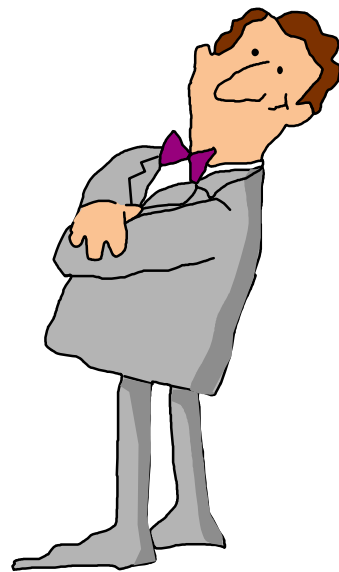


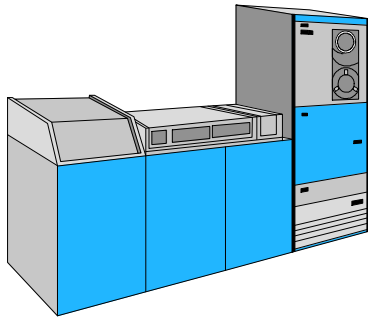
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Legacy Applications

The Importance of Legacy applications



- **70%** of corporate data in North America is still stored on mainframes
- **90%** of Fortune 1000 companies still rely on mainframes for most of their data storage and processing activities
- There are still **180 billion** lines of COBOL code in existence

Why Modernize?

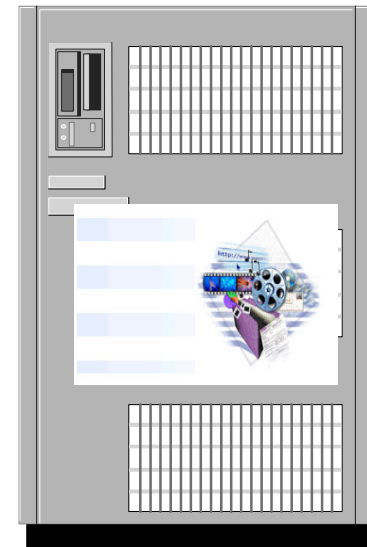
Why should Legacy applications be modernized?



- **Leverage pasts investments:** "Re-use" is cheaper than "writing new"
- **Obtain a competitive advantage:** Modernization of Legacy applications can shorten the time needed by a company to become an e-business
- **Beat competitors to the market:** In e-business, the "first-mover's advantage" is even more significant

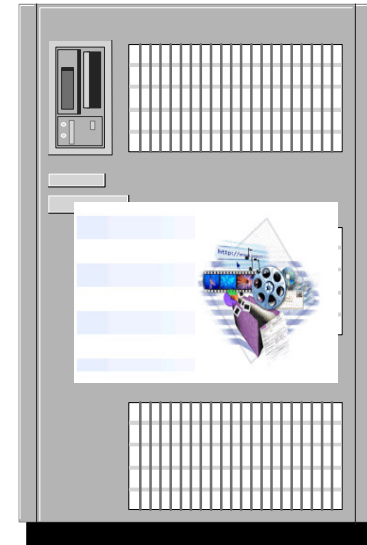
Evolution of the e-business application

OS/390 or z/OS



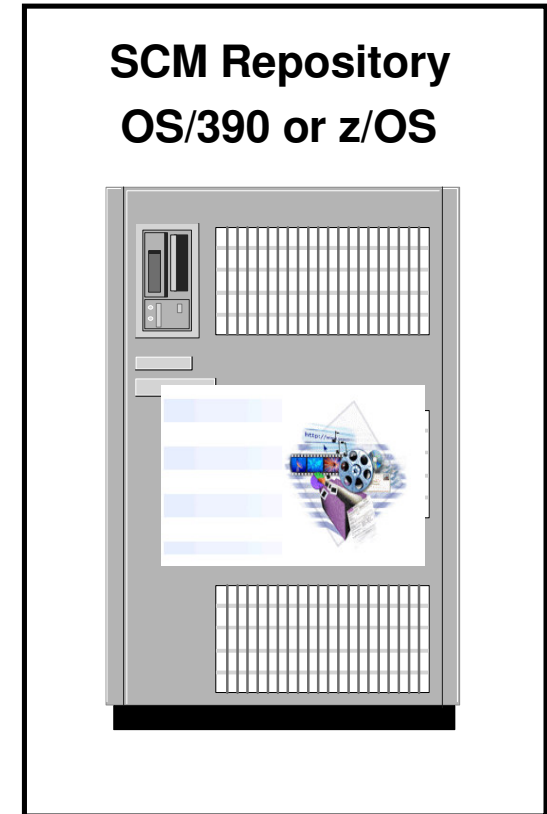
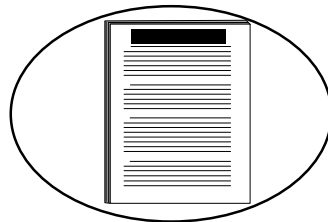
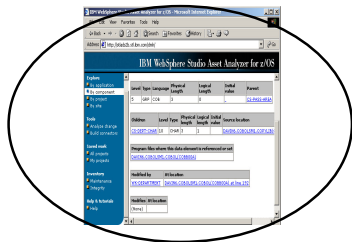
Evolution of the e-business application

SCM Repository OS/390 or z/OS

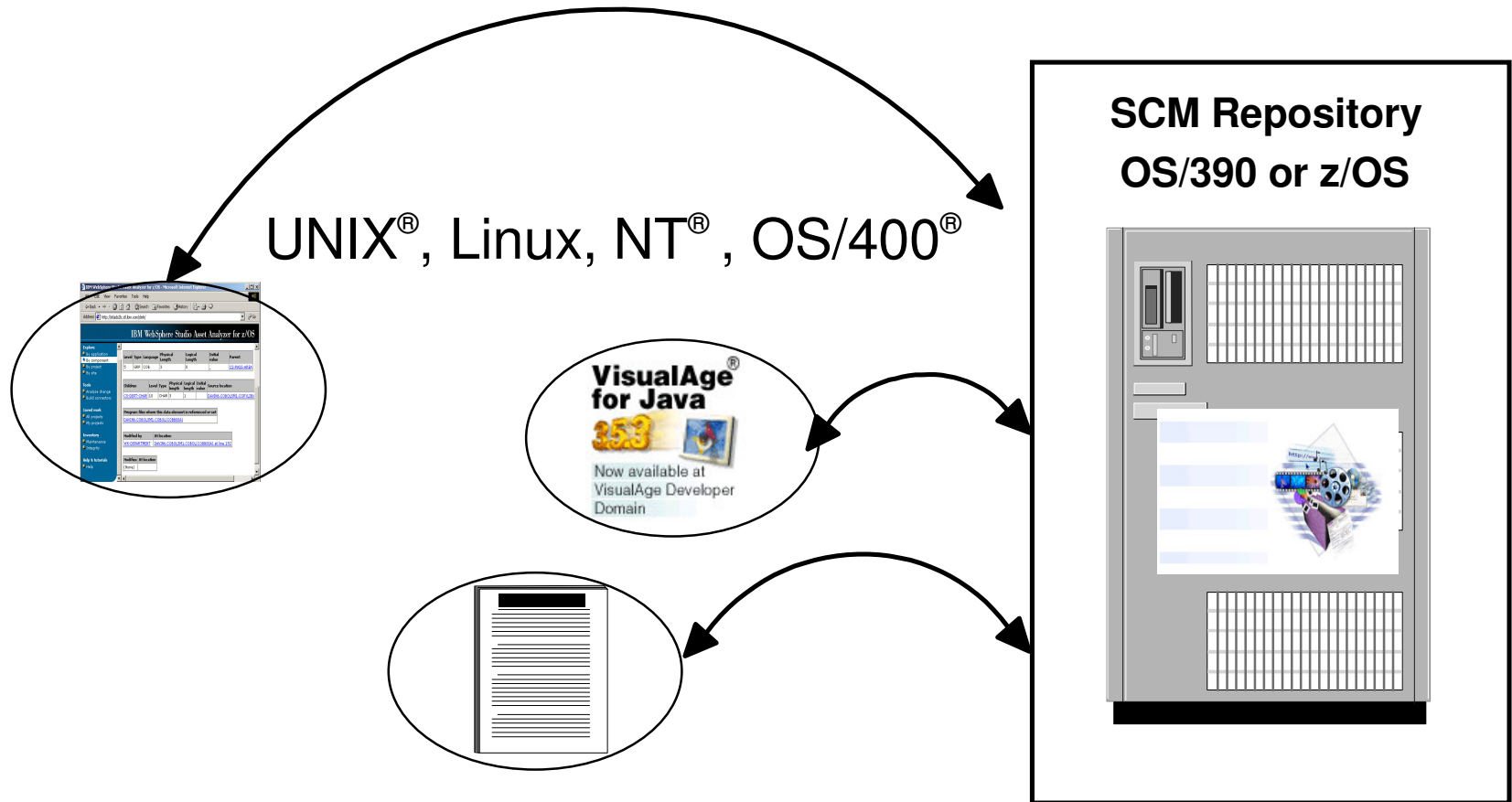


Evolution of the e-business application

UNIX[®], Linux, NT[®], OS/400[®]

