

zVSE 51 and zEnterprise exploitation



Enterprise2013

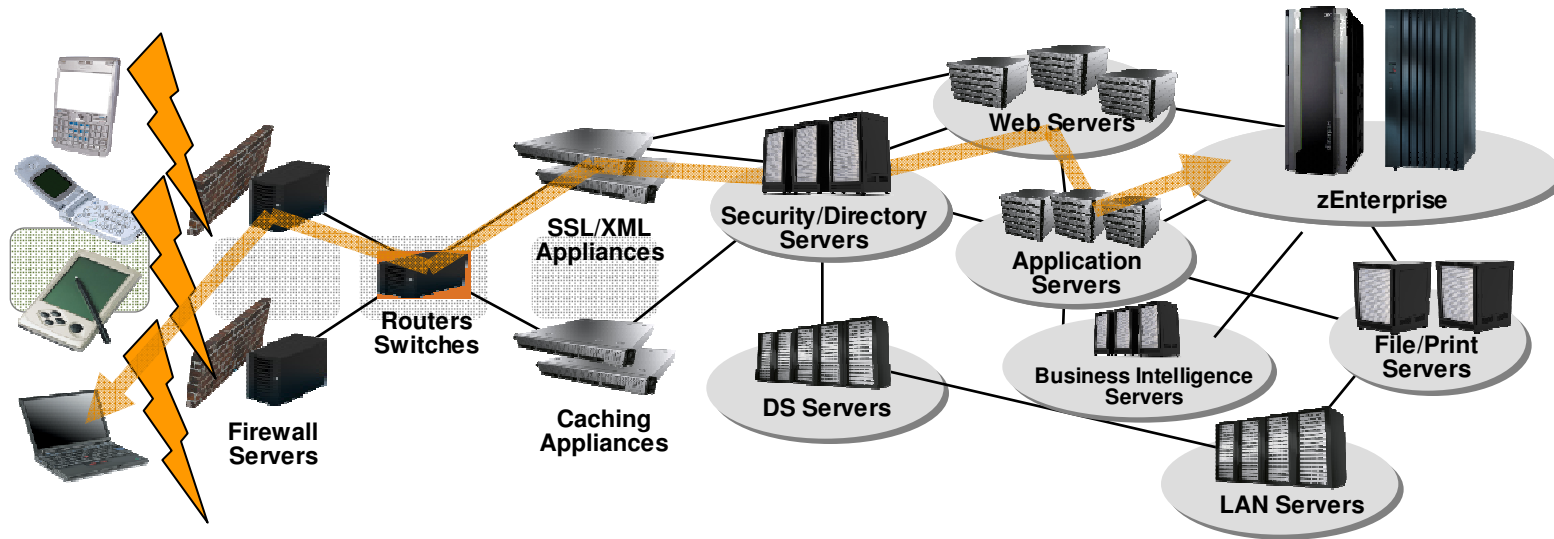
Agenda

- ➔ ■ **zEnterprise and z/VSE 5.1**
- **z/VSE Modernization Options**
- **Wrap-up**



Motivation for change / optimization

- Server Sprawl Limitations
- Platform diversification
- Architecture diversification
- Operating Systems sprawl



- How many x86/Unix servers are deployed every month?
- How much data center space is available, or will it become a problem?
- How big is the energy consumption growing?
- How many additional people are required to maintain the constantly growing number of servers?
- How will the software license cost grow, including the virtualization software?
- How can IT availability ensured, what happens in the case of a disaster?

Do you have to re-think your IT server strategy?



z/VSE supports zEnterprise zEC12 and zBC12 from start !

- Availability date of zEC12 September 19, 2012
- **z/VSE supports the zEC12 with z/VSE 4.3 and later**
 - However, since z/VSE 4.2 is still in service it can be used with zEC12
 - No PTFs are required to run z/VSE on zEC12.
 - As always, there will be PTFs for IOCP, EREP, HLASM.
- **zEC12 offers the new Crypto Express4s card.**
 - A z/VSE PTF toleration PTF is required to use the configurable Crypto Express4s.
 - This PTF will be offered for z/VSE 5.1 only, that is Crypto Express4s can't be used with z/VSE V4.
 - z/VSE 5.1 (with PTF) supports the Crypto Express4s in (CCA) coprocessor and accelerator mode.
 - PKCS #11 (EP11) coprocessor is not supported
- **zEC12 offers the new OSA Express4s 1000BASE-T card**
 - No z/VSE PTF is required.
 - OSA/SF support is already included in existing PTFs.
 - z/VSE supports the OSA Express4s 1000BASE-T with existing z/VSE functionality.
- In time for GA, the PTFs will be listed in the PSP bucket.
- Information will also be available on the z/VSE home page.



z/VSE Support for IBM Mainframe Servers

<i>IBM Servers</i>	z/VSE V5.1.2	z/VSE V4.3	z/VSE V4.2 (Service till 31.10.2012)	z/VSE V4.1 (out of service)
IBM zEnterprise zEC12 & zBC12 IBM zEnterprise z196 & z114	✓	✓	✓	✓
IBM System z10 EC & z10 BC	✓	✓	✓	✓
IBM System z9 EC & z9 BC	✓	✓	✓	✓
IBM eServer zSeries 990 & 890	✗	✓	✓	✓
IBM eServer zSeries 900 & 800	✗	✓	✓	✓

On June 14, 2011, IBM announced withdrawal of service for Multiprise 3000 (7030-H30, -H50, -H70), to become effective December 31, 2012.

Please note:

- z/VM V6 requires System z10 technology (or higher)
- SUSE SLES 11 requires System z9 technology (or higher)
- Red Hat RHEL 6 requires System z9 technology (or higher)

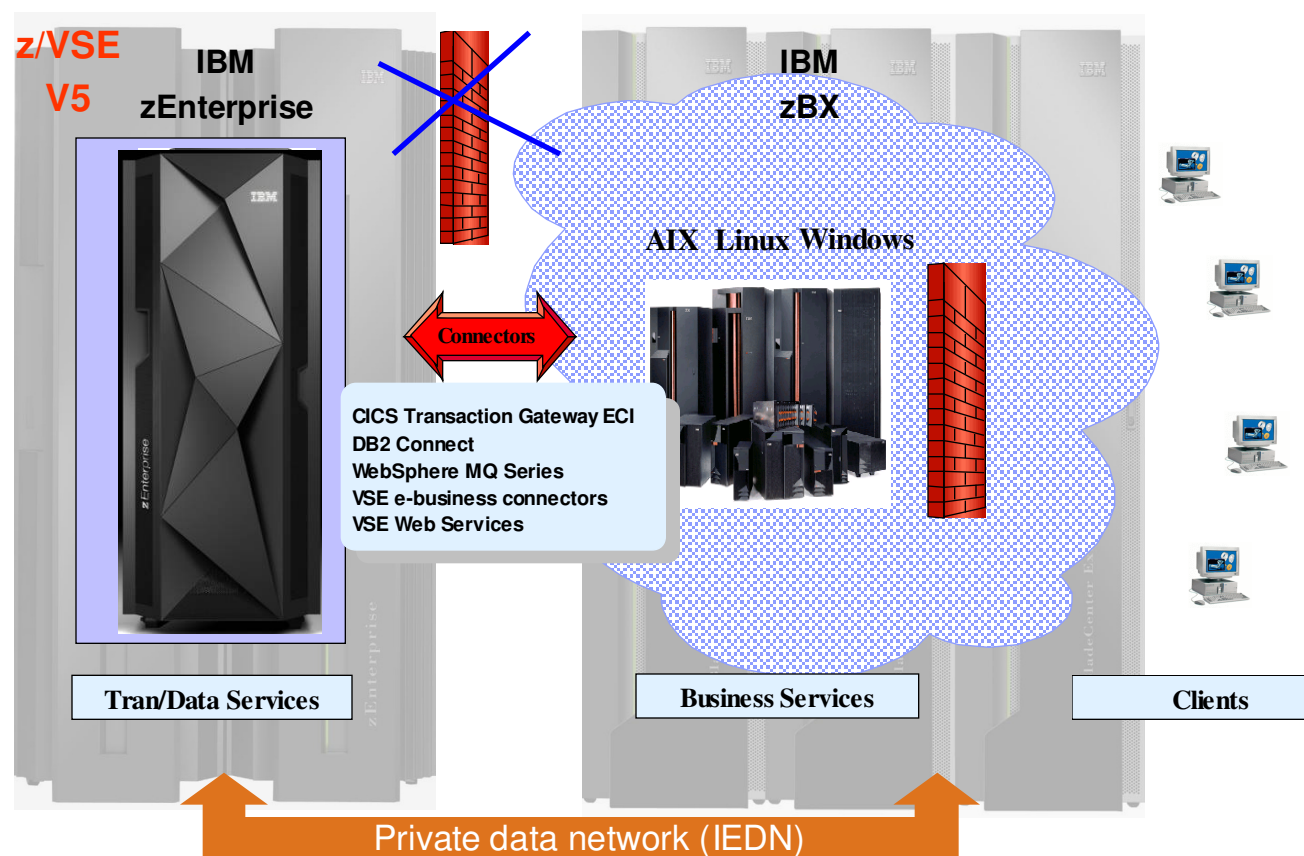


z/VSE Strategy – successfully established since 2000

z/VSE V5 Strategy with zEnterprise - More options, highly integrated

alias

- 3-tier Strategy
- **Hybrid Strategy**
- Connector Strategy
- Migration Strategy
- Coexistence Strategy
- Linux Surround Strategy
- **PIE Strategy**



Protect existing z/VSE investments

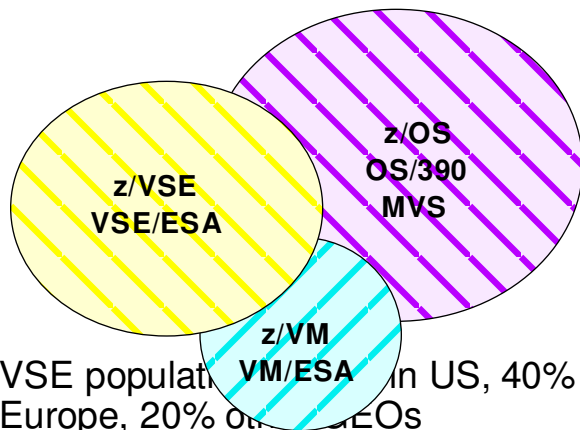
Integrate using middleware and z/VSE connectors

Extend with zBX or with Linux on z to access new applications & solutions

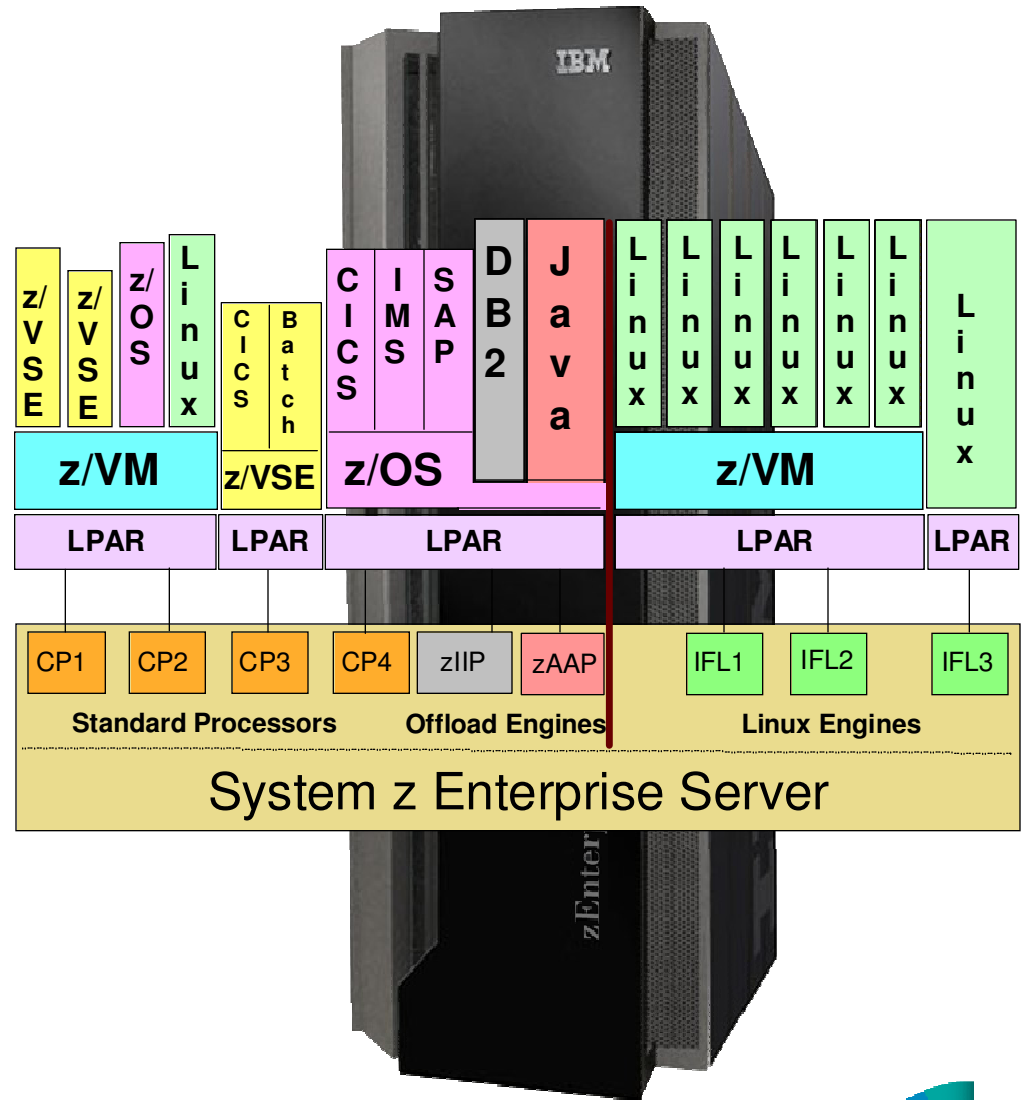


z/VSE positioning among traditional IBM System z Operating Systems

- 25% of worldwide System z Servers have VSE* installed



- VSE population: 40% in US, 40% in Europe, 20% on z/Enterprise
- Worldwide 50% run VSE under z/VM, in Europe 90+% are VSE under z/VM
- IFLs play an important role in VSE's strategy
- zIIP/zAAP have no meaning to VSE (not exploited)



(*) The term "VSE" stands for both, VSE/ESA and z/VSE.

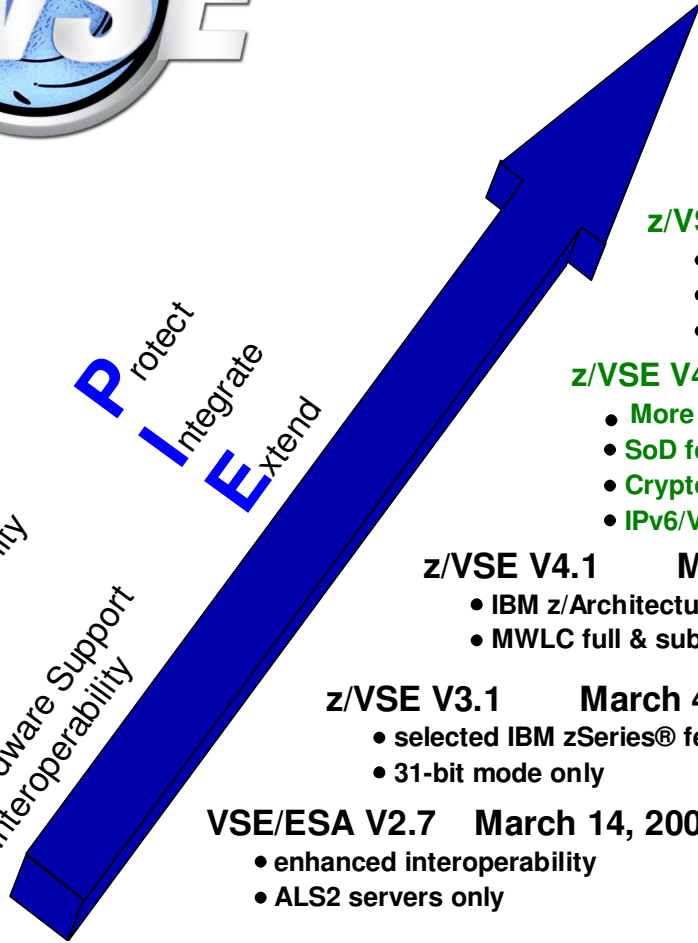


z/VSE Evolution



Protect
Integrate
Extend

IBM z/OS® Affinity
 Capacity
 Quality
 Hardware Support
 Interoperability



NEW

z/VSE V5.1.2 June 14, 2013

- zEnterprise exploitation, 64-bit I/O
- Security and DB connector enhancements
- SoD for IPv6/VSE pricing, DVD base install



z/VSE V5.1.1 June 15, 2012

- Enhancements (LFP, Connector)
- CICS Explorer

z/VSE V5.1 Nov 25, 2011

- zEnterprise exploitation
- ALS to IBM System z9® (and higher)
- 64-bit virtual addressing

z/VSE V4.3 Nov 26, 2010

- Virtual storage (24-bit) constraint relief
- 4-digit device addresses, IPv6/VSE
- Security / Crypto / Networking enhancements



z/VSE V4.2 Oct 17, 2008

- More tasks, PAV, SVC, SCRT, LDAP Client
- SoD for IBM CICS®/VSE, RBD V7, WMQ V3
- Crypto Express3 (April 30, 2010)
- IPv6/VSE* (May 28, 2010)

z/VSE V4.1 March 16, 2007

- IBM z/Architecture® only / 64-bit real addressing
- MWLC full & sub-cap pricing



z/VSE V3.1 March 4, 2005

- selected IBM zSeries® features, FCP/SCSI
- 31-bit mode only



VSE/ESA V2.7 March 14, 2003

- enhanced interoperability
- ALS2 servers only



z/VSE continues to demonstrate IBM's commitment

Hardware Support
More Capacity
Quality
z/OS Affinity
Interoperability
Protect Integrate Extend



z/VSE V4.3 - 4Q2010

- z196 toleration / exploitation
- 4-digit device addresses
- 24-bit virtual storage constraint relief
- IPv6/VSE as optional product
- Linux Fast Path with z/VM

+ SoD: 64-bit virtual support

z/VSE V5.1 - 4Q2011

- zEnterprise exploitation
- IEDN connection to zBX
- 64-bit virtual memory objects
- ALS to System z9 (+ higher)
- z/VSE z/VM IP Assist (VIA)

+ SoD: CICS Explorer, LFP in LPAR

z/VSE V5.1.1 - 2Q2012

- CICS Explorer Monitoring
- Universal database connector
- Linux Fast Path in LPAR

z/VSE V5.1.2 - 2Q2013

- 64-bit I/O for applications
- Networking enhancements
- Security enhancements

+ SoD: CICS Explorer Update, DVD Install, Price Reduction IPv6/VSE

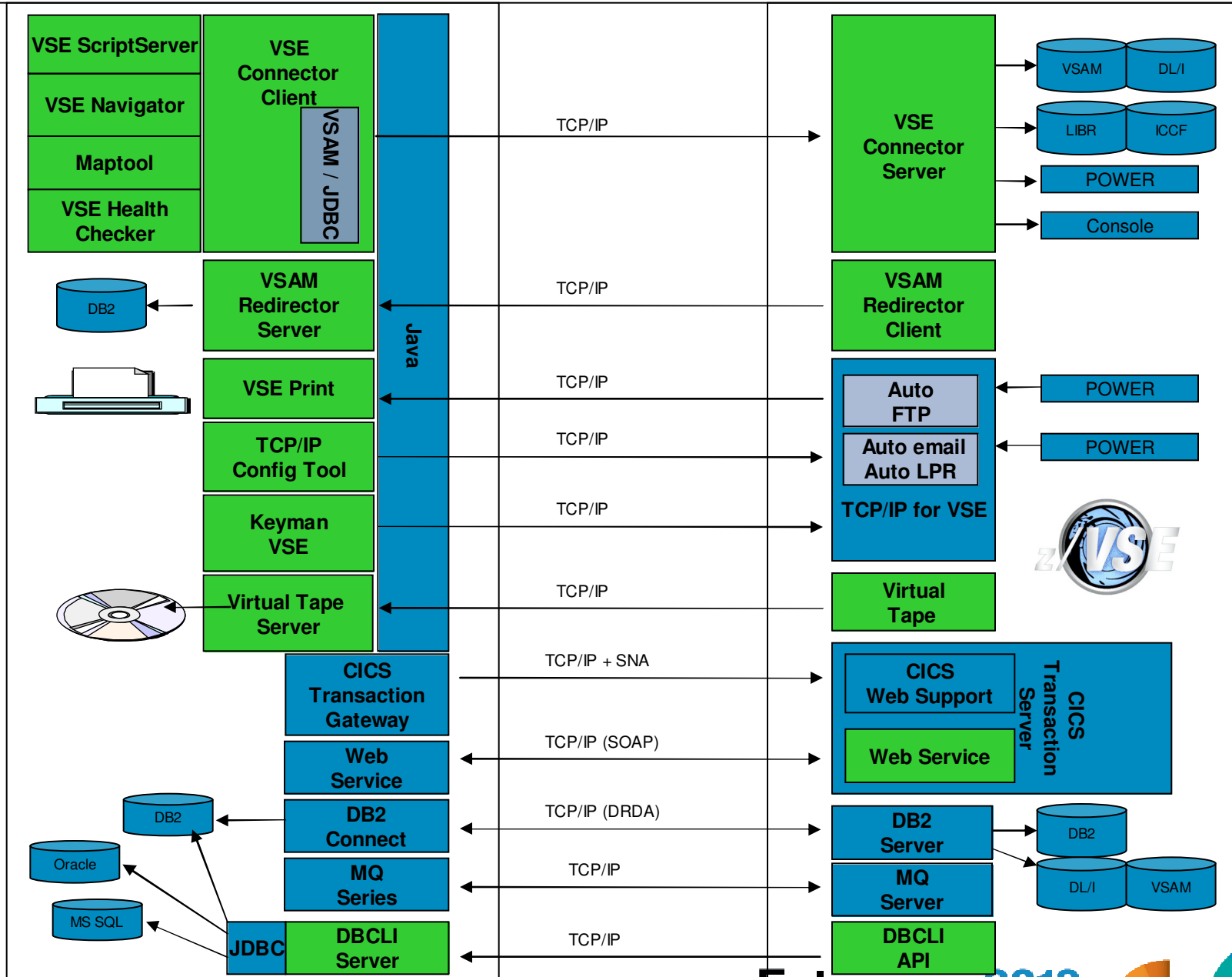
z/VSE 5.1+ and ++ denote enhancements made available via PTF



