



# IBM Rational Team Concert

*Accelerate enterprise agile development  
and application lifecycle management (ALM) in  
heterogeneous environments*

Wilhelm Mild  
IT Architect  
IBM Deutschland

Stefan Schneider  
Q Group AG



Innovation for a smarter planet

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## Business needs software development that supports IT agility....

### Must Deliver:

- ✓ More business solutions
- ✓ More flexibility
- ✓ More quality
- ✓ More business value

**-yet-**

- ✓ Less risk
- ✓ Less costs
- ✓ Less or flat resources



**Effective software development promotes a delicate balance of resources, reducing costs while delivering more, higher-quality business solutions.**

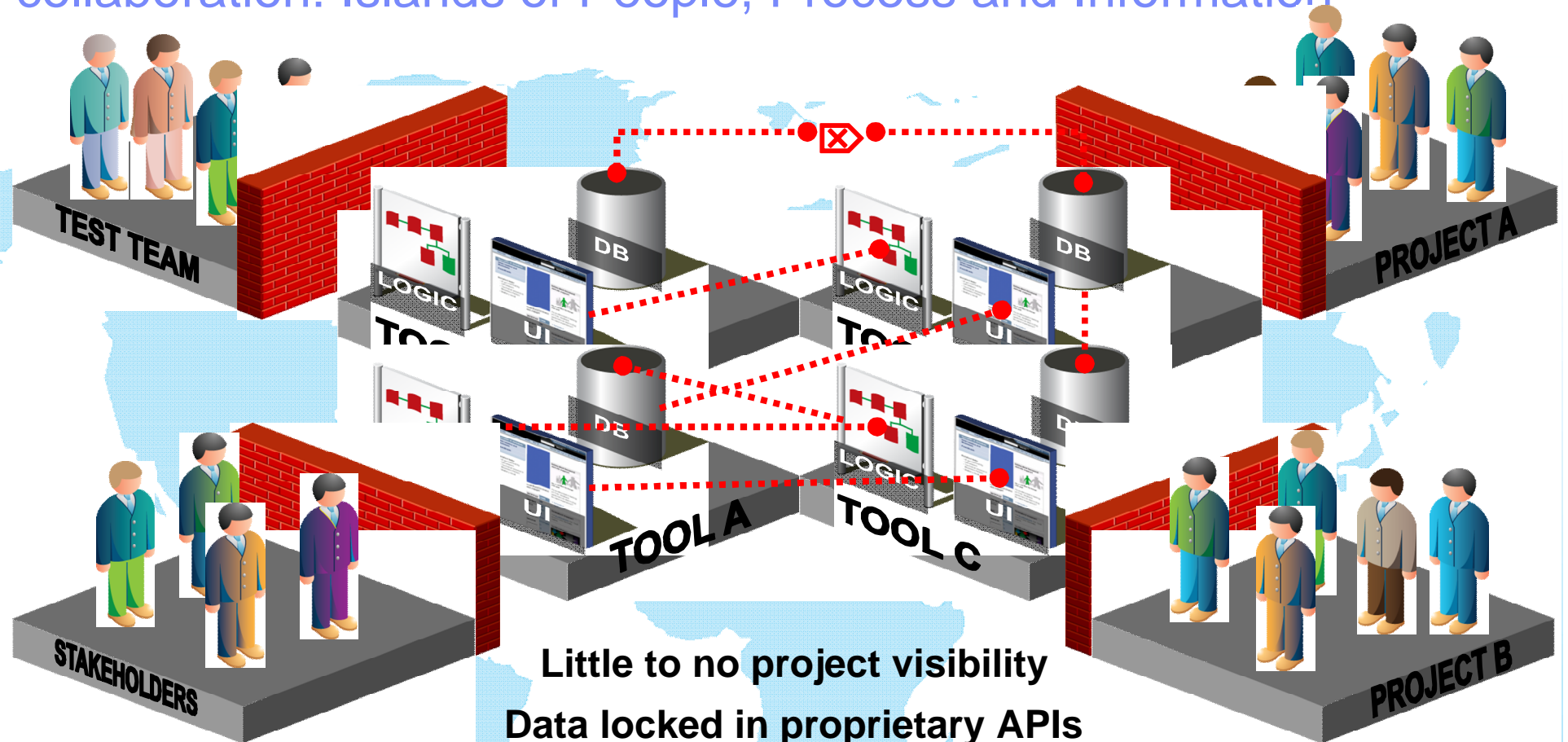


## Application Life-cycle Management Business Problems – In customers own words

- Wir entwickeln mit gleichen Tools wie in den letzten Jahrzehnten. Wir würden die manuellen Entwicklungs-prozeduren automatisieren.
  - ▶ “We do progress reporting the same way we've been doing it for 40 years. It's all manual: weekly status meetings, progress reports, demonstrations. We'd love to get test results from nightly builds posted somewhere instead of having to run people down to ask them whether things are working yet.” (Bank)
  
