



E17 - Part II

User Experiences with VSE Connectors

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zSeries® EXPO
FEATURING Z/OS, Z/VM, Z/VSE
AND LINUX ON ZSERIES

September 19 - 23, 2005

San Francisco, CA





This presentation is based on the true story



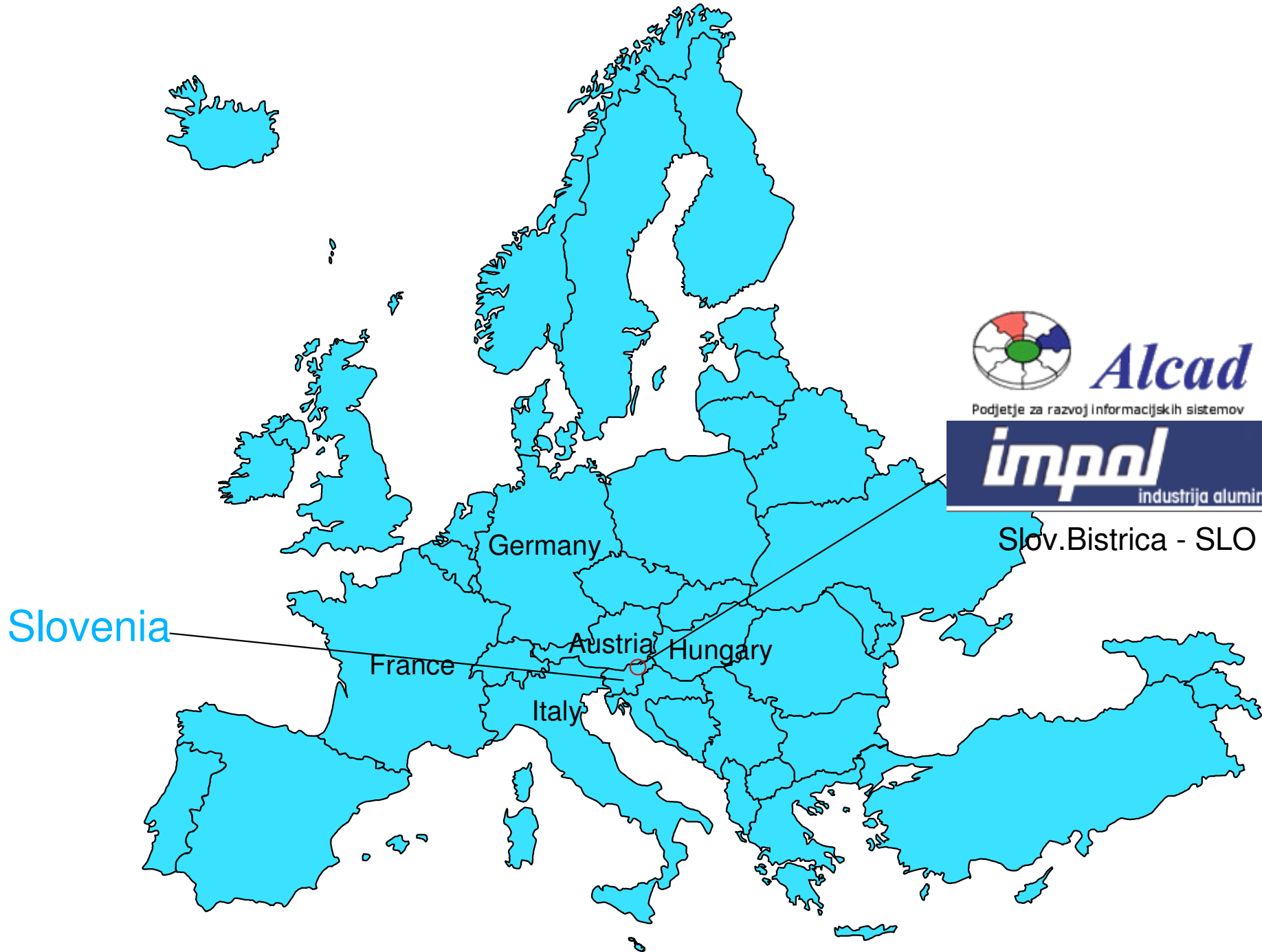
Agenda

- Who are we?
- Environment in Alcad
- Database environment
- Application Development environment

Agenda

- **Who are we?**
- Environment in Alcad
- Database environment
- Application Development environment

Who are we?



Alcad

Podjetje za razvoj informacijskih sistemov



Slov.Bistrica - SLO

About Alcad ...

- IS engineering & data processing company
- Outsourced IT service provider for Impol
- IBM Business Partner
 - ▶ S/390 or zSeries (z/VSE, Linux on zSeries and z/VM)
 - ▶ Development tools (WebSphere, VisualAge, Rational)
 - ▶ Information Management Software (DB2, OLAP, Warehouse)
- Project oriented team
- Reference customer for IBM (Linux on zSeries)
- 19 highly skilled employees
- Using only IBM software and hardware

About Impol ...



- One of Europe's leading aluminium manufacturers
- Producing a wide variety of specialized alloys, which are in turn used by manufacturers in the auto, aerospace and industrial sectors
- Producing more than 80,000 tons of rods, bars, tubes, foils and ingots
- Have more than 400 customers in 25 countries around the World
- 900 + 900 employees



Agenda

- Who are we?
- **Environment in Alcad**
- Database environment
- Application Development environment

	1995
Employee	10
S/390	4381 - R14
Operating System	VSE/SP, VM/SP, OS/2
Application Server	CICS/VSE
Database	SQL/DS, VSAM,DL/1, DB2/2
Application Development Tools	CSP, PL/1 VisualAge SmallTalk

	1995	2005
Employee	10	19
S/390	4381 - R14	Multiprise 3000-H30, Multiprise 3000-H55
Operating System	VSE/SP, VM/SP, OS/2	VSE/ESA V2.7, z/VM V4.2, SuSE SLES V8, Windows
Application Server	CICS/VSE	CICS/TS V1.1, WebSphere Application Server (WAS) V6 WebSphere Portal Server V5
Database	SQL/DS, VSAM,DL/1, DB2/2	DB2 Server for VSE V7.4, DB2 UDB ESE V8.2, Rational Rose XDE Developer Plus, DB2 OLAP Server V8.2, DB2 OLAP Server Analyzer V8.1
Application Development Tools	CSP, PL/1 VisualAge SmallTalk	VisualAge Generator V4.5, Rational Application Developer for WebSphere Software (RAD) V6 Beta team for EGL on VSE

VisualAge Generator
EGL
Cobol

IBM **@server zSeries** software

Surround products

WebSphere. software



WAS
WSAD (RAD)
WS Portal

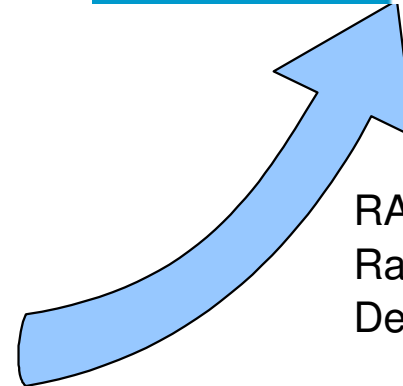
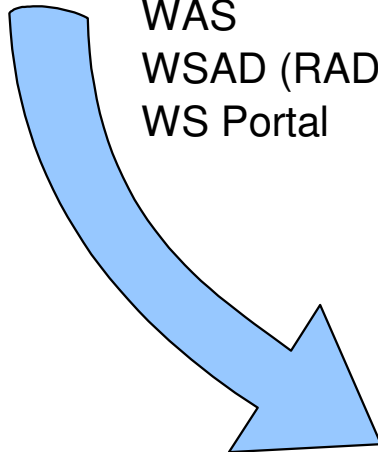
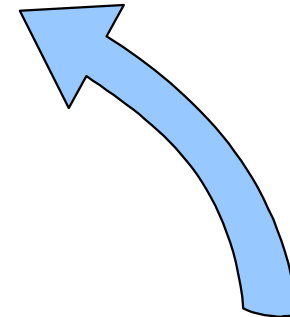
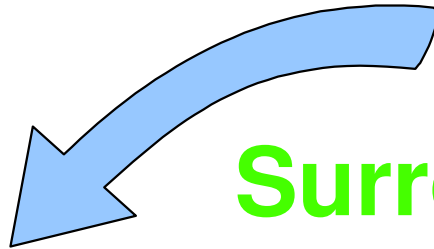
VSE/ESA V2.7
SuSE SLES V8