Integration of z/VSE using IBM Middleware & Connectors



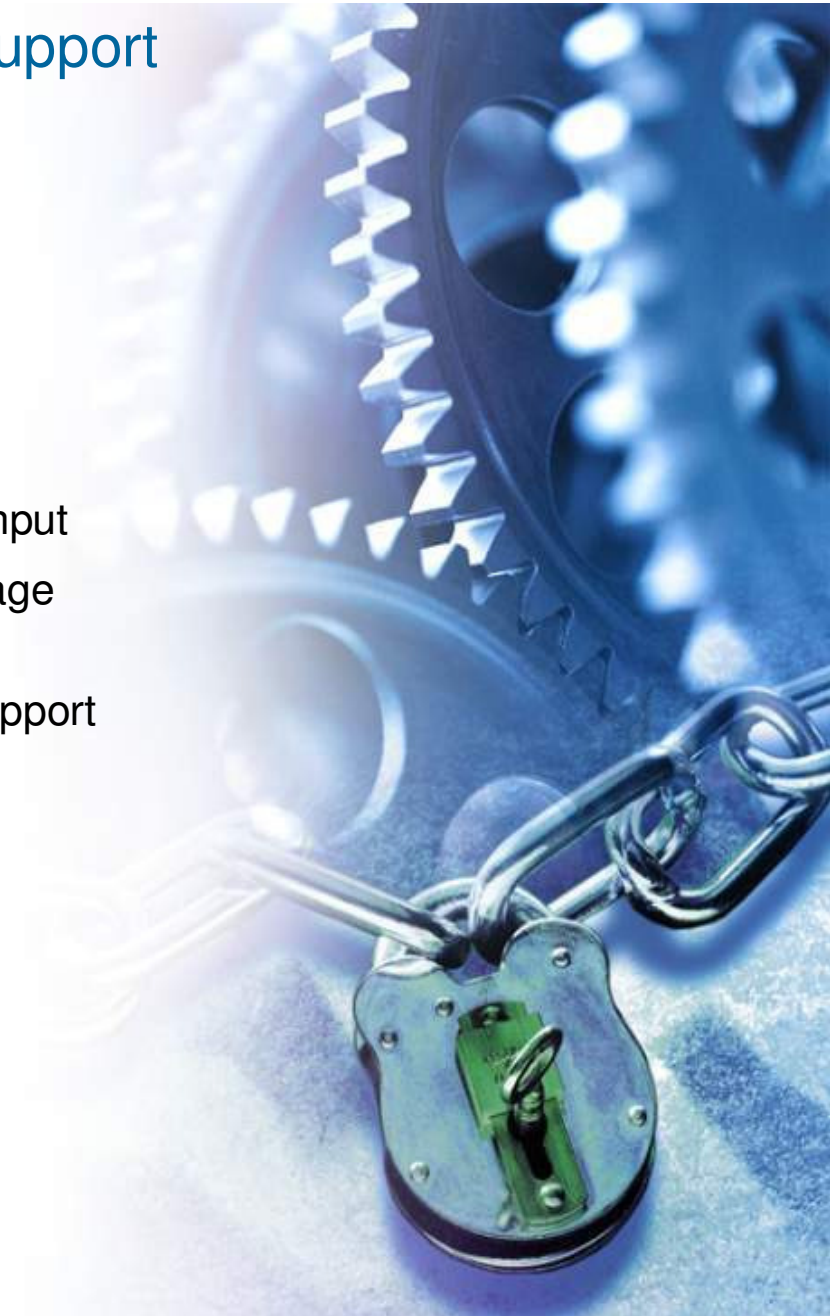
zVSE 51 and zEnterprise exploitation



IPv6/VSE Secure Socket Layer (SSL) support

- **Secure TCP/IP data transmission**

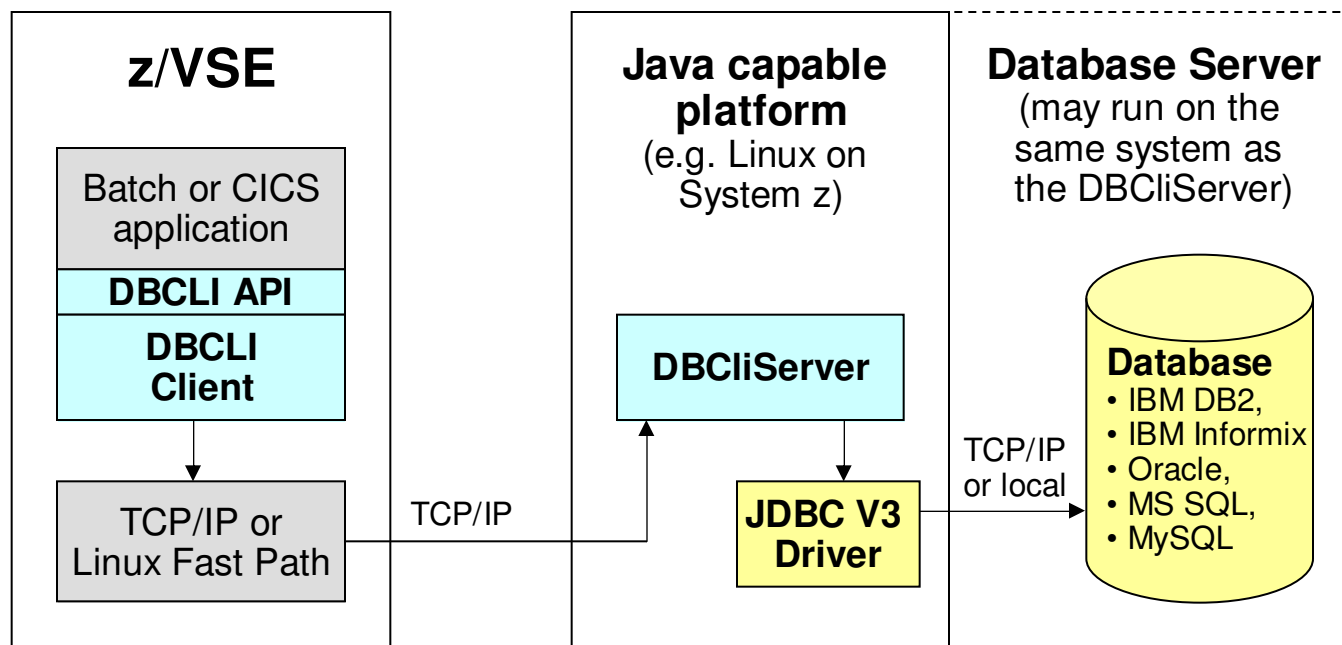
- z/VSE 5.1 enhancements
 - Large TCP window support, can increase throughput
 - 64 bit virtual exploitation, large TCP window storage allocated above the bar
 - Layer 2 (data link layer) and Layer 3 (IP layer) support
 - VLAN support
 - On extended base tape



z/VSE database connector for z/VSE applications

z/VSE Database Call Level Interface (DBCLI)

- Allows z/VSE applications to access a relational database on any suitable database server
 - IBM DB2, IBM Informix, Oracle, MS SQL Server, MySQL, etc.
 - *The database product must provide a JDBC driver that supports JDBC V3.0 or later*
- Utilize advanced database functions and use SQL statements
- Flexibility to use a database server on a platform other than z/VSE
 - for example zBX environment

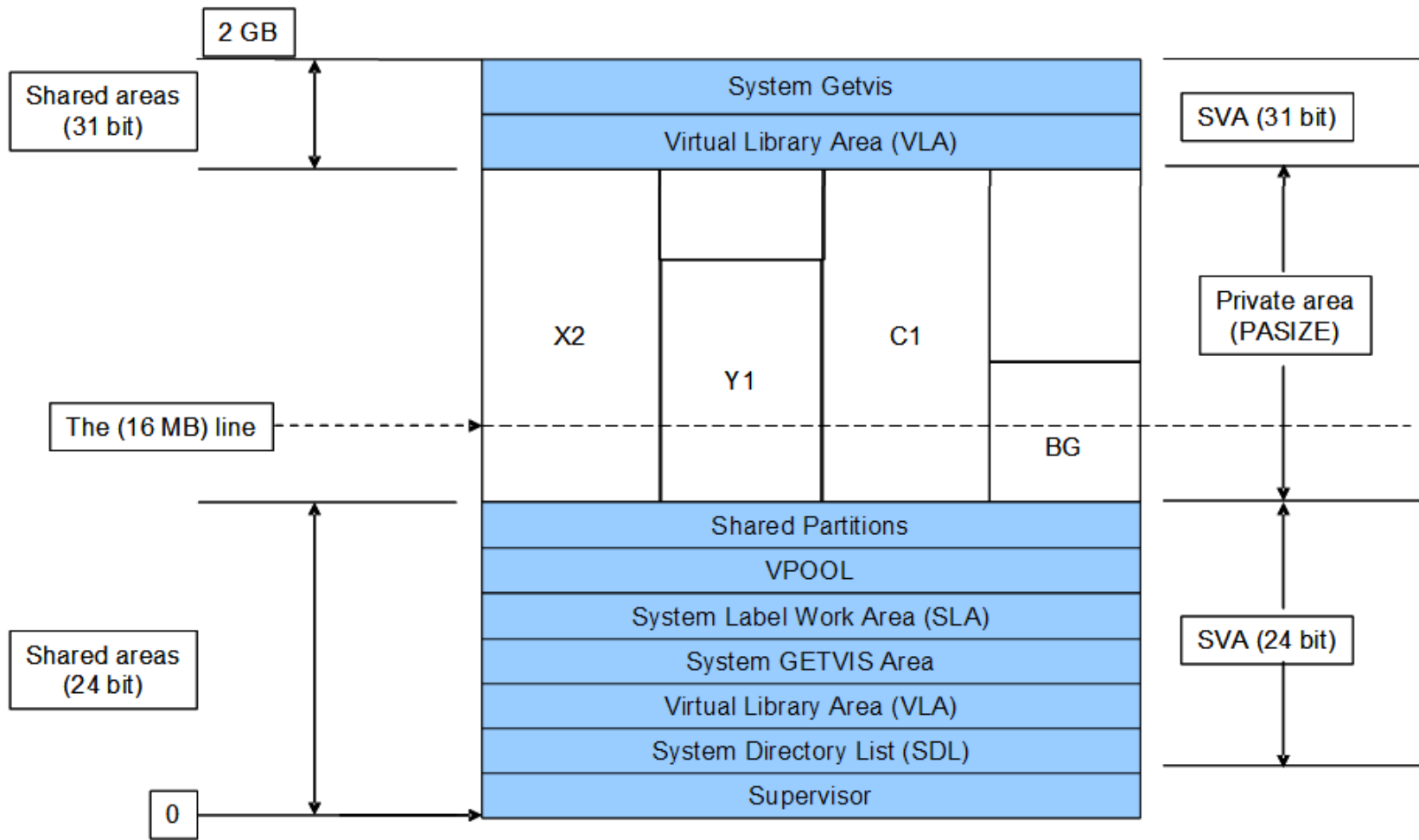


z/VSE's evolution to 64-bit Addressing

- z/VSE 4.1 implemented the z/Architecture – required for 64 bit addressing – and supported real memory up to 8 GB. To access the real memory above 2 GB the page manager has to switch into AMODE 64 (real addressing only).
- z/VSE 4.2 increased the supported real memory to 32 GB, moved page manager control blocks above 2 GB and added support for 64 bit general purpose registers (64 bit registers).
- z/VSE 4.3 implemented 1 MB frames (large pages) for data spaces, which will be the base for a 64 bit virtual sub-function. However, large pages for address spaces will not be implemented in z/VSE 5.1.
- z/VSE 5.1 will support 64 bit (virtual) address spaces for static partitions as well as dynamic partitions.



z/VSE 31-bit Address Space layout

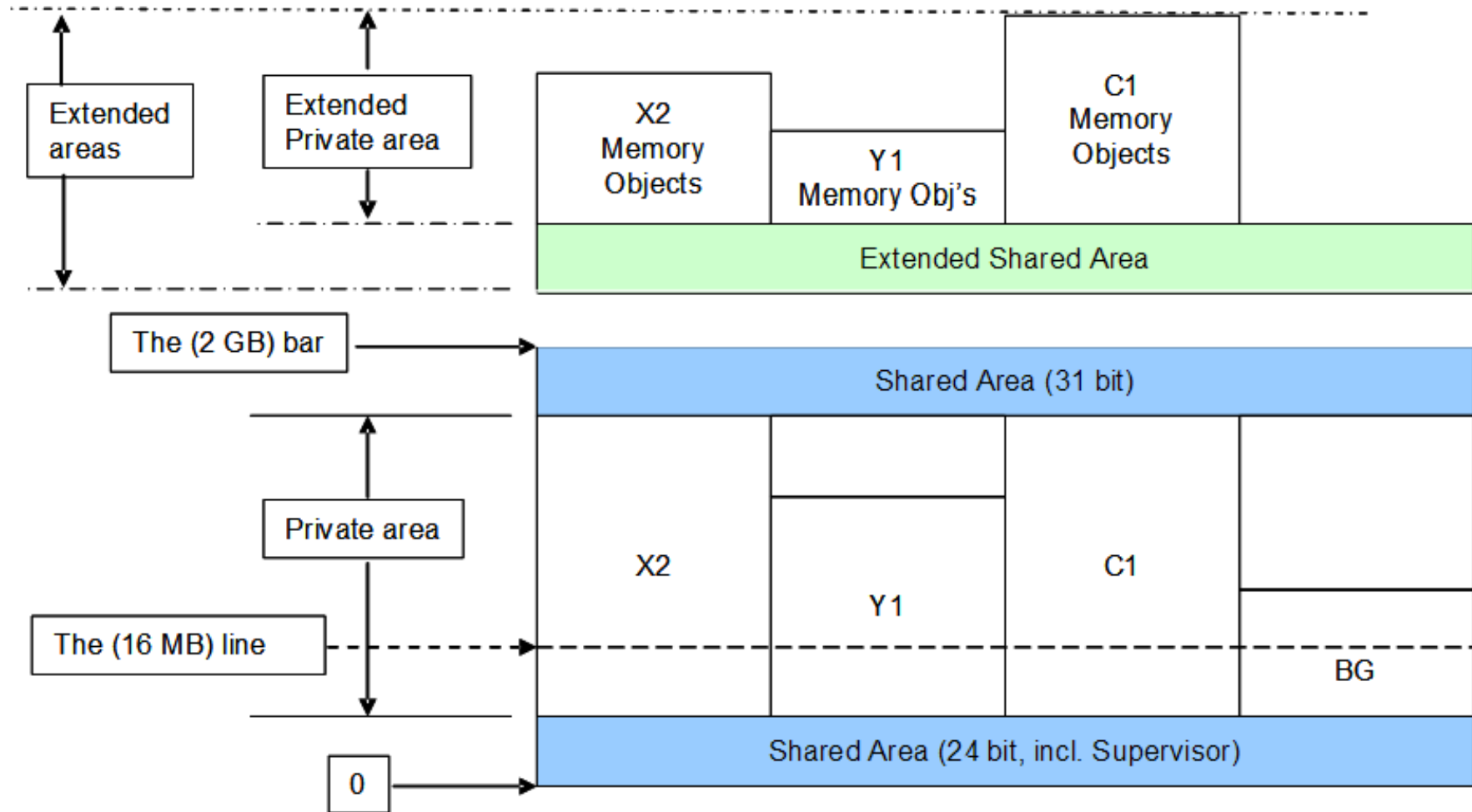


31 bit address space layout



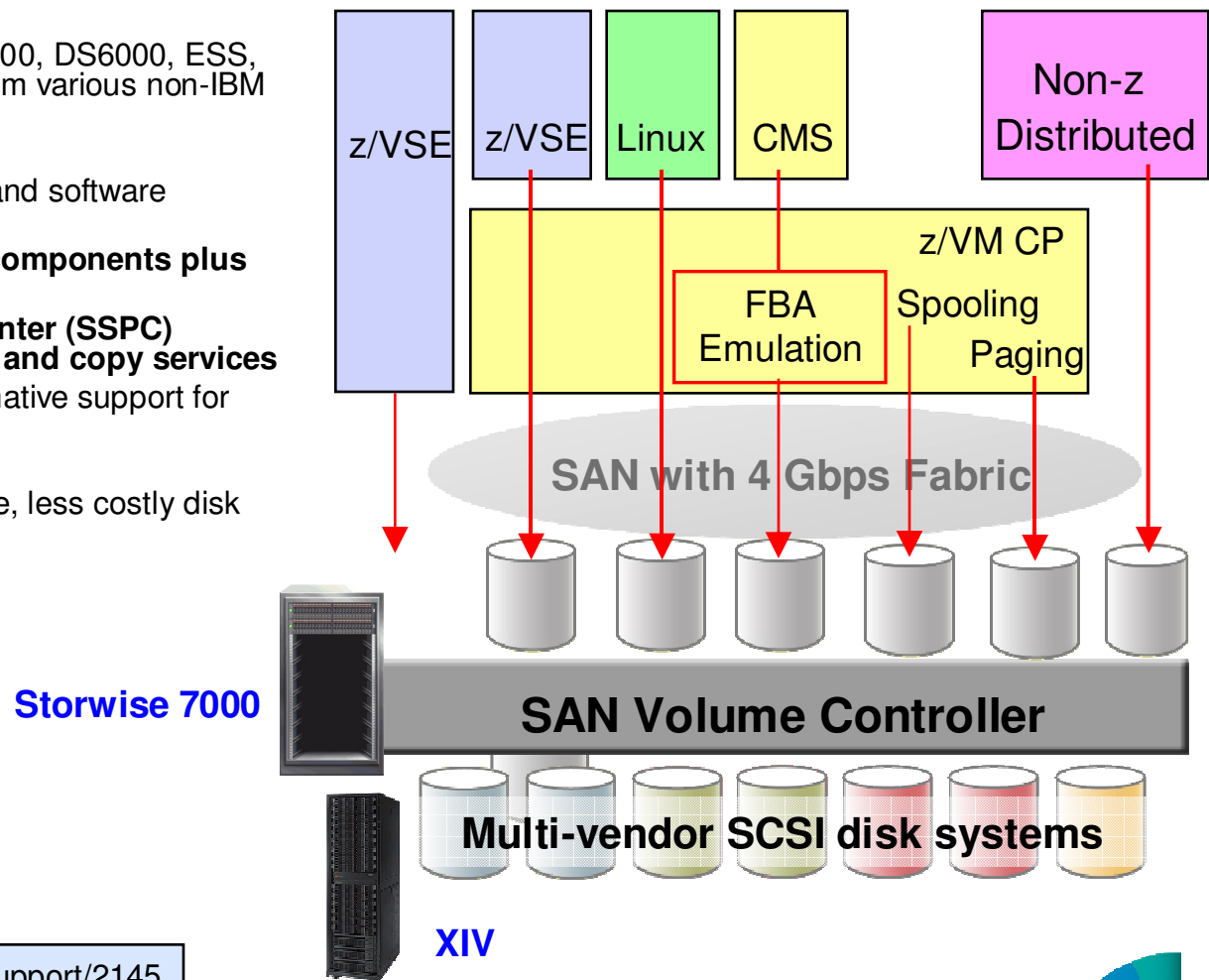
64-bit Virtual Addressing

64 bit address space layout:



z/VSE V5.1 SAN integration: SAN Volume Controller (SVC)

- SAN Volume Controller (SVC) creates a single pool of SCSI disk capacity
- Disk storage options include IBM DS8000, DS6000, ESS, DS4000, etc. plus qualified systems from various non-IBM vendors
- SVC *platform* includes both hardware and software components:
 - **SVC 'nodes' provide redundant components plus cache**
 - **Systems Storage Productivity Center (SSPC) software provides administrative and copy services**
- z/VSE can be interated in a SAN with native support for Storwise 7000 and XIV
- Benefits include a simpler, more flexible, less costly disk storage infrastructure

