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z/VSE Application Development Modernization

Live Demo

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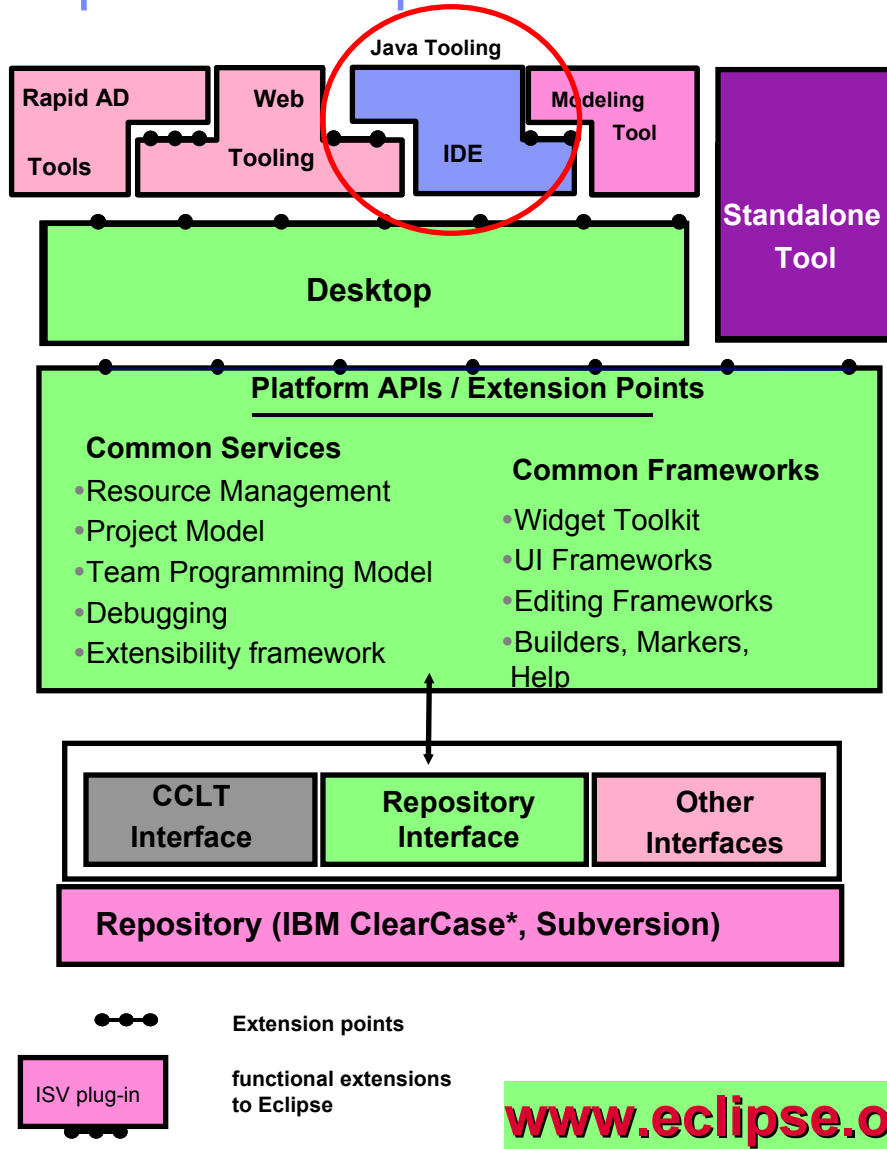