Rational. software

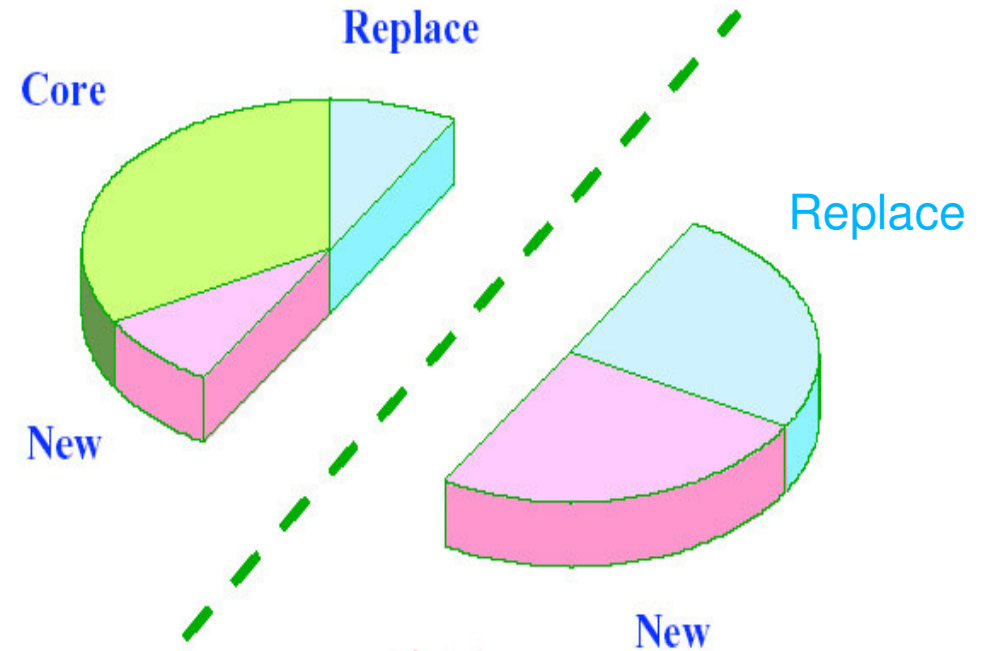
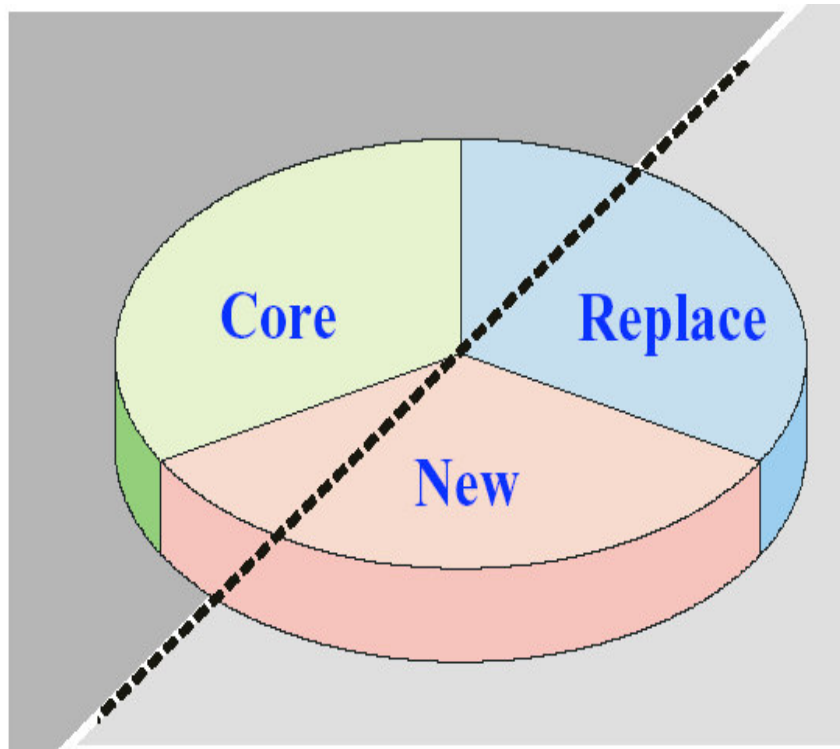
RAD + EGL
Rational Rose XDE
Developer plus

DB2 UDB
DB2 VSE
DB2 OLAP

DB2. Information Management Software



Applications and Solutions

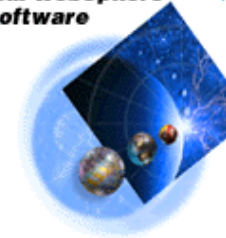


Applications and Solutions

Application Development Environment
Session E17

WebSphere software

IBM WebSphere Software



Rational software



VisualAge Generator
V4.5

Core

Replace

Connectors

Replace

New

New

DB2 Information Management Software

DB2 Server for VSE

DB2 Information Management Software



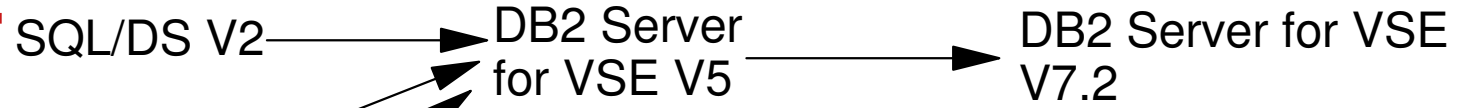
Database Environment
Session E15

Agenda

- Who are we?
- Environment in Alcad
- **Database environment**
- Application Development environment

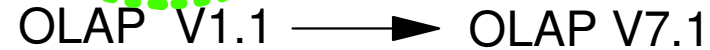
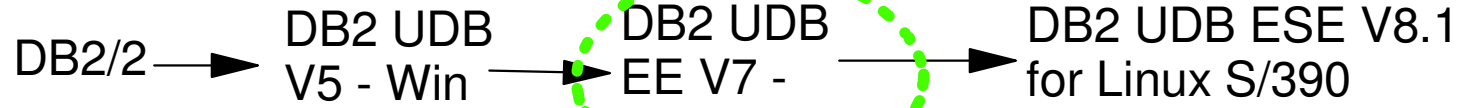
DB2 History in Alcad

Database:

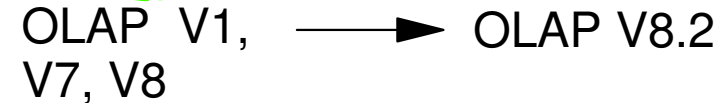
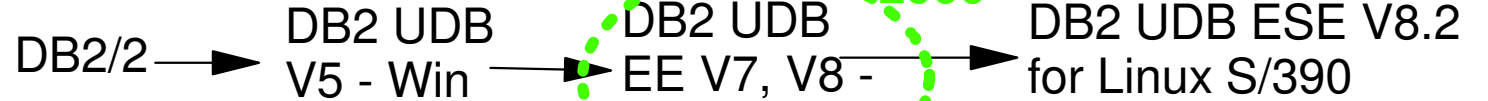
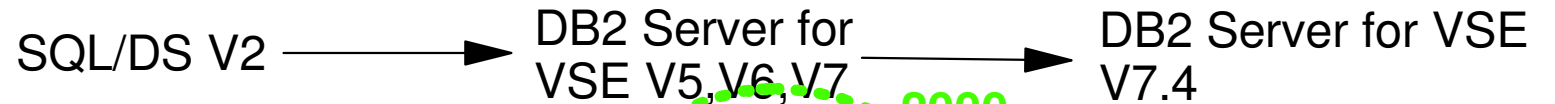


VSAM → DB2 Server for VSE V5

DL/1 → DB2 Server for VSE V5



2001



2000



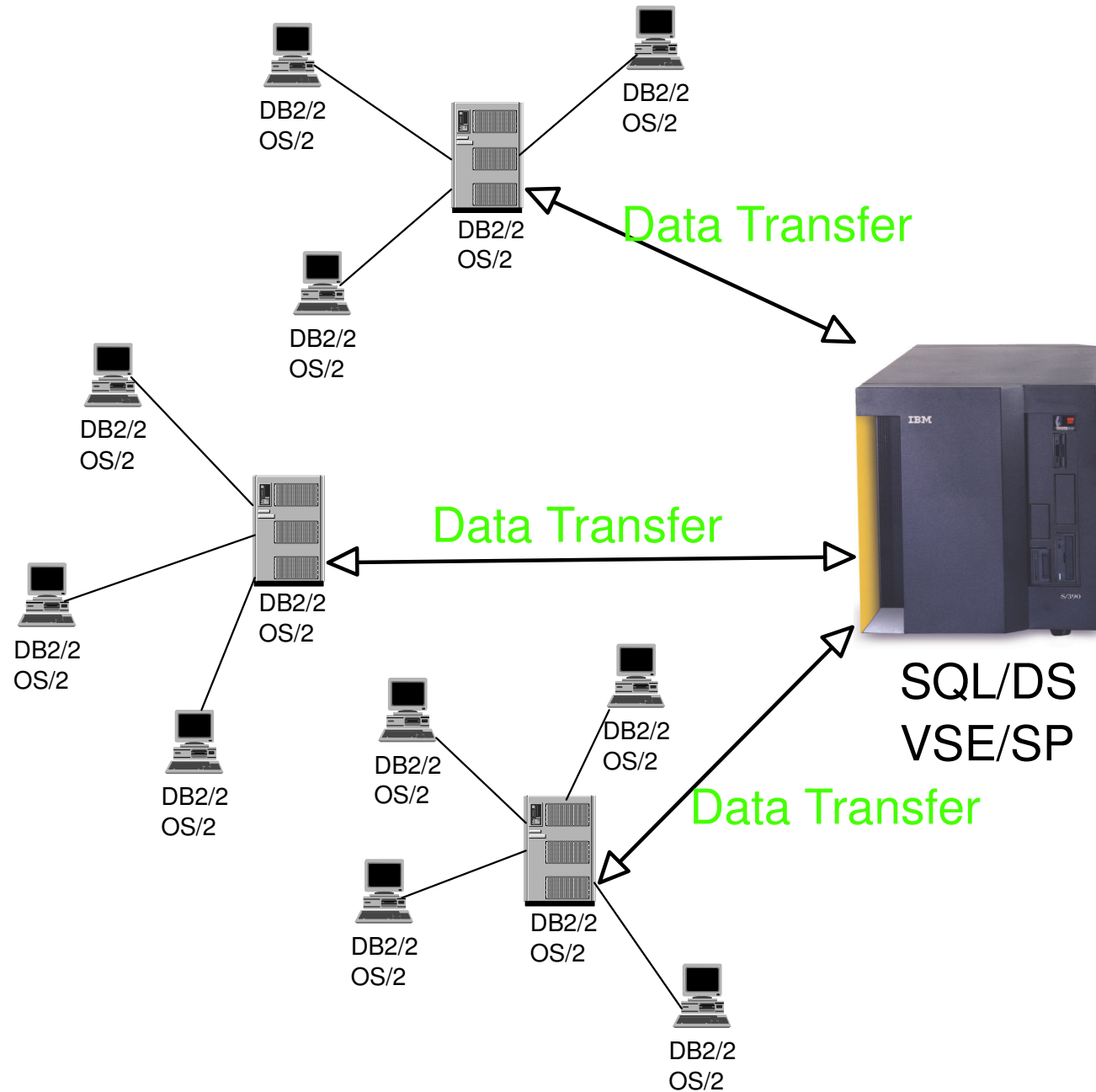
IBM Rational Rose XDE Developer plus V2003

