



IBM Software Group

zSeries OTC Application Development Tools

May 2005

WebSphere software



 business on demand software

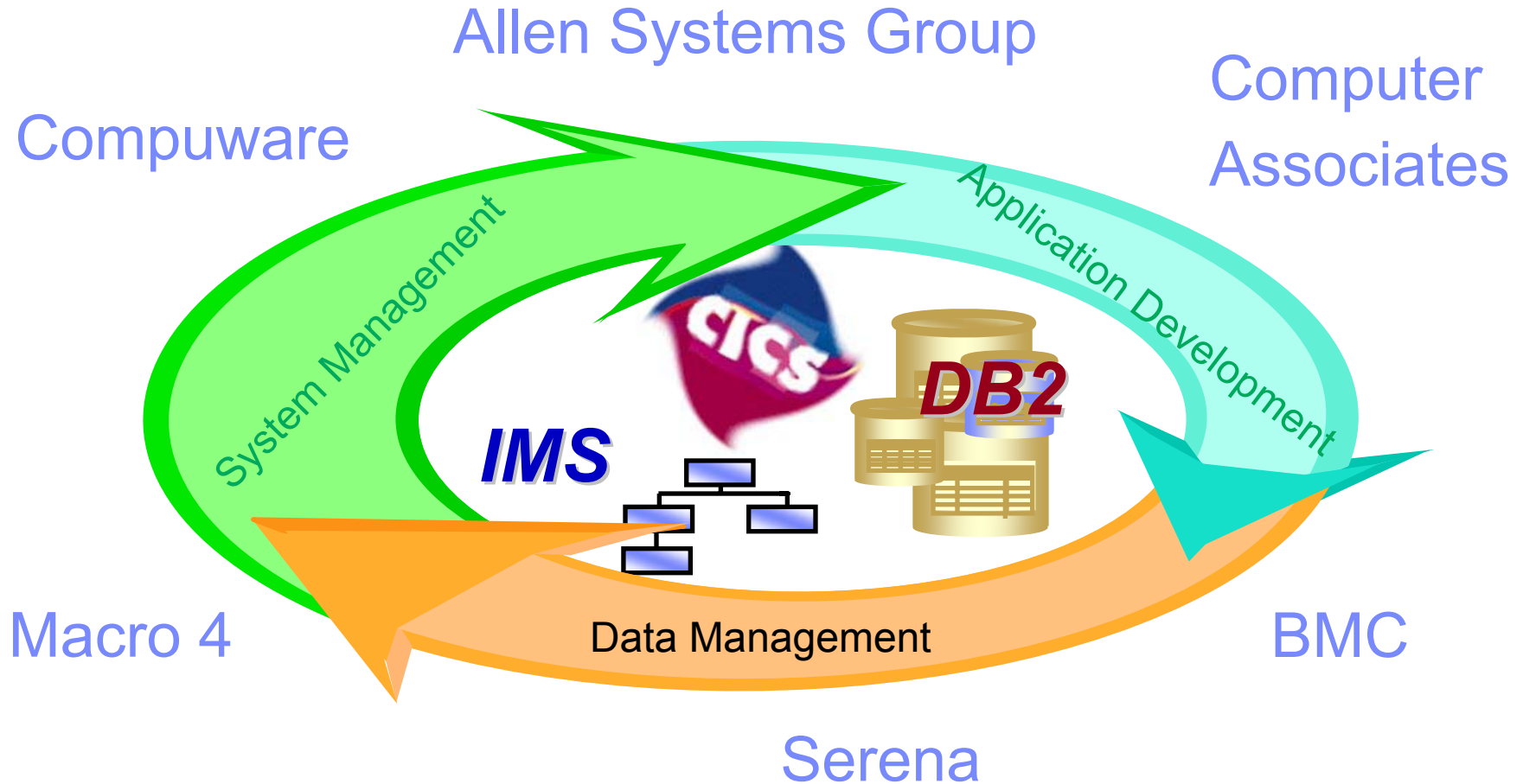
Copyright
2005

Agenda