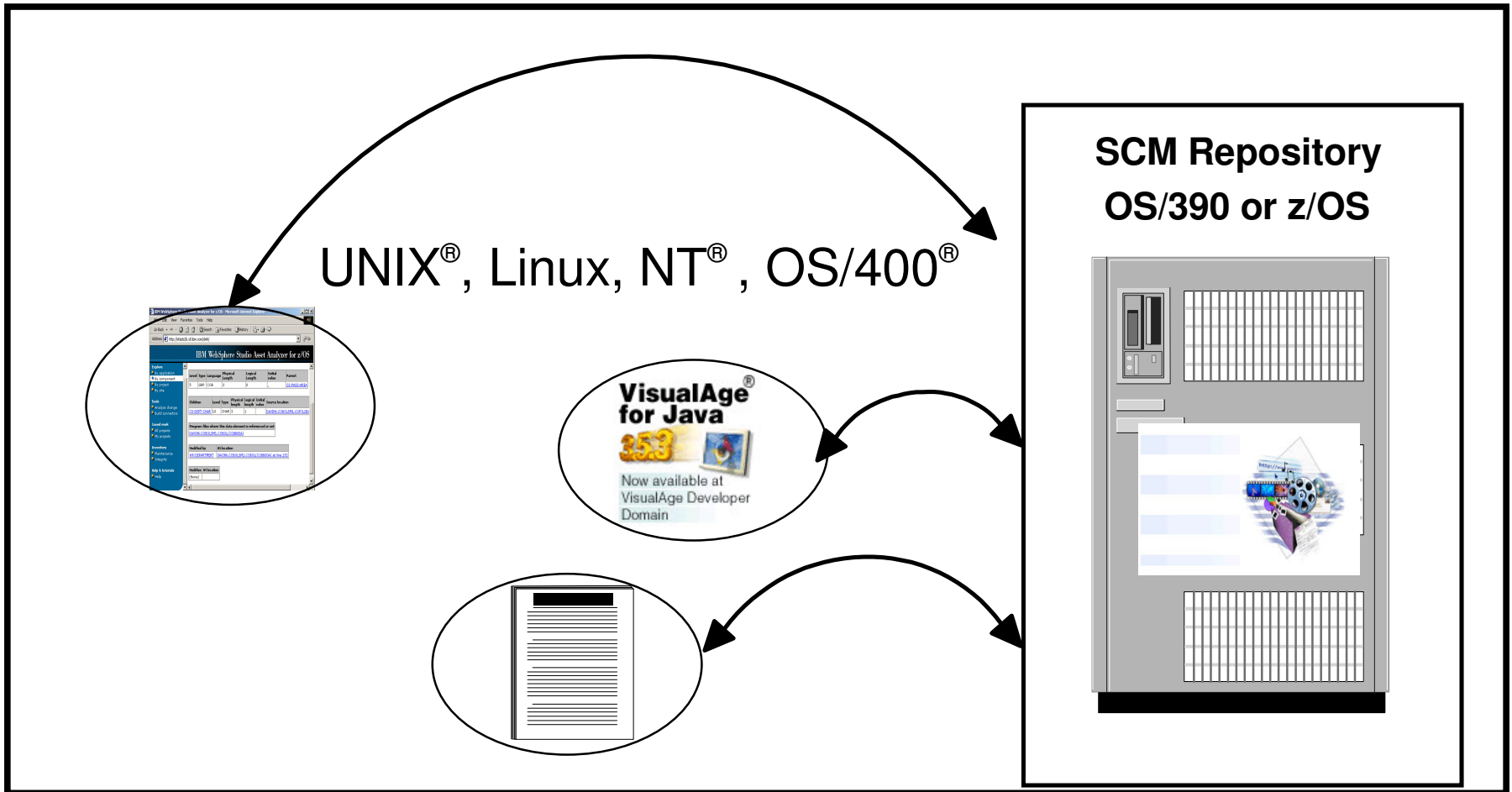


Evolution of the e-business application

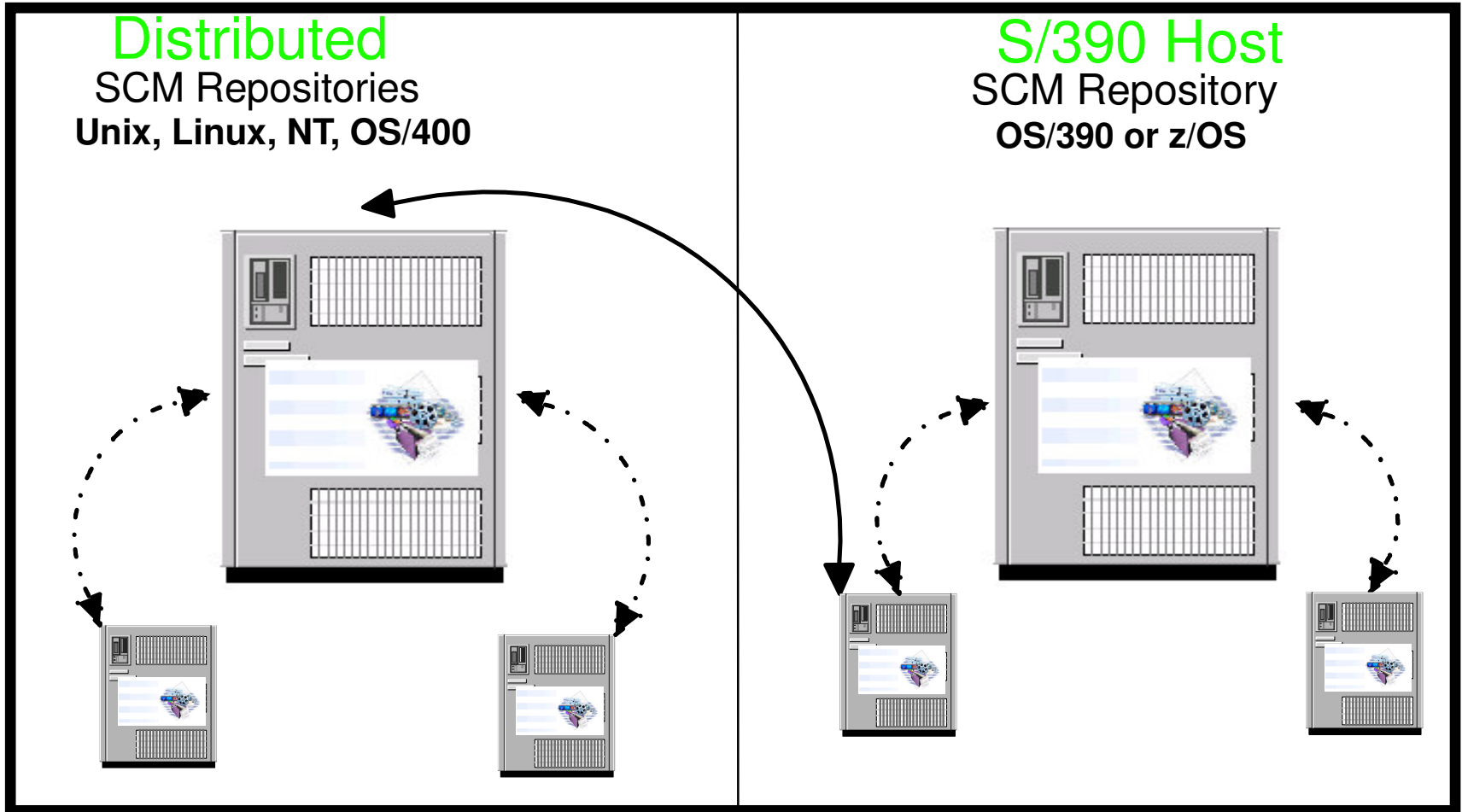


Evolution of the e-business application

SCLM Suite!



The Distributed SCM Approach



Business Needs

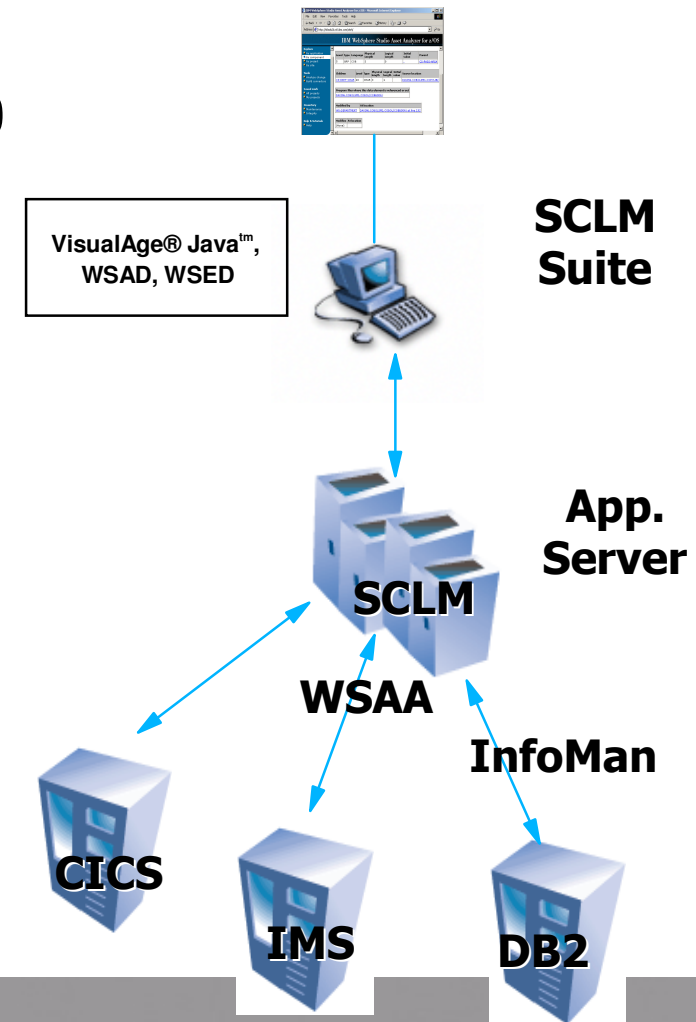
- **The customer has significant investments in legacy applications that are not suited for e-business transactions.**
- **Collaboration between traditional developers and Web developers is a "critical success factor" in modernization projects**
- **Take advantage of the scalability, security and reliability of the mainframe to store, manage, and control the processes of developing applications**
- **Consolidation of multiple products and processes on S/390[®]**
- **Enable S/390 centralized storage, management, and control of applications composed of:**
 - ▶ **e-business objects**
 - ▶ **S/390 objects**
 - ▶ **both e-business & S/390 objects**
- **Single vendor advantage, IBM**



Enterprise Modernization Strategy

Accelerate the evolution to more advanced states of e-business for all enterprises

- **Web browser interface to centralized S/390 repository for integrated e-business applications objects**
 - ▶ Reuse existing applications
 - ▶ Leverage all company skills using their preferred development environment
 - ▶ Significant implementation savings
 - ▶ May improve ROI



Introducing the SCLM Suite!