1995



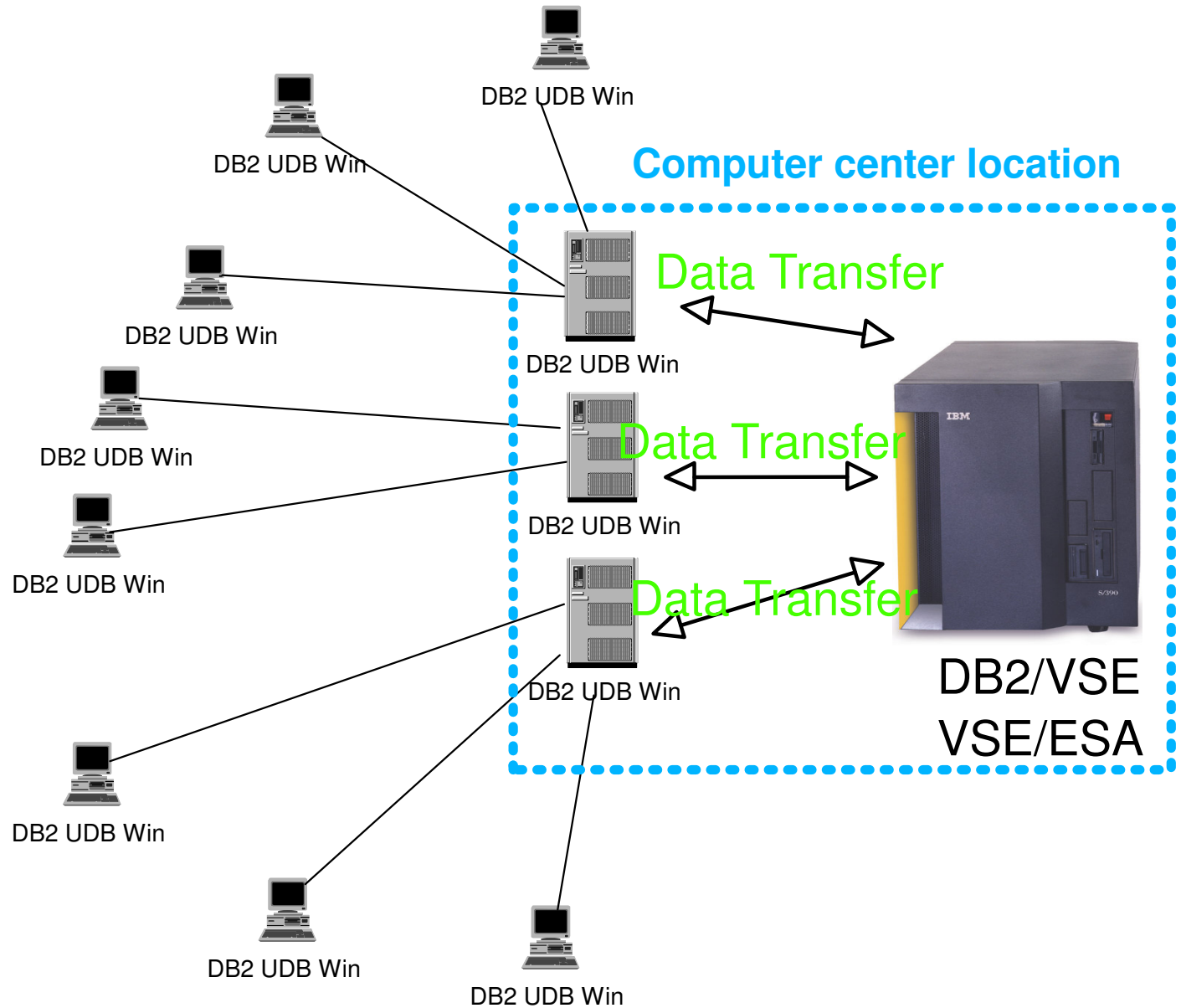
2005

Database design - Client Server option



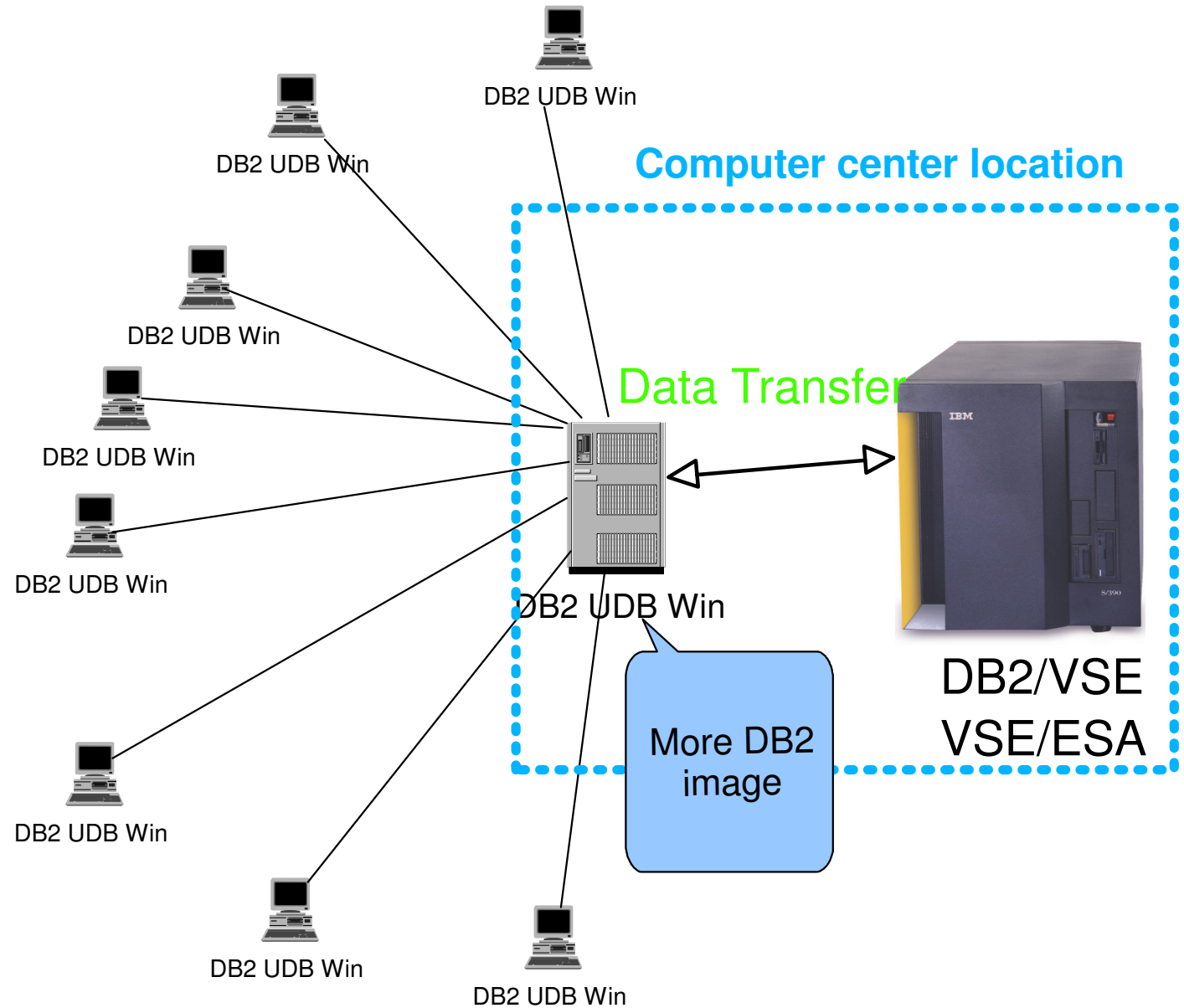
1995

Database design - Client Server option



1998

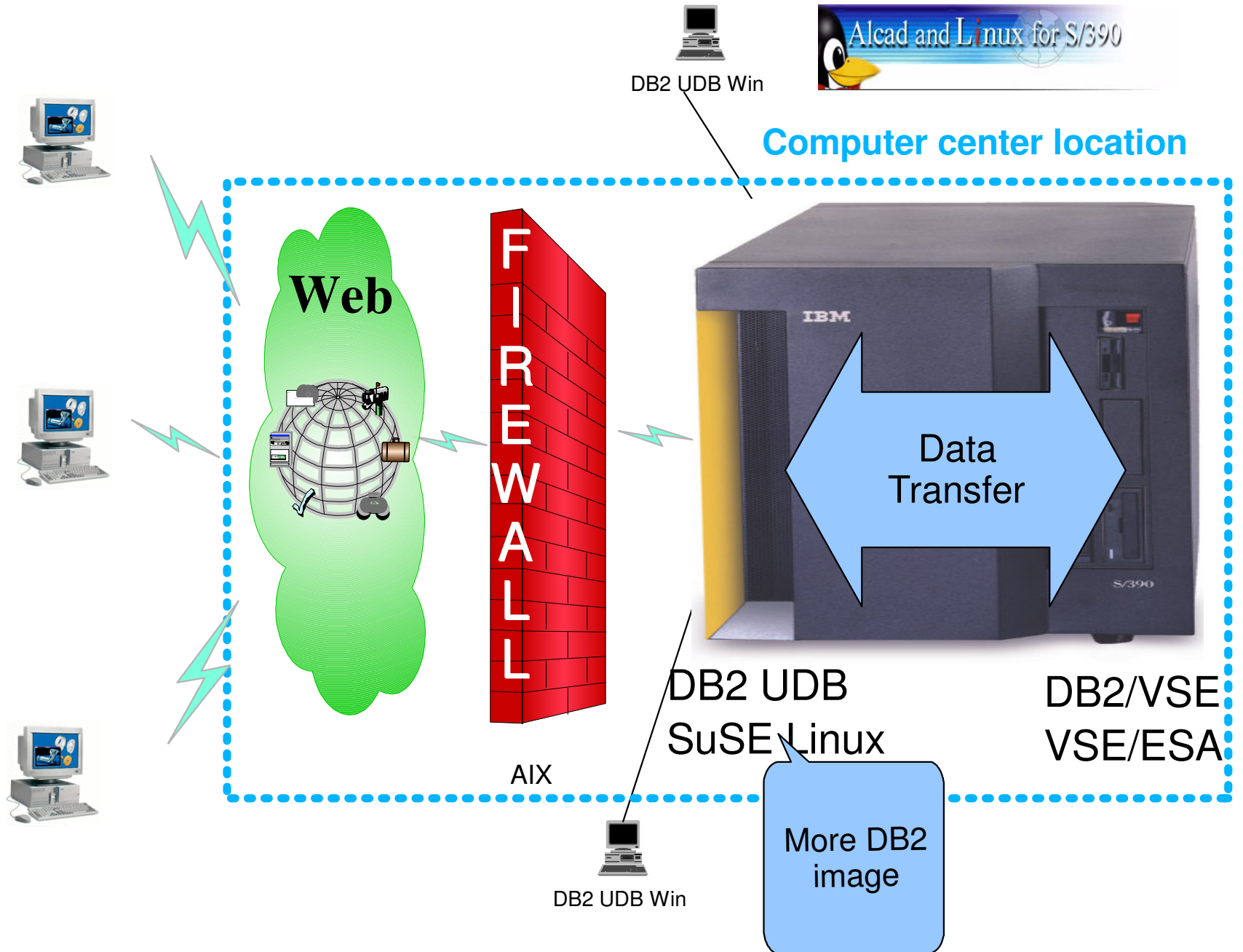
Database design - Client Server option



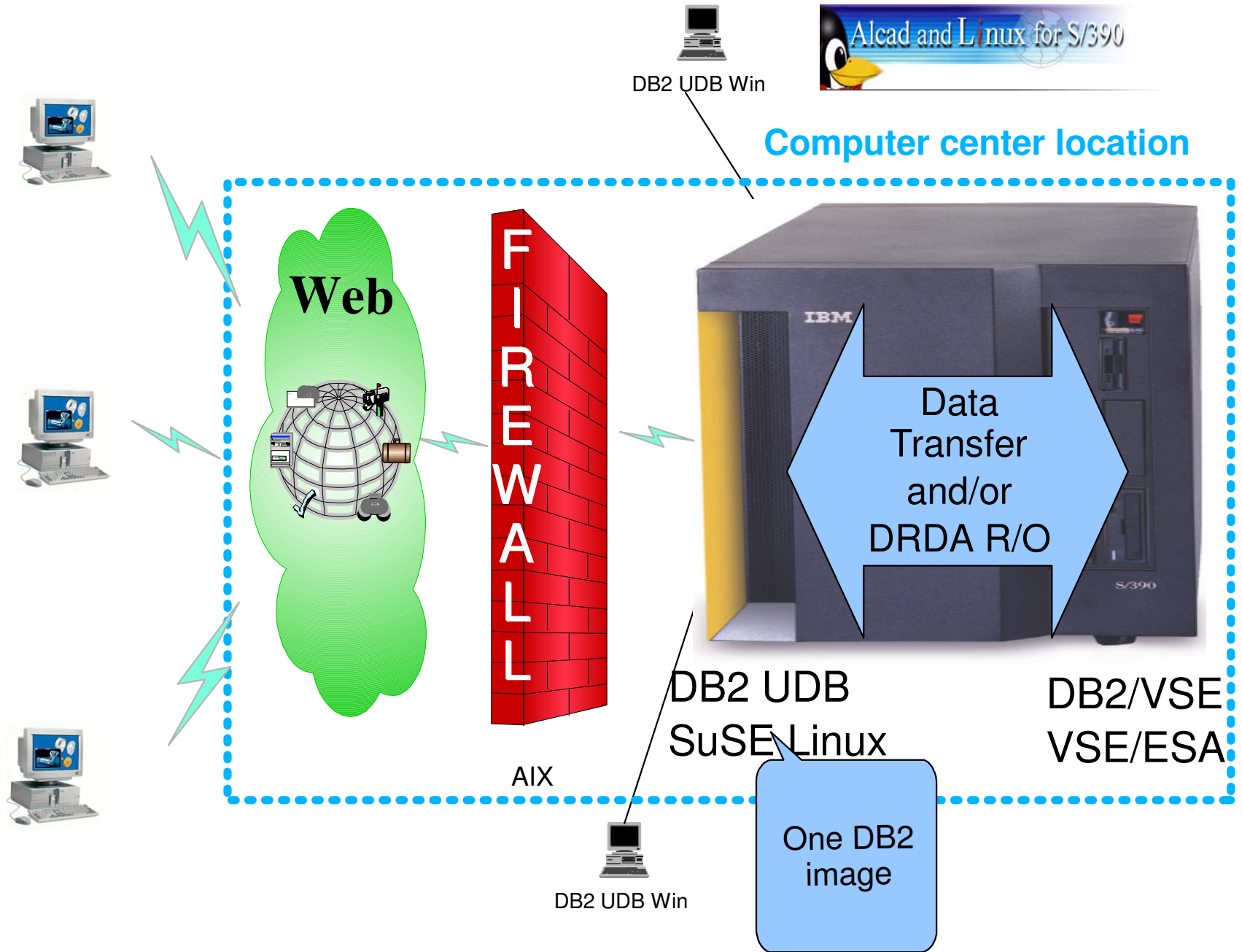
1999

Database design

2001