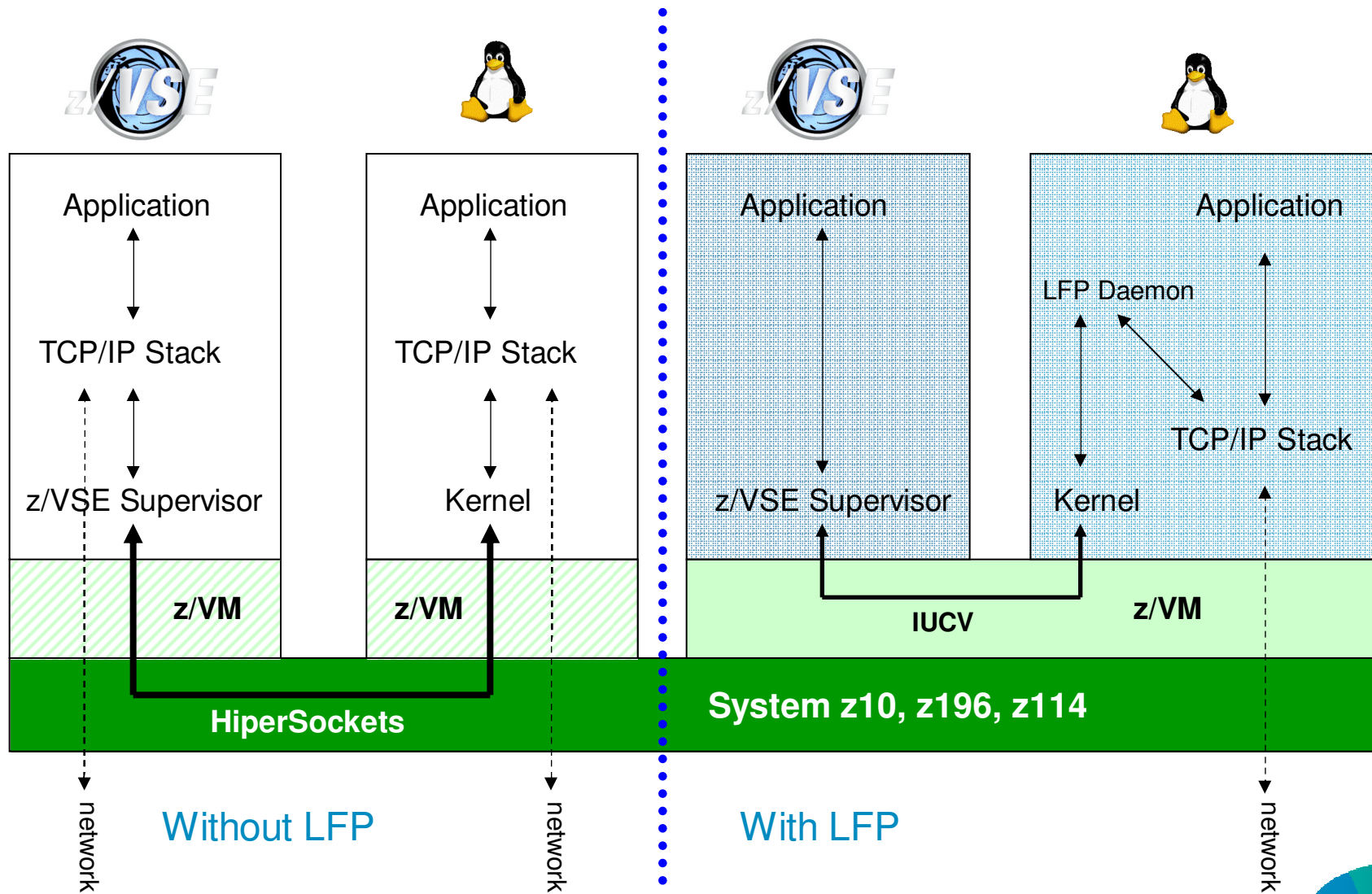


Learn more at: ibm.com/storage/support/2145



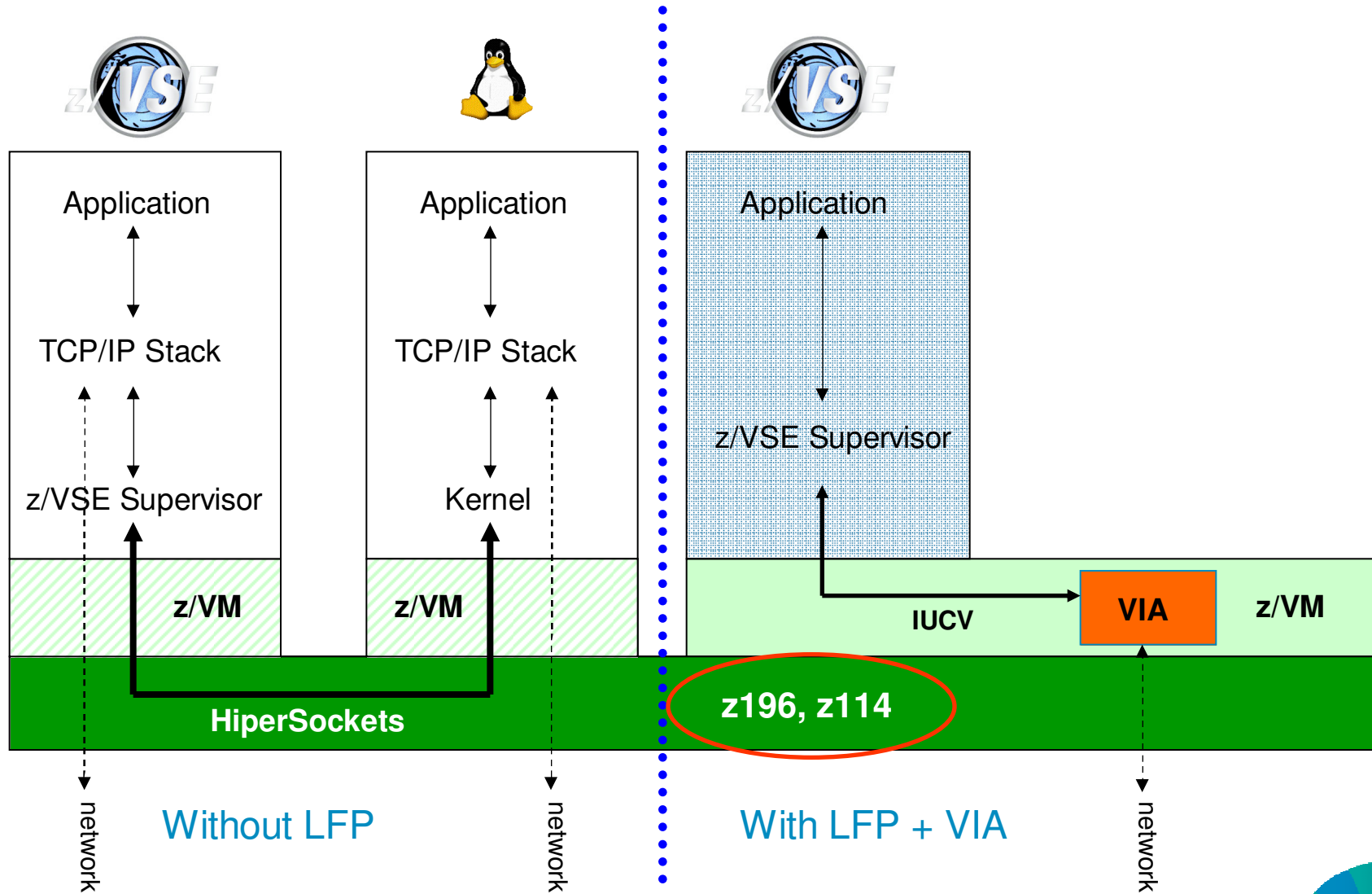
Linux Fast Path in a z/VM-mode LPAR - Supported by z/VSE V4.3 + V5.1

Faster communication between z/VSE and Linux applications under z/VM



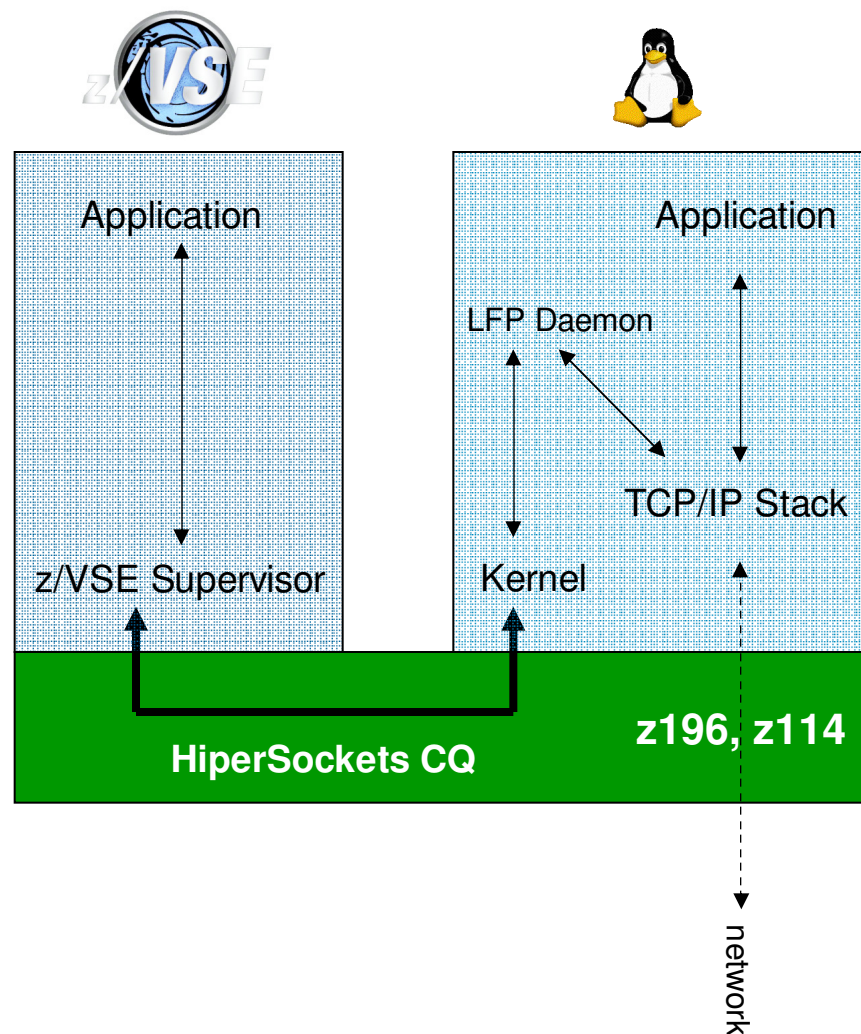
z/VSE z/VM IP Assist (VIA) - Supported by z/VSE V5.1

No Linux on System z is needed to utilize the LFP advantage



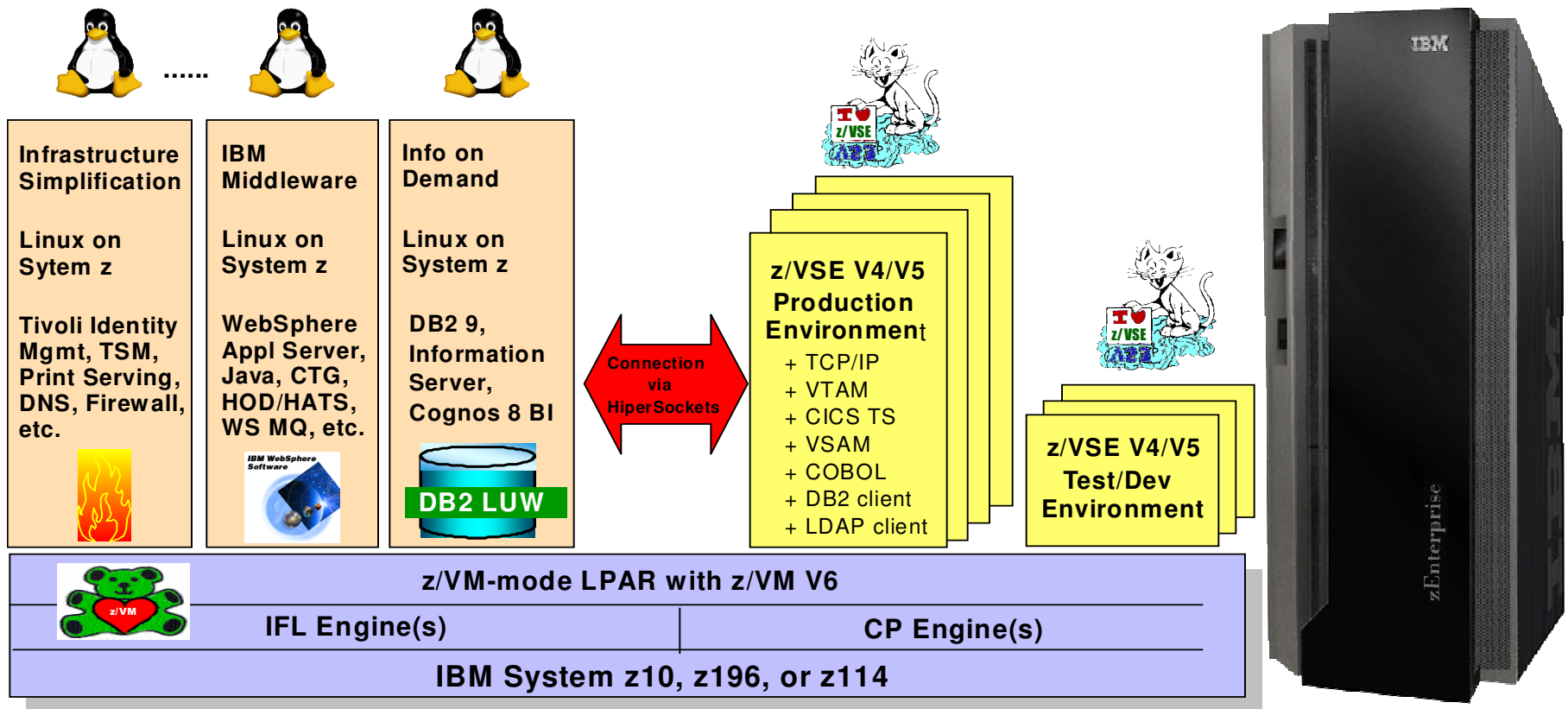
Fast Path to Linux on System z (LFP) in LPAR

- Allows TCP/IP applications to communicate with TCP/IP stack on Linux w/o using a TCP/IP stack on z/VSE
- Provides (for example) fast access to a data base server on Linux
- LFP in a z/VM guest environment available since z/VSE V4.3 – now LPAR support is added with z/VSE V5.1 + PTFs
- LFP in LPAR requires HiperSockets Completion Queue function of zEnterprise



z/VSE Strategy w/ Linux on System z Hybrid Environment leveraging z/VSE, z/VM, and Linux on System z

- Protect** existing VSE investments
- Integrate** using middleware and VSE connectors
- Extend** with Linux on IBM System z technology & solutions



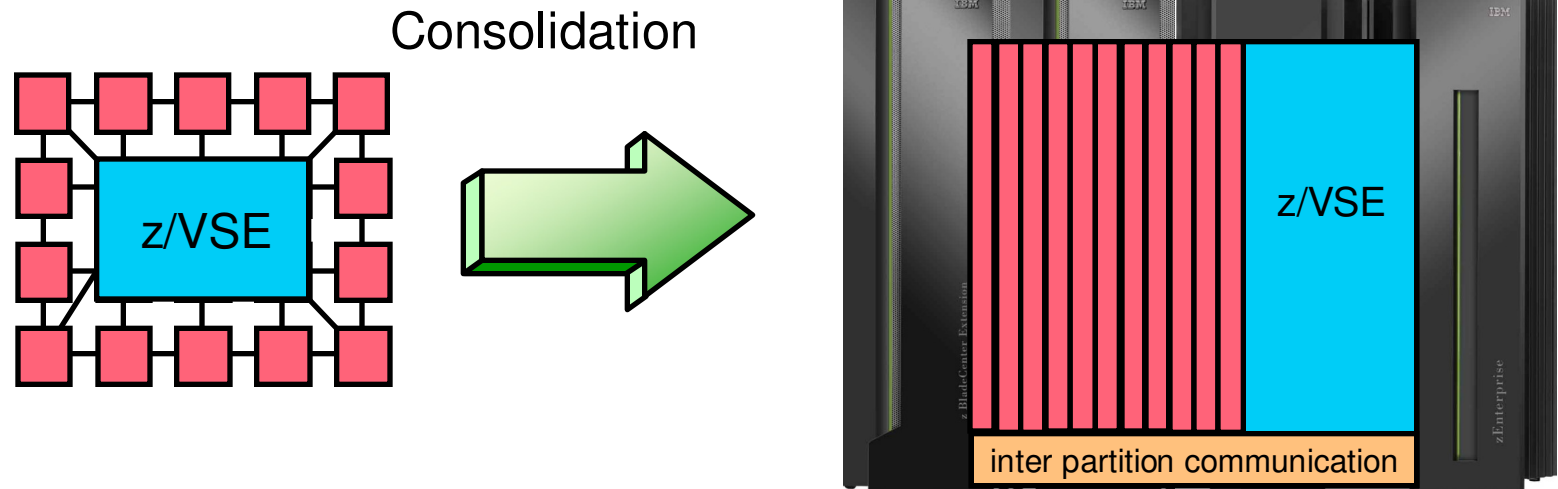
Agenda

- zEnterprise and z/VSE 5.1
- ▪ z/VSE Modernization Options
- Wrap-up



Mixed Workload consolidation on zEnterprise

zBX + Linux on z + zEnterprise

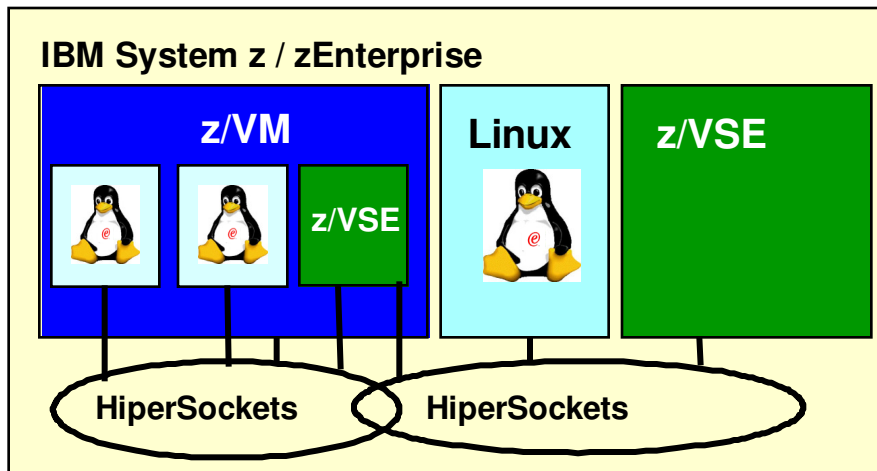


For z/VSE customers, zEnterprise opens new horizons:

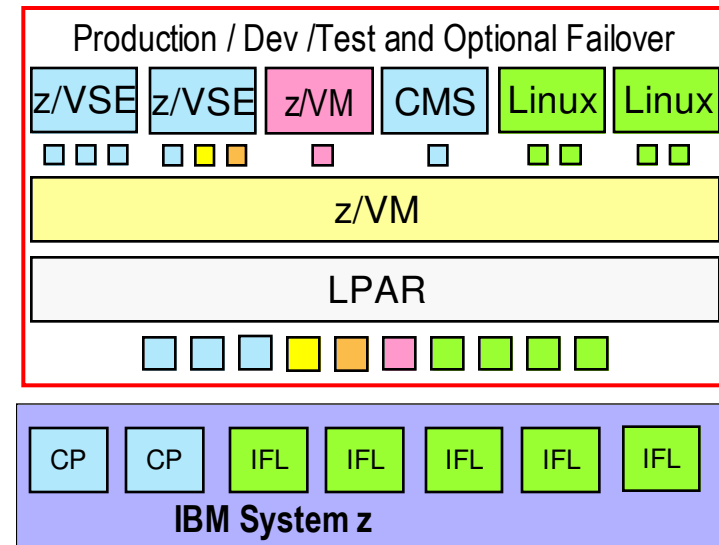
- ◆ Integration of multiple platforms of the Enterprise
- ◆ A big variety of standard applications
- ◆ The integration of existing applications and data using e-business Connectors
- ◆ Modern, scalable new solutions



Global Virtualization – with System z



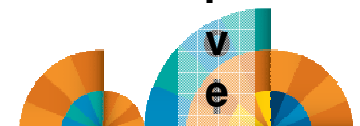
- Network Virtualization
- Memory Virtualization
- Processor Virtualization
- System Virtualization
- Disk Virtualization