- Comprehensive and integrated S/390 web-based SCM (Software Change and Configuration Management) solution
- Enable S/390 centralized storage, management, and control of applications composed of:
 - ▶ S/390 objects
 - ▶ both e-business & S/390 objects
 - ▶ e-business objects

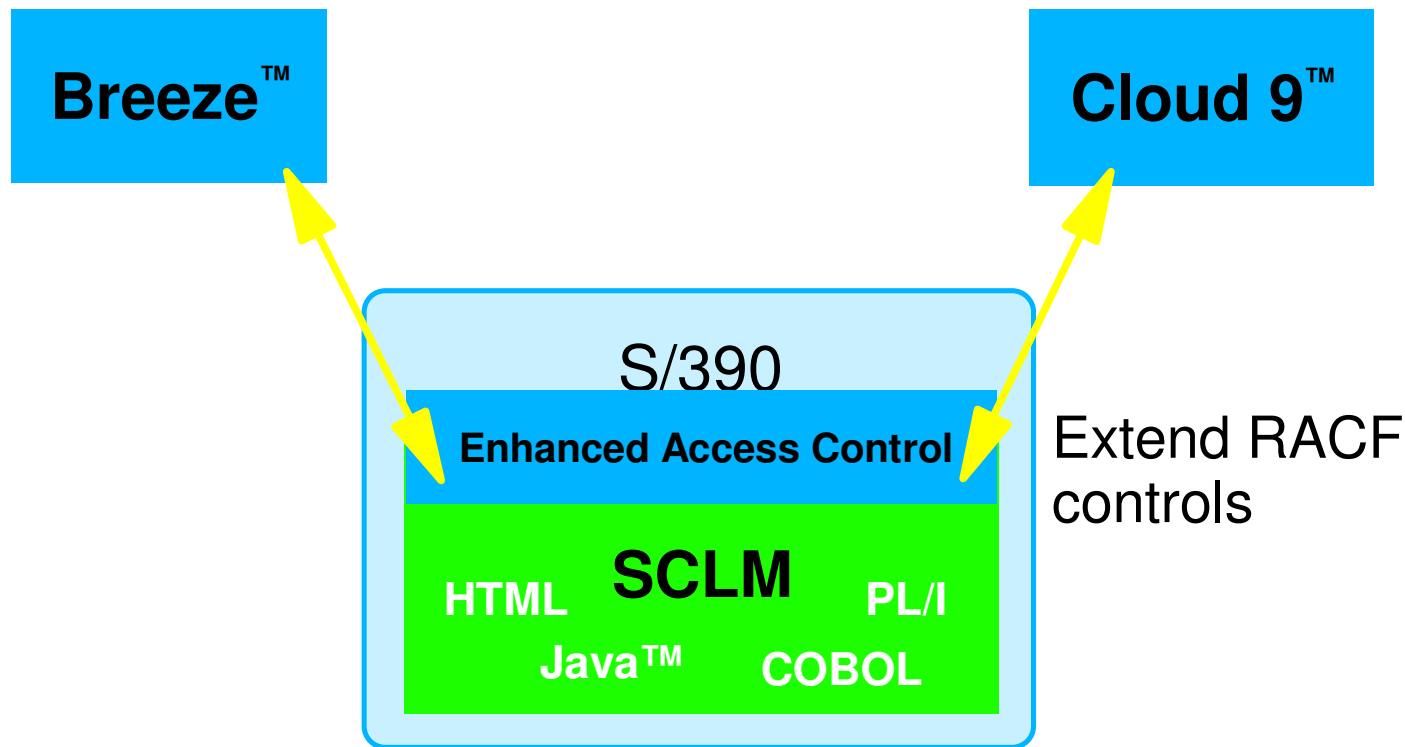


The SCLM Suite

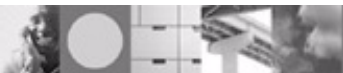
Turbo charge SCLM to support long named objects

Approve packages over the Web

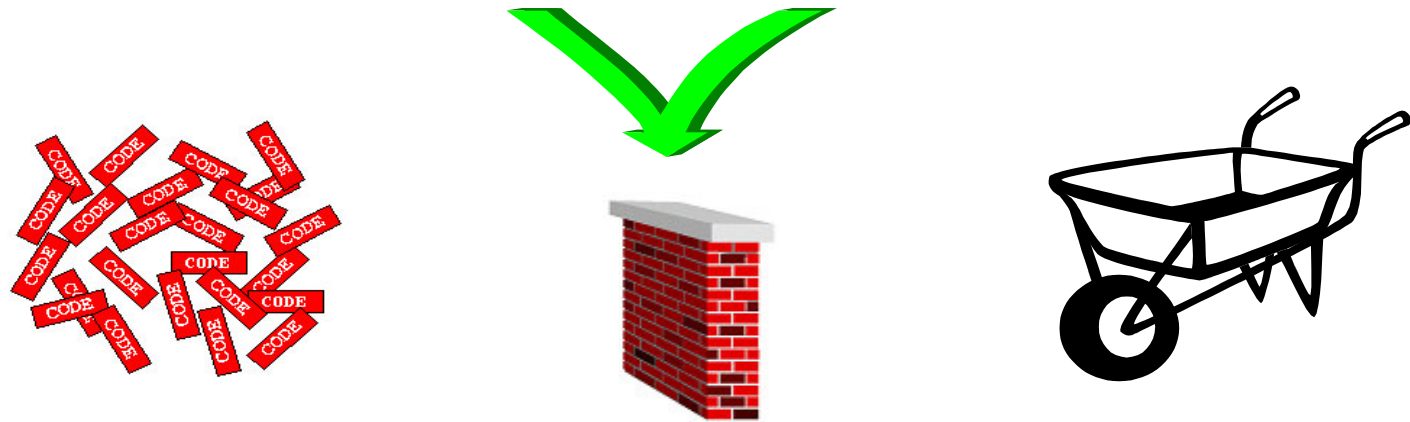
Perform SCLM functions over the Web



Software Configuration and Library Manager:
centralized, S/390-based SCM

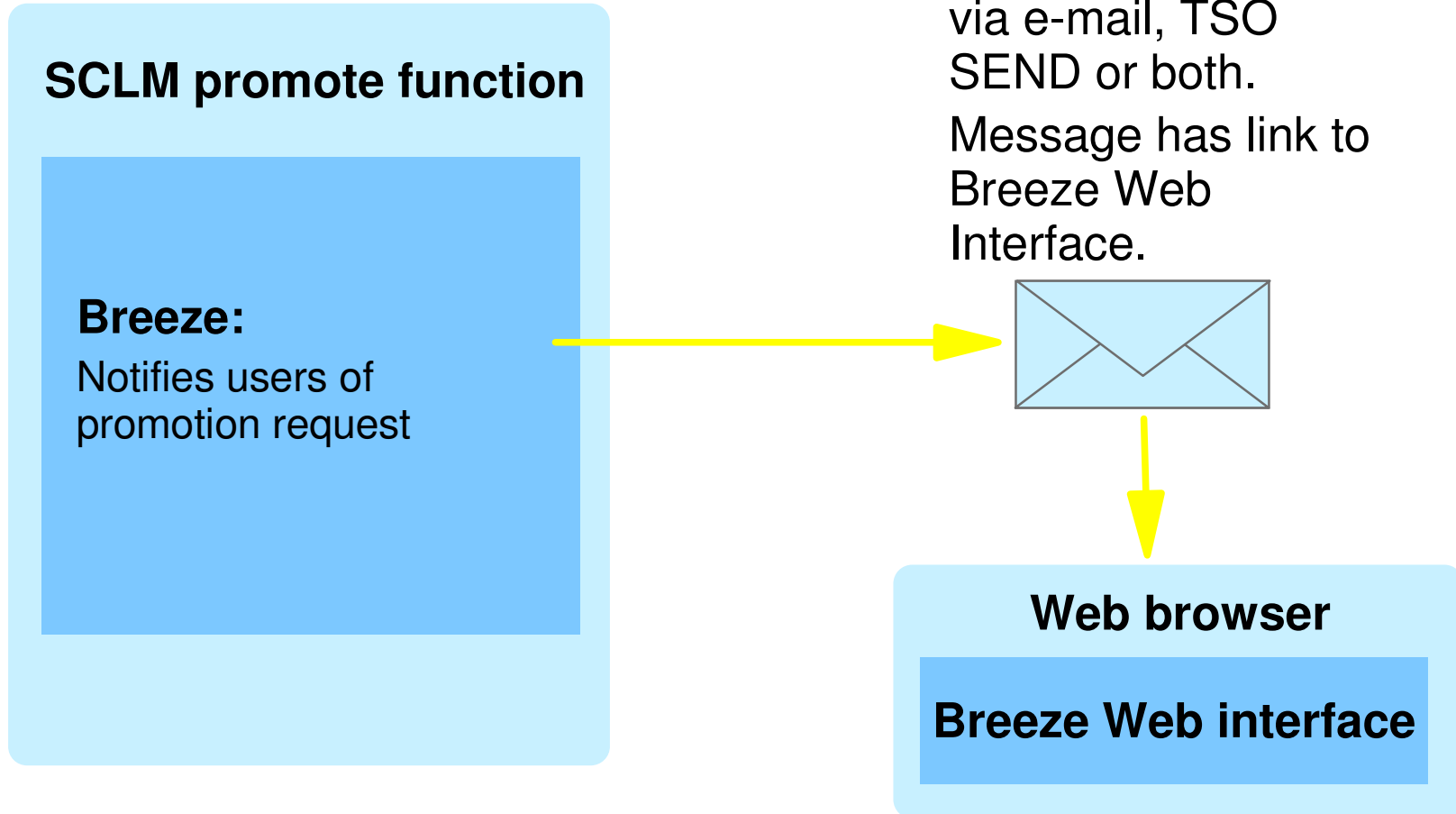


What is SCLM?