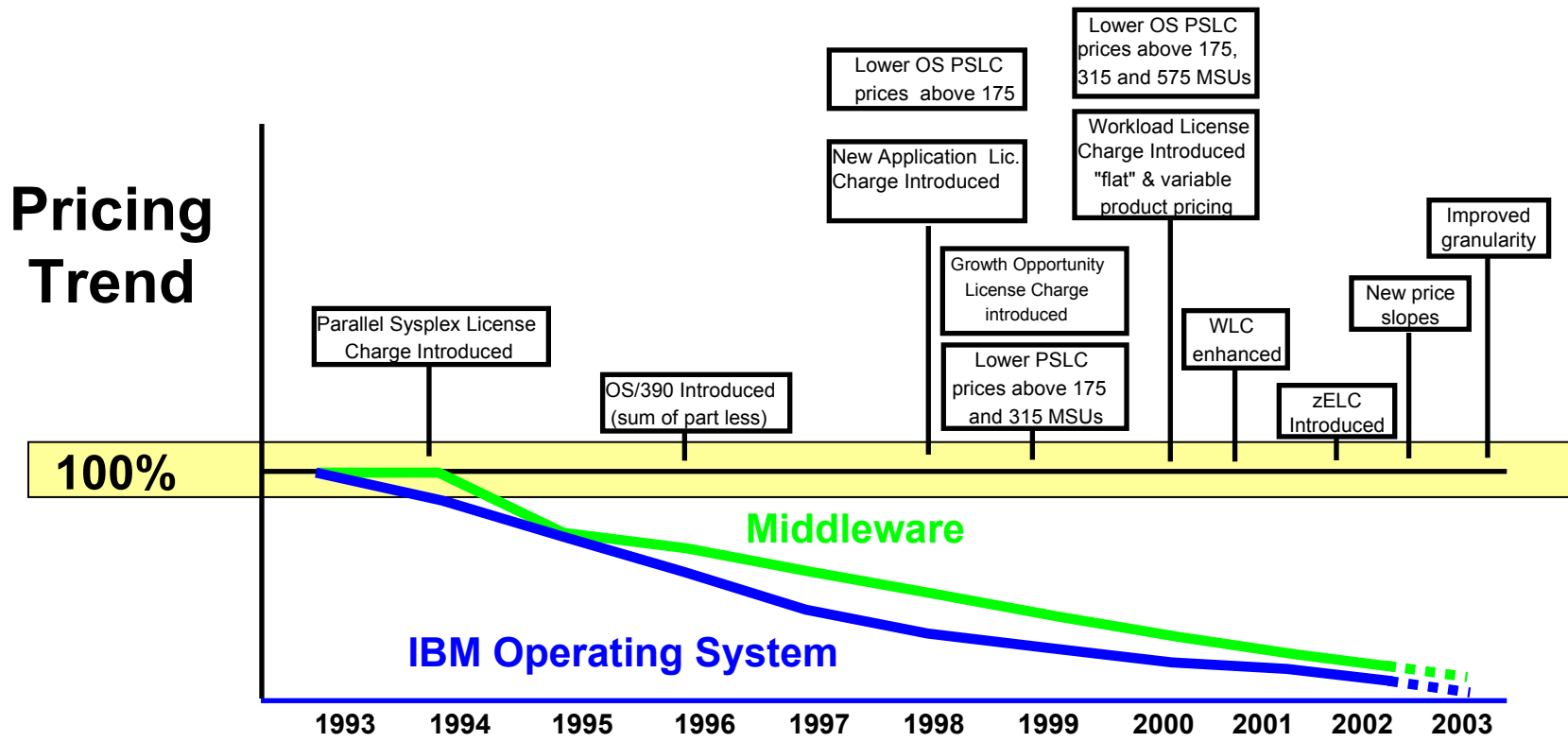
- How IBM became a zSW supplier
- IBM Application Development (AD) Tools
 - ▶ IBM's Problem Determination Tools
 - ▶ IBM's SCM Tools
 - ▶ IBM's CICS Tools