SAN with 400 Gbps F

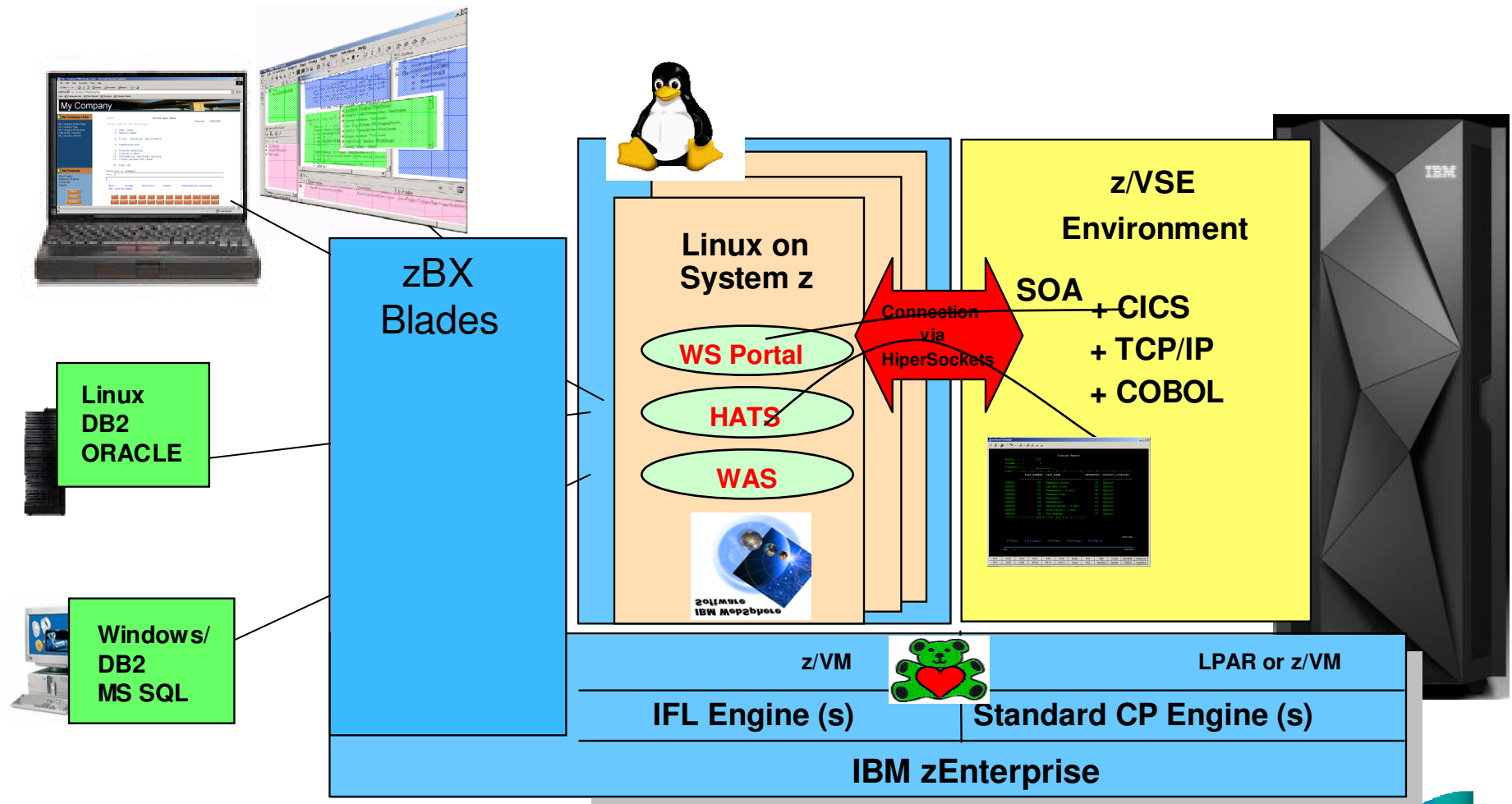


M
u
l
t
i
v
e



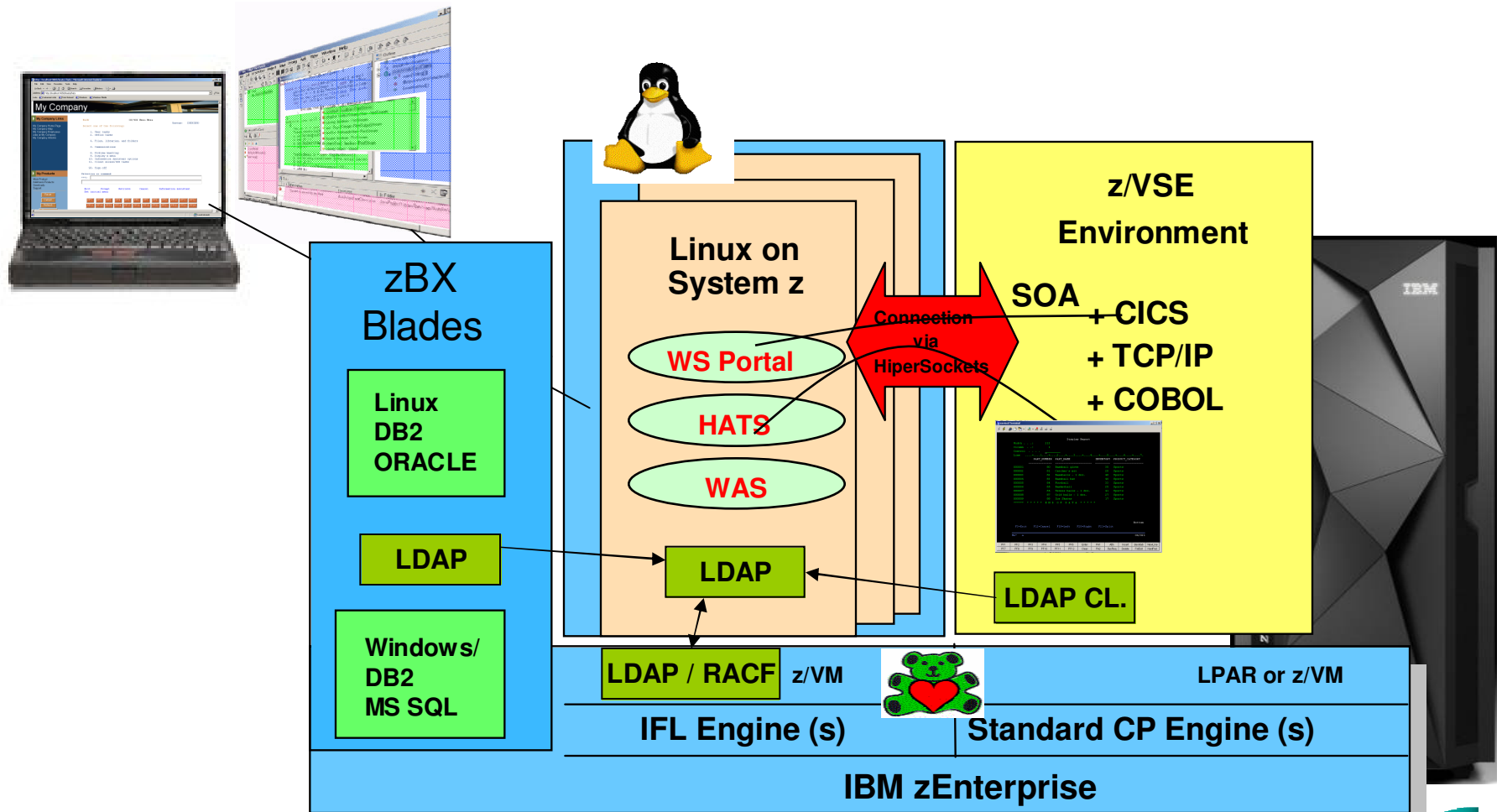
Linux on System z as Central Access Point

Web enable, improve interface, simplify, extend existing applications

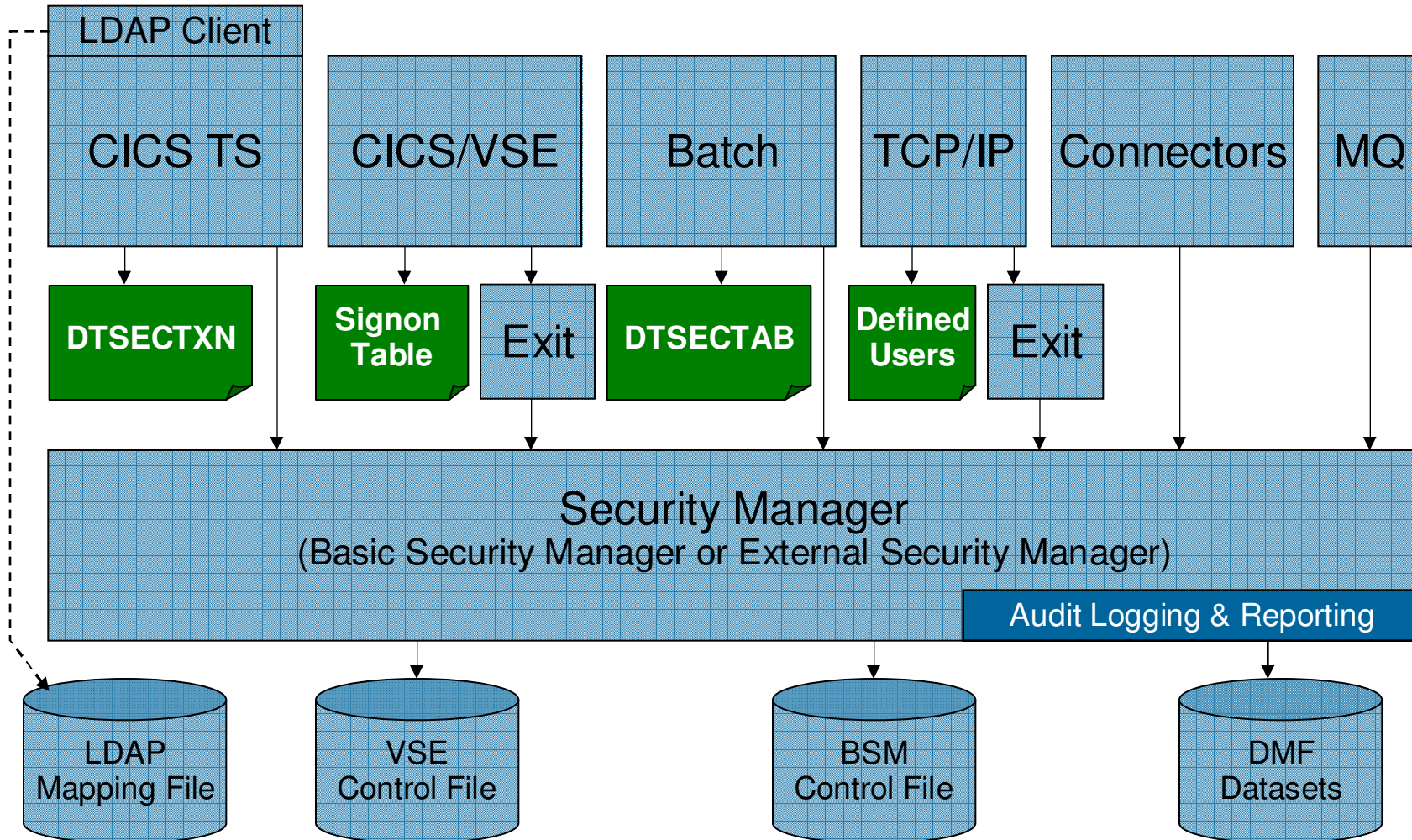


Central Authentication Options – LDAP in Linux or LDAP/RACF in z/VM

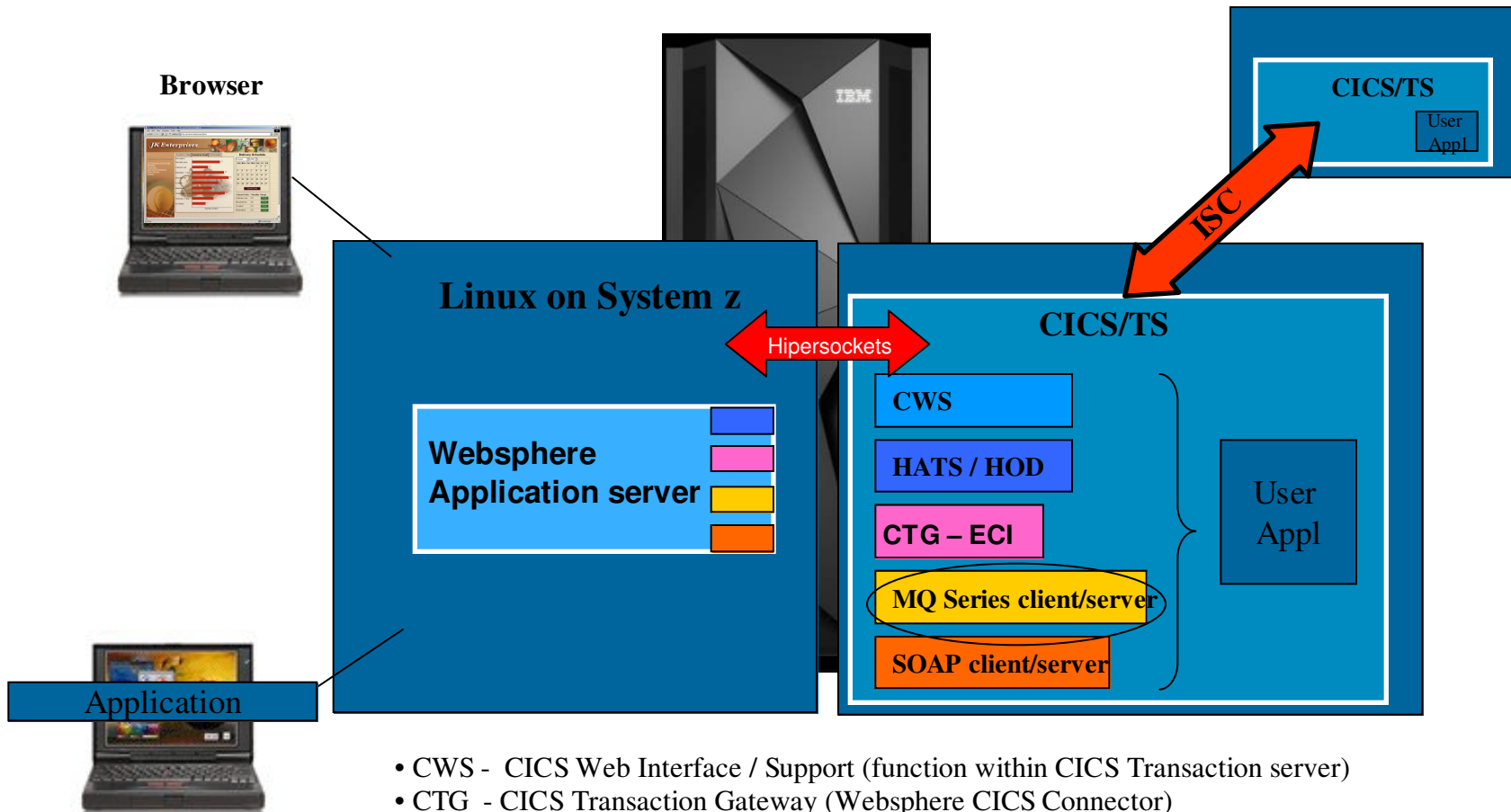
Single sign on, Web enable, improve interface, simplify, extend existing applications



z/VSE Security Components



Web Integration with traditional CICS transactions



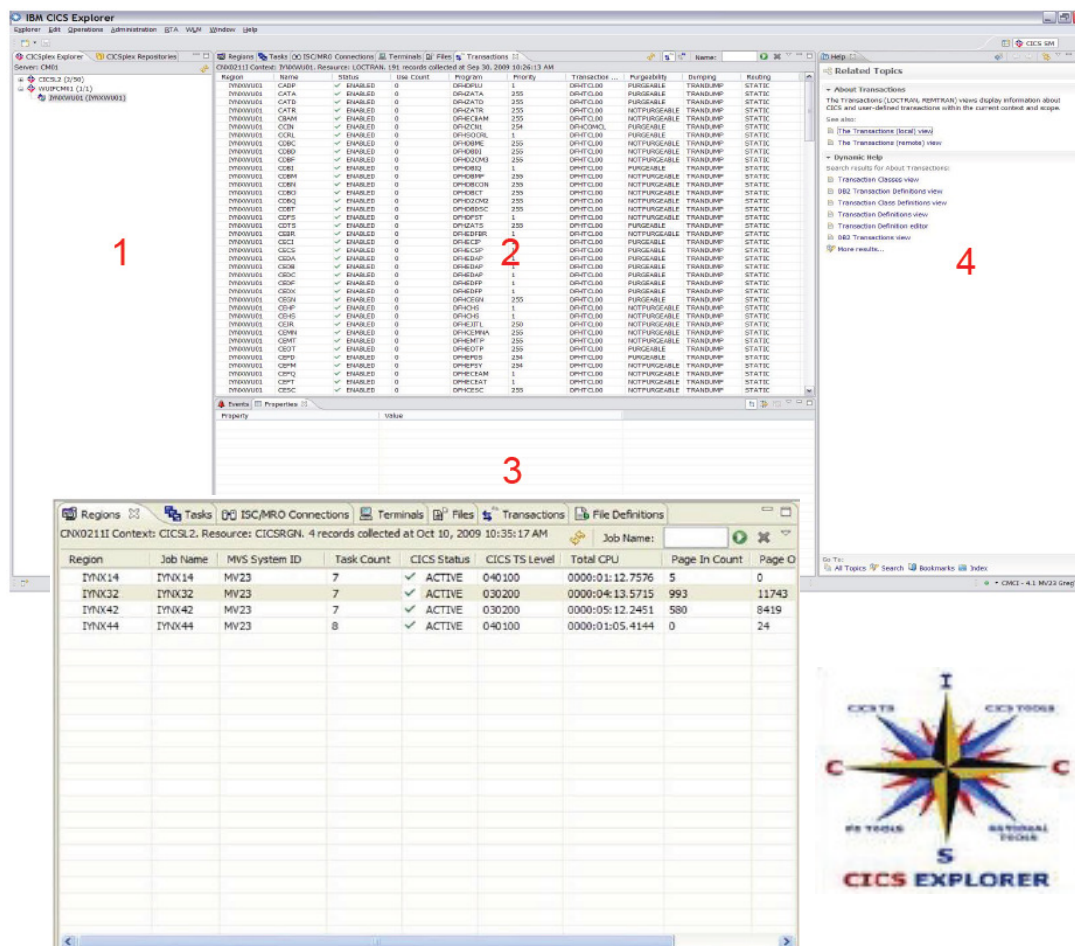
- CWS - CICS Web Interface / Support (function within CICS Transaction server)
- CTG - CICS Transaction Gateway (Websphere CICS Connector)
- HATS – Host Access Transformation Server
- HOD - Host OnDemand (Websphere Host Integrator)
- SOAP - Simple Object Access Protocol (Web Services based with XML data)



z/VSE support for IBM CICS Explorer – The “new face of CICS Transaction Server for VSE/ESA”

CICS Explorer

- New systems management framework for CICS TS
- Consists of client and server part
- Based on the Eclipse Rich Client Platform (RCP)
- Provides integration platform
- Scalable and intuitive way to monitor CICS systems
- Can be extended via plug-ins
- Client part of CICS Explorer common for z/OS and z/VSE
- Server part requires CICS TS and z/VSE 5.1



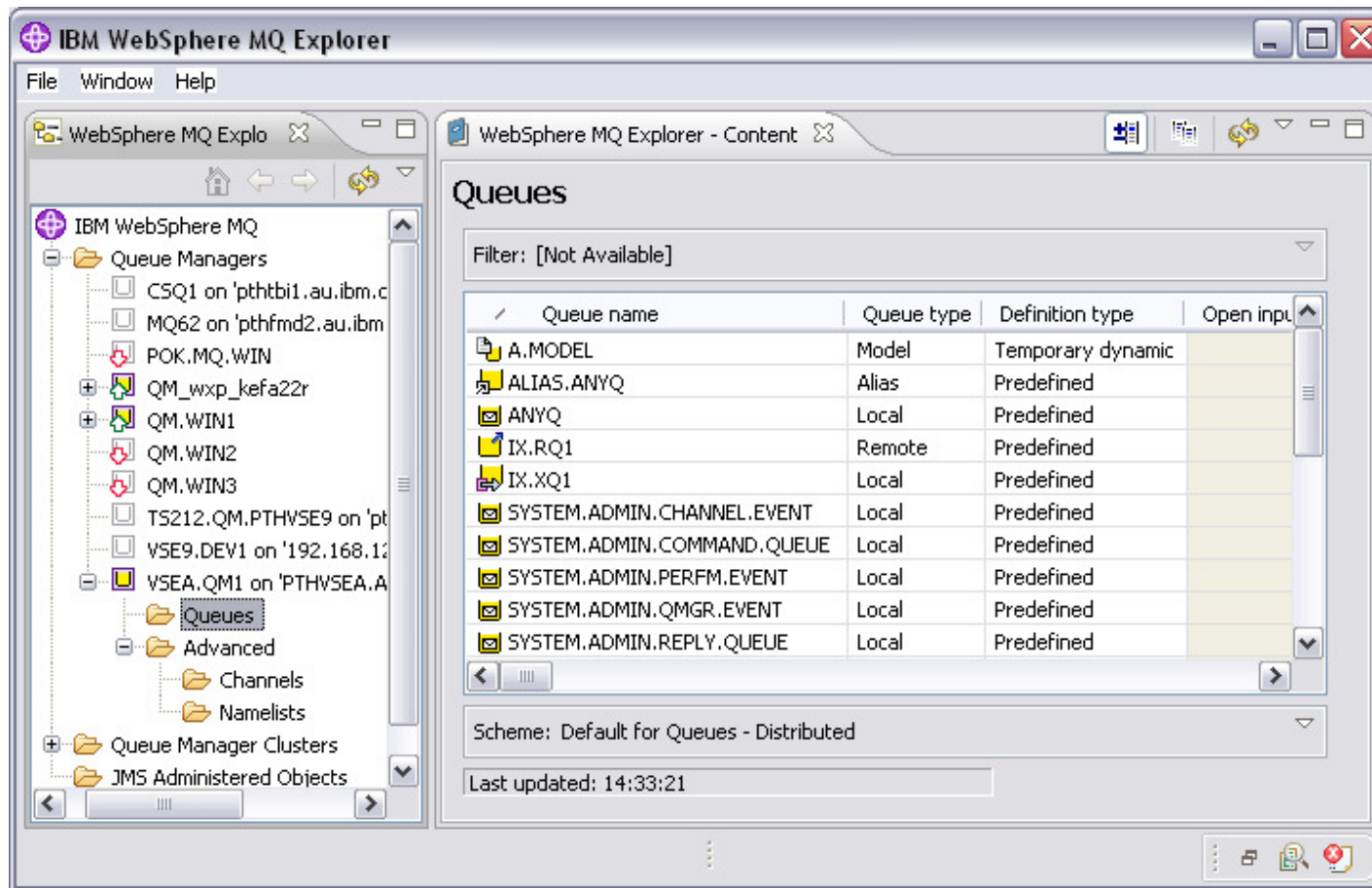
Fulfills Statement of Direction:

“IBM intends to provide CICS Explorer capabilities for CICS TS for VSE/ESA, to deliver additional value.”



New in WMQ for z/VSE V3R0

Graphical administration of WebSphere MQ for z/VSE Queues with WMQ Explorer



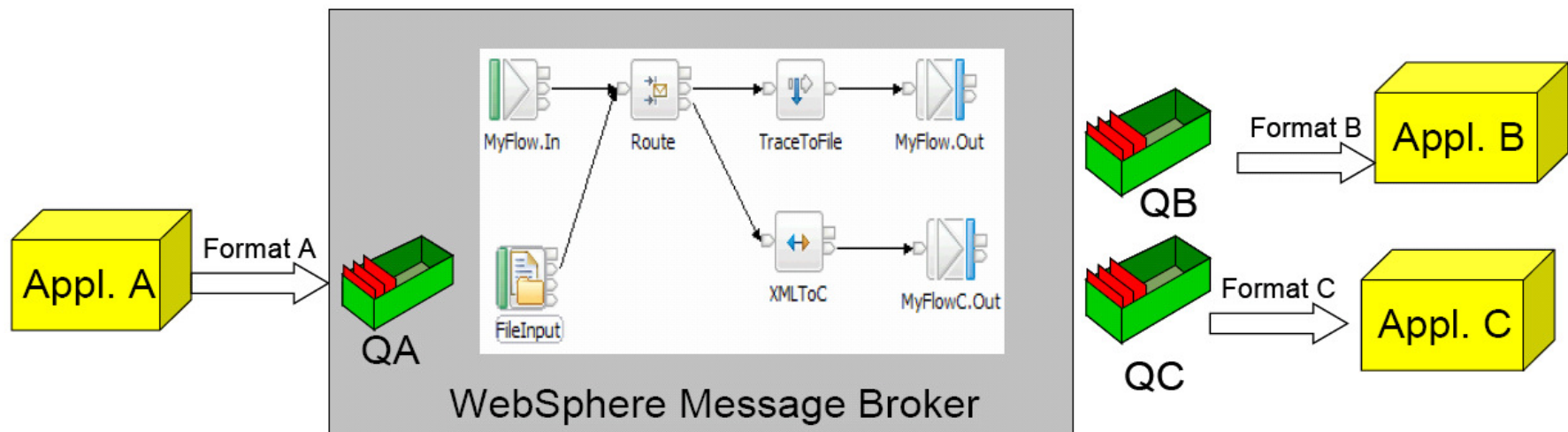
You can use Explorer to administer the z/VSE queue manager, its queues, channels and namelists, including create, delete, modify and display.