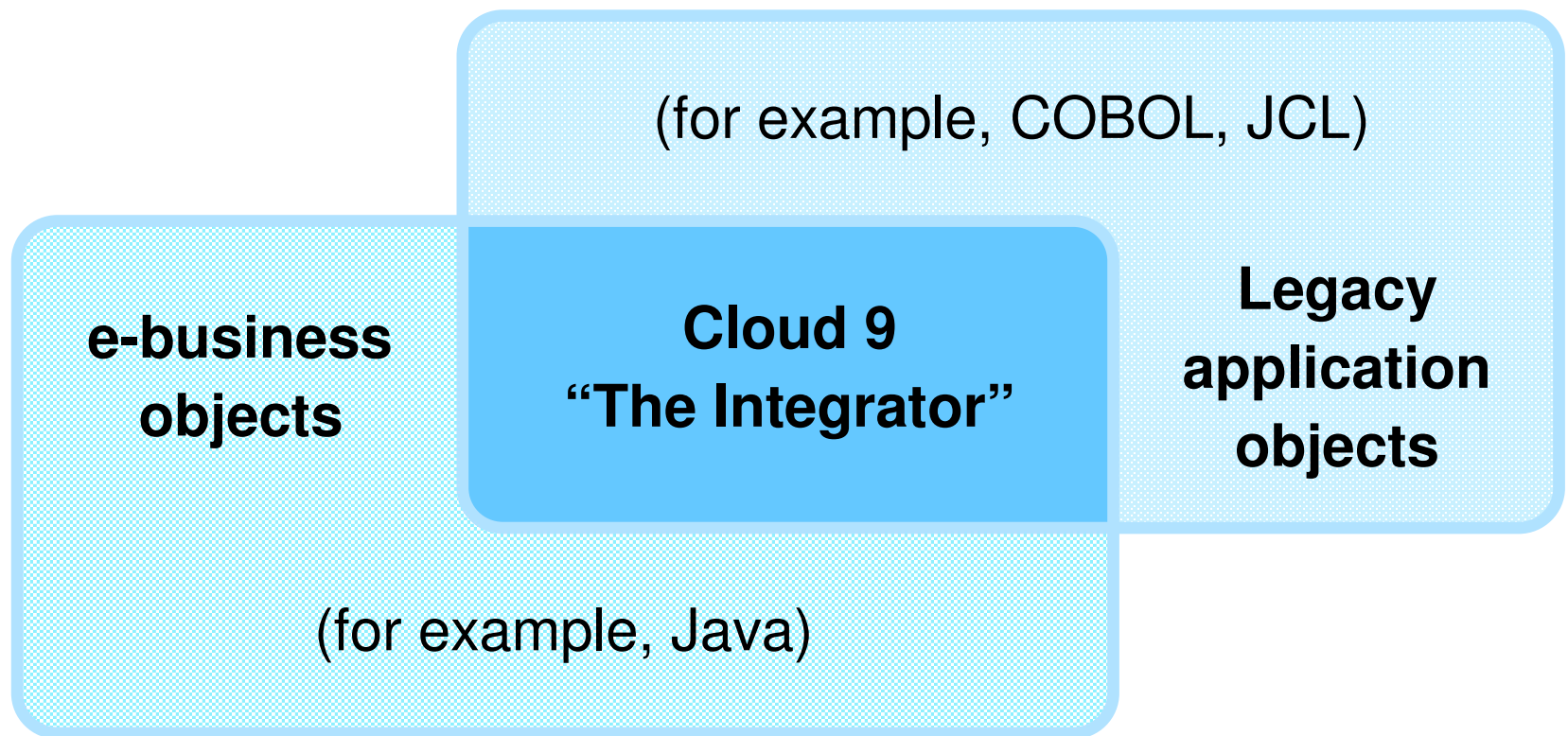


<p>★ Library Manager</p> <ul style="list-style-type: none"> → Manage <ul style="list-style-type: none"> ✓ Source Code ✓ Objects ✓ Images ✓ Procedures → Versioning → Auditing 	<p>★ Configuration Manager</p> <ul style="list-style-type: none"> → Track application pieces <ul style="list-style-type: none"> ✓ Source code ✓ Object and load ✓ Testcases ✓ Publications... → Manage Build process <ul style="list-style-type: none"> ✓ Intelligent builds ✓ Mainframe or Workstation → Synchronous Promotion
<p>SCLM</p>	

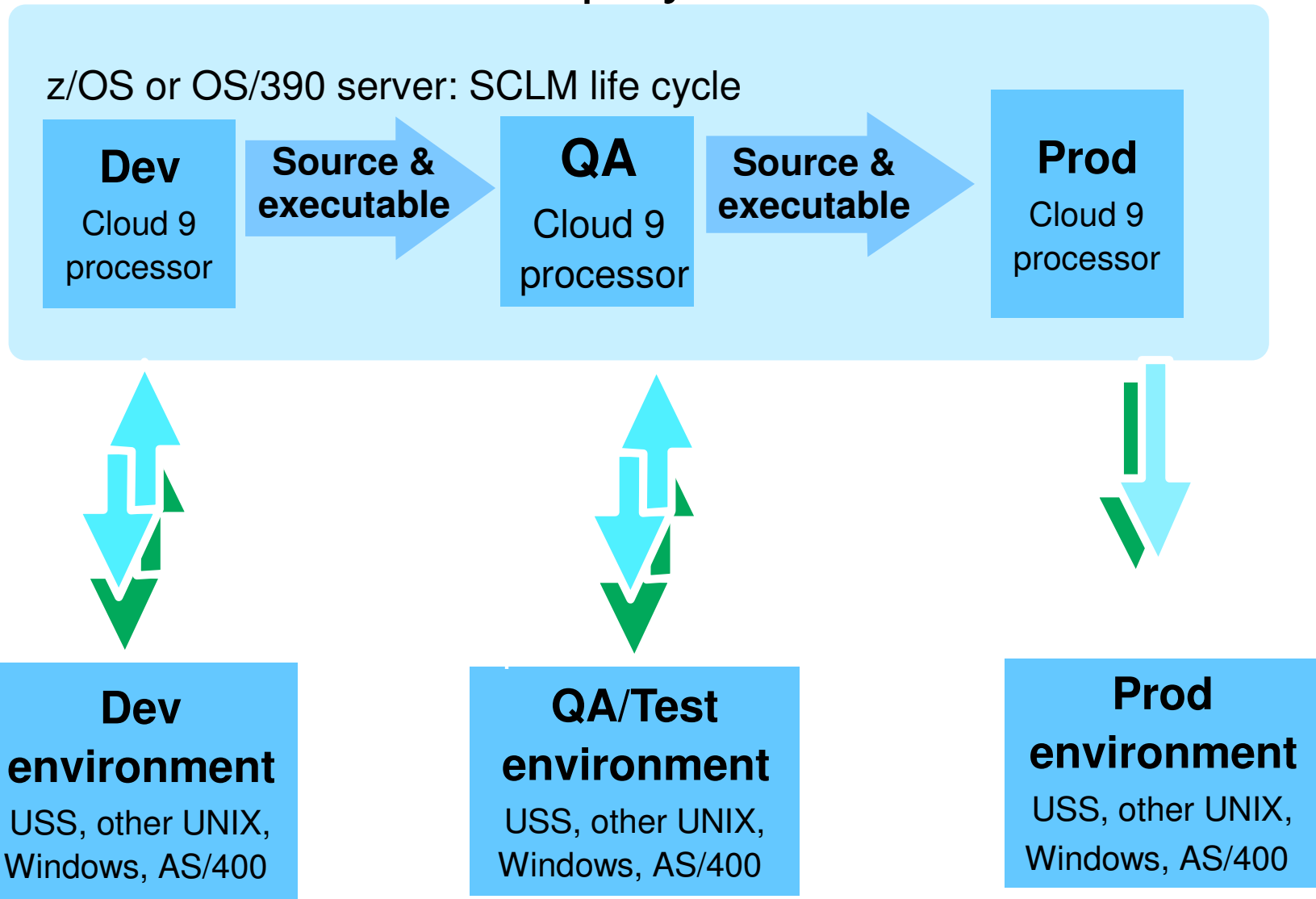
What is Breeze?



What is Cloud 9?

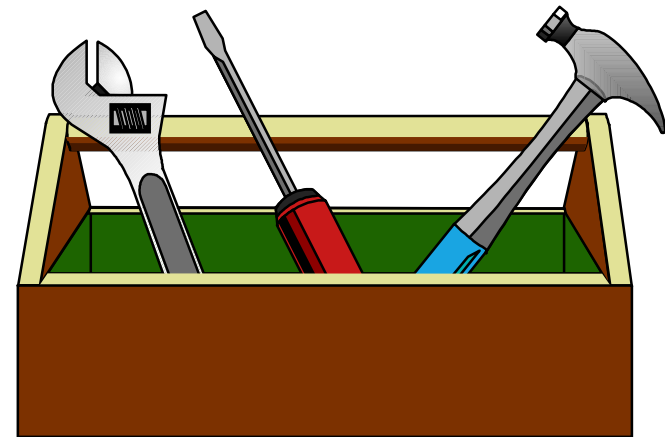


Cloud 9: Remote builds & deployment



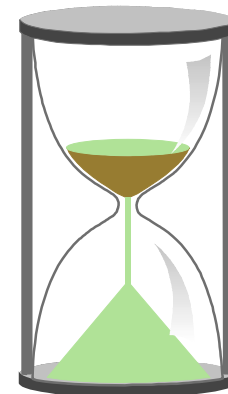
What does the Cloud 9 Java Toolkit Do?

- Via Cloud 9 / SCLM, automatically compiles Java on USS and non-S/390 platforms
- Uses Cloud 9 to store Java code and output classes in SCLM
- Invokes repeatable and automated build and promotion process from Cloud 9
- Provides long name translation
- Via Cloud 9, deploys compiled Java output classes to USS and non-S/390 platforms

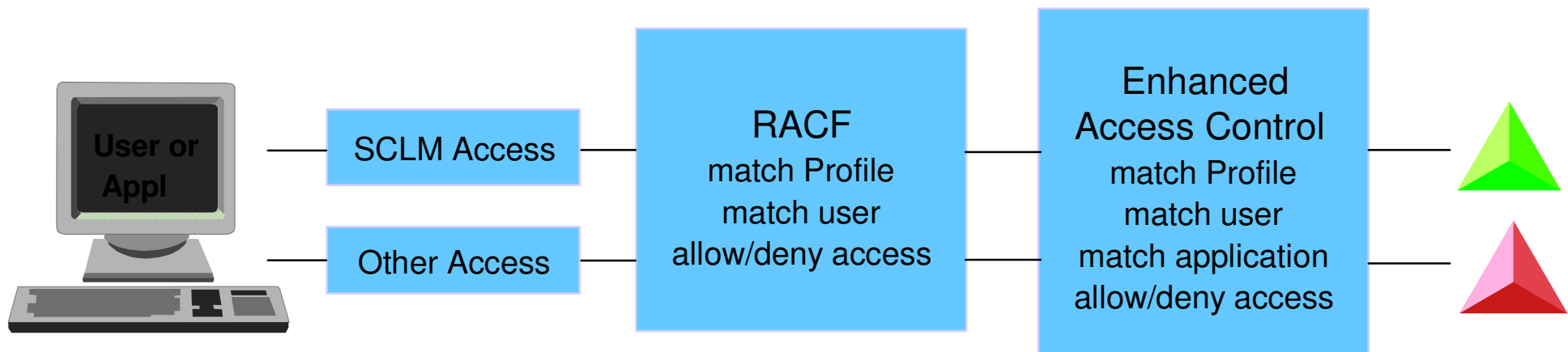


Cloud 9 PTF - VA/Java Integration via SCCI

- Productivity/Usability Enhancement
- Allows Java developers to access data stored in SCLM from within the VA Java IDE.
- Key Functions:
 - ▶ Add to version control
 - ▶ Check-in
 - ▶ Check-out
 - ▶ Launch Cloud 9



What is Enhanced Access Control?