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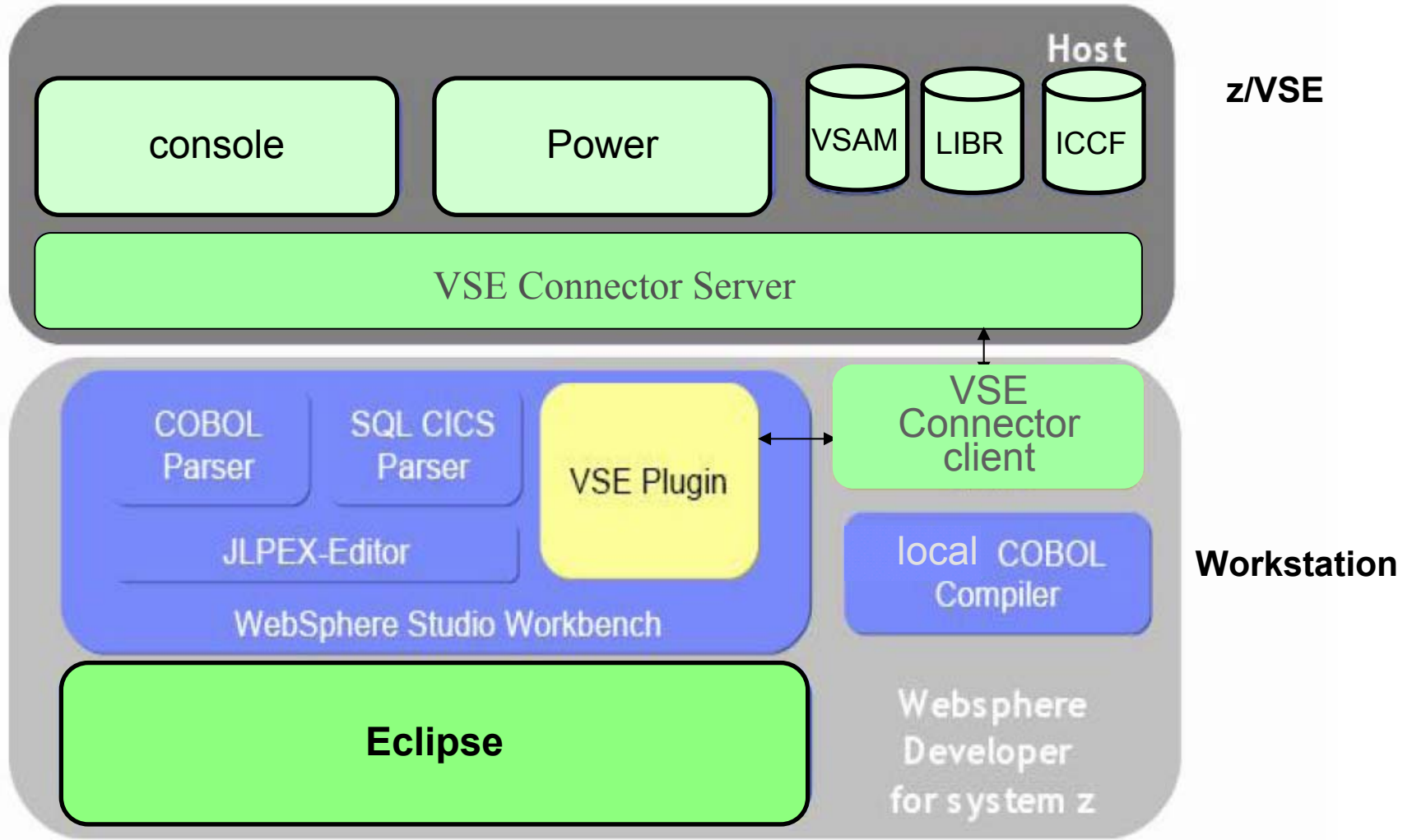
Eclipse – the open Standard for application development



