - Use DITTO Tape to Tape Copy
    - source: VTAPE (remote tape image)
    - destination: real tape

  - Remote Tape image (source) can be
    - AWS file (CD-ROM)
    - AWS file within a ZIP file (download)

- Base installation from real tape works as usual
  - refer to VSE Installation manual

VSE: Create a real tape from a tape image

VSE Virtual Tape Server

TCP/IP

DITTO
Tape to Tape Copy

create a 1 to 1 copy

read AWS file

read AWS file within downloaded ZIP file

VSE

CD-ROM

Download

Real tape (3590 with IDRC)

VSE: Create a real tape from a tape image

```
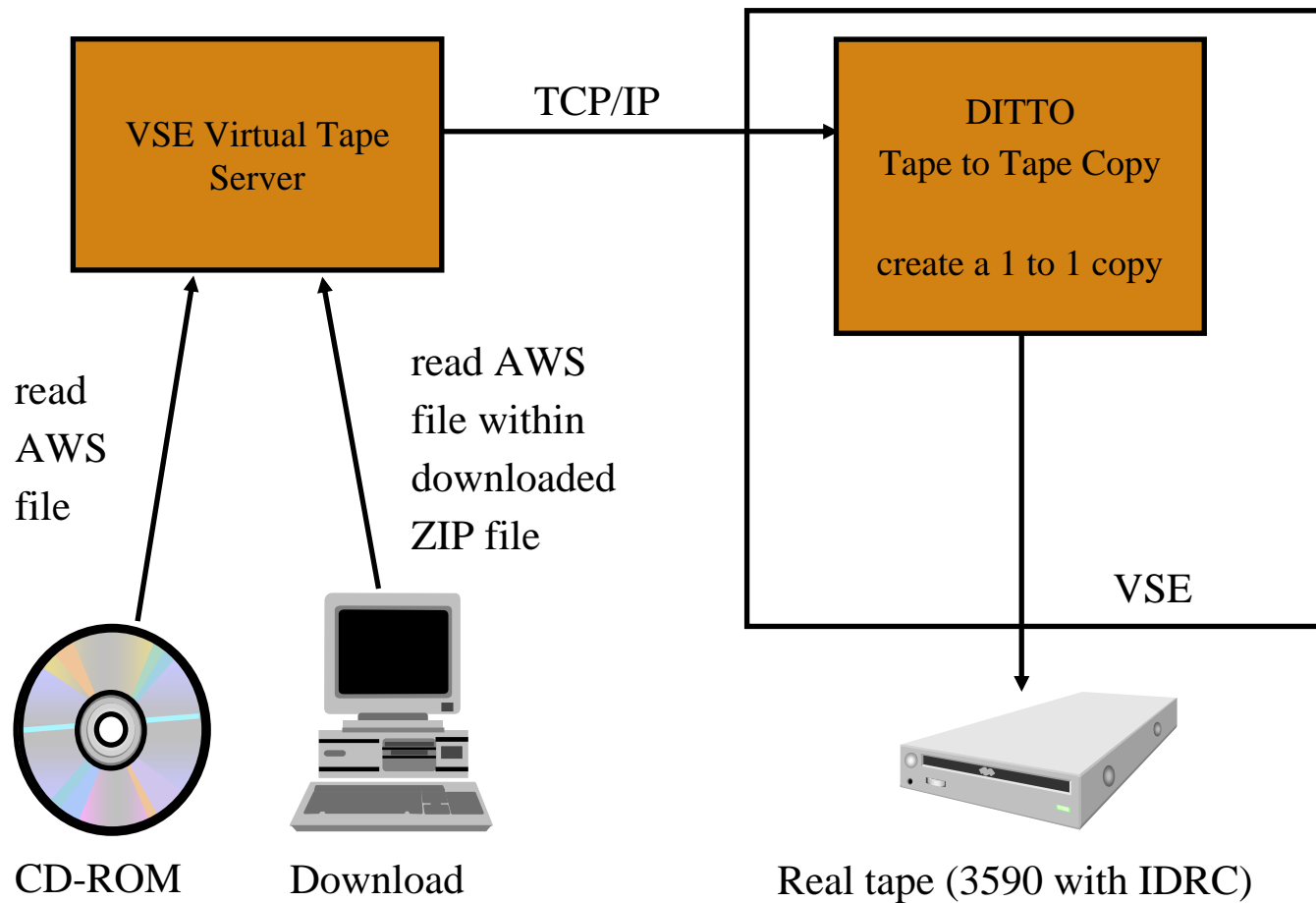* $$ JOB JNM=COPYTAPE,CLASS=0,DISP=D
// JOB COPYTAPE
// PAUSE PLEASE MOUNT A TAPE ON <cuu2>
// UPSI 1
DVCDN <cuu1>
// PAUSE - DEVICE DOWN OK
// VTAPE START,UNIT=<cuu1>,LOC=<ip-address>,FILE='<tape image file>',READ
DVCUP <cuu1>
// ASSGN SYS010,<cuu2>,08
* OUTPUT MEDIA, 3480 COMPRESSED
// ASSGN SYS011,<cuu1>
* INPUT MEDIA
// EXEC DITTO
$$DITTO REW OUTPUT=SYS010
$$DITTO REW OUTPUT=SYS011
$$DITTO TT INPUT=SYS011,OUTPUT=SYS010,NFILES=<36>
/*
DVCDN <cuu1>
// VTAPE STOP,UNIT=<cuu1>
DVCUP <cuu1>
/&
* $$ EOJ
```

<tape image file>:	
CD-ROM:	D:\VSEOPT41.aws (D: is your CD-ROM drive)
Download:	C:\VSE\V6045349.ZIP!VSEOPT41.aws
	(! separates ZIP name and name of tape image in the ZIP file)

Priority 1: Stay on a supported level

- Make sure that your system is always on a supported level
    - to get help and support from IBM when you need it

Questions ?

QUESTIONS ?

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