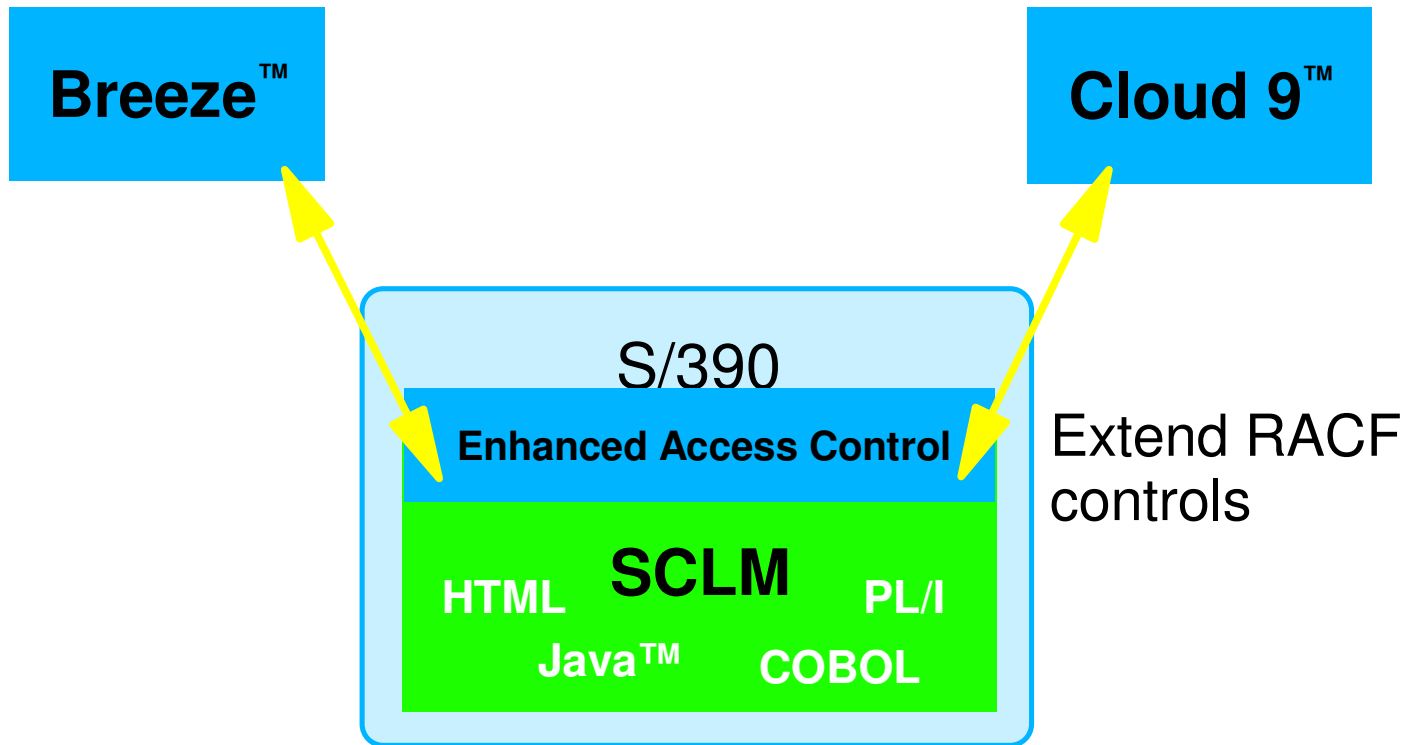
- Limit access to SCLM managed data by application
- Limit access to SCLM function by user

The SCLM Suite

Turbo charge SCLM to support long named objects

Approve packages over the Web

Perform SCLM functions over the Web

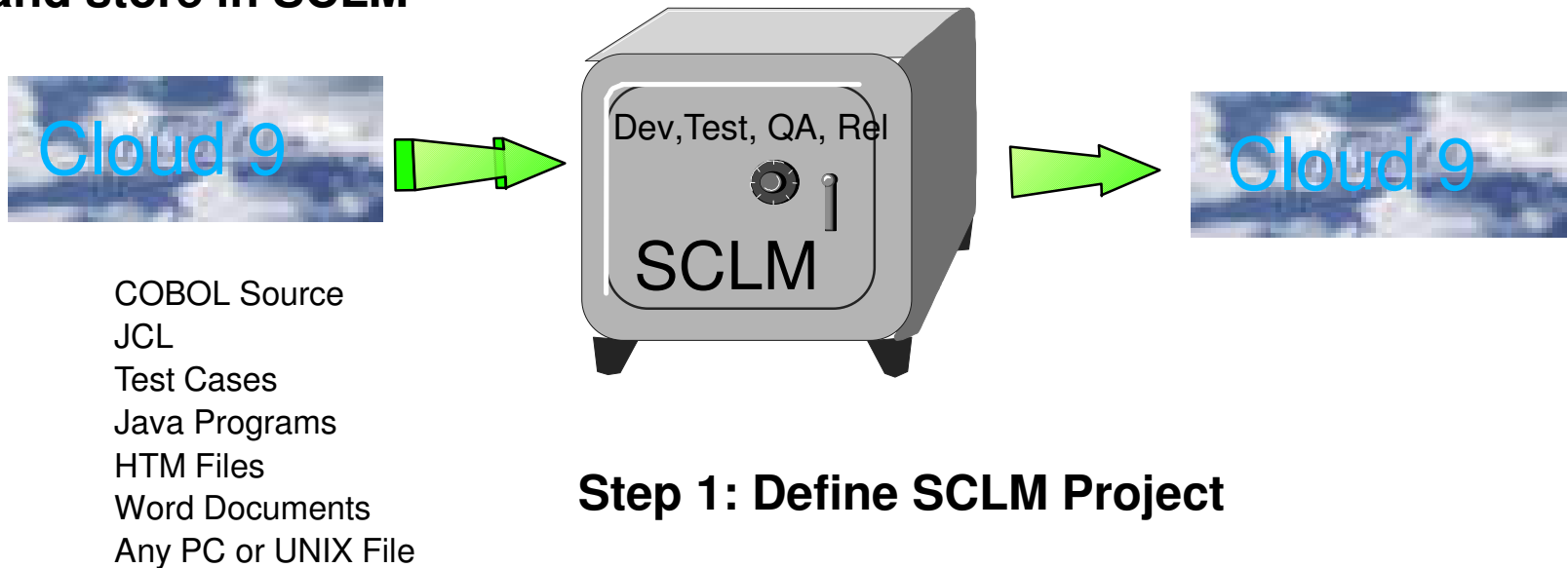


Software Configuration and Library Manager:
centralized, S/390-based SCM

Getting Started: Easy as 1, 2, 3!

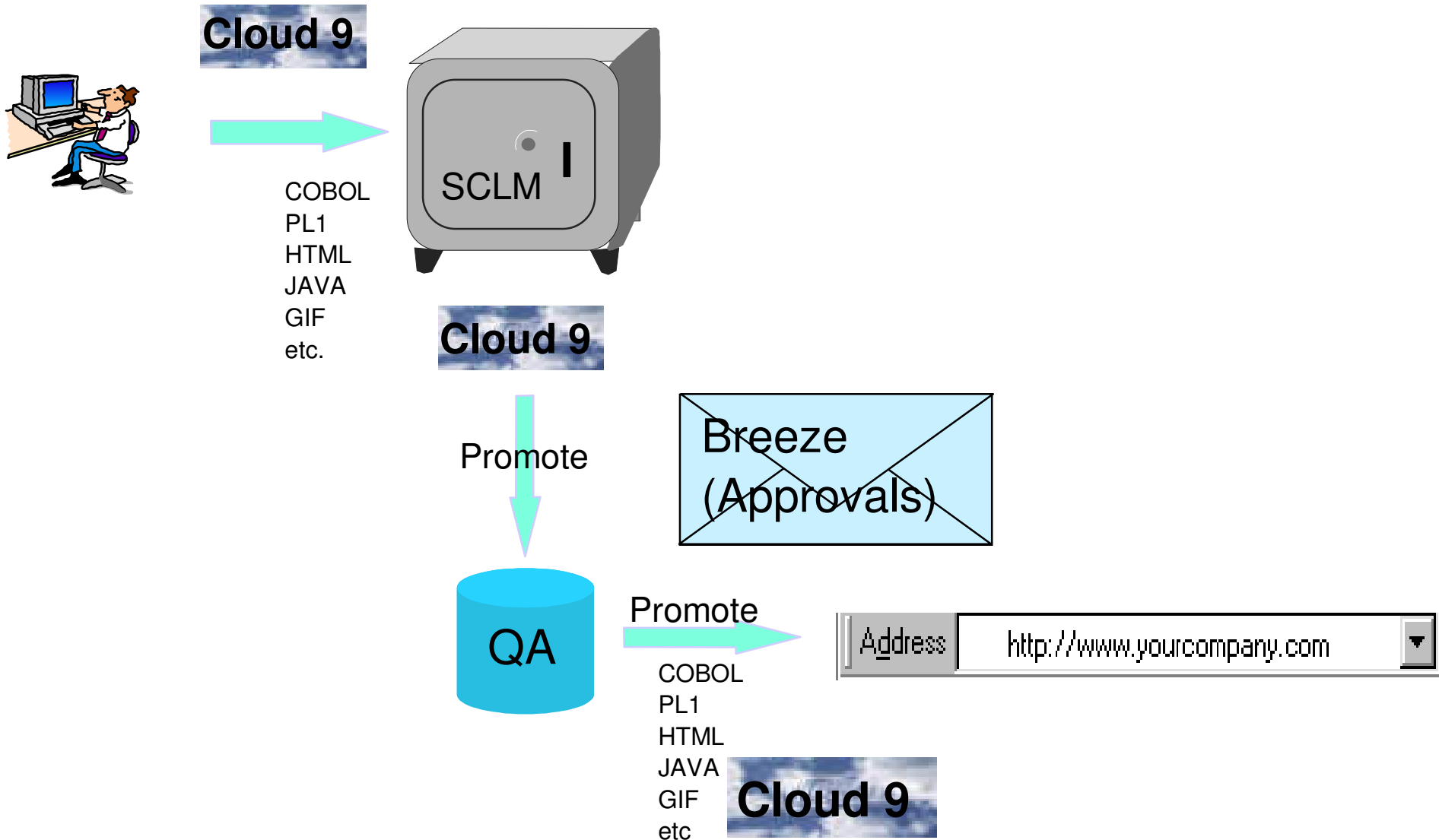
Step 2: Use Cloud 9 to select files and store in SCLM

Step 3: Start using the SCLM Suite



Three easy steps and you're there!