Database design



2003



DB2 UDB Win

Computer center location

FIREWALL

Web

Data Transfer and/or DRDA R/O

DB2 UDB

DB2/VSE

SuSE Linux

VSE/ESA

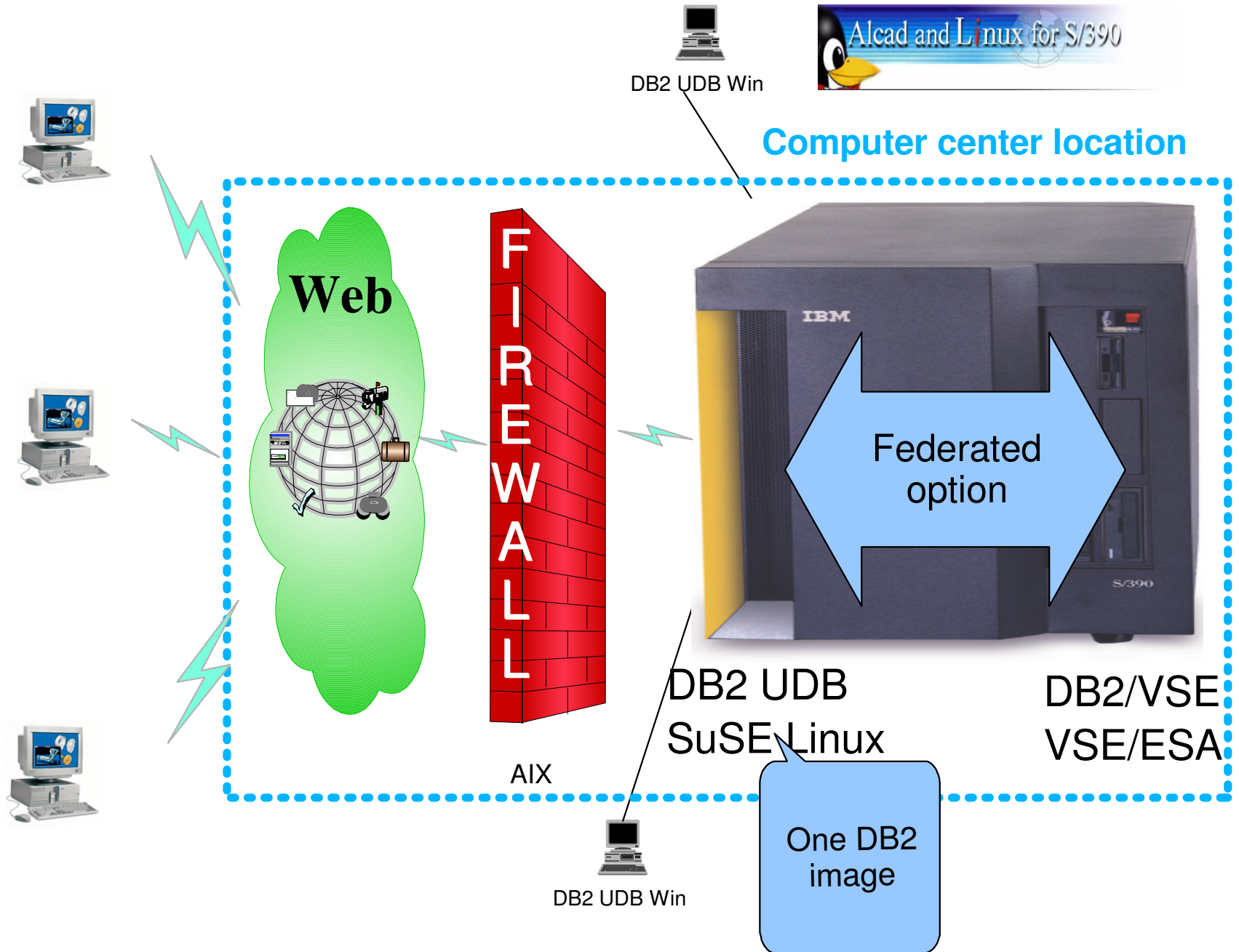
AIX

One DB2 image

DB2 UDB Win

Database design

2004



DB2 UDB Win

Computer center location

Web

FIREWALL

Federated option

DB2 UDB
SuSE Linux