- Eine Beratungsfirma hat uns eine neue Entwicklungs-Methodologie vorgeschlagen, aber ein methodologie/process sollte in Tools verankert sein.
  - ▶ “We had a consulting company define a methodology for us. We still have it on a shelf somewhere. A process needs to live in the tools we use if it's ever going to be followed.” (Transportation Co.)
  
- Automatisierte ‘built’ prozesse würden pro Entwickler, täglich 1 Std ersparnis sein.
  - ▶ “Automating our build-deploy-test processes would probably save each of our developers about an hour a day.” (Financial services company)



# Traditional software delivery environments limit productive collaboration: Islands of People, Process and Information



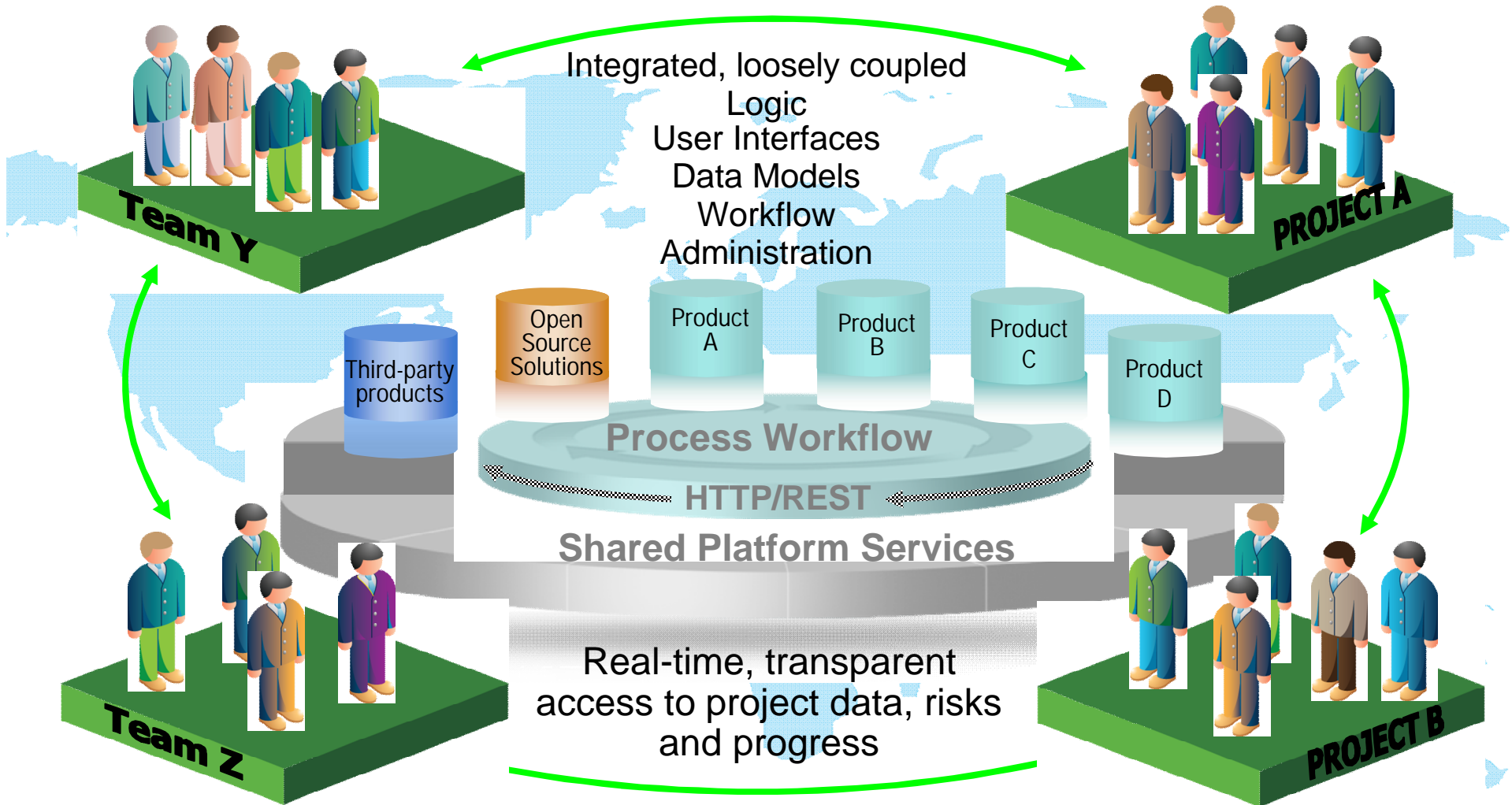
- Little to no project visibility**
- Data locked in proprietary APIs**
- Poor process and workflow integration**
- High maintenance and administration costs**
- Persistent functional, geographic and organizational silos**