How the products integrate

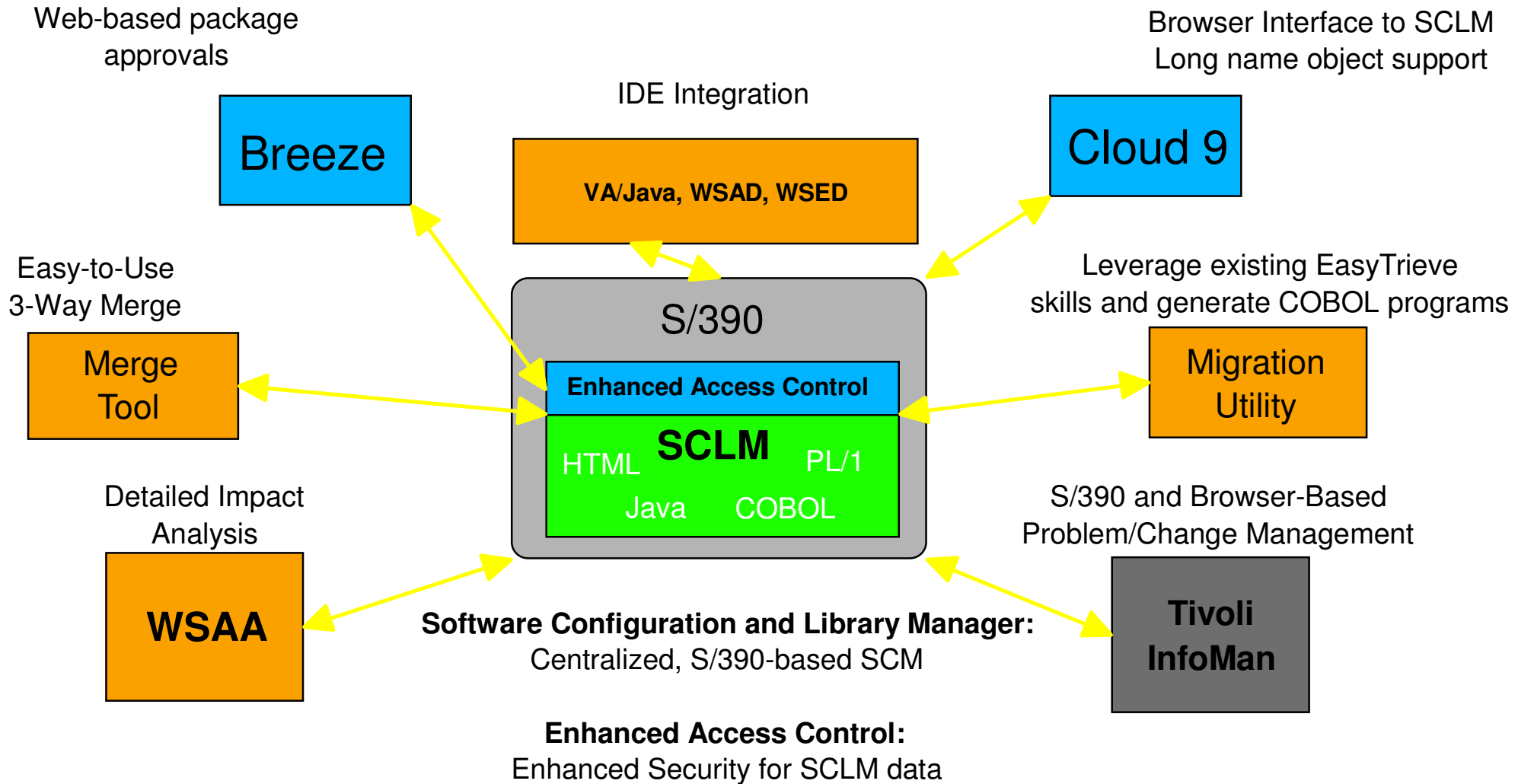


SCLM Suite Benefits

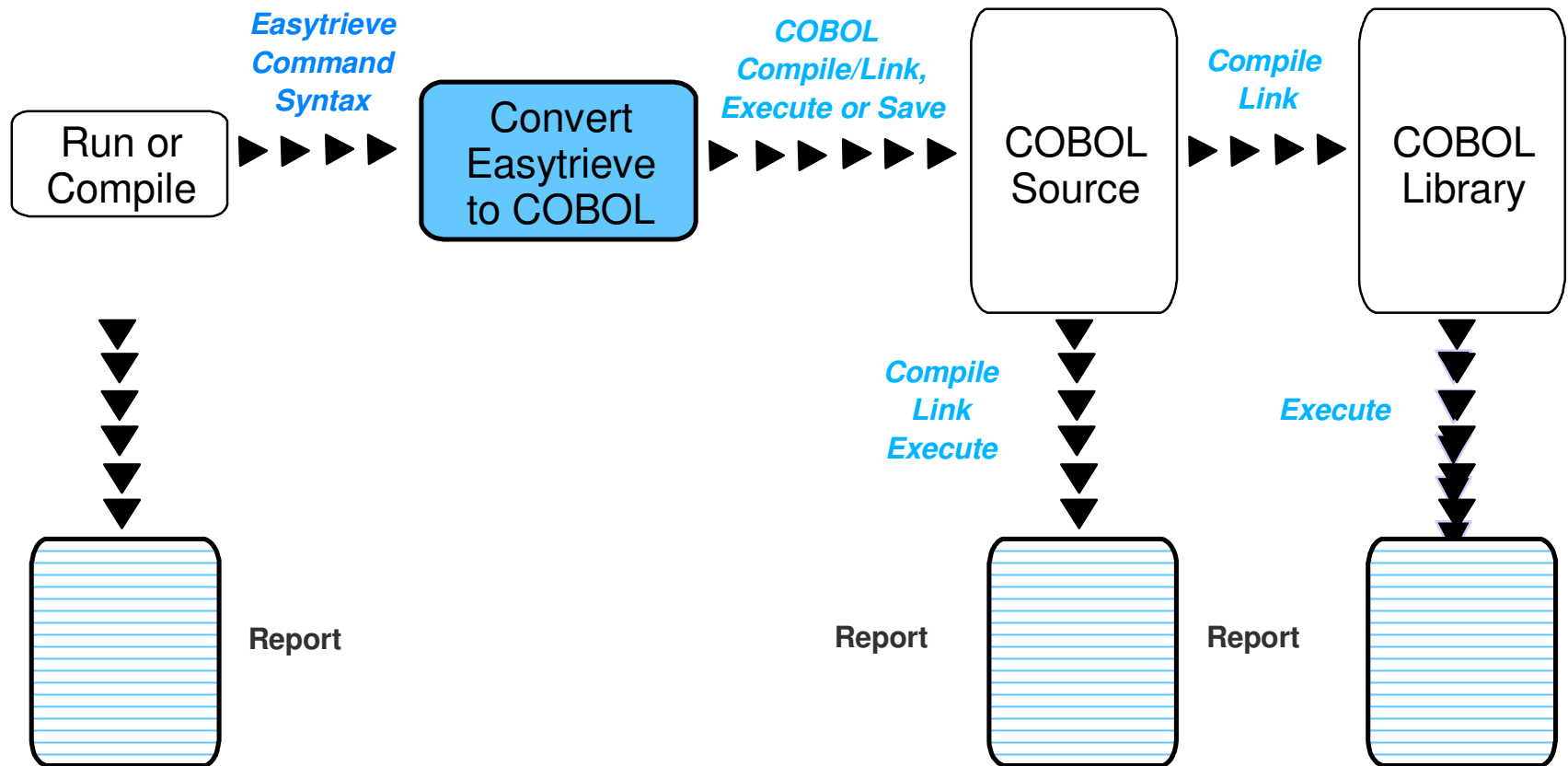
- Enhances usability:
 - ▶ Integrates traditional source code development processes with e-business and web applications development
 - ▶ Supports cross platform development
- Promote and deploy new e-business components with legacy components
- Industrial Strength Centralized OS/390 SCM control of all objects that are a part of e-business applications
- Invoke key SCLM functions from a web browser
- Integration
 - ▶ Problem Management (Tivoli® InfoMan)
 - ▶ Impact Analysis (WSAA)
 - ▶ IDE's (VA Java now, WSAD / WSED coming this year, Visual Basic®, Powerbuilder® via Services customization...)