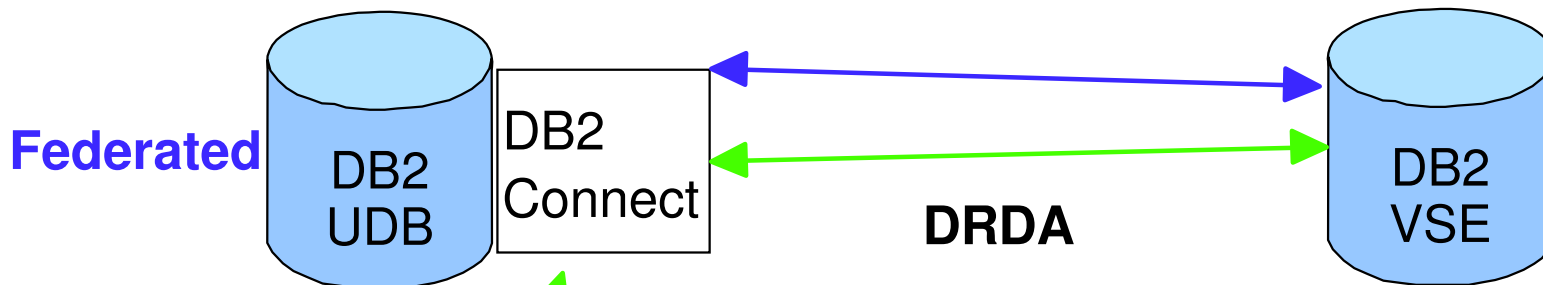
DB2/VSE
VSE/ESA

AIX

DB2 UDB Win

One DB2 image

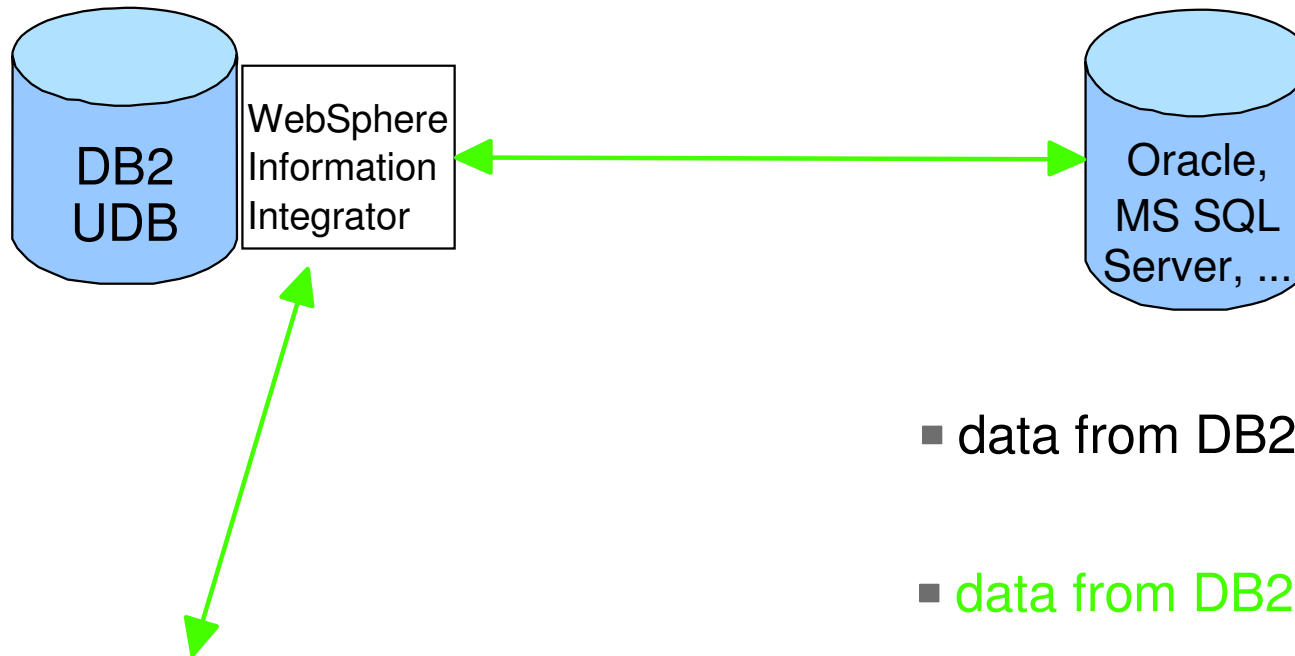
What is Federated option?



- data from DB2 UDB
- data from DB2 VSE
- data from DB2 UDB and DB2 VSE and high SQL functionality

**Application
(not on VSE)**

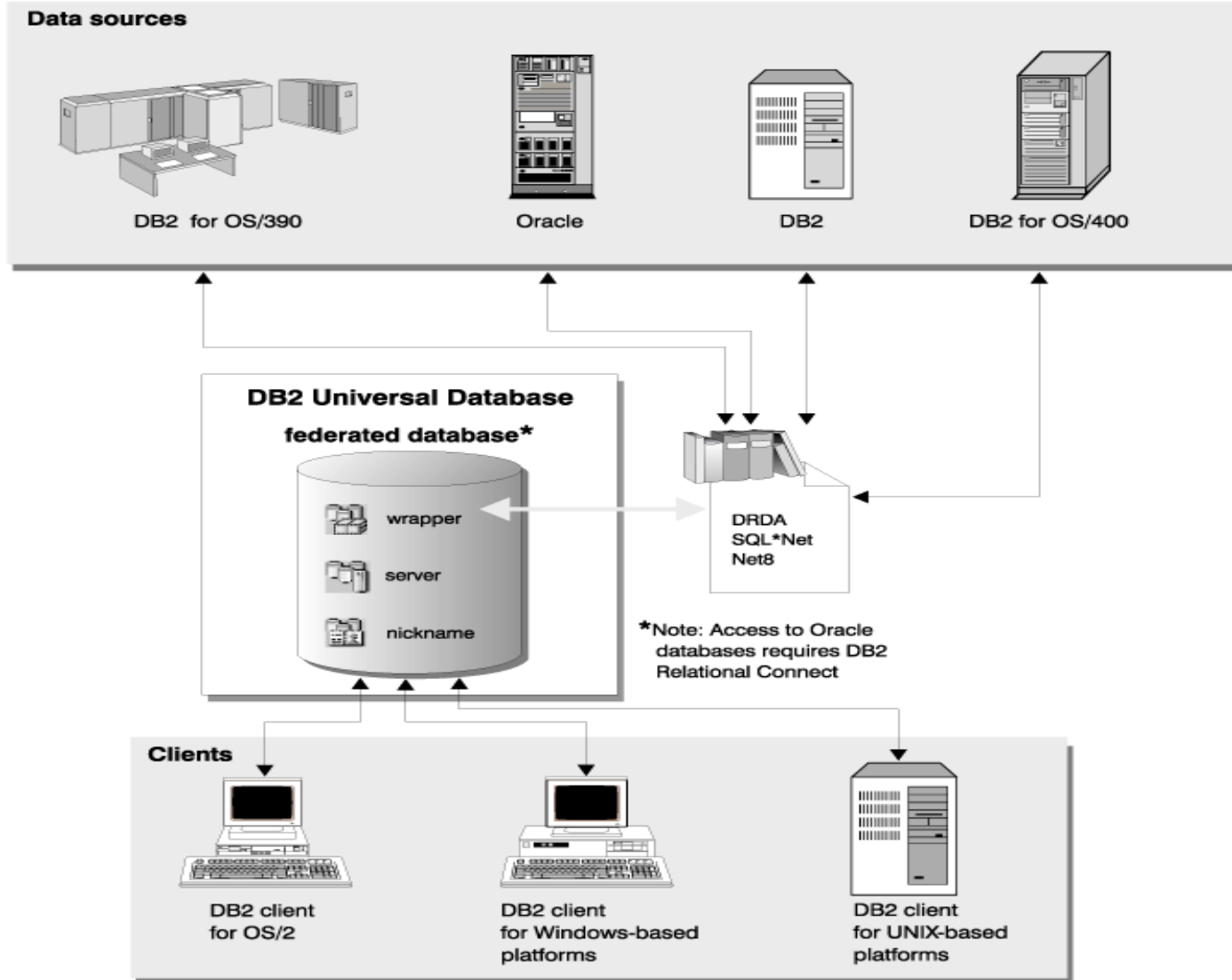
What is Federated option?