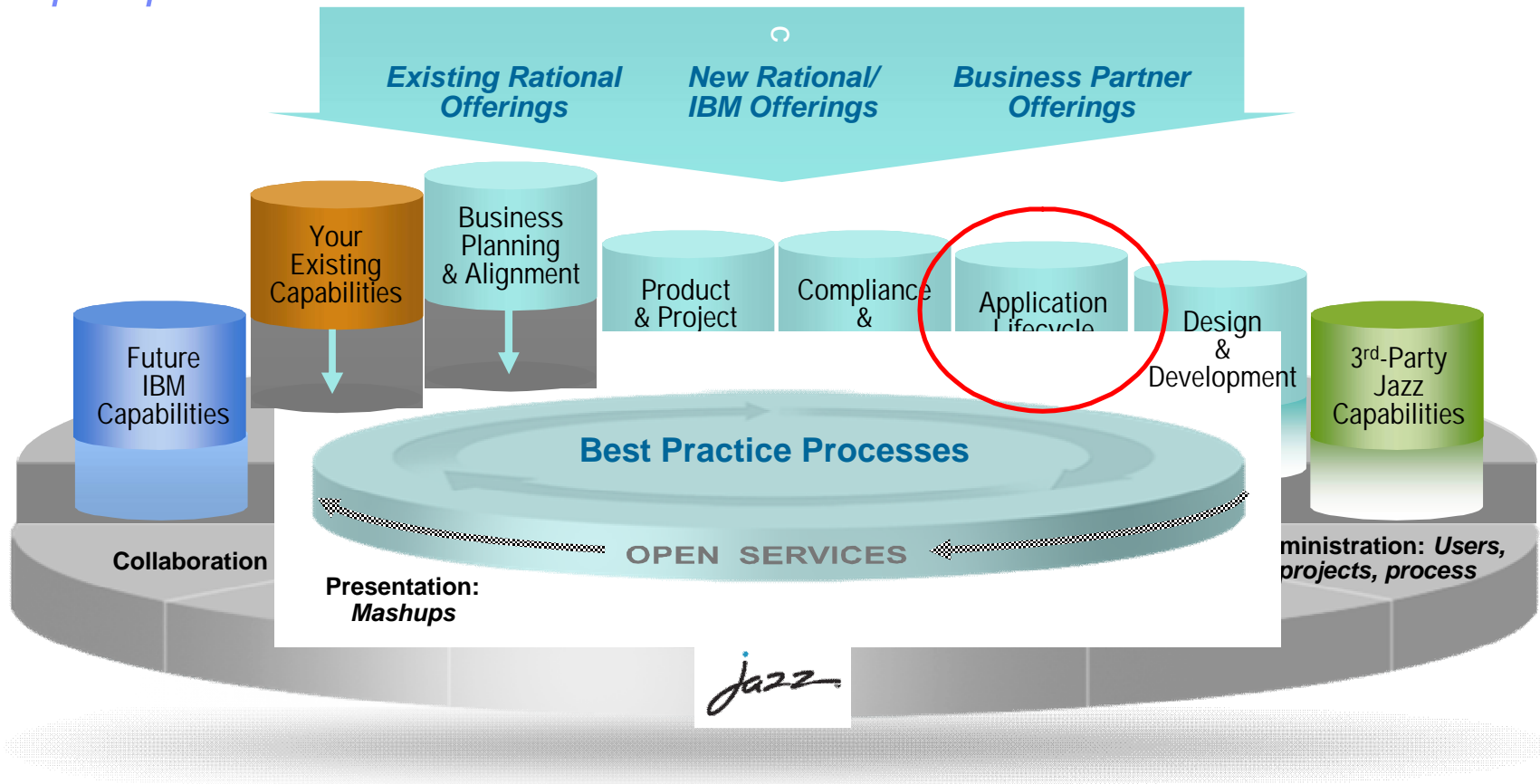
# Jazz:

A platform for development integration and collaboration



# Rational Team Concert (RTC) is based on Jazz

*An open platform with a shared set of services*



- A scalable, extensible team collaboration platform
- A community at Jazz.net, where you can see Jazz-based products built in the open
- An open architecture for lifecycle integration (OSLC - [www.open-services.net](http://www.open-services.net))



# Process awareness

*Making process executable and renewable*



**Process Architect**

**Step 1:  
Customize**



**Project Manager**

**Step 2:  
Enact**

Variant #1

**Scrum**

Variant #2

**Iterative**

Variant #3

**Waterfall**

**Project A**

**Agile**

Product Owner

Scrum Master

Team Member

**Project B**

**Iterative**

Professional Engineer

**Project C**

**Waterfall**

Analyst

Developer

Quality Professional

Release Engineer

Work Items | Plans | Source Control | Build

Welcome to Work Items

Queries

- My Queries
- Shared Queries

Create Query

- New Query

Create Work Item

- Defect
- Task
- Story
- Epic
- Track Build Item
- Impediment
- Adoption Item
- Retrospective

Create Work Item Set

- Create from Template

Scrum agile template

Work Items | Plans | Source Control | Builds

Welcome to Work Items

Queries

- My Queries
- Shared Queries

Create Query

- Create Query

Create Work Item

- Defect
- Task
- Project Change Request
- Issue
- Business Need
- Risk
- Risk Action
- Milestone

Create Work Item Set

- Create From Template...

Formal project mgt template



# Resource Allocation and Scheduling



## Resource Allocation

- Search and add a resource to your plan based on availability
- You can now allocate ranges of availability to a project or team.

The screenshot shows the 'Phase Plan' interface with a 'Resources' tab selected. It displays resource allocation for Heather Fraser-Dube and Jean-Michel Lemie. An 'Add Users' dialog box is open, showing search criteria for users, including start and end dates and hours required. The dialog also shows availability results for Andrew Hoo, with 80.00 available hours.

### Work Allocations

Associate resources to teams and timelines:

Team	Allocation	Allocation Dates	Actions
Agile Project		(No Date Restriction)	
Main Development *	16 %	(No Date Restriction)	
Analysis		Oct 11, 2010 - Nov 26, 2010	
Main Development	5 - 16 %	Oct 11, 2010 - Nov 26, 2010	
Allocation	16 %	Oct 11, 2010 - Nov 15, 2010	
Allocation *	5 %	Nov 15, 2010 - Nov 26, 2010	