SCLM Tool Integration



IBM Migration Utility for z/OS and OS/390

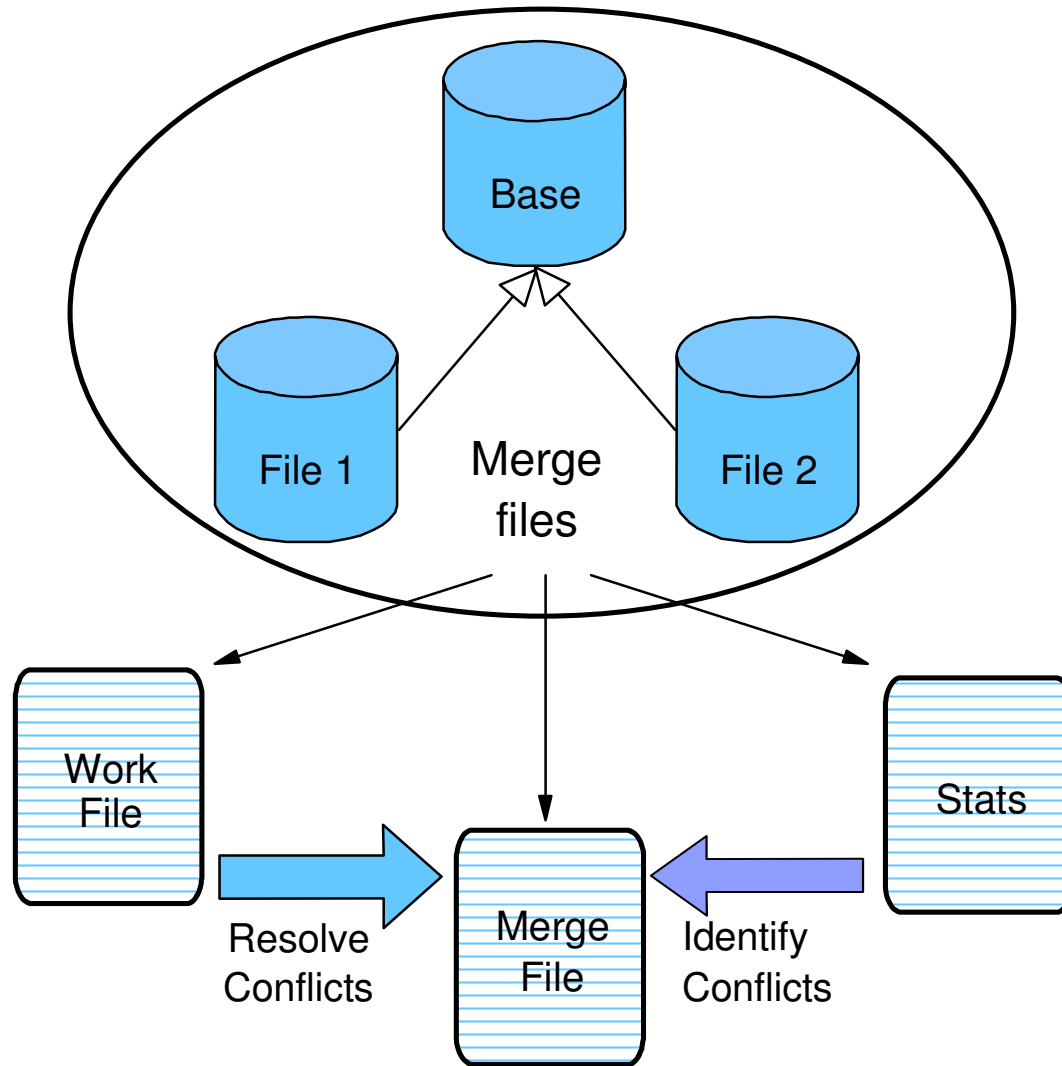


Migration Utility Benefits

- Allows users to create standard COBOL reports using Computer Associates'® Easytrieve® Plus language without requiring that the Easytrieve Plus product be installed
- Leverages existing Easytrieve Plus skills
 - ▶ continue to modify your Easytrieve Plus reports using Easytrieve Plus language and quickly generating new COBOL programs
- Provides ability to augment Easytrieve Plus logic with embedded COBOL subroutines and standard COBOL programming
- COBOL provides efficient IO handling and memory management and excellent performance in sorting and searching
- Allows accessibility to all COBOL debugging tools
- Enables porting of Easytrieve Plus applications to any platform with a supported COBOL compiler including AIX and OS/400



IBM Merge Tool for z/OS and OS/390



Merge Tool Benefits

- Provides easy to use ISPF-based 3-way merge facility
- Assists both project managers and application developers in effectively managing parallel or concurrent development
- Provides the functions necessary to identify, analyze and consolidate independently coded changes that affect the same source
- Allows developers to automatically merge up to three versions of source code
- Assists developers in identifying and resolving merge conflicts
- Provides statistics and relevant data needed by the project manager in order to analyze and size a consolidation effort

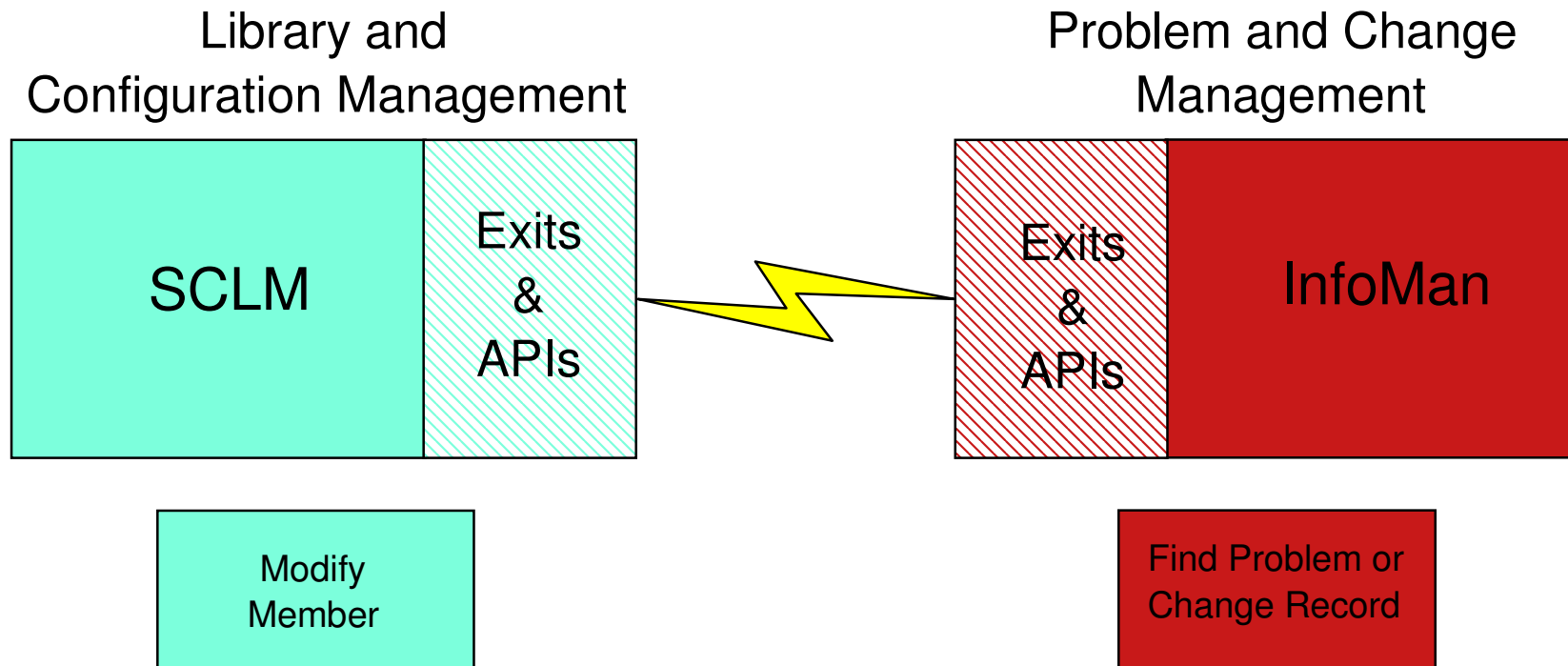


Tivoli InfoMan for z/OS Benefits

- Access to an integrated database containing problem, change, asset/configuration, and other enterprise information
- A way to quickly identify what's down and what action is being done to correct it.
- Historical information to measure mean time between failures allowing for action to be taken to provide a higher level of uninterrupted service.
- An information platform accessible via multiple methods, including traditional 3270 screens, Windows desktop applications, the WEB, customer applications, and tools.



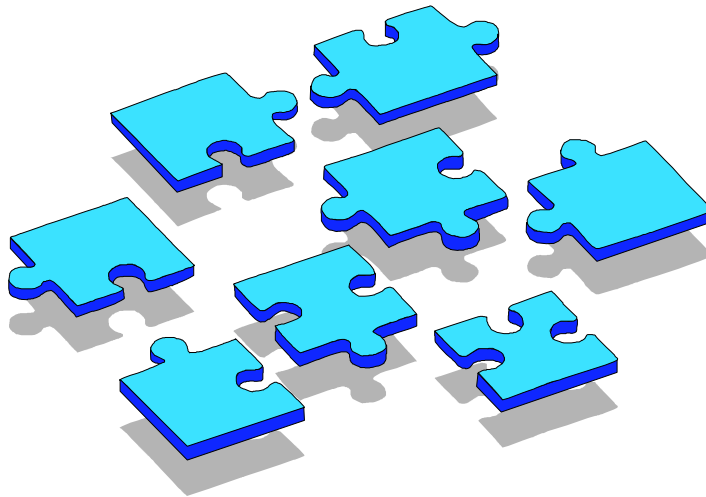
SCLM and Tivoli InfoMan for z/OS



- Current interface is written in REXX.
- Prevents an SCLM member from being edited and/or saved unless a valid INFO record exists.
- Additional interactions between the products are possible.
 - ✓ update parts list in INFO record on SCLM promote
 - ✓ initiate SCLM build or promote based on INFO status changes

