



IBM System z – Live Virtual Class

# **z/VSE Application Development Modernization**

## **Live Demo of IBM WebSphere Developer for System z (WDz)**

Ingo Franzki  
Wilhelm Mild  
[zvse@de.ibm.com](mailto:zvse@de.ibm.com)



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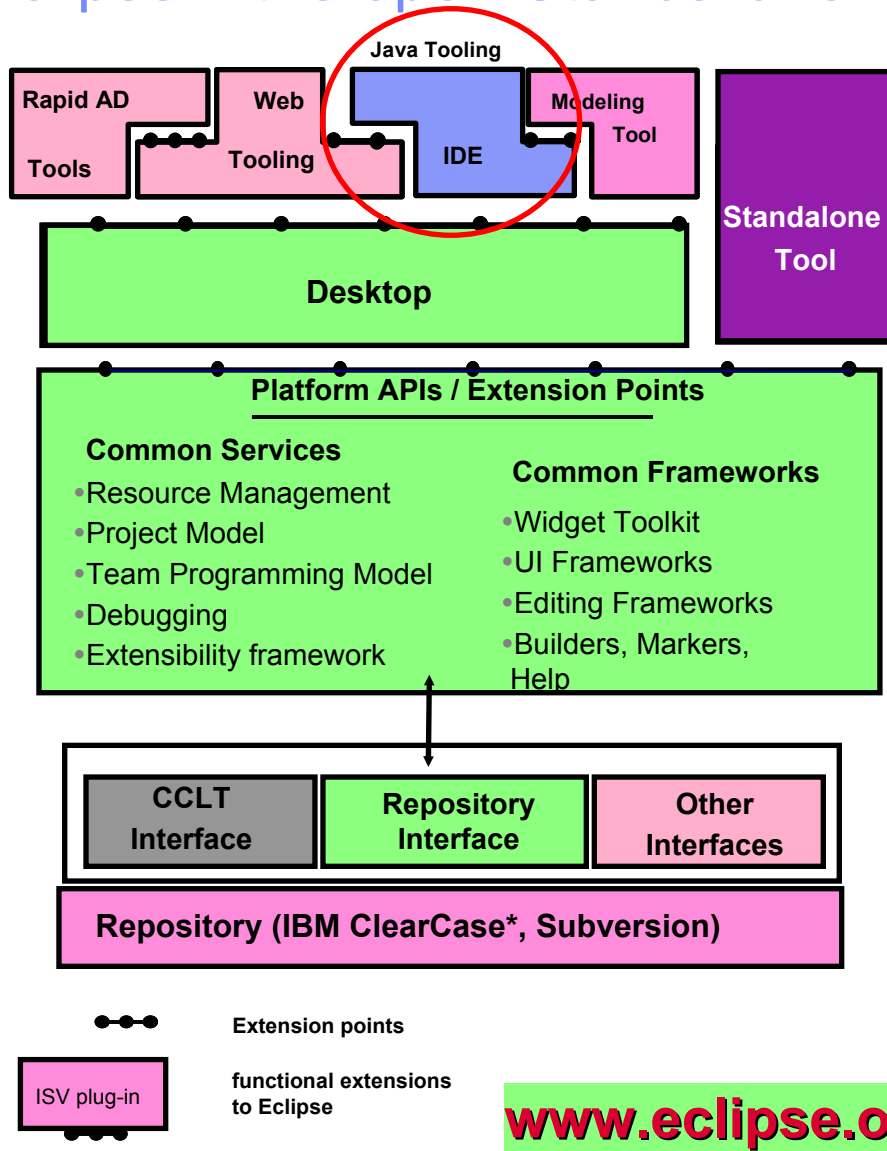
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# Eclipse – the open Standard for application development