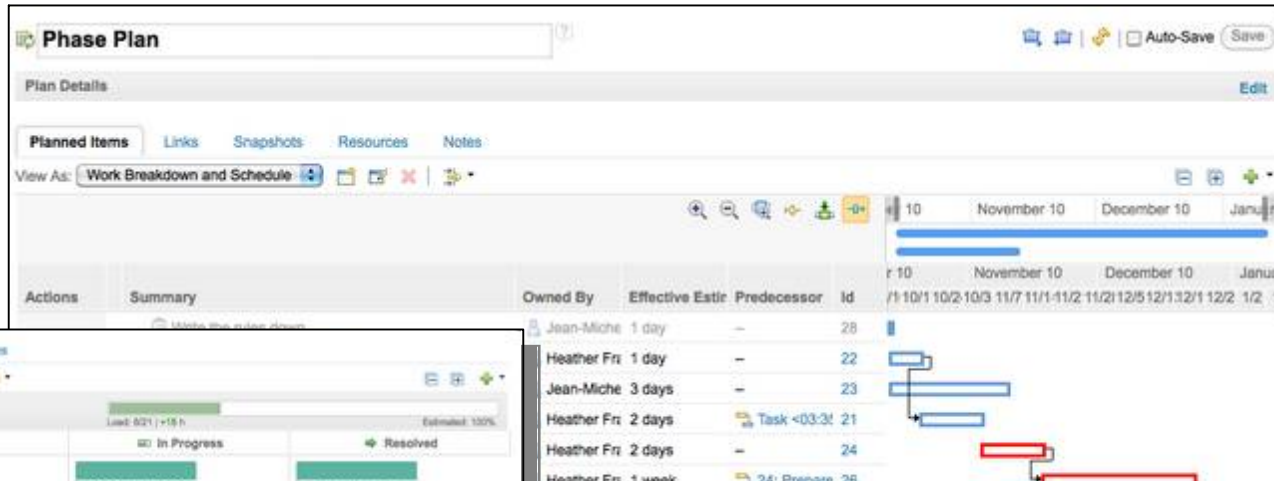




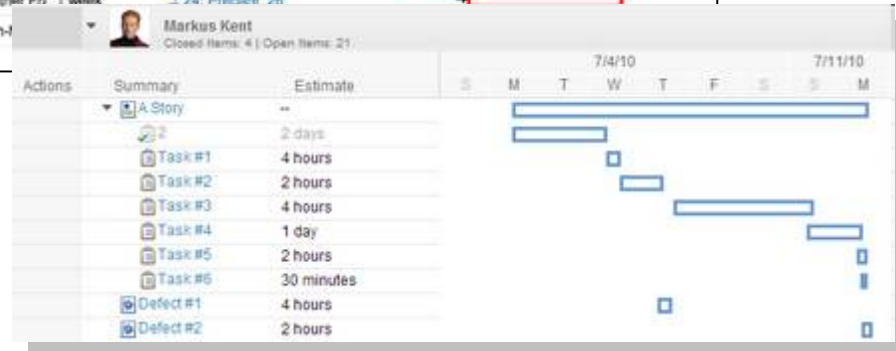
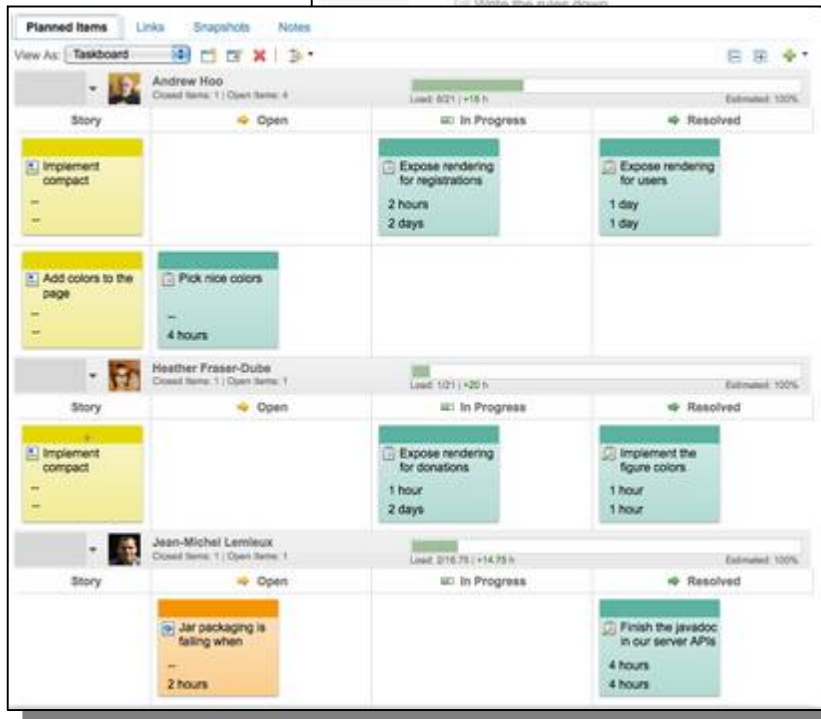
# Provide both agile and traditional views on a plan



## Gantt charts



## Taskboards



## Roadmap charts

*Support any planning method*  
*Enable success w/ transparency*





## Automated dashboards

- Role based dashboards - Personal, Team, Project dashboards
- Dashboards populated with data from across the silos
- Review status on-line – Stay informed – Automated Project Status w/o having to ask.

**Personal Dashboard**