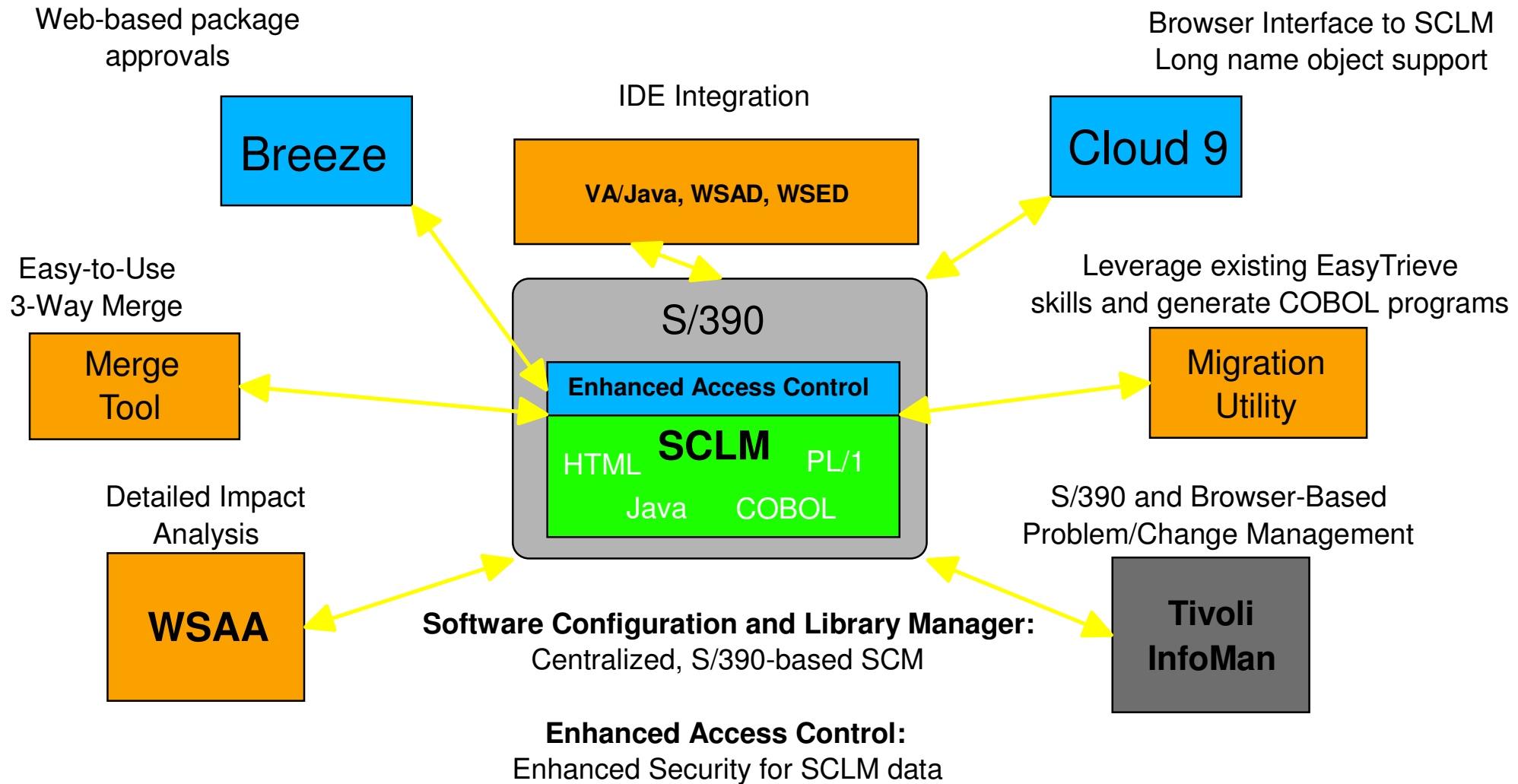


WebSphere Studio Asset Analyzer



Promotes application understanding: understand the components, structure, and business processes underlying an application

SCLM Tool Integration

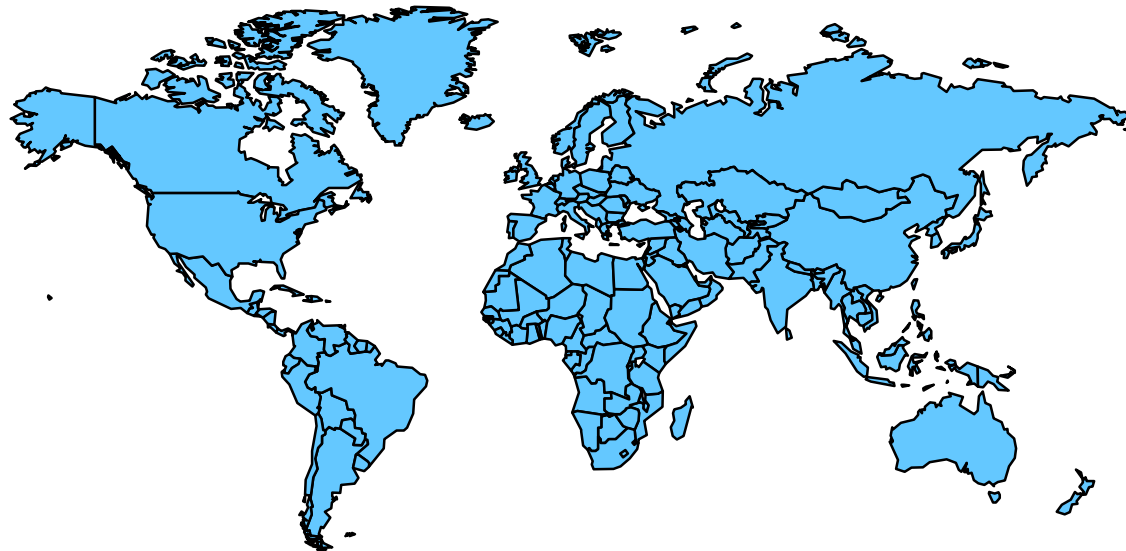


Past, Present, and Future

2000	2001	2002	2003
IBM OS/390 SCLM Suite, November 2000. Consists of SCLM, IBM Cloud 9 for SCLM and IBM Breeze for SCLM	IBM z/OS SCLM Suite Version 2, September 2001. New Java development toolkit and SDSF batch viewer.	IBM Migration Utility for z/OS and OS/390 (April 2002)	SCLM integration with WSED (Currently Available in WSED V5.0)
	Breeze Refresh, October 2001	IBM Merge Tool for z/OS and OS/390 (June 2002)	Cloud 9 enhancements: VA/Java integration via SCCI (currently available via PTF)
		SCLM enhancements: Package Backout, Version Viewer and Version History Browser (July 2002)	IBM Migration Utility Enhancements - Easier Setup - Fewer manual mods after migration - Improved Syntax handling - Improved DB2 Database handling - Tools and Services to Automate conversion (currently available via PTF)
		IBM Enhanced Access Control for SCLM for z/OS (October 2002)	IBM Cloud 9 and Breeze for Endeavor for z/OS PRPQs (North America Only) (currently available)
		Migration Utility enhancements: - VSAM keys - Record lengths (November 2002)	IBM Merge Tool enhancements (planned availability: 1H2003)
			Cloud 9 integration with WSAD and WSED (planned availability: 2H2003)
			Enhanced Access Control updates (planned availability: 2H2003)
			Breeze enhancements: - Enhanced User Interface - Package Seal (planned availability: 2H2003)
			SCLM Admin Workbench (planned availability: 2H2003)

IBM Services to get you started

- SCLM / SCLM Suite Services
 - ▶ Configuration
 - ▶ Implementation
 - ▶ Training
 - ▶ Quick Start Services



Useful information

- **SCLM Center of Competency:**
sclm@us.ibm.com
+1-919-486-1288
- **New Yahoo eGroup/discussion list at:**
groups.yahoo.com/group/SCLM
(click on the 'join this group' icon)
- **SCLM newsgroup** on news.software.ibm.com:
ibm.software.sclm
- **ISPF and SCLM web sites** at:
www.ibm.com/software/ad/ispf
www.ibm.com/software/ad/sclmsuite
- **SCLM redbooks** at:
www.redbooks.ibm.com
- **SHARE website** at: www.share.org



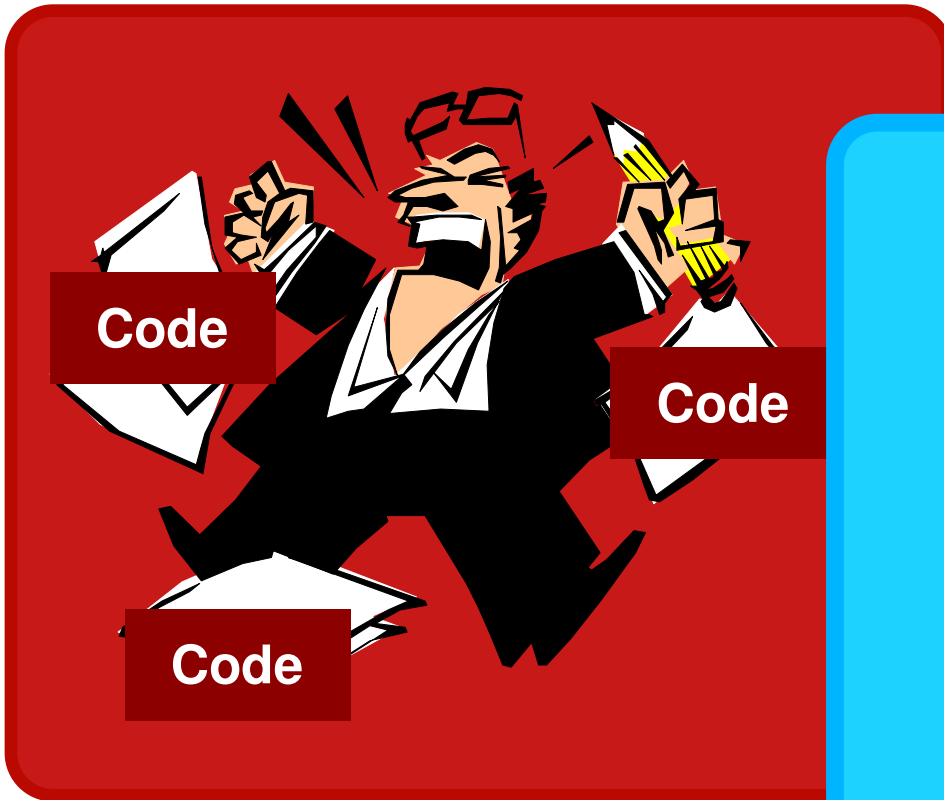
Helpful Contacts

- SCLM Suite Marketing
 - ▶ Bruce Villard +1-410-332-2375
- SCLM Suite Technical Sales
 - ▶ In the US:
 - Bjorn Houston +1-408-463-5872
 - Mike Larsen +1-714-438-5726
 - ▶ In EMEA and AP:
 - Anthony Lawrence +44-20-88185069
- SCLM Suite Services
 - ▶ Jackie Walker +1-813-356-3541
 - ▶ Peter C. Smith +1-919-254-7830



Conclusion

From chaos...



**...to control...
with the SCLM Suite!**



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