**Application
(not on VSE)**

- data from DB2 UDB
- data from DB2 VSE
- data from DB2 UDB and DB2 VSE and high SQL functionality
- data from Oracle, MS SQL Server,

Federated option



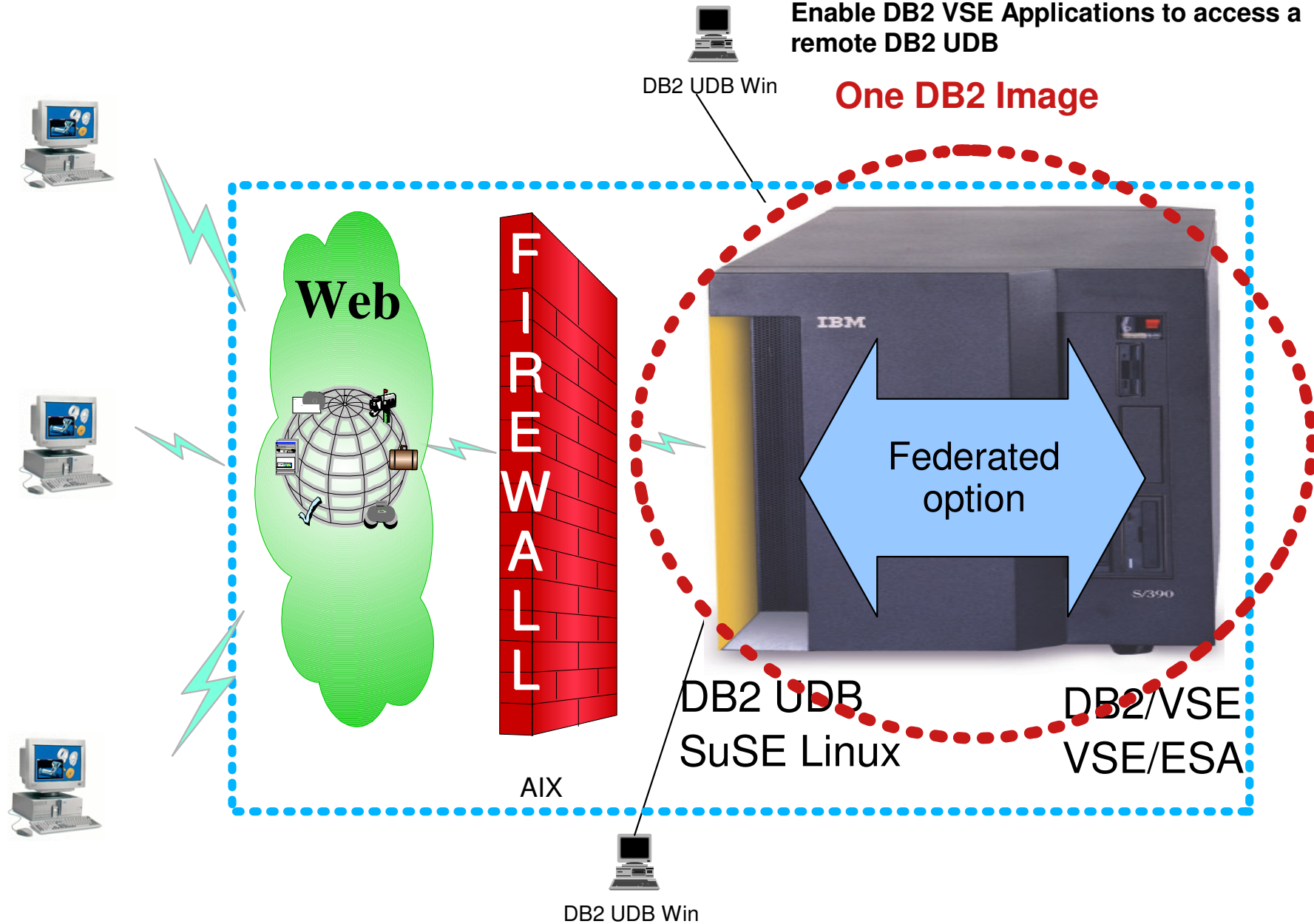
Federated configuration:

- **change DBM configuration parameter**
 - ▶ DB2 update DBM CFG using FEDERATED=YES
- **node definition**
 - ▶ DB2 catalog TCPIP node TEST remote 111.222.333.444 server 5000
- **WRAPPER definition**
 - ▶ DB2 create WRAPPER "DRDA"
- **SERVER definition**
 - ▶ DB2 create server "VSE390" type DB2/VSE version 8.2.0 wrapper "DRDA" authid ALCAD password YYYY options (node 'TEST',dbname 'SQLDS')
- **USER MAPPING definition**
 - ▶ DB2 create user mapping for ALCAD server VSE390 options (remote_authid 'ALCAD',remote_password 'YYYY')
- **NICNAME definition**
 - ▶ DB2 create nickname "ALCAD"."TEST" for "VSE390"."ALCAD"."TEST"
- **FEDERATED VIEW definition**
 - ▶ DB2 create federated view ALCAD.T1 as select * from ALCAD.TEST
 - ▶ DB2 create federated view ALCAD.Tx1 as select a.c1,a.c2,a.c3 from T1 a left outer join T2 b on (a.c2=b.c2)
 - ▶ DB2 create federated view ALCAD.TEST1 as select a.c1,a.c2,a.c3 from TEST a left outer join TESTB b on (a.c2=b.c2)

Future

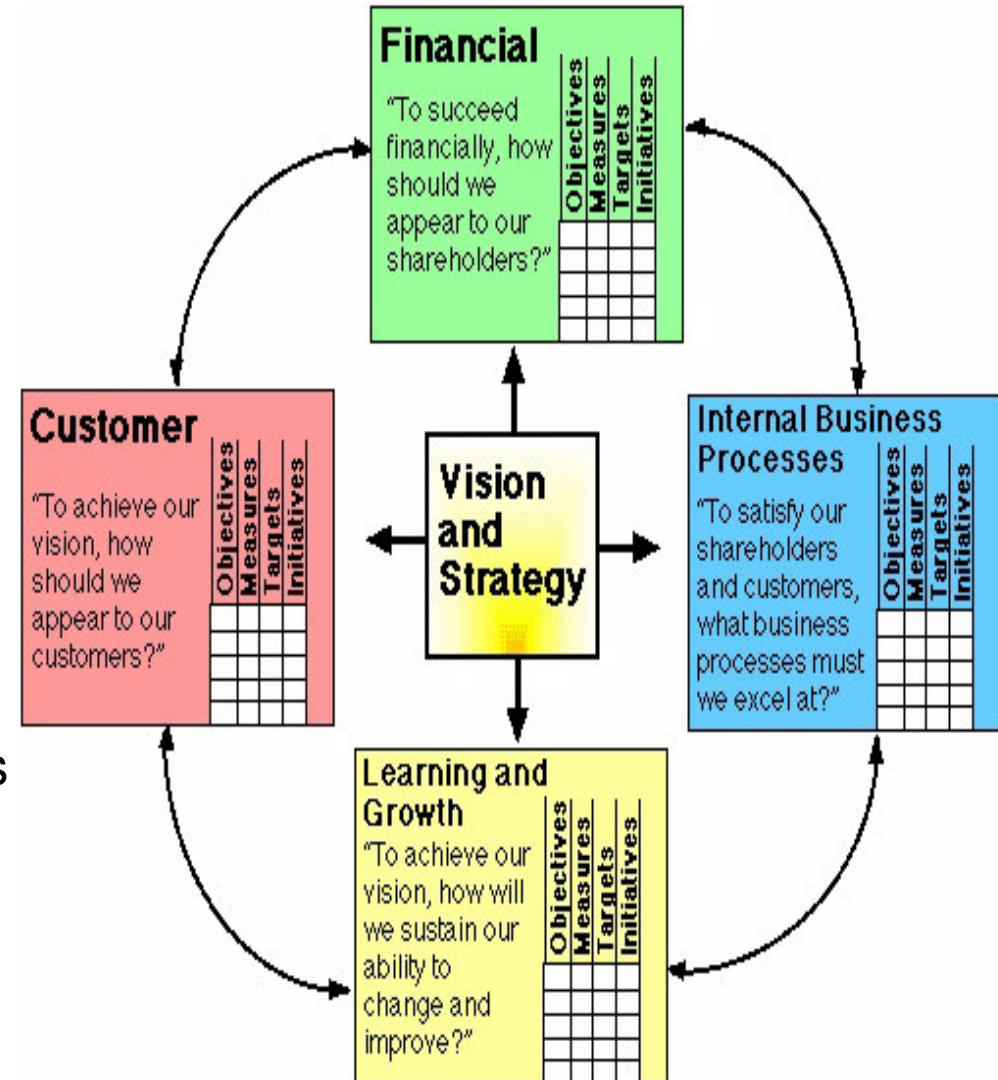
Session E15:

Enable DB2 VSE Applications to access a remote DB2 UDB



Applications and Solutions - BSC and OLAP

- BSC developed in Alcad
- new approach to strategic management to control Critical Success Factors
- view the organization from four perspectives
- Integrated with OLAP Analyzer
- Online Analytical Processing (OLAP) provides time series and trend analysis views - detailed information



Agenda

- Who are we?
- Environment in Alcad
- Database environment
- **Application Development environment**

Application Development Tools:



CSP

PL/1

Object Oriented
1995

VisualAge
SmallTalk
V1,V2

VisualAge
Generator
V2,V3,V4

VisualAge Generator
V4.5

1998

VisualAge
for Java

WSAD
V4, V5

RAD V6

RAD V6 +
EGL Plug-in

Beta Team

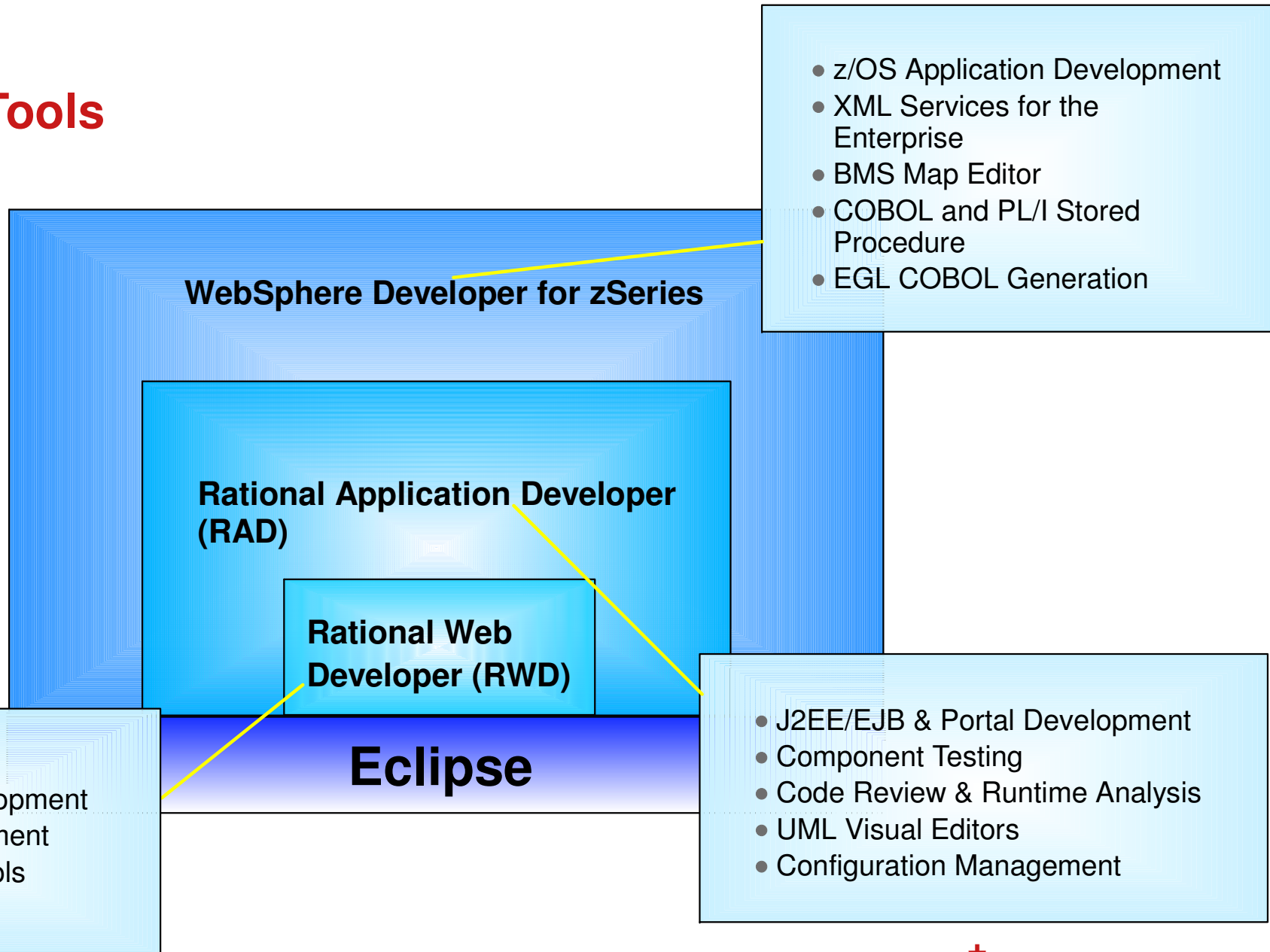
WebSphere
Studio

1995

2005



Developer Tools



+

**VisualAge Generator EGL Plug-in
for VSE V1.0**

Requirements (RAD + EGL Plug-in):

Workstation:

- Windows (2000, XP, 2003)
- RAD or RWD V6.0.0.1 with iFix003
- VisualAge Generator EGL Plug-in for EGL V1.0

VSE:

- VSE, TCP/IP for VSE, CICS, COBOL compiler, LE
- VisualAge Generator Server for VSE (5648-B02) V1.2 with the fix for APAR PQ99618

VSE Limitations:

- EGL functions (vs. EGL for z/OS)
 - ▶ Library parts and functions
 - ▶ Enhanced date and time functionality (VisualAge Generator date and time functions such as EZEDTE and EZETME are still supported.)
 - ▶ strLib.formatNumber system function
- VAG functions (vs. VisualAge Generator)
 - ▶ Web transactions
 - ▶ DL/I support

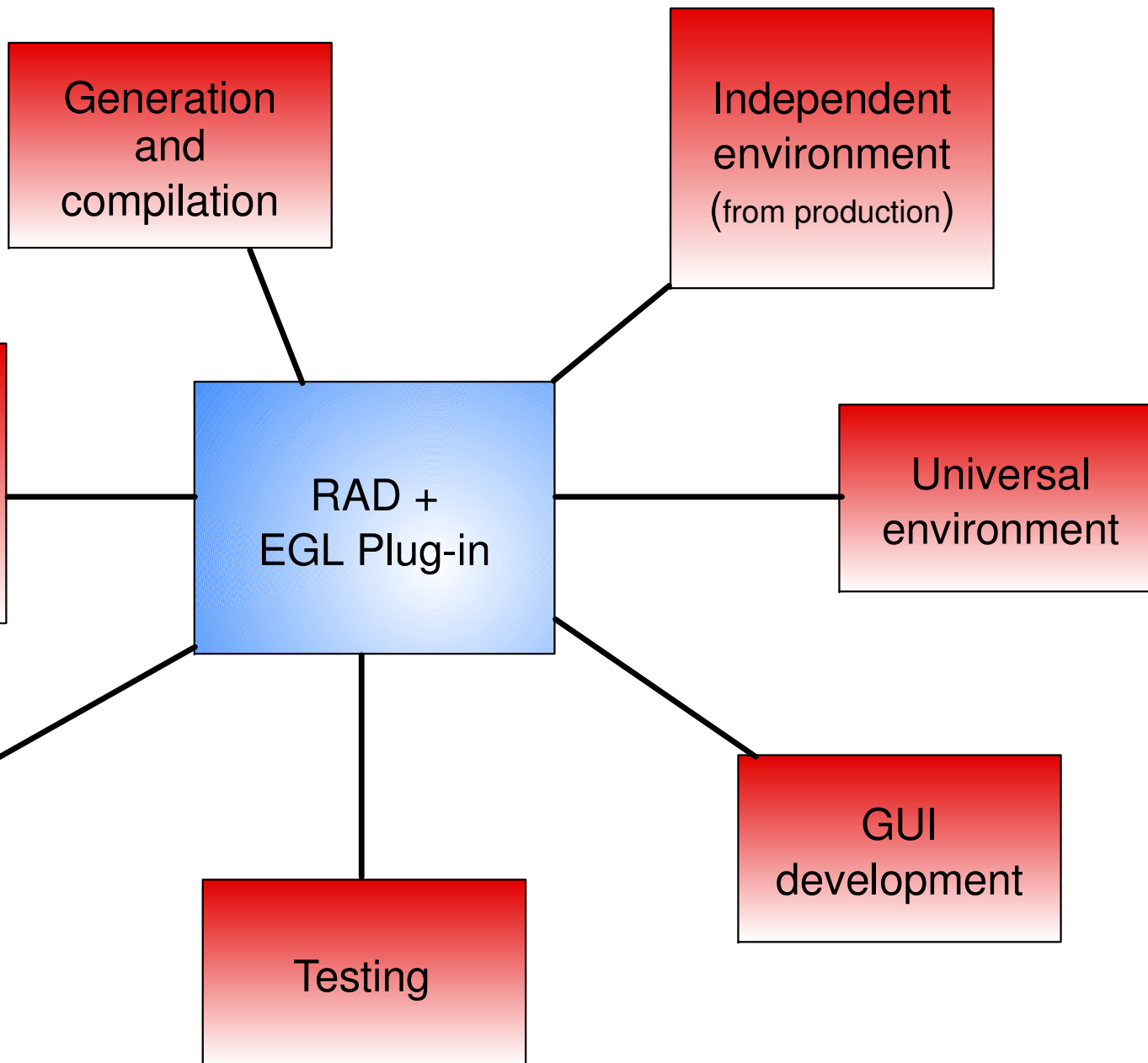


More information:
Announcement Letter: ZP05-0285

About EGL:

- EGL (Enterprise Generation Language)
- one of Perspective from RAD (other Java, J2EE, ...)
- one development environment for Company
- based on Eclipse
- Continued process from previous IBM AD products (CSP, VAG)
- migration option from VAG V4.5 (with ESF - External Source Format)

About EGL:



Run-time options
(AIX, HPUX, iSeries, Linux, Solaris, USS, VSE, Win)

Generation and compilation

Independent environment (from production)

Universal environment

GUI development

Testing

Java or COBOL Environment

About EGL:

Project objects

EGL language

Project Explorer



The screenshot displays the IBM Rational Software Development Platform interface. On the left, the Project Explorer shows a tree view of EGL projects, including TEST1, P206, and TZTEST. The main editor window shows the source code for PR40A.egl, which includes SQL queries and function definitions. At the bottom, the Outline view lists variables like STEVPOG1, POSZAH2, STNAROC2, POSZAH1, STNAROC1, and DA10CL19. The Properties view shows details for the selected object, such as derived, editable, last modified, and linked status.