WMQ Message Broker - Workflow handling

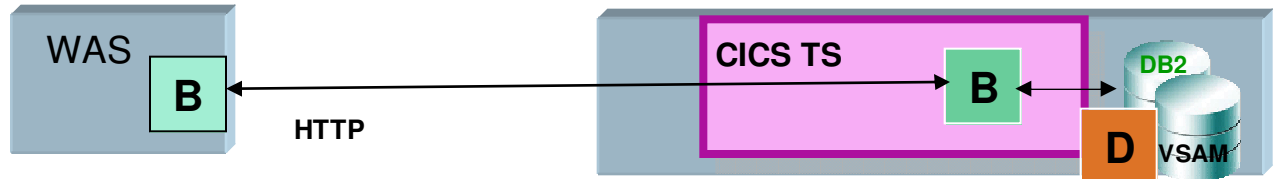
MQ with Message Broker can be the **ESB for SOA**

- **Distributes information and data generated by business events in real time to applications, and devices throughout your enterprise and beyond.**
- **Using WebSphere Message Broker decouples the applications.**
 - Application A writes a message into a queue QA.
 - Application B reads its messages from the queue QB and application C reads its messages from the queue QC.
 - These applications do not have to be aware of each other and their used format. The message mediation, routing and transformation is done by the WebSphere Message

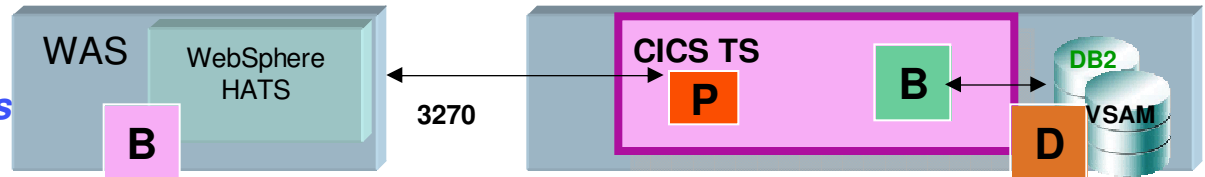


Connectivity to CICS transactions

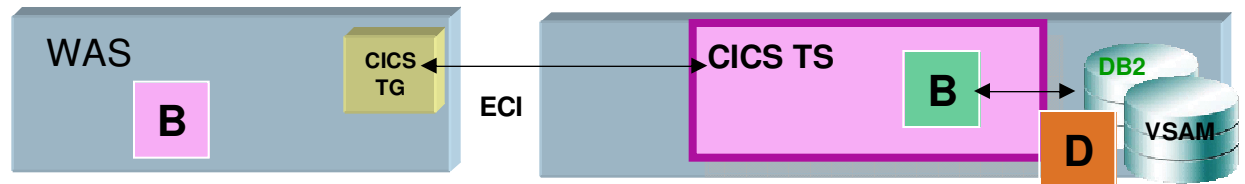
HTTP Access:
CICS Web Interface/Services (CWI/CWS) within CICS



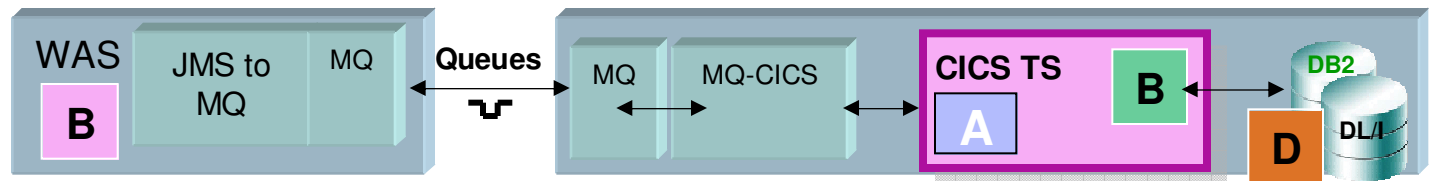
WebSphere
Host Access Transformation Services (HATS)



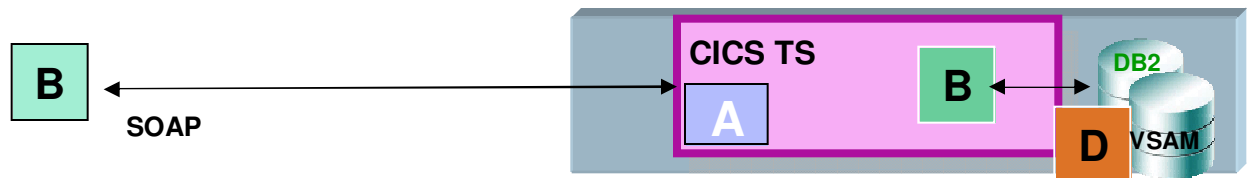
J2C Connector:
CICS Transaction Gateway (CTG)



JMS Connector:
MQ to CICS Bridge



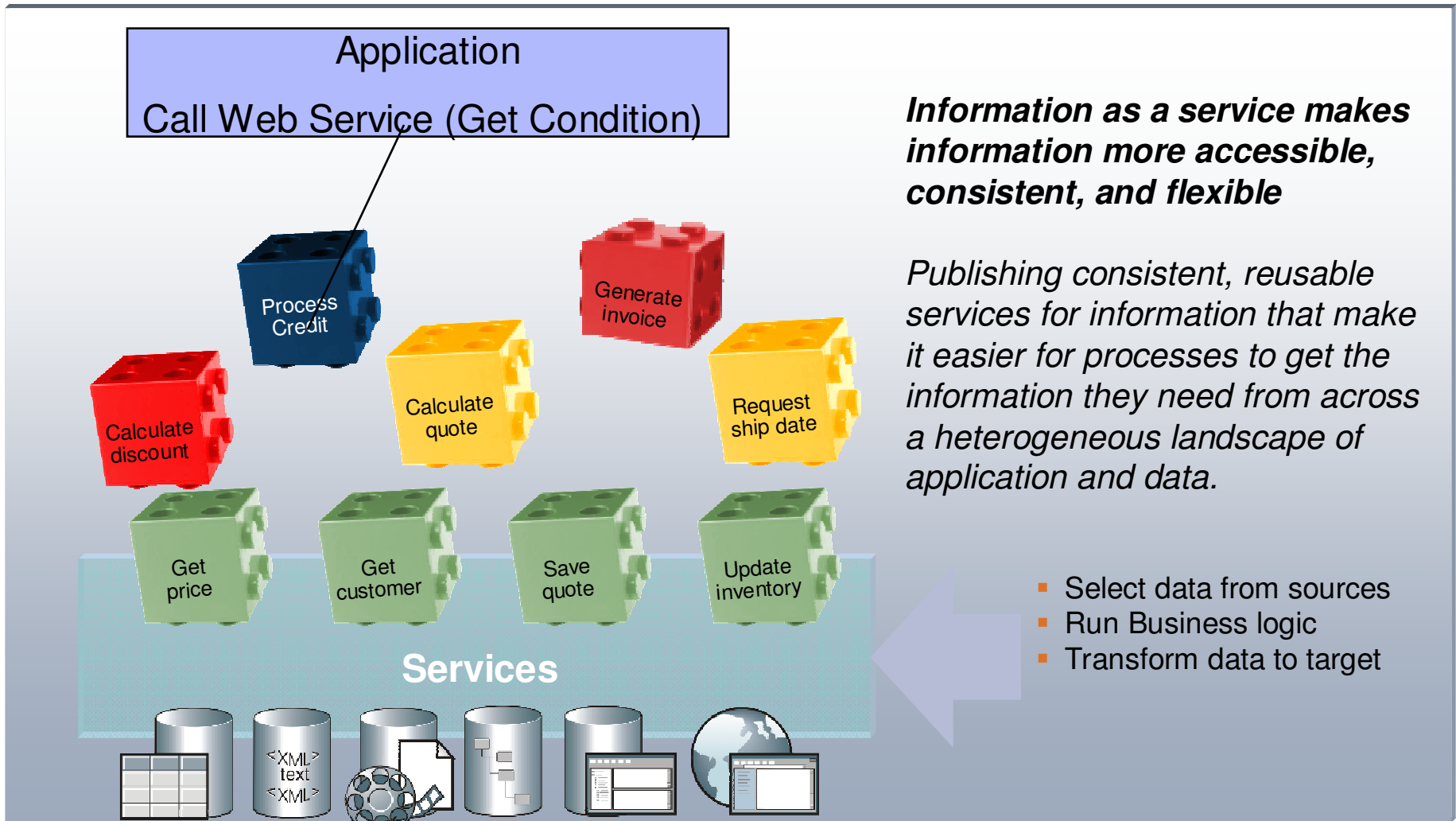
SOA Integration:
Web Services access to CICS



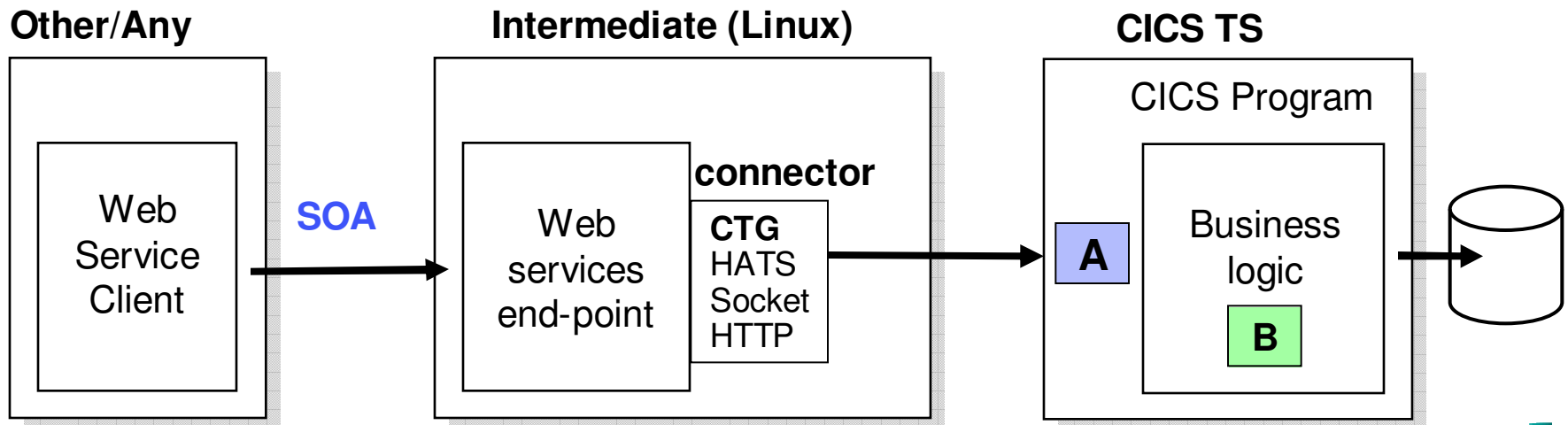
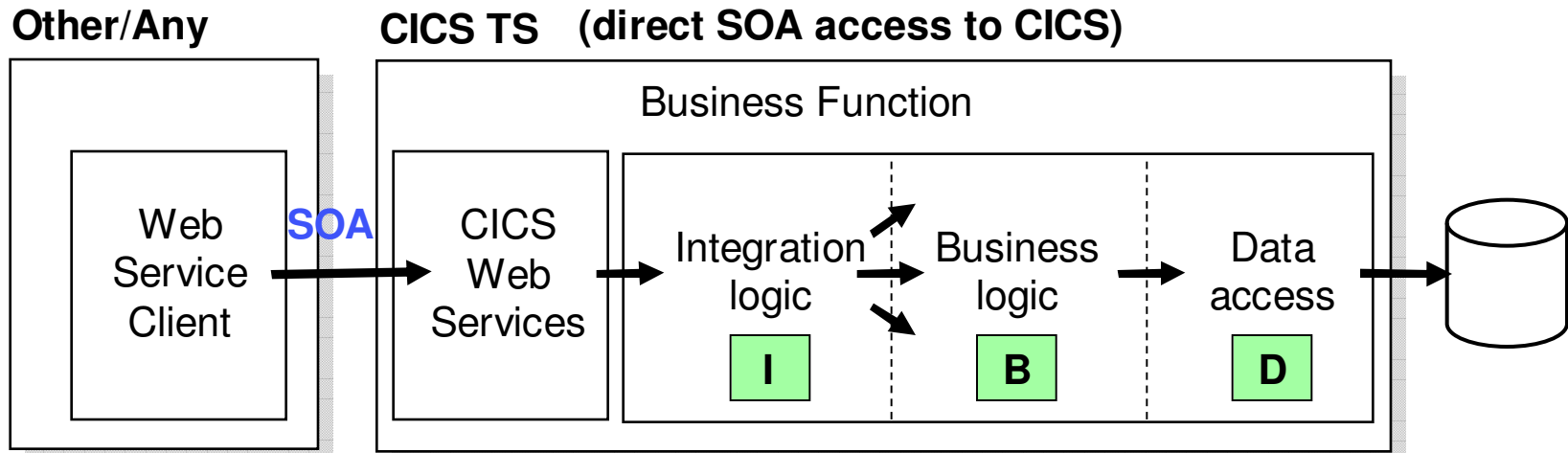
WAS can be on Linux on z or on zBX in an zEnterprise Ensemble. Qualities of Services will vary.



Integrating Logic in an SOA



The Two Models of SOA CICS Integration via Web Services



Integration using an Enterprise Service Bus

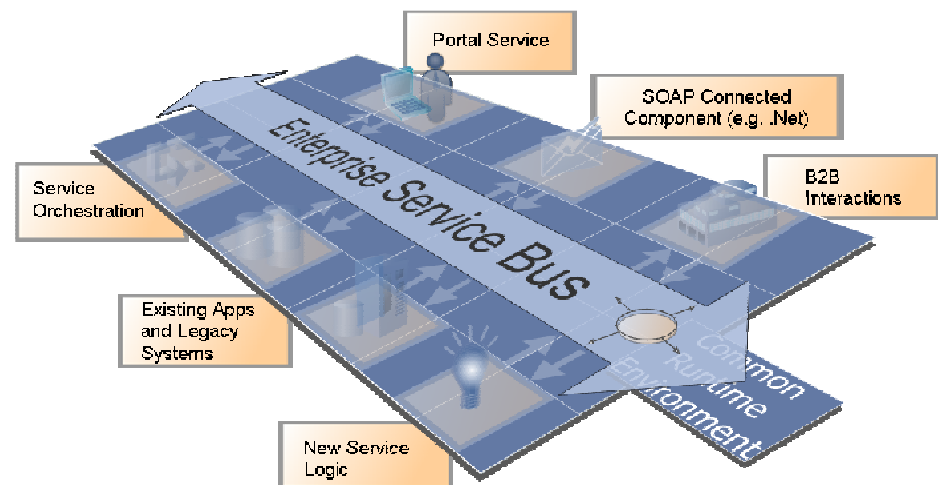
What is an Enterprise Service Bus?

An Enterprise Service Bus (ESB) is a flexible Infrastructure for services and application integration

An ESB reduces the number, size and complexity of your interfaces in a SOA solution.

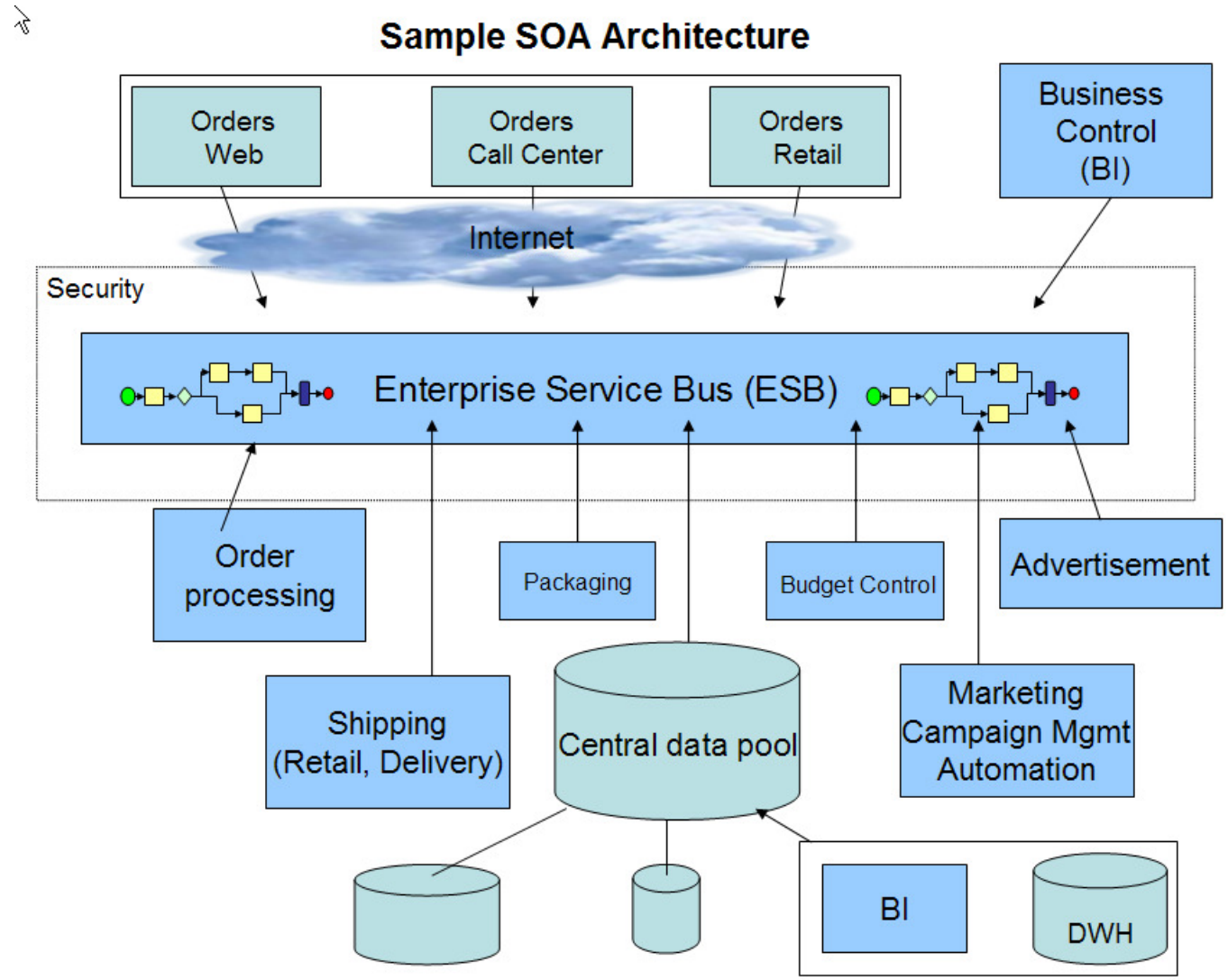
An ESB realizes following tasks between requestor and service

- **ROUTING** of messages between Services
- **CONVERTING** the transport protocol between requestor and service
- **TRANSFORMING** message formats between requestor and service
- **HANDLING** of business events between different types of services



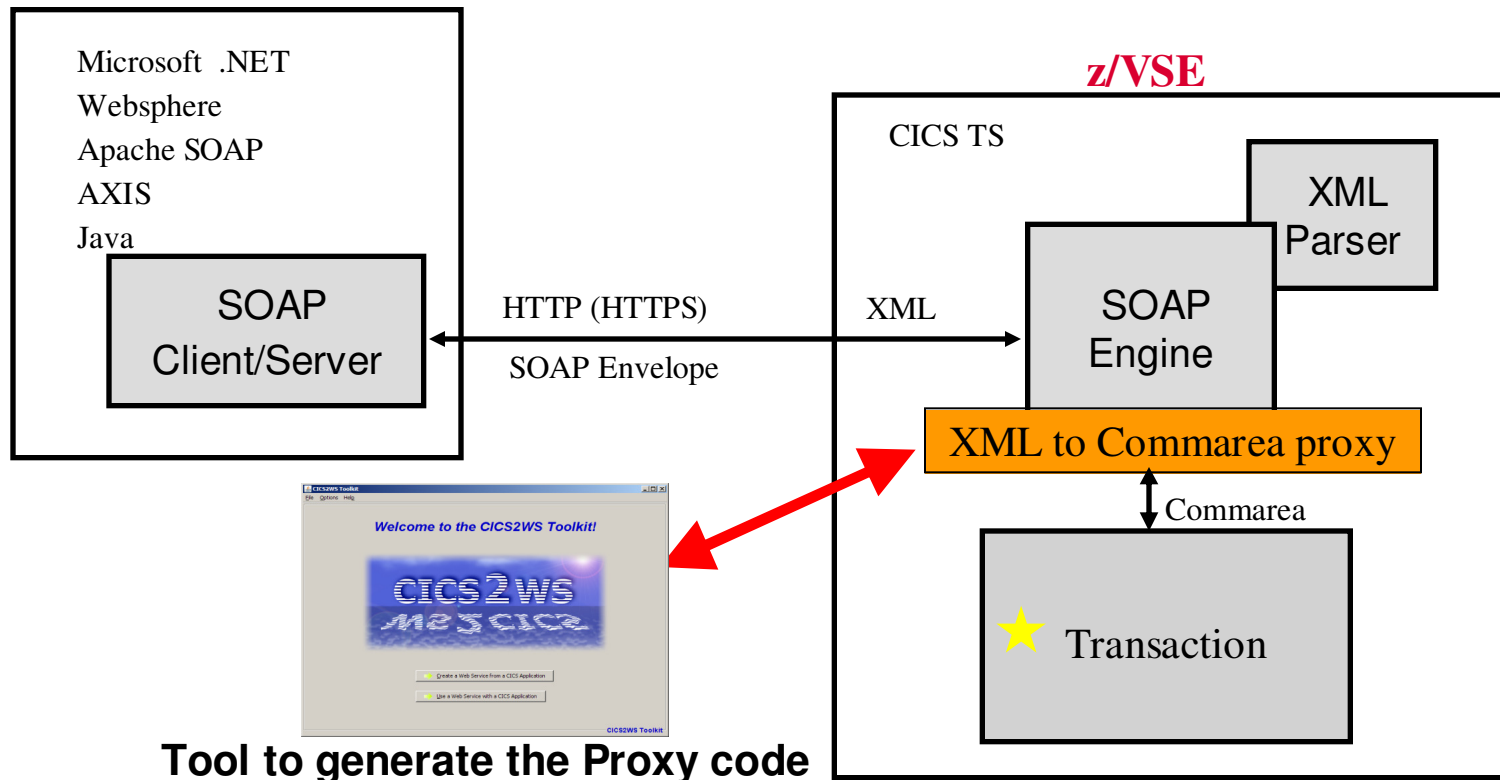
SOA – it is the implementation phase

- Active Projects in several customer sites:
 - Germany
 - Italy
 - Ecuador
 - Philippines