Background on zSeries

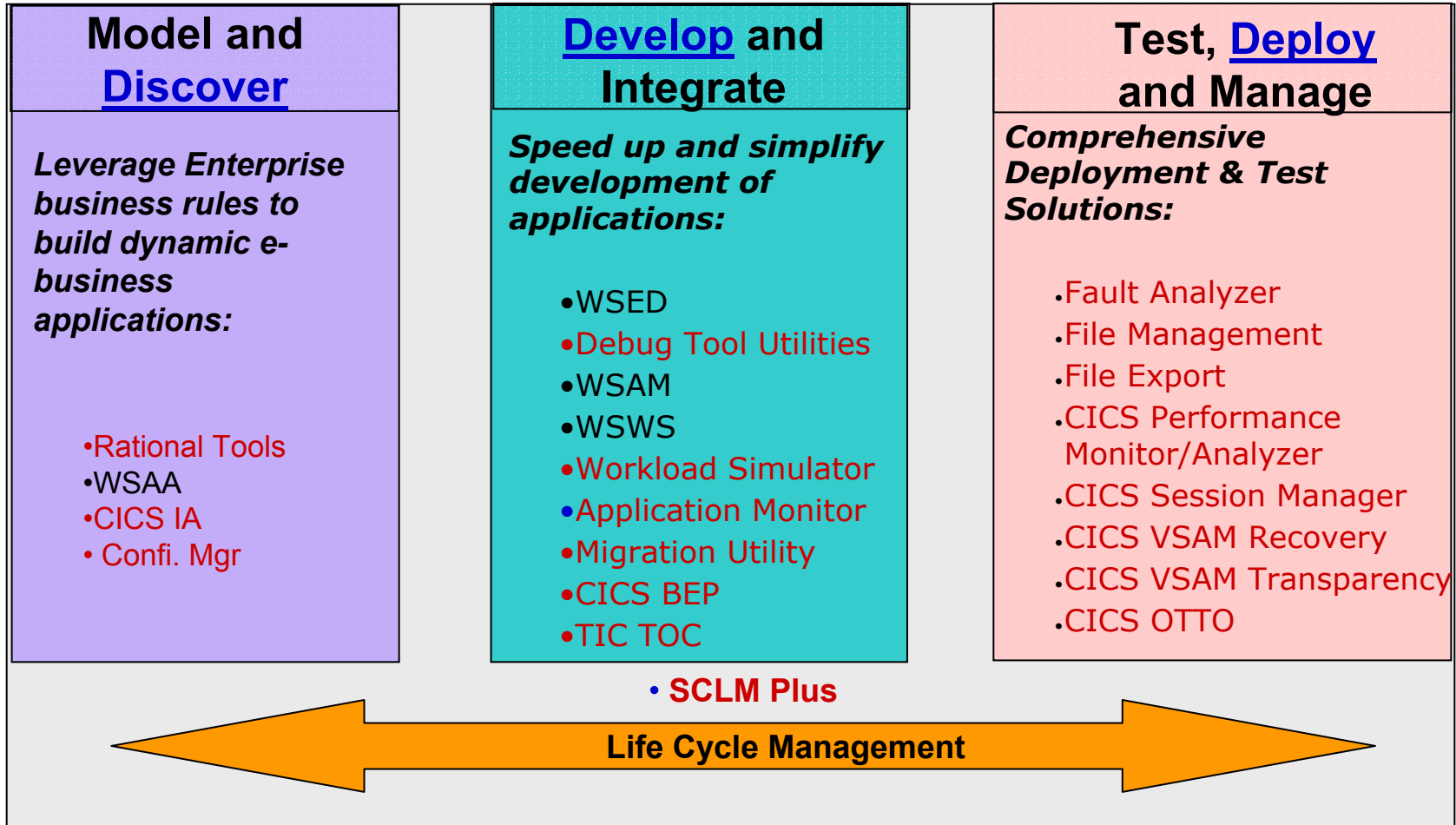


zSeries Software Pricing



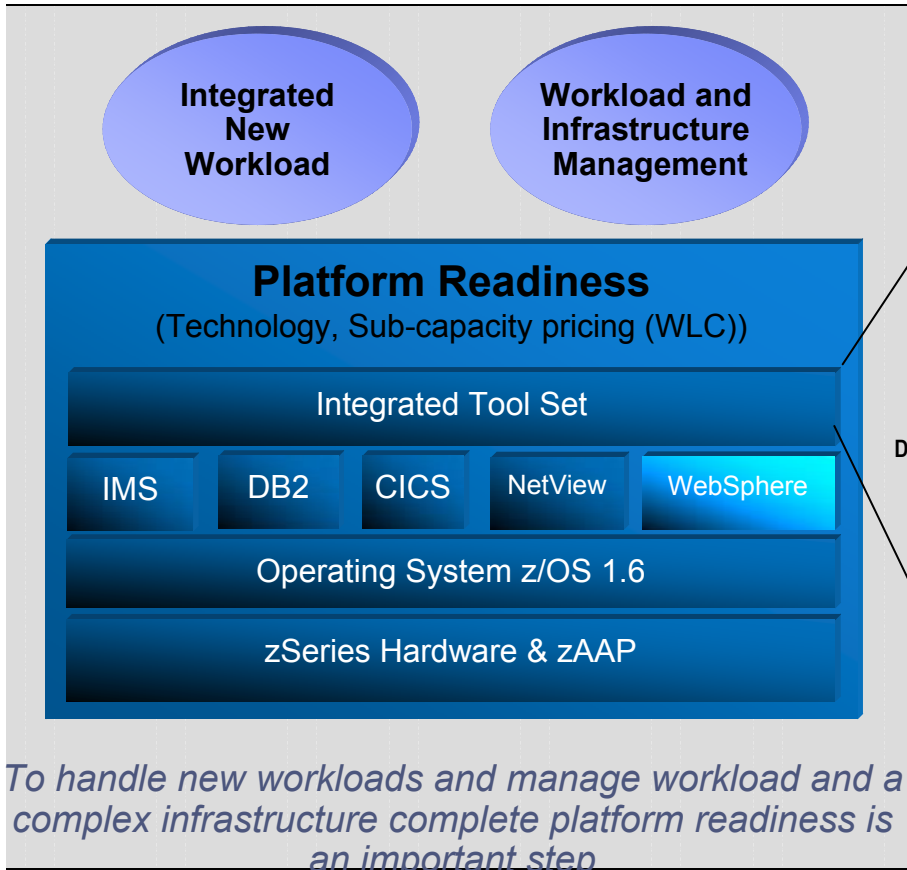
2002

Product Solutions



IBM zSeries Software Solutions

Platform Readiness is Key



What are AD Tools

- Application Development

PD – P
WEBSHERE

CICS Tools –

AD Tools

SCLM Suite / Plus

Migration Utility





IBM Software Group

Problem Determination Tools

WebSphere software



 business on demand software

November 2004

Rapid Testing and Deployment of Mixed-Workload Applications

• **Improve z/OS operational efficiency by improving the deployment and management of enterprise applications**

• **Optimize zOS application performance by helping you identify performance bottlenecks**

• **Increase application RAS through higher levels of application testing**

Tools Portfolio:

Fault Analyzer for z/OS (FA)

- Helps you rapidly pinpoint cause of failed application

File Manager for z/OS (FM)

- Data management tool supporting key file structures like VSAM, DB2, and IMS

File Export for zOS (FE)

- Exporting and importing related sets (application relationships) of DB2, IMS, VSAM and sequential data

Debug Tool Utilities and Advanced Functions (DTUAF)