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
 - i.e. development groups, system group
- **Open for ISVs development Plug-Ins**
 - **Integrated Development Environments (IDE)**
 - for System z (WDz, RDz)
 - for Java, COBOL, PL/I, ASM,C
 - **Application analysis and optimization**
 - Analyze the applications and workflows with graphical correlations
 - **IBM HATS Development Plug-In (LVC xxx)**
 - develop new front-ends to 3270 apps.
 - **IBM EGL development Plug-In for z/VSE**
 - follow-on to Visual Age Generator

IBM WebSphere Developer for System z (WDz) with z/VSE Development Plug-in



IBM WebSphere Developer (WDz) in z/VSE perspective

The screenshot shows the IBM Rational Software Development Platform (RSDP) interface for z/VSE. The main editor window displays COBOL code for a program named PRINTAPP. The code is structured into sections: Identification Division, Data Division (with Work-Parms and Recvd-Parms), Linkage Section, and Procedure Division. The Procedure Division contains logic for moving spaces to the Out-Name field and calculating the length of the string. The interface includes several panels: a Projects view on the left, an Outline View at the bottom left, a VSE System View on the right, and a VSE Console at the bottom right. The VSE Console displays a memory map (MAP) with columns for address, space, area, size, and various system parameters.

1.Perspective (Callout pointing to the top menu bar)

2.View (Callout pointing to the VSE System View panel)

3.Projects (Callout pointing to the z/OS Projects tree)

4.Editor (Callout pointing to the main code editor)

5.Outline View (Callout pointing to the Outline panel)

6.VSE Console (Callout pointing to the VSE Console window)

VSE Console Output:

AR	SPACE	AREA	V-SIZE	GETVIS	V-ADDR	UNUSED	NAME
AR 0015	S	SUP	716K		0		\$\$A\$SUPI
AR 0015	S	SVA-24	1888K	1748K	B3000	768K	
AR 0015	0	B5 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	
AR 0015	S	SVA-31	7588K	6748K	3700000		SECSERV

IBM WebSphere Developer (WDz) in z/VSE perspective

1.Perspective

The screenshot displays the IBM Rational Software Development Platform interface for z/VSE development. The main window shows a terminal session with the following text:

```

IEBADM001          VSE/ESA ONLINE
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          ++      VV      VV      88888      EEEEEEE
          ++      VV      VV      8888888      EEEEEEE
          ++      VV      VV      88      EE
zzzzzz      ++      VV      VV      888888      EEEEEEE
zzzzzz      ++      VV      VV      888888      EEEEEEE
zz          ++      VV      VV      888888      EEEEEEE
zzzzzz      ++      VVVV      888888      EEEEEEE
zzzzzzzz      ++      VV      88888      EEEEEEE

Your terminal is A002 and its name in the network is D3800001
Today is 11/09/2007 To sign on to DBDCCICS -- enter your:

USER-ID..... The name by which the system knows you.
PASSWORD..... Your personal access code.

PF1=HELP      2=TUTORIAL      3=TO VM      4=REMOTE APPLICATIONS
                10=NEW PASSWORD
    
```

Key components and views are highlighted with red boxes and labeled:

- 3.Projects:** A tree view on the left showing project files like .link, .project, .link_book, PRINTAPP.cbl, STARTAPP.cbl, TIMEZONE.cbl, and Timezone.
- 5.Outline View:** A view at the bottom left showing a hierarchical structure of the program, including Identification Division, Data Division, Working-Storage Section, and Linkage Section.
- 7.VSE Terminal:** The central terminal window displaying the VSE/ESA online session.
- 6.VSE Console:** A console window at the bottom showing a table of system resources.
- 2.View:** A tree view on the right showing the VSE System View, including VSE SYSTEM, VSE Lab, VSE Workshop, VSE Mainframe, Librarian, and various datasets like VSAM, ICDF, and VSAM.MASTER.CATALOG.