Web Services with z/VSE

SOA and XML data interchange with
CICS transactions in VSE



- ★ Existing VSE Transactions as Web Service
- ★ Existing Transactions can call a remote Web Service



z/VSE V5 Strategy with zEnterprise - More options, highly integrated

Network simplification with zBX or z/VM

Reduce

- Routers
- Switches
- Firewalls

Centralize

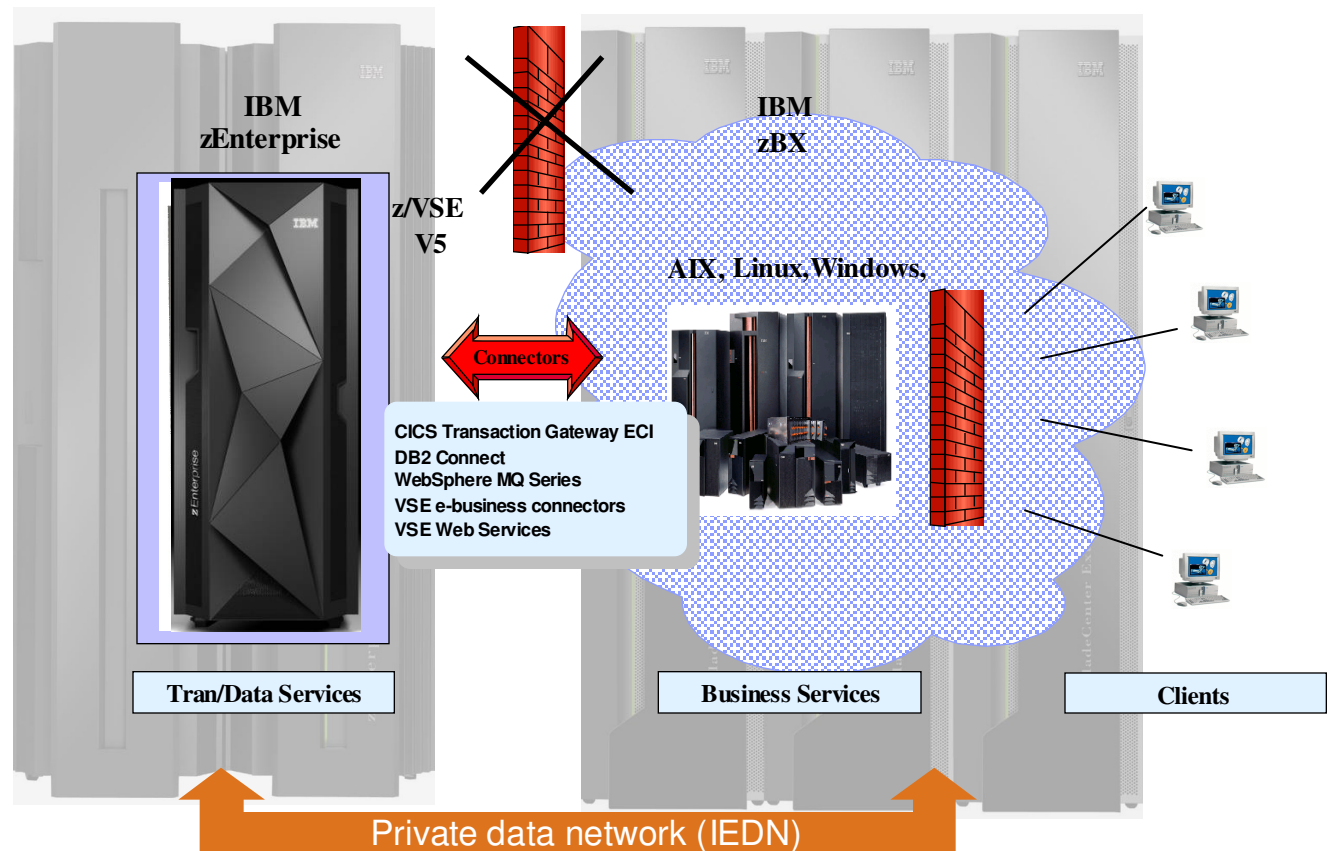
- DNS Server
- Network filtering
- Work balancer
- Edge Server

LDAP security integration

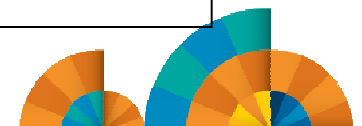
➤ Uses the internal IEDN network.

➤ No need for additional DMZ security to z/VSE

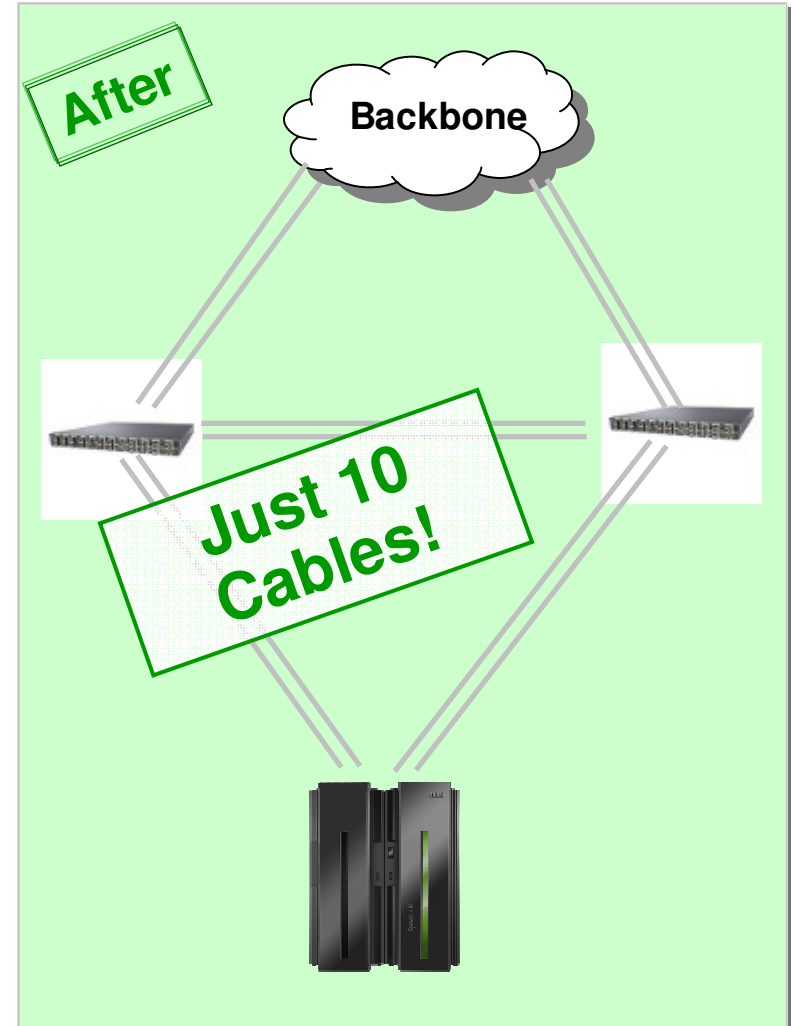
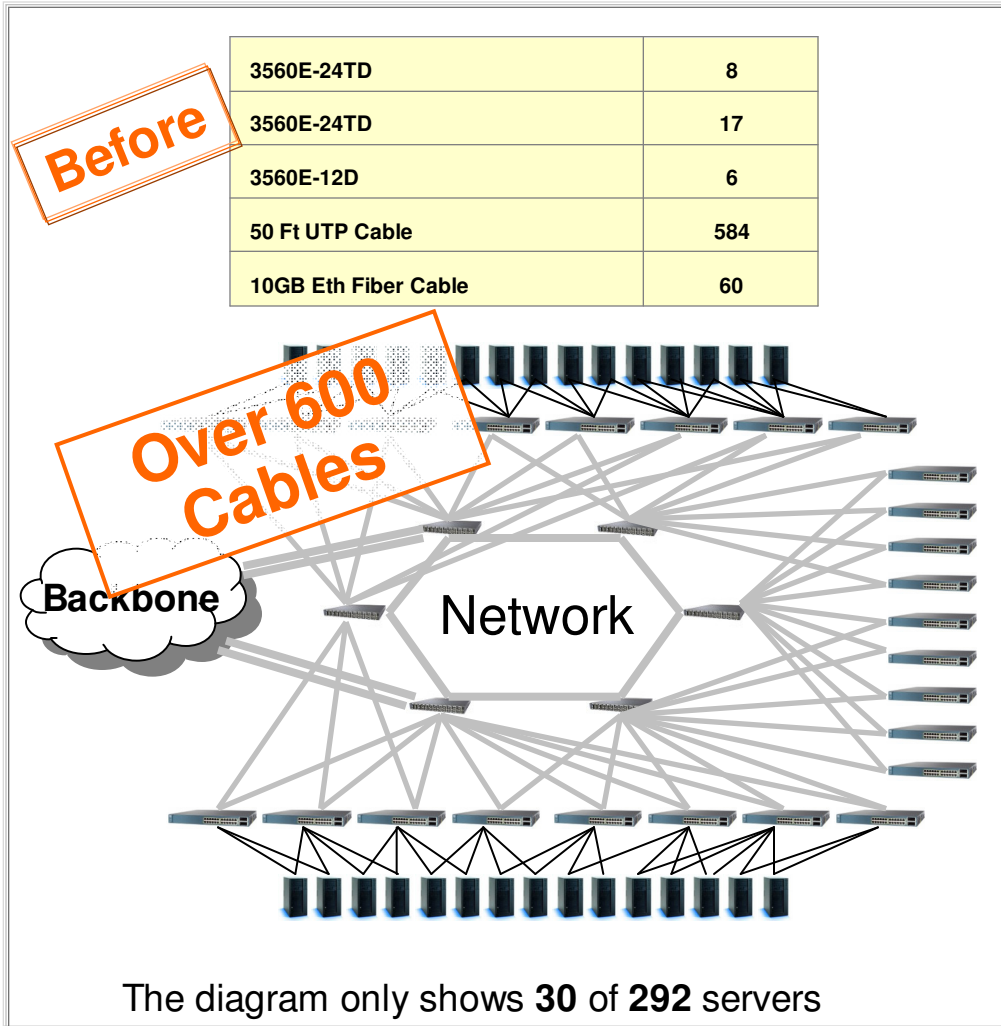
➤ use standard Intel based software



Protect existing z/VSE investments
Integrate using middleware and z/VSE connectors
Extend with zBX or with Linux on z to access new applications & solutions



Insurance Company Consolidated 292 Servers to a z10

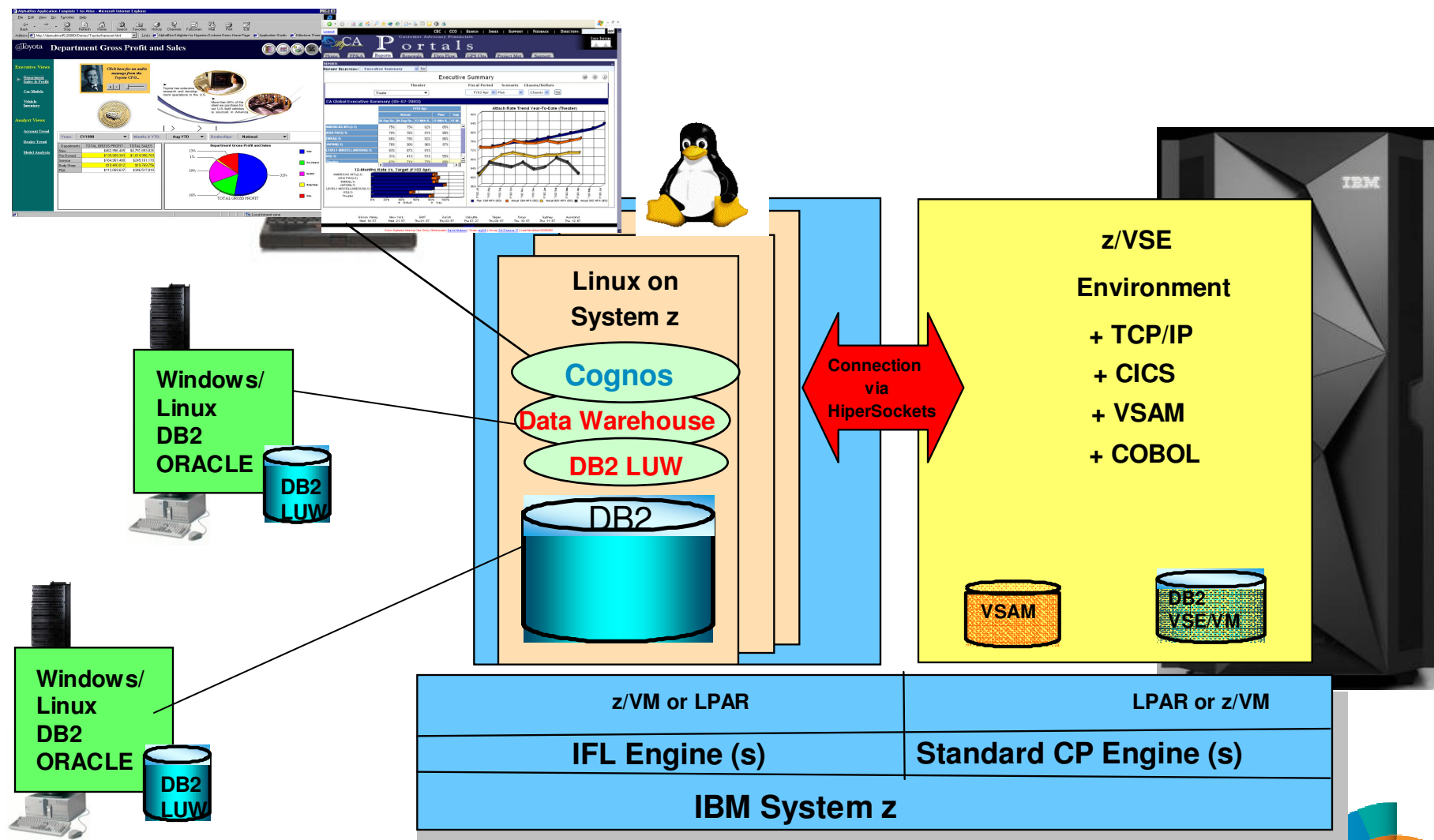


Data is based on real client opportunity and on internal standardized costing tools and methodologies.
 Client results will vary by types of workloads, technology level of consolidated servers, utilization factor, and other implementation requirements. Savings will vary by client.



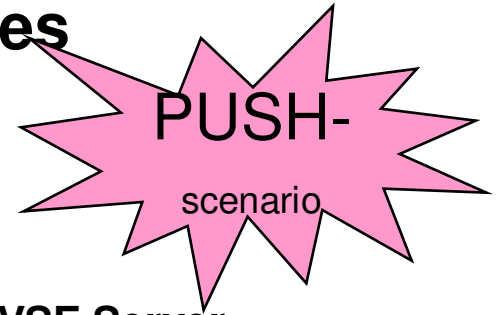
Data Warehouse and BI with Linux on System z

Consolidate, Integrate, Evaluate - DB2 Client, VSAM Redirector

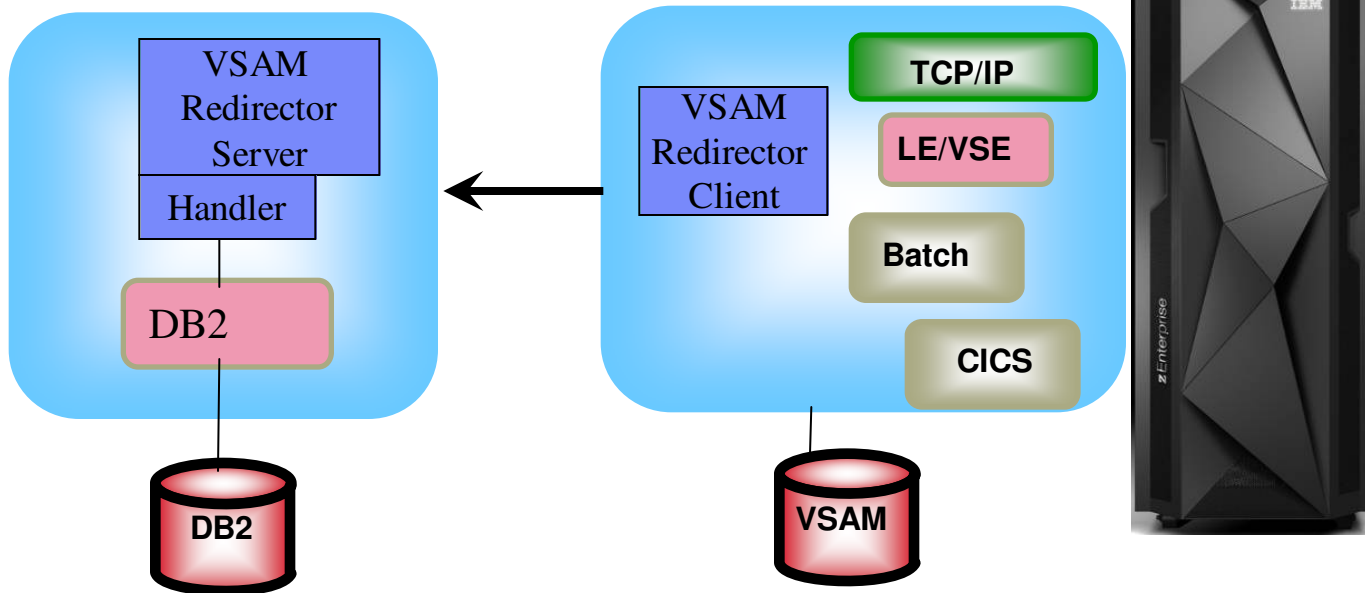


(B)PUSH scenario: VSE/VSAM applications, access remote relational databases

- (1) Real time access VSAM to relational databases
 - a) synchronization (two phase commit of VSAM and DB2)
 - b) Real time access to DB2 (no VSAM access anymore)
- (2) VSE local data collection for VSAM
 - a) Capture Exit and Incremental Apply processing
 - b) MQ Exit and MQ Series solutions



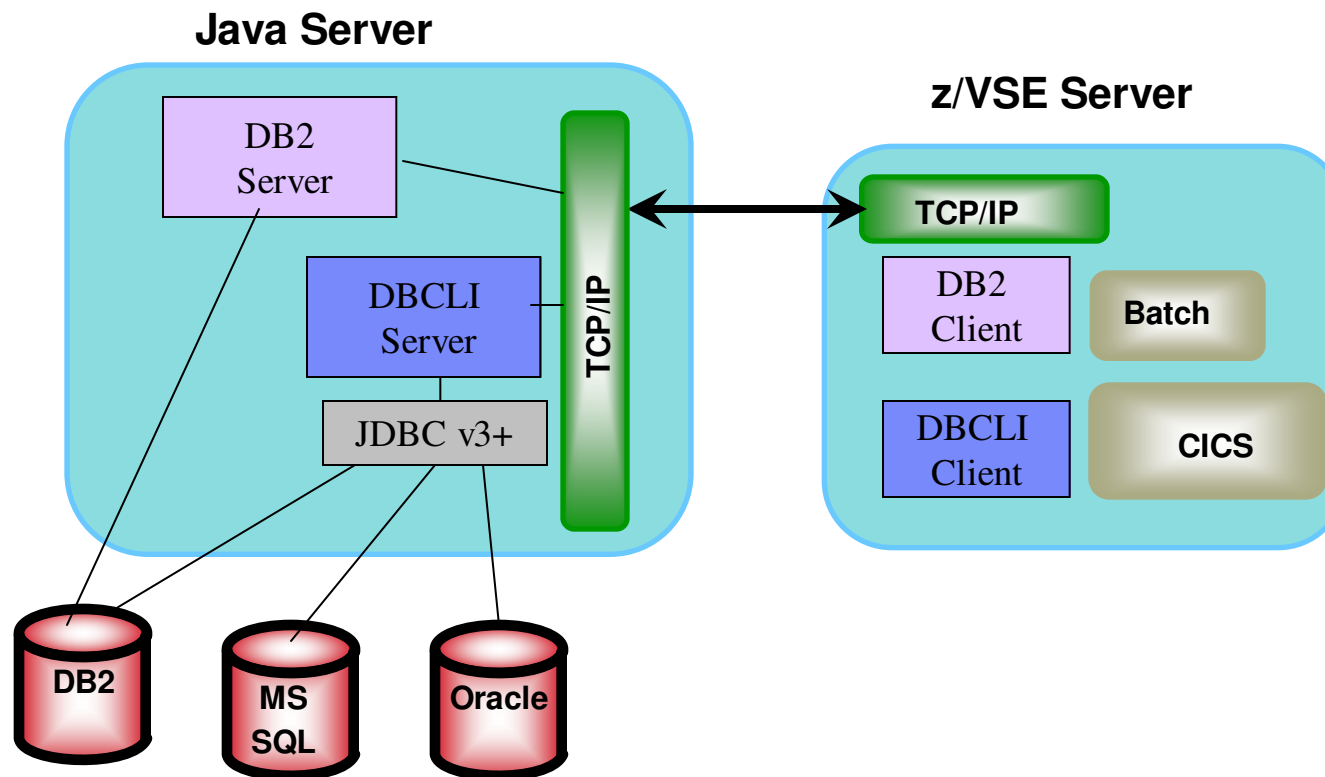
z/VSE Server



Applications on z/VSE access 'any' remote relational databases

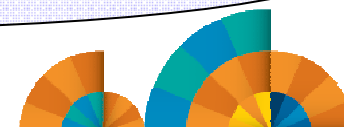
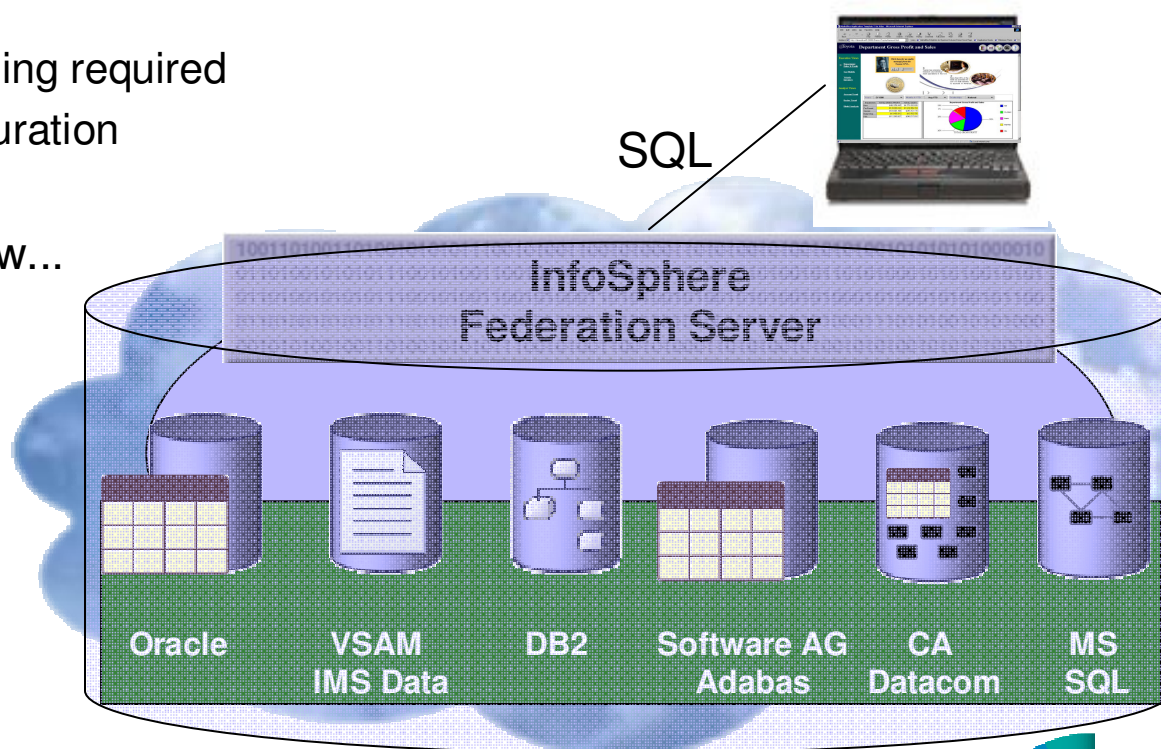