- Source code debugging and code coverage to improve development productivity

TicToc

- Enables date/time simulation on z

Application Monitor for z/OS (AM)

- Helps isolate the cause of online and batch application performance bottlenecks with ability to drill down to source

Workload Simulator (WS)

- Application stress and regression testing

Rational Functional Tester Extension

- Functional testing for z Apps from RFT Dist. GUI



Problem Determination Tools Large Player Landscape

AD TOOLS TEAM COMPETITIVE MAPPING 2005		
IBM	Computer Associates	Compuware
Fault Analyzer	Symdump	Abend-AID Suite
File Manager	File Master	File-AID Suite
File Export		File-AID/RDX
Debug Tool & Debug Tool Utility	Intertest Suite	XPEDITER Suite
TicToc		Xpediter Xchange
Workload Simulator Rational Functional Tester Ext	Verify Transcentury Enterprise Tester	QAHyperstation / QAPlayback
Application Performance Analyzer		Strobe Suite



Switching

Compuware

- Abend-AID/XLS
- Abend-AID/DB2
- Abend-AID-IMS
- CICS Abend-AID/FX
- CICS Abend-AID/FX for DB2
- Abend-AID/e-Business
- File-AID/MVS
- File-AID/DB2
- File-AID/IMS
- File-AID/RDX
- XPEDITER/CICS
- XPEDITER/TSO
- XPEDITER/IMS
- XPEDITER/DB2
- XPEDITER/Code Coverage
- XPEDITER/XChange
- QA Hiperstation
- Strobe Suite (CICS, DB2, IMS, COBOL)



IBM 2005 OFFERINGS

Fault Analyzer V5

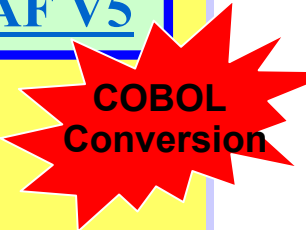


File Manager V5

File Export



Debug Tool Utilities AF V5



TicToc

Workload Simulator
Rational Functional Tester Ext

Application Monitor



SCM Large Player Landscape

IBM	Computer Associates	Serena
SCLM	Endevor OS/390 Endevor DB2 Librarian Panvalet	ChangeMan OS/390 (DS, M+R, SSM, ALM)
SCLM Suite (SCLM, Breeze, EAC, Adm Wkbn, Merge Tool)	Endevor, Panvalet, Librarian	Changeman Suite
Merge Tool	Endevor PDM	
Admin Workbench		
Breeze	Endevor (approval function)	ChangeMan ECP
Cloud 9 *a	Endevor Wks All Fusion Harvest	Changeman WCM Changeman DS
Rational *a	AllFusion Harvest Change Manager (formerly CA ccc/Harvest)	Changeman DS

Other Landscape

IBM	Computer Associates
Migration Utility	EasyTrieve Plus



SCLM Plus – Enterprise Asset Manager



Native GUIs
Web Client
WSxD
3270/5250
Terminal

Single Point of Management - Rational ClearQuest®

- Manage lifecycle of n-tier applications
- Automate approval workflow
- Initiate system build across platforms

Develop

System Test

Accept Test

Ready Deploy

Access anytime, anywhere

Distributed Systems



zSeries® /iSeries®

Linux

Clear Case

z/OS®

SCLM Plus

IBM Migration Utility:

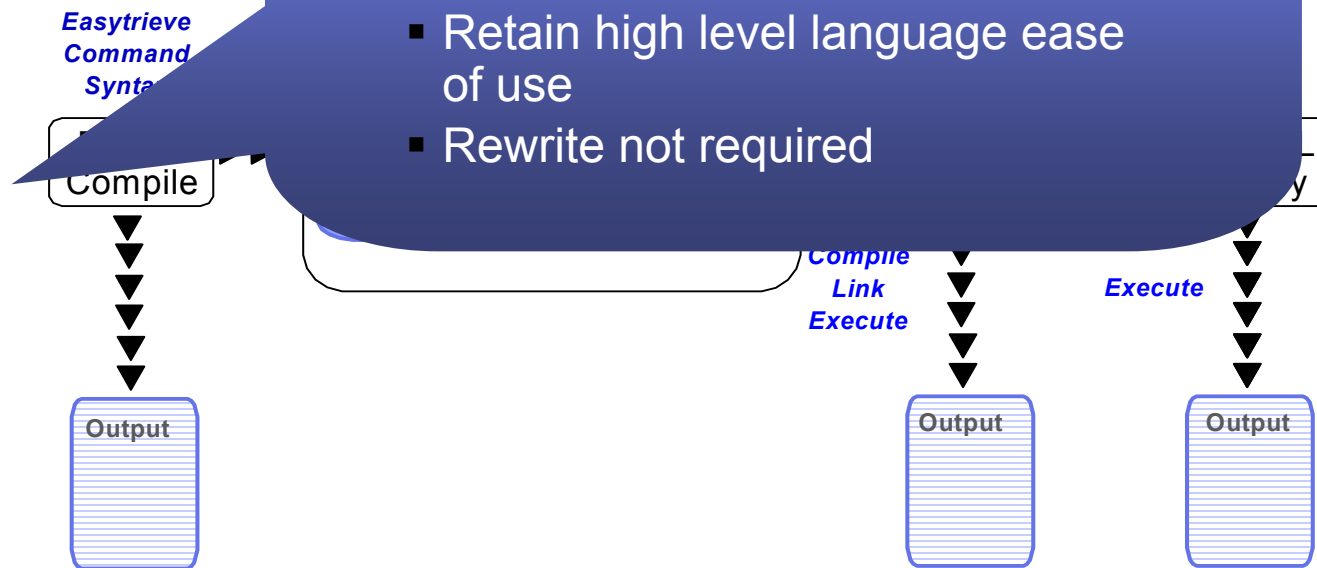
Converts CA-Easytrieve Plus to COBOL

Capabilities

- Automated conversion of Easytrieve Plus programs to COBOL
- Ongoing program development, testing, and execution instructions, and macro language
- File access support for various file formats
- Report statement and control language

Migration Utility Benefits

- Capitalize on the operating efficiency of COBOL
- Enable use of powerful dubbing tools
- Retain high level language ease of use
- Rewrite not required