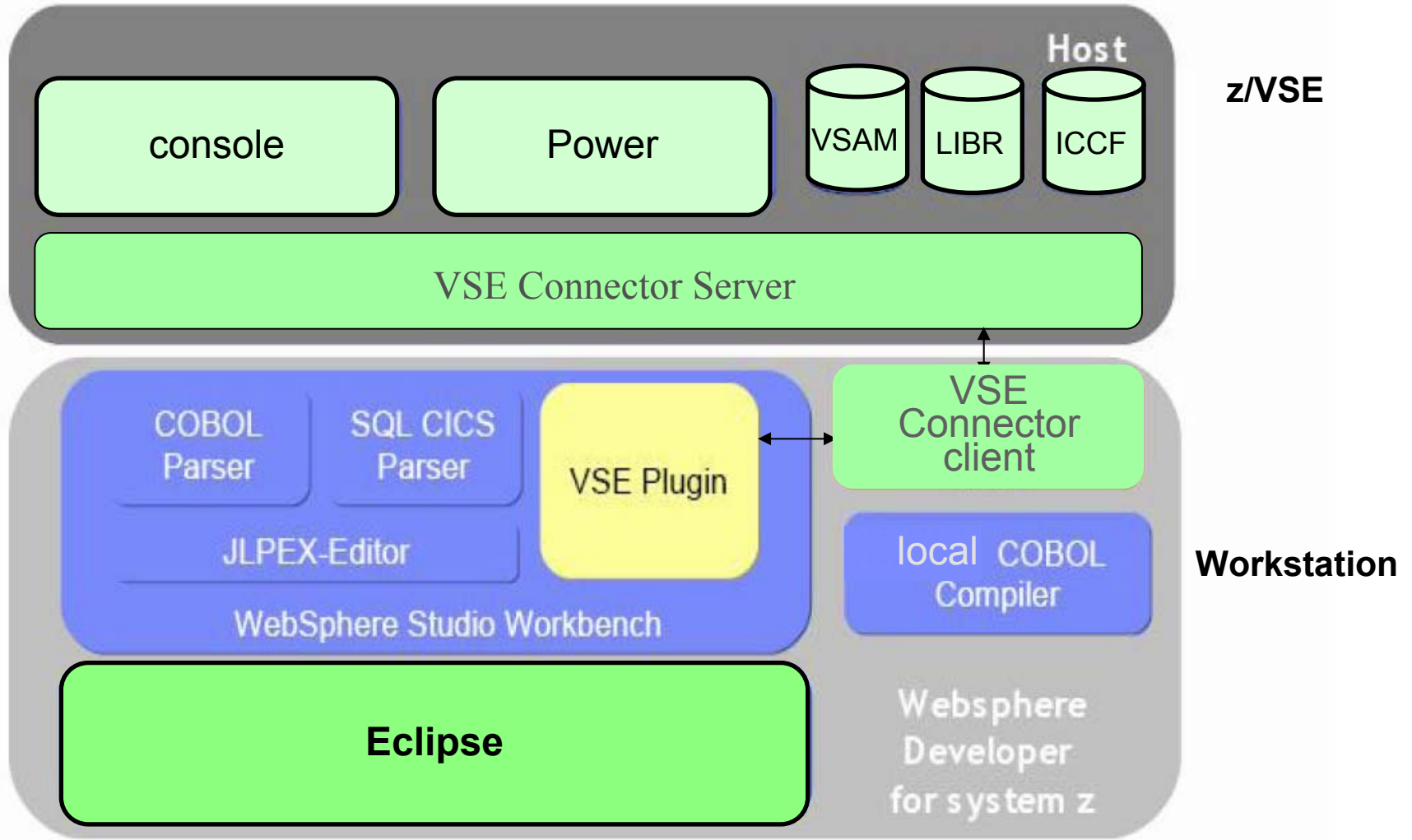


[www.eclipse.org](http://www.eclipse.org)

## 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 (RSRP) interface for z/VSE. The main editor window displays COBOL code for a program named PRINTAPP. The code includes sections for Identification, Data, Working-Storage, Linkage, and Procedure Division. Annotations 1 through 6 highlight specific features: 1. Perspective (top menu bar), 2. View (VSE System View tree), 3. Projects (z/OS Projects tree), 4. Editor (main code editor), 5. Outline View (left sidebar), and 6. VSE Console (bottom console window showing a MAP table).

**1. Perspective**

**2. View**

**3. Projects**

**4. Editor**

**5. Outline View**

**6. VSE Console**

MAP	AR	0015	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	SECSERV
	AR	0015	S	SVA-31	7588K	6748K	3700000		

# IBM WebSphere Developer (WDz) in z/VSE perspective

## 1.Perspective

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

```

IEBADM001          VSE/ESA ONLINE
5609-zv4 and Other Materials (C) Copyright IBM Corp. 2005 and other dates

          ++      VV  VV  88888  EEEEEEE
          ++      VV  VV  888888  EEEEEEE
          ++      VV  VV  88      EE
zzzzzz  ++      VV  VV  888888  EEEEEEE
zz      ++      VV  VV  888888  EEEEEEE
zz      ++      VV  VV  88      EE
zzzzzz  ++      VVVV  888888  EEEEEEE
zzzzzzz ++      VV          88888
          ++

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 with callouts:

- 2.View:** VSE System View tree on the right side.
- 3.Projects:** z/OS Projects tree on the left side.
- 5.Outline View:** Outline view at the bottom left showing program structure.
- 6.VSE Console:** VSE Console window at the bottom showing a MAP table.
- 7.VSE Terminal:** The central terminal window showing the VSE login screen.

The VSE Console window displays the following MAP table:

AR	SPACE	AREA	V-SIZE	GETVIS	V-ADDR	UNUSED	NAME
AR 0015	S	SUP	716K	1748K	B3000	768K	\$\$A\$SUPI
AR 0015	S	SVA-24	1888K	4864K	500000	45056K	
AR 0015	0	F1 V	1280K	4096K	500000	OK	POWSTART
AR 0015	1	F2 V	1024K	4912K	500000	OK	CICSICCF
AR 0015	2	F3 V	2048K	4912K	500000	OK	VTAMSTRT
AR 0015	3	F4 V	600K	14760K	500000	OK	VTAMSTRT
AR 0015	4	F5 V	2048K	18432K	500000	OK	
AR 0015	5	F6 V	768K	256K	500000	OK	
AR 0015	6	F7 V	256K	256K	500000	OK	
AR 0015	7	F8 V	1024K	19456K	500000	OK	TCPIP00
AR 0015	8	F9 V	2048K	4912K	500000	OK	
AR 0015	9	FA V	256K	256K	500000	OK	
AR 0015	A	FB V	256K	256K	500000	OK	
AR 0015	B	FC V	256K	256K	500000	OK	SECSERV
AR 0015	S	SVA-31	7588K	6748K	3700000		

## 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