- Real time access to Relational databases
 - two different ways from batch and CICS
 - Access based on z/VSE DBCLI interface **AND / OR** DB2 Client

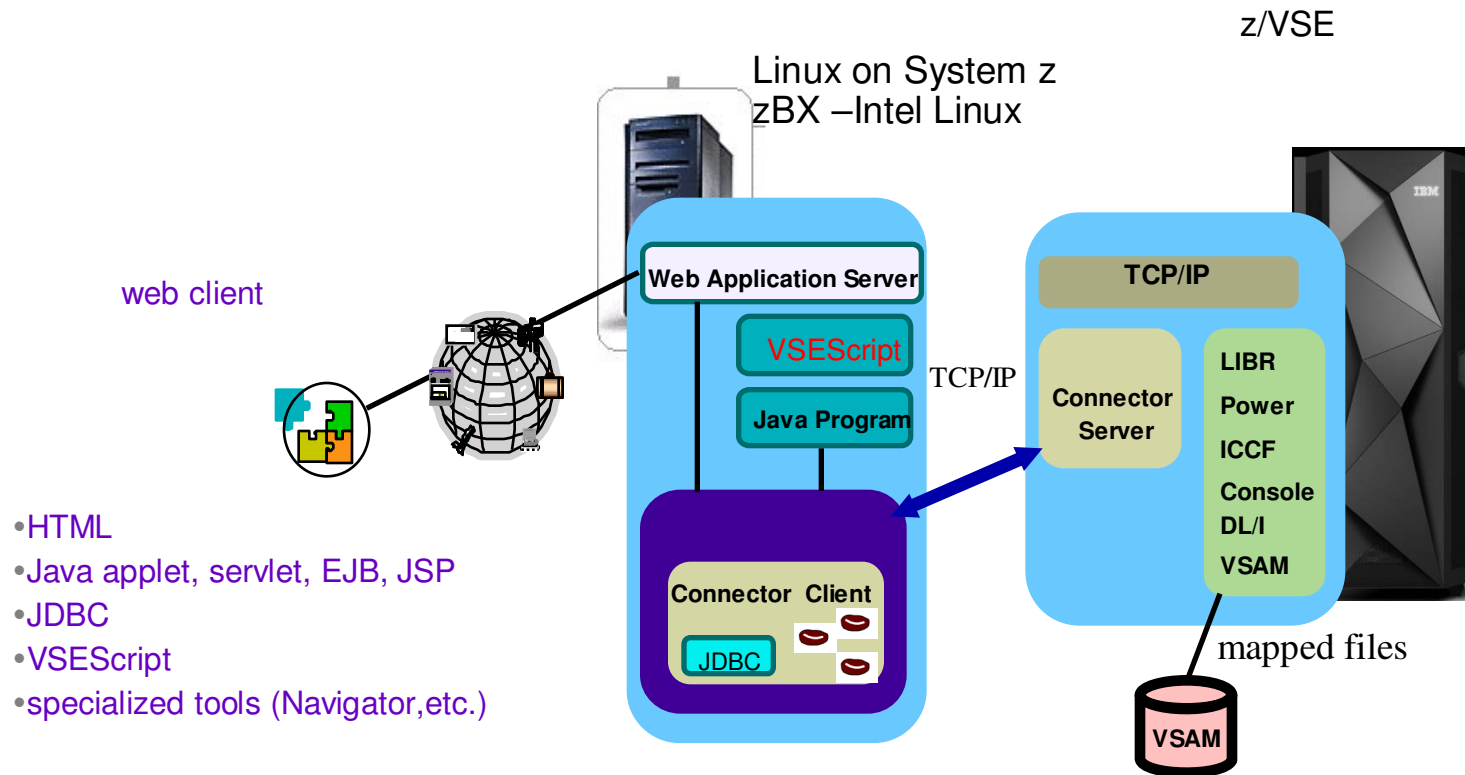


InfoSphere Federation Server on Linux on System z

- Integrating at the data layer – Federation of data
 - Read from and write to federated mainframe data sources using SQL
 - Standards-based access via JDBC, ODBC, or Call Level Interface
 - Including for mainframe VSAM data and flat files
 - Multithreaded with native drivers for scalable performance
 - Metadata-driven means...
 - No mainframe programming required
 - Fast installation & configuration
 - Ease of maintenance
 - Works with existing and new...
 - Mainframe infrastructure
 - Application infrastructure
 - Toolsets



Real time access to VSE resources using the Java-Based Connector (feature included in z/VSE)



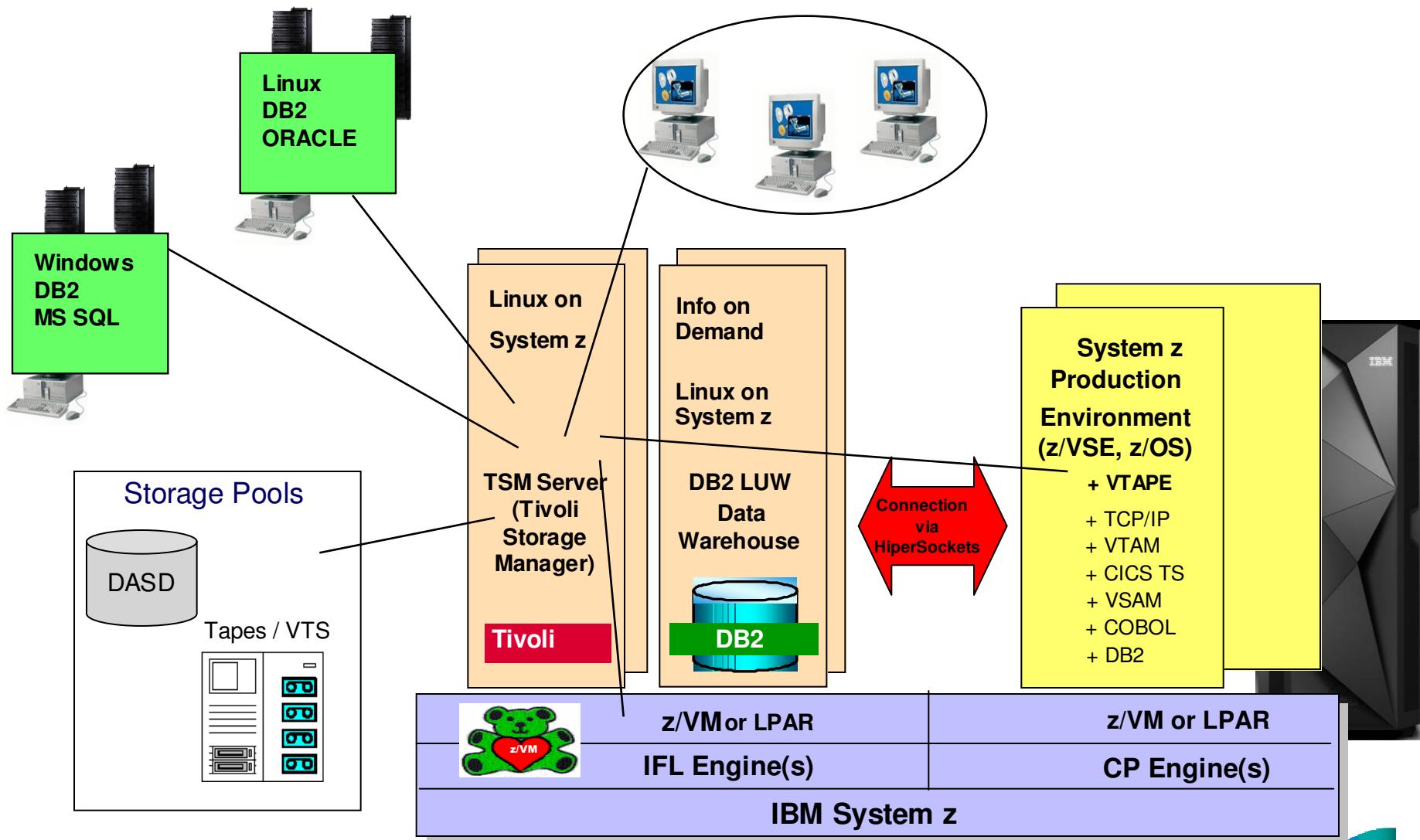
- HTML
- Java applet, servlet, EJB, JSP
- JDBC
- VSEScript
- specialized tools (Navigator,etc.)

- real time access to VSE resources from remote systems
- new possibilities for leveraging the VSE investment



Enterprise Backup with Linux on System z

Implement TSM on Linux on System z as central Backup Hub



Exploitation of IBM System Storage options with z/VSE V5

- **Copy Export function of the TS7700 Virtualization Engine Series**
 - can be used for disaster recovery purposes
- **Multi-Cluster Grid Support of the TS7700 Virtualization Engine Series**
 - enables disaster recovery or high availability solutions
- **FCP-attached SCSI disks can additionally be used with:**
 - IBM Storwize V7000 Midrange Disk System
 - IBM XIV Storage System

Storwize V7000



Midrange size system with great highend features

Highend 99.999 system without sophisticated options

XIV



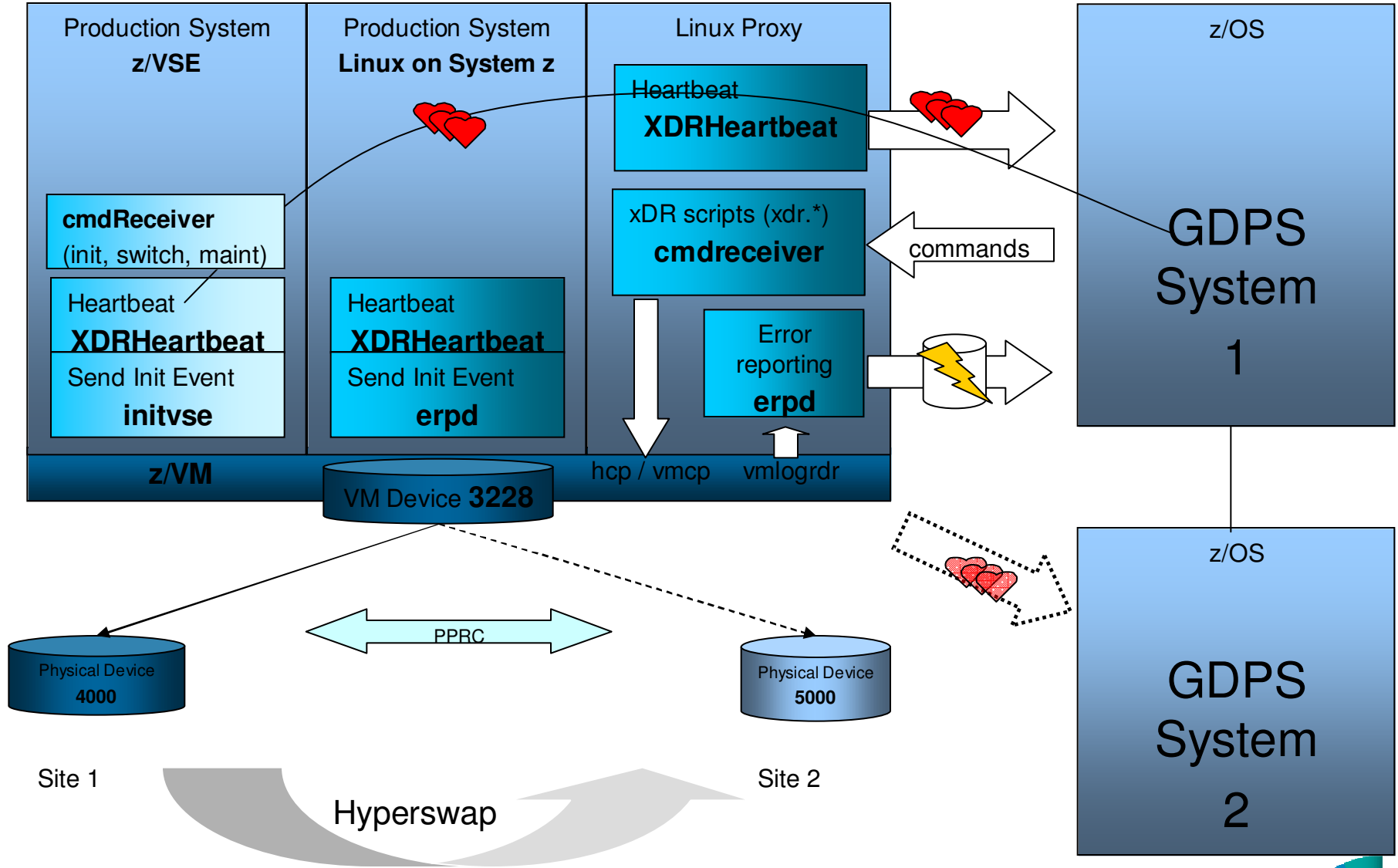
DS8000



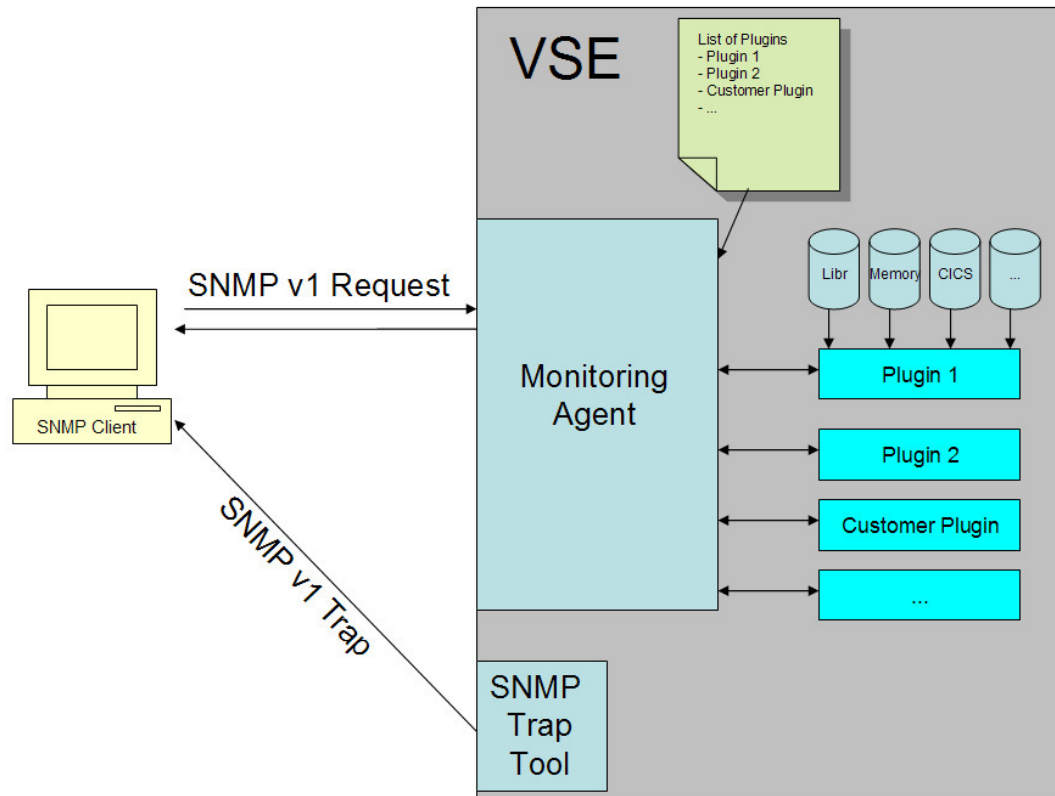
Highend 99.999 system with sophistication, complex 3-site copies, ultra-low latency



xDR Support for z/VSE as active guest under z/VM



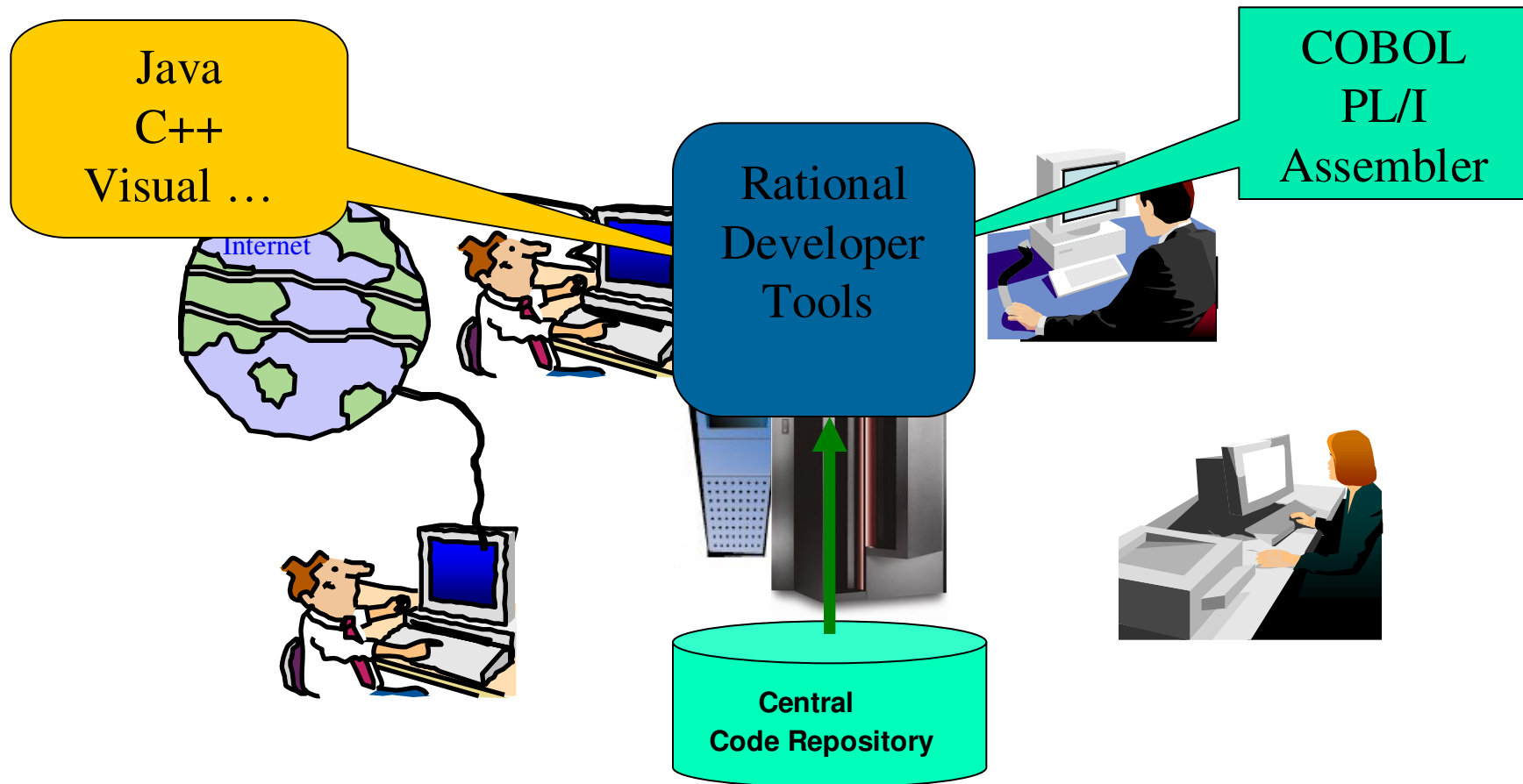
z/VSE Monitoring possibilities



- **Monitoring Agent based on SNMP V1**
 - Real time monitoring
 - retrieve z/VSE specific system and performance data
 - Event driven monitoring using **SNMP Trap** tool and **API**
 - Helps to automate processes in z/VSE with SNMP traps



'Common' development Environment...