IBM Software Group

CICS Tools Overview

WebSphere software



 business on demand software

November 2004

CICS TOOLS MAPPING Feb 2005



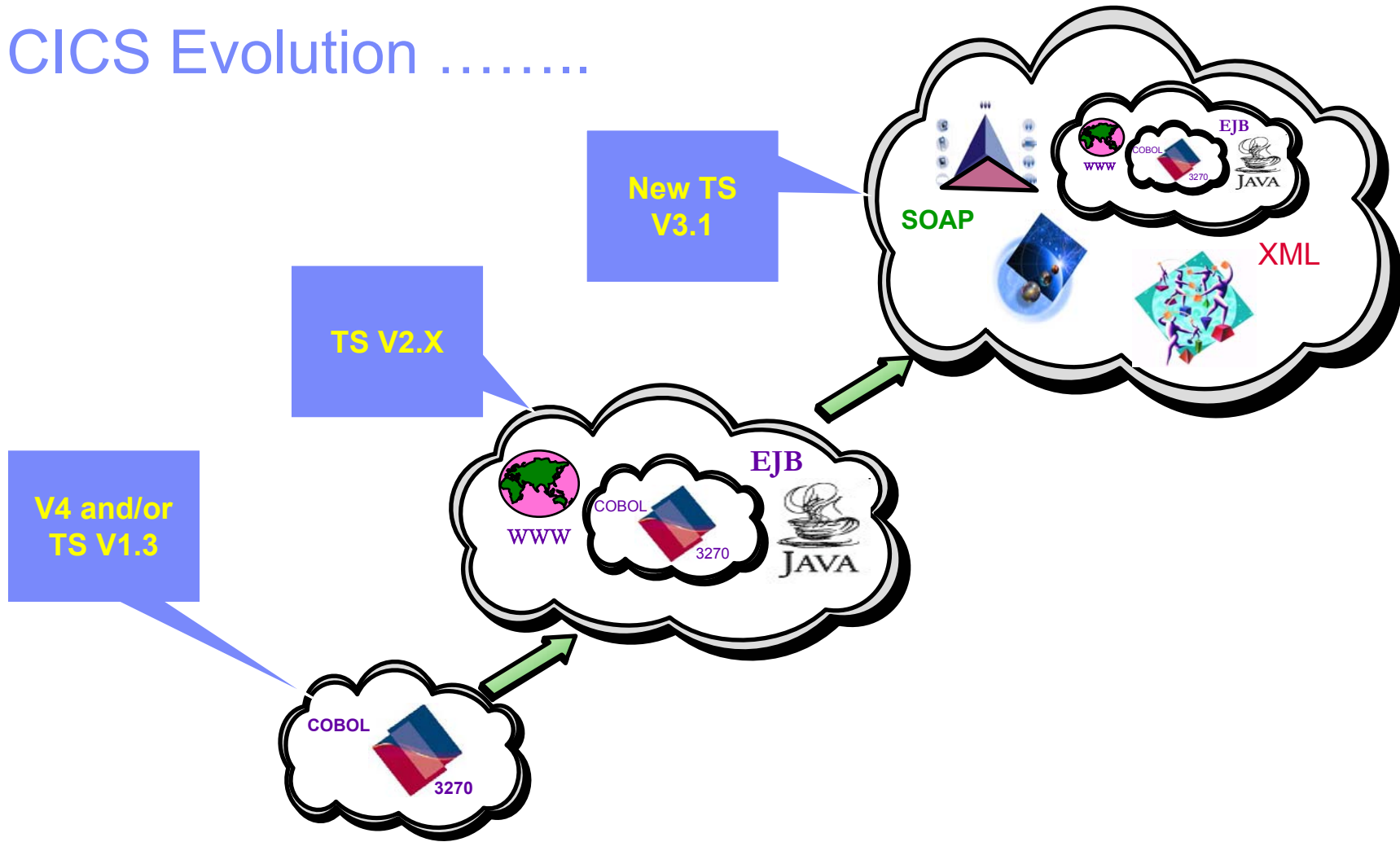
IBM	Computer Associates	Macro 4	ASG	BMC	Unicom
Session Manager CL Supersession CL Conference	TPX, Solve Access, Teleview	Tubes			PIE CICS, Windows CICS
Tivoli NVAS (Netview Access Services)					
CICS OTTO	Net Compress			3270 Optimizer, SuperOptimizer, UltraOpt	
CICS VSAM Recovery	CA-Filesave/OCS			BMC VSAM Recovery	
CICS Batch Application Control (BAC)	CA DADS Plus				
CICS VSAM COPY		Foreman		BMC VSAM Recovery - RUV option	
Omegamon for CICS, Omegamon XE CICS Performance Monitor	CA-SYSVIEW Resource Mangt.; CA- JARS/CICS; NeuMICS		TMON for CICS/ESA	MAINVIEW for CICS TS	Automon/CICS
CICS Performance Analyzer			TMON for CICS/ESA (minimal reports)	MAINVIEW for CICS TS (minimal reports)	
CICS Interdependency Analyzer					
Configuration Manager			CATS or CSD Auditor		Autocom/RDO
Business Event Publisher MQ					
CICS VSAM Transparency					

Extending Value of Existing (Legacy) Customer Application Assets

- New code costs 5X reusing existing code
 - ▶ *Software Productivity Research (SPR)*
- 200 Billion lines of COBOL code in existence
 - ▶ *eWeek*
- 5 Billion lines of COBOL code added yearly
 - ▶ *Bill Ulrich, TSG Inc*
- Between 850K and 1.3 Million COBOL developers, 12,000/year attrition
 - ▶ *IDC*
- Majority of customer data still on Mainframes
 - ▶ *Computerworld*