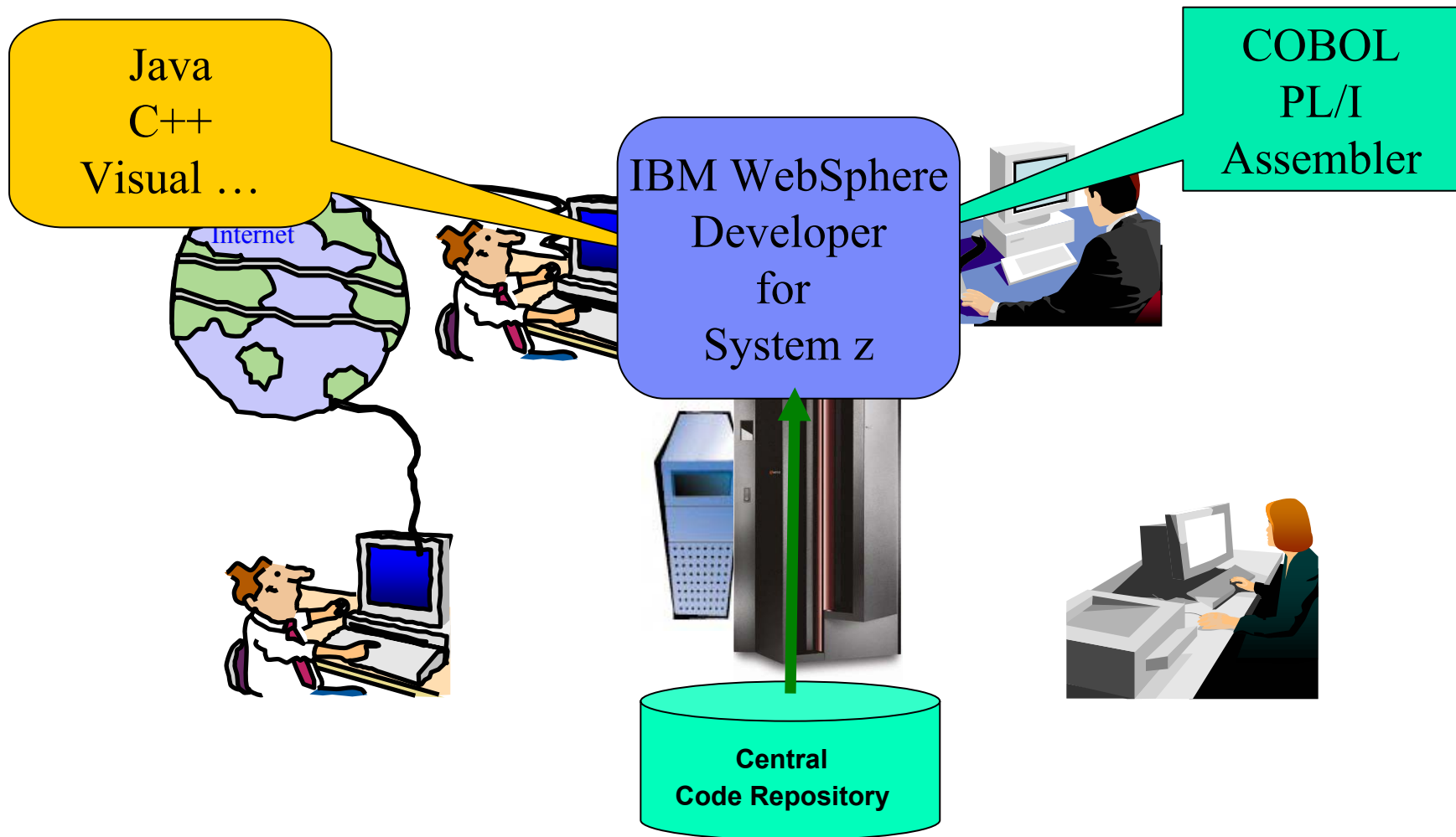
Conclusion: Development for all platforms with one tool set

- **A modern tool set to support z/VSE development and maintenance**
 - modern editor for enhanced productivity
 - tools to analyze and optimize existent applications and workflow

- **Common framework for enterprise development**
 - standard for all developers
 - example: z/VSE with COBOL, Linux on System z with Java
 - easy skill transfer

- **Open source framework**
 - commonly thought in schools and universities
 - smooth introduction of new developers to the mainframe

Eclipse – an open Integrated Development Environment for the enterprise



Questions ?