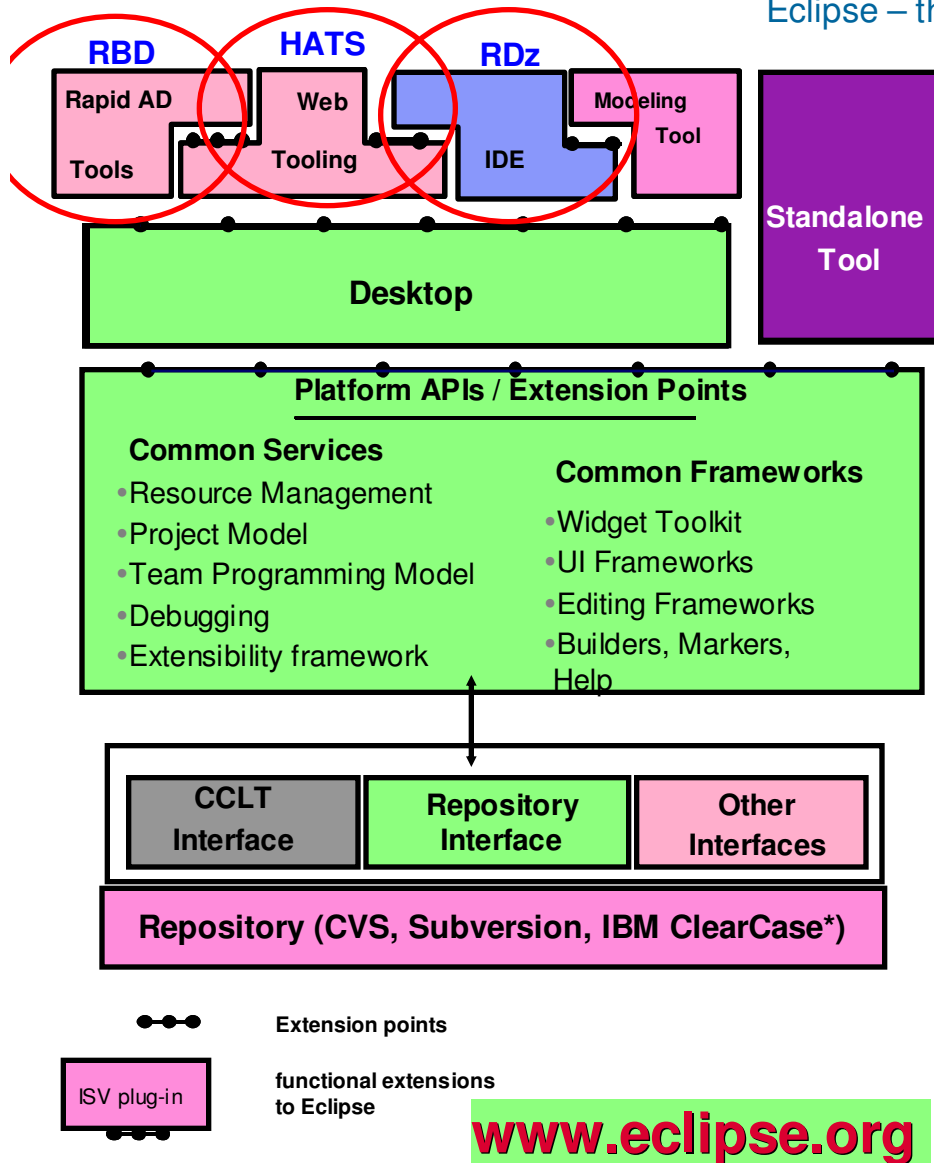


Eclipse helps !



Eclipse based Development Environments for z/VSE

Eclipse – the open Standard for application development



What is Eclipse about:

- Open source development framework
 - with modern Editors
 - syntax help & check
 - semantic check
- Centralized source code maintenance
 - entire source code in central Repository
 - cross platform project administration
- Versioning software interface
 - CVS, Subversion, or IBM ClearCase
 - automatic Workgroup-control
- Open for ISVs development Plug-Ins
 - 1) Integrated Development Environment (IDE)
 - Rational Developer for System z (RDz)
 - for Java, COBOL, PL/I, ASM,C
 - 2) IBM HATS Development Plug-In
 - develop new front-ends to 3270 applications
 - 3) IBM EGL development for z/VSE
 - Rational Business Developer (RBD)
 - EGL Plug-In for z/VSE
 - follow-on to Visual Age Generator IBM HATS



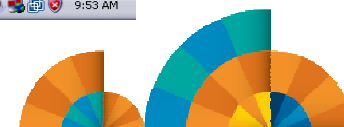
IBM Rational Developer for system z - the z/VSE Perspective

The screenshot displays the IBM Rational Developer for system z interface with several key components highlighted by red boxes and numbered callouts:

- 1. Perspective:** The top toolbar and menu bar.
- 2. View:** The VSE System View on the right, showing a hierarchical tree of system components like VSE SYSTEM, VSE Lab, and VSE Mainframe.
- 3. Projects:** The z/OS Projects view on the left, showing a tree of project files including .TmpVseRemote, BMS, Java2VSE, soap, StartApp, Test, link, .project, link-book, PRINTAPP.cbl, STARTAPP.cbl, TIMEZONE.cbl, and Timezone.
- 4. Editor:** The central code editor showing the source code for PRINTAPP.cbl. The code includes sections for Identification, Data, Linkage, and Procedure Division.
- 5. Outline View:** The Outline view at the bottom left, providing a structured view of the program's components.
- 6. VSE Console:** The VSE Mainframe console at the bottom, displaying a memory map (MAP) with columns for address, space, area, size, and name.

The VSE Console output shows the following memory map:

AR	SPACE	AREA	V-SIZE	GETVIS	V-ADDR	UNUSED	NAME
AR 0015	S	SUP	716K				##A9SUPI
AR 0015	S	SVA-24	1888K	1748K	B3000	768K	
AR 0015	0	Bc V	1280K	4864K	500000	45056K	
AR 0015	1	F1 V	1024K	4096K	500000		OK POWSTART
AR 0015	2	F2 V	2048K	49152K	500000		OK CICSICCF
AR 0015	3	F3 V	600K	14760K	500000		OK VTAMSTRT
AR 0015	4	F4 V	2048K	18432K	500000		OK
AR 0015	5	F5 V	768K	256K	500000		OK
AR 0015	6	F6 V	256K	256K	500000		OK
AR 0015	7	F7 V	1024K	19456K	500000		OK TCPIP00
AR 0015	8	F8 V	2048K	49152K	500000		OK
AR 0015	9	F9 V	256K	256K	500000		OK
AR 0015	A	FA V	256K	256K	500000		OK
AR 0015	B	FB V	256K	256K	500000		OK SECSERV
AR 0015	S	SVA-31	7588K	6748K	3700000		



Summary

The demands placed on the data center have never been greater.

IBM System zEnterprise:

1. Enables **mixed workload Business Processes** to be deployed, and centrally managed
2. Allows z/VSE **optimized integration** of data, applications, and web serving with
3. Delivers **dynamically responsive IT** with **lower acquisition and operating costs**
4. **Meets the need** of **heterogeneous data centers**



A strategic systems platform....

Helping to free up resources for critical projects and establish a base for the future

More than a decade Linux on System z and z/VSE

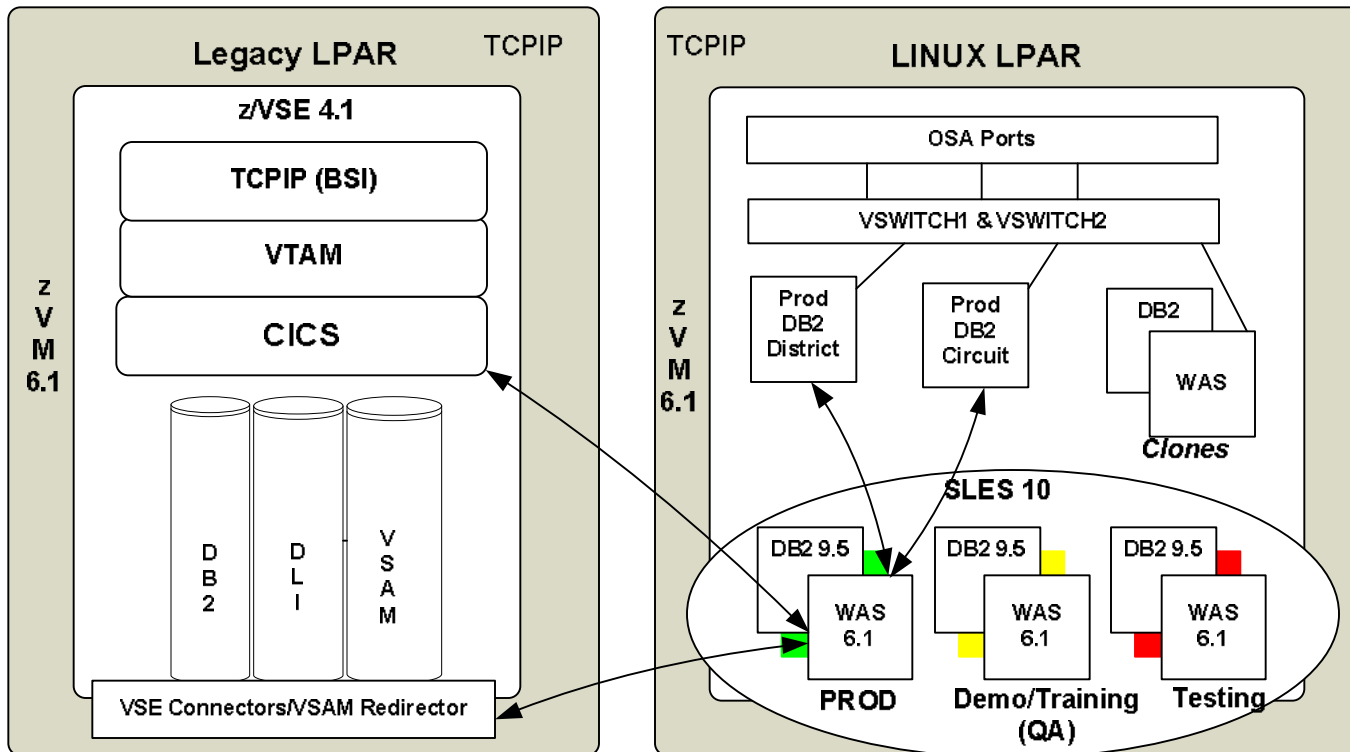


z/VSE customers with Linux on System z, - in a variety of industries

- Fashion
- Financial Institutes / Insurance
- Hotel chain / Vacation clubs
- Health institutes/ Hospitals
- Public Sector / County
- Payroll accounting
- Whole Sale – Home Articles, Pharma, Car parts
- Grocery
- Furniture manufacturing
- Horse Racing – Bets
- Church administration
- Bakery
- National Sport clubs



Customer Example: Supreme Court of Virginia



- 1 + 1 z10 BC L02
- 2 + 2 CPs
- 5 + 5 IFLs
- 112 + 112 GB memory
- 2 + 2 z/VM V6.1 LPARs
- 8 + 4 z/VSE V4.1 guests
- 73 + 24 SLES 10 SP2 guests
- WAS V6.1, DB2 V8.2, DB2 V9

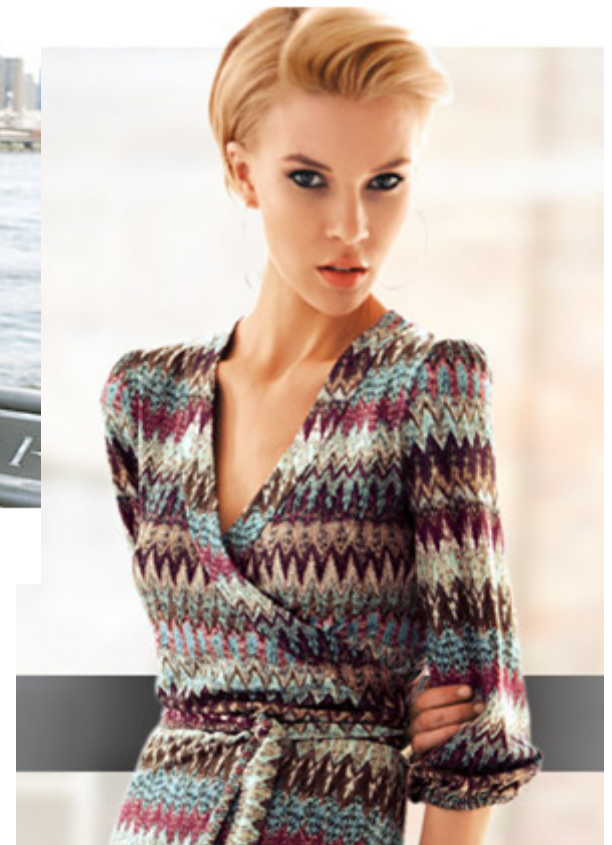
- **z10 BC L02 for Court System (internal)**
 - Serves 325 courts, 5.000+ users, 4.2 million new cases in 2009
 - Integrating z/VSE, DB2/UDB and WebSphere applications
 - eMagistrate* system serves 125 locations, 2.800 trans per day
 - *2007 ComputerWorld Honors Program Laureate*
- **z10 BC L02 for Internet**
 - eCommerce application integrating z/VSE and WebSphere apps

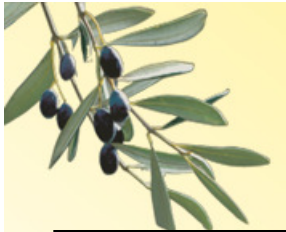


Peter Hahn - Fashion

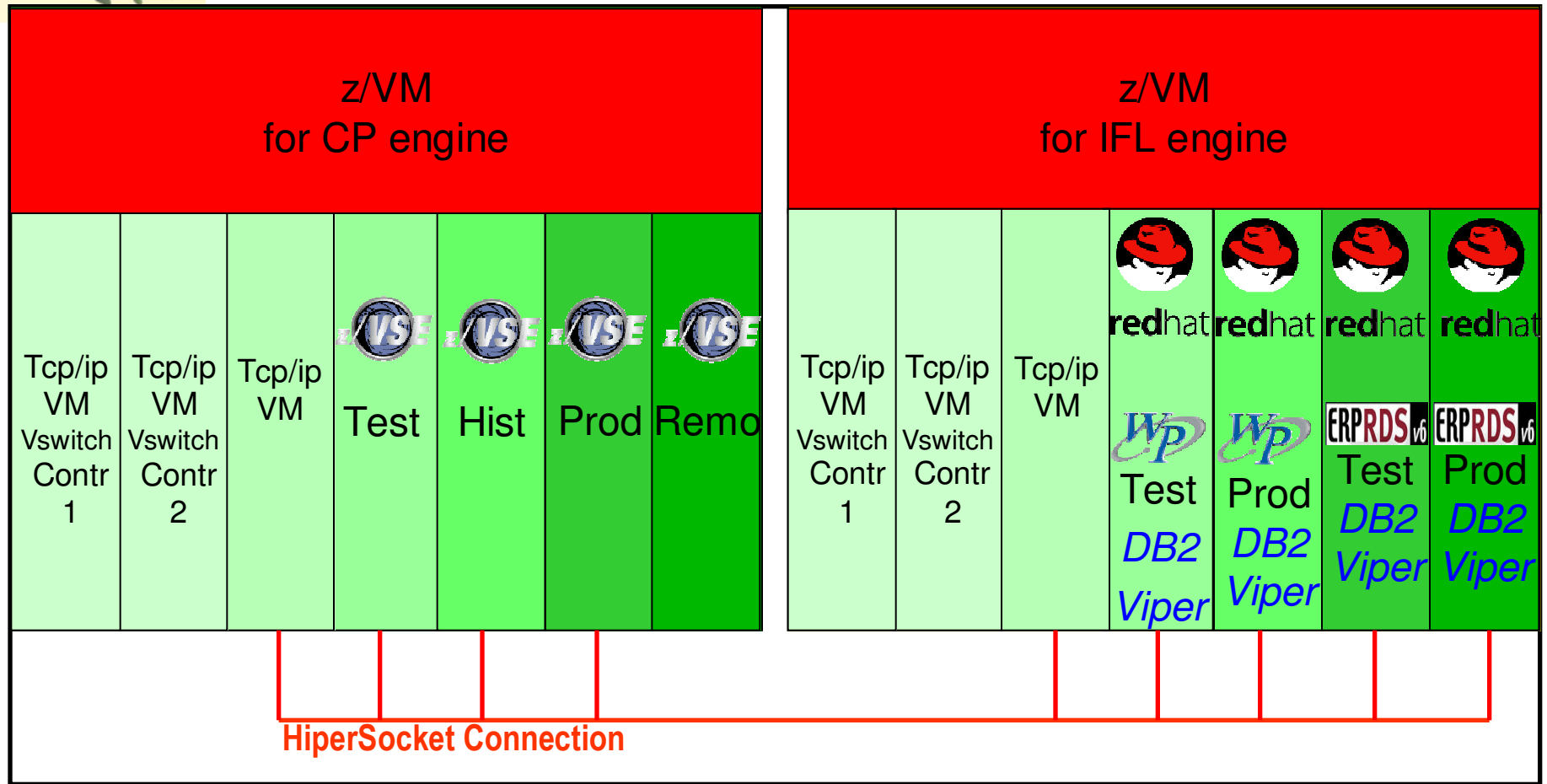


Modische Twinsets
In attraktiven Formen und Farben





Customer Reference: Fratelli Carli, Italy



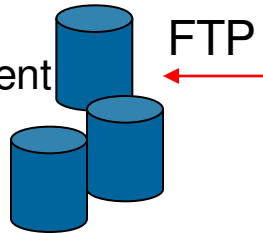


Email from
batch or
cics



AFP / PSF
via ipaddress

300 files every day
transferred to different
operating systems
(Zlinux, linux,
microsoft)

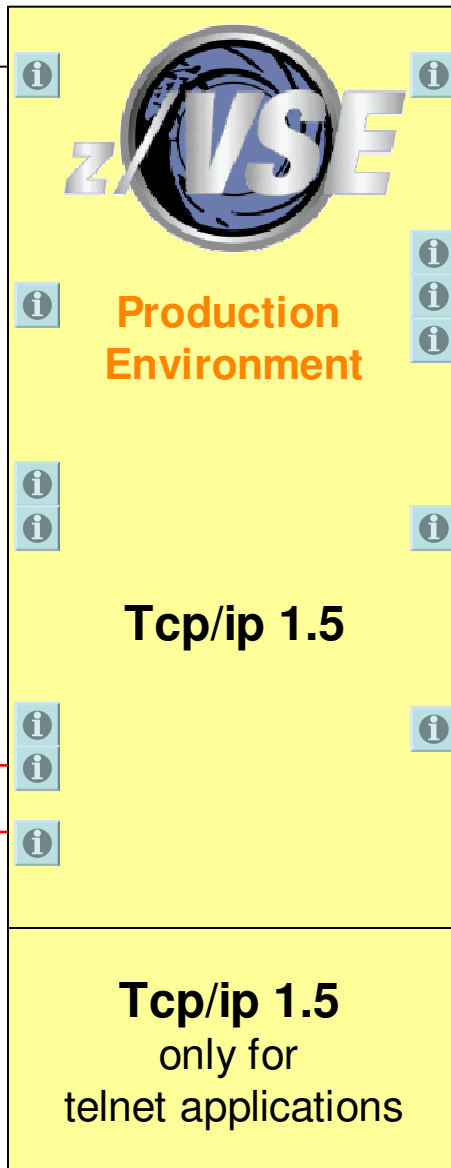


Db2 udb z/linux
applications

Vsam redirector
Server via
hipersocket to
z/linux DB2 and
via vswitch Osa
QDIO to Sql
Server



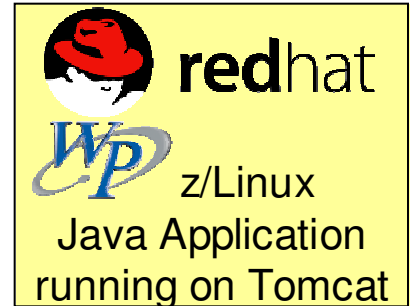
Olio Carli



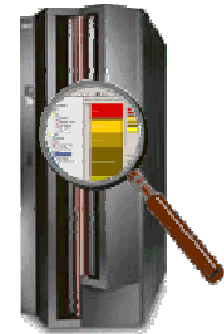
Virtual
Tape



CICS TS web
SOA via
hipersocket



Z/Vse Health
checker



Every day
240,000 cics
transactions
from 400 telnet
connections



Overview - All Tools

<http://www-03.ibm.com/systems/z/os/zvse/downloads/>

The screenshot displays a collection of zVSE tools:

- Multi Instant Logic Analyzer4VSAM V1.2**: Shows LISTCAT analysis settings and options like 'Extents Analysis' and 'Space Map Analysis'. A 'Start Listcat Analysis' button is visible.
- VSE Health Checker**: Status 'No data loaded'.
- 46992.235.631_trace.00.cap - Wireshark**: Network traffic analysis tool showing packet details.
- CICS2WS Toolkit**: 'Welcome to the CICS2WS Toolkit!' message.
- Process Selection Dialog**: Shows 'Step 1: Enter File Chooser Dialog' with 'Current processing status: No file has been selected'.
- LISTCAT Output**: A text window showing the results of a LISTCAT command. It lists occurrences of group GROUP01 and provides instructions to connect and update authority for various profiles.

```
LISTCAT
// EXEC BSTXREF,PARM='GROUP=*'
1S54I PHASE BSTXREF IS TO BE FETCHED FROM IJSYSRS.S
BSM Cross
of

Occurrences of group GROUP01

Group description TRANSEC CLASS MIGRAT
Connect group for user $SRV
Connect group for user CICSUSER
Connect group for user OPER
Connect group for user PROG
Update authority in access list of profile FACILITY DFHRCF.BRSLPU
Update authority in access list of profile FACILITY DFHRCF.BRSL01
```



Be current: <http://www.twitter.com/IBMzVSE>

Subscribe to be get on the distribution list for latest news for zVSE

The screenshot displays the Twitter profile for IBMzVSE. The profile header includes the account name, bio, and statistics. The bio states: "This Twitter account is from IBM employees and experts providing the latest news and information regarding zVSE. Email: stev.glodowski@de.ibm.com Germany · ibm.com/zvse". The statistics show 518 tweets, 61 following, and 232 followers. There is a 'Follow' button. Below the header, there are three tweets. The first tweet is from IBMzVSE (@IBMzVSE) dated 4 Oct, mentioning a zVSE LVC event. The second tweet is also from IBMzVSE (@IBMzVSE) dated 1 Oct, mentioning a European GSE event. The third tweet is from IBM Redbooks (@IBMRedbooks) dated 20 Sep, mentioning new iOS7 and Enterprise features.



For more information, please see the z/VSE web site:
<http://www.ibm.com/zvse/>

Announcing the IBM zEnterprise BC12

The [IBM zEnterprise BC12 \(zBC12\)](#) offers twice the capacity at the entry level for the same low entry price as its predecessor, the z114. It also delivers significant improvements in availability, security, performance and total system scale to support clients' growth in both traditional and new workloads including consolidation, cloud, mobile and analytics. With the same zEnterprise innovations and capabilities as the zEC12, the zBC12 lets you scale to the right size without compromise..

For more information, please see the [announcement letter](#).

Contact IBM



- [✉ Email z/VSE](#)
- [➔ Find a Business Partner](#)
- [☎ Call IBM: 1-866-883-8901](#)
Priority code: 101AS13W

Browse z/VSE

- [➔ About z/VSE](#)
- [➔ How to buy](#)
- [➔ News & ...](#)
- [➔ Documentation](#)
- [➔ Service & support](#)
- [➔ Downloads](#)

[↑ Back to top](#)

Enterprise2013



Questions?



Wilhelm Mild
IBM IT Architect



IBM Deutschland Research
& Development GmbH
Schönaicher Strasse 220
71032 Böblingen, Germany

Office: +49 (0)7031-16-3796
mildw@de.ibm.com