CICS Evolution



CICS TS Releases

- CICS TS V3
 - ▶ **Announced – November 30th, 2004**
 - ▶ **GA – March 25th, 2005**
- CICS TS V2
 - ▶ Version 2.3 **** Supported ****
 - ▶ Version 2.2 **** Marketing Unsupported **** Service
 - ▶ Version 2.1 **** Unsupported** !!**
- CICS TS V1
 - ▶ Version 1.3 **** Supported – Until April 30th, 2006 ** !**
 - ▶ Version 1.2 **** Unsupported** !!**
 - ▶ Version 1.1 **** Unsupported** !!**
- CICS MVS/ESA V4
 - ▶ Known as Version 4.1 **** Unsupported** !!**

Use the Tools to
ease the
migration



Three Categories of CICS Tools

- *Tools that Assist in CICS V2V Migration*
- *Legacy Modernization*
- *ISV Replacements*



Tools that Assist in CICS V2V Migration

- *CICS Interdependency Analyzer*
- *CICS Performance Analyzer*
- *Configuration Manager*
- *Debug Tool Utilities Advanced Functions V5*



How the Tools will Assist with V2V Migrations

- Full exploitation support of CICS TS V3.1
- Make programs threadsafe and report statistics
- Capacity planning for new regions
- Identify and Document all resources (shared)
- Clean up Dead code
- Manage many CICS resource definitions and the files
- Identify and convert all non LE COBOL



Three Categories of CICS Tools

- *Tools that Assist in CICS V2V Migration*
- ***Legacy Modernization***
- *ISV Replacements*



Legacy Modernization

- **Extend and modernize CICS applications efficiently**

- **Improve end-user productivity**

- **Increase customer satisfaction**

CICS Business Event Publisher for MQSeries®

- When an application event occurs in CICS, DB2 or IMS, Business Event Publisher will create an MQPut without changing existing CICS applications.

CICS VSAM Transparency

- Migrate VSAM files to DB2 without rewriting applications and keep a single instance of data



Three Categories of CICS Tools

- *Tools that Assist in CICS V2V Migration*
- *Legacy Modernization*
- ***ISV Replacements***



CL Supersession
CL Conference

CICS TOOLS MAPPING April 2005

IBM	Computer Associates	Macro 4	ASG	BMC	Unicom
Session Manager CL Supersession CL Conference	TPX, Solve Access, Teleview	Tubes			PIE CICS, Windows CICS
Tivoli NVAS (Netview Access Services)					
CICS OTTO	Net Compress			3270 Optimizer, SuperOptimizer, UltraOpt	
CICS VSAM Recovery	CA-Filesave/OCS			BMC VSAM Recovery	
CICS Batch Application Control (BAC)	CA DADS Plus				
CICS VSAM COPY		Foreman		BMC VSAM Recovery - RUV option	
CICS Performance Monitor Omegamon for CICS, Omegamon XE	CA-SYSVIEW Resource Mangt.; CA- JARS/CICS; NeuMICS		TMON for CICS/ESA	MAINVIEW for CICS TS	Automon/CICS



2Q'05 CICS Tools Plays - COMING MAY 19TH

CICS Which Version (CICS TS 2.3 or V3.1) Should I Go To & Why - Plus Tools to Assist in Migration

Product solutions to be discussed include:

- *CICS V2.3, V3.1*
- *New Configuration Manager*
- *CICS Performance Analyzer*
- *CICS Interdependency Analyzer*
- *Debug Tool Utilities Advanced Functions*

Date: Thursday May 19, 2005 at 1:00 pm EDT.

Audience: CICS Systems and CICS Application Developers and Managers.

ibm.com/software/zseries/telecon/may19