Outline

Property

Applications and Solutions - Analysis certificate

Analysis certificate

- intranet application
- every Impol's product must have Analysis certificate
- Analysis certificate contains information about chemical composition and mechanical results of every package, depends on Packing list

Applications and Solutions - e-Business

e-Business - Today

- every customer has unique userid and password and can change it
- customer can see only their own stock
- customer can build their stock lists
- all users of e-Business are able to Inquire and Order products from Impol stock
- result of confirmed order is a contract, which can be confirmed or canceled by customer
- customer can print PDF documents (Packing list, Analysis certificate)

e-Business - in progress

- security, LDAP and certificate
- all users of e-Business will be able to Inquire and Order products from all items
- customer will be able to print PDF documents (Invoice)

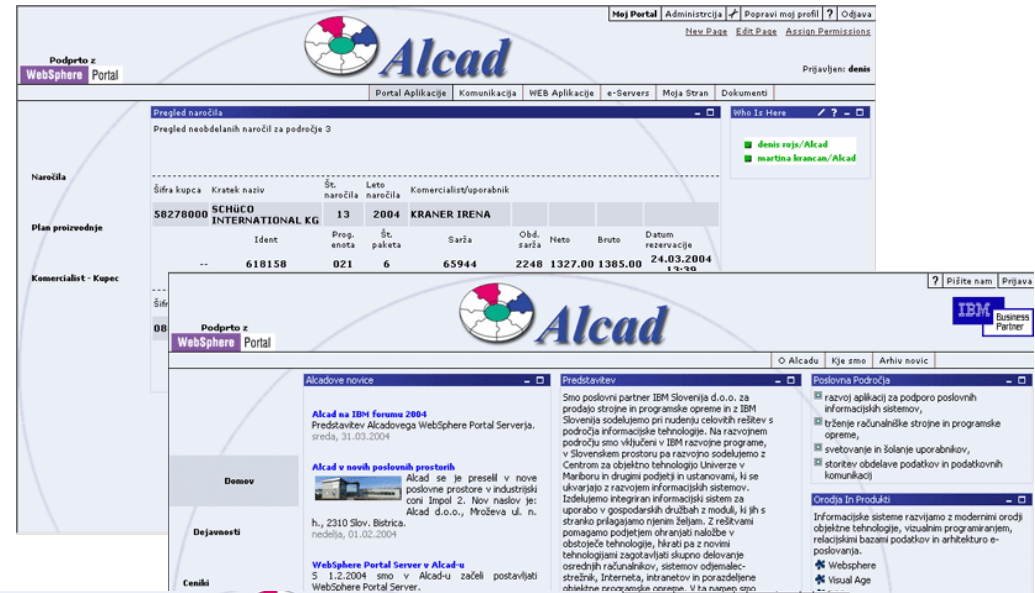
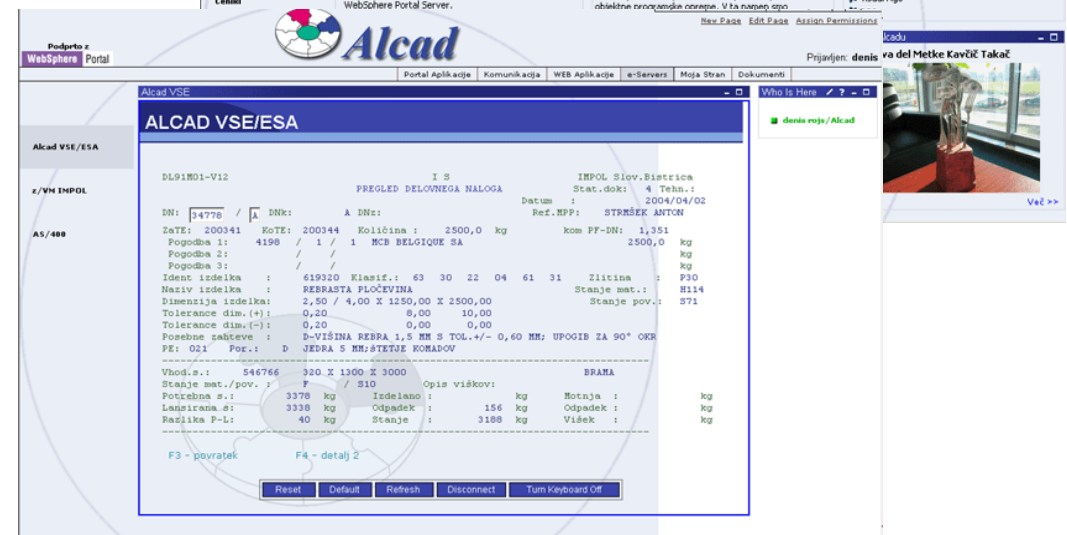
e-Business - in future

- customer will be able to see, where their Order products are in production process

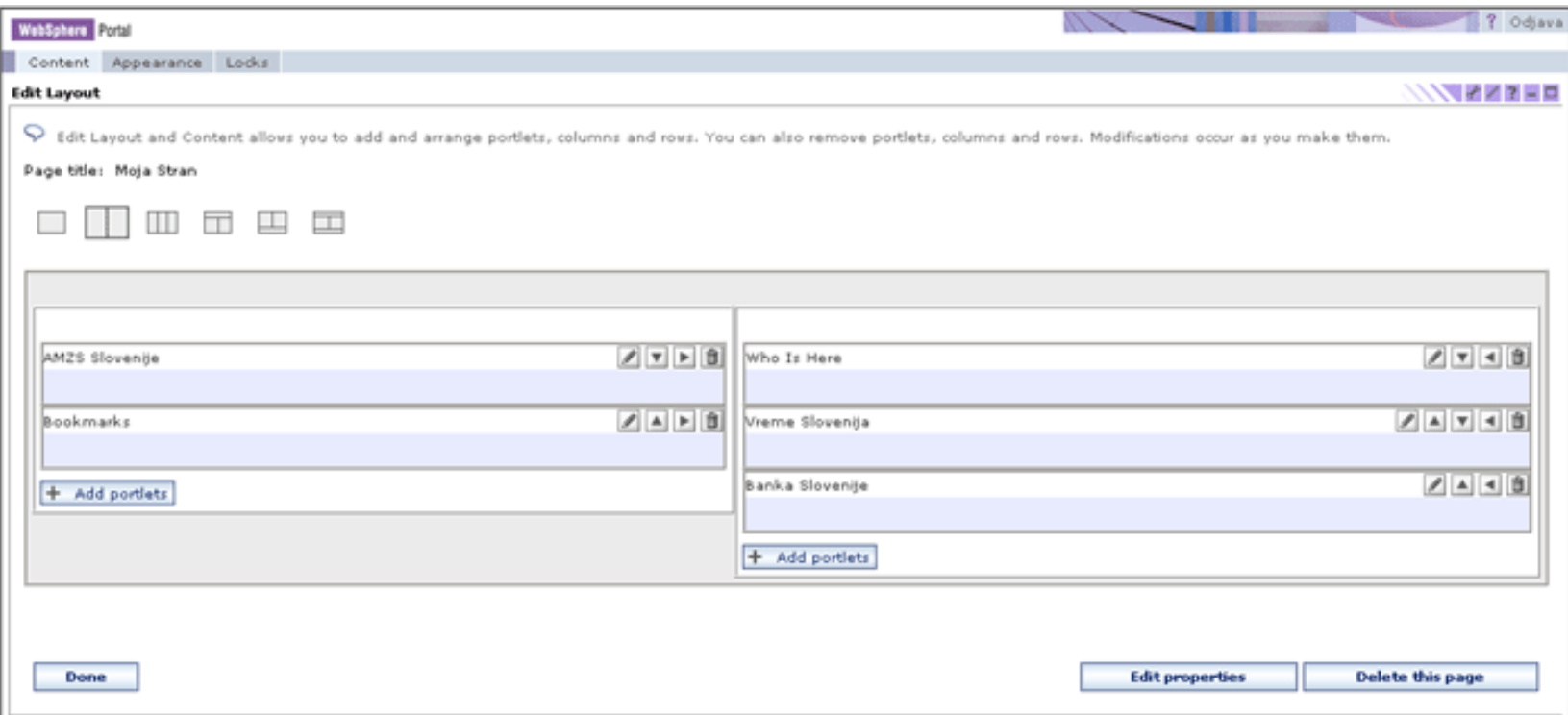
Applications and Solutions - WS Portal

Portal principale

- Combines application user interfaces together into one unified presentation
- Delivers a highly personalized experience, considering
 - User's job role
 - Security settings
 - Administrators
 - Personal settings
 - Device settings
- Provides application integration, collaboration, single sign-on services and much more

Applications and Solutions - WS Portal



WebSphere Portal

Content Appearance Locks

Edit Layout

Edit Layout and Content allows you to add and arrange portlets, columns and rows. You can also remove portlets, columns and rows. Modifications occur as you make them.

Page title: Moja Stran

AMZS Slovenija

Bookmarks

+ Add portlets

Who Is Here

Vreme Slovenija

Banka Slovenija

+ Add portlets

Done Edit properties Delete this page

Podporo z WebSphere Portal

Alcadov n

Alcad na Predstavil sreda, 31

Alcad v n

h., 2310 nedelja, 0

WebSphere S 1.2.2 WebSphere nedelja, 0

Zaključen odprene V Impol S poslovanj torek, 05

Domov

Dejavnosti

Ceniki

Projekti

Reference

Koristne povezave

istricja | Popravi moj profil | Odjava

ev Page Edit Page Assign Permissions

Prijavljen: **martina**

tran Dokumenti

?

Dynamic page - functionality

Thank you!

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www.alcad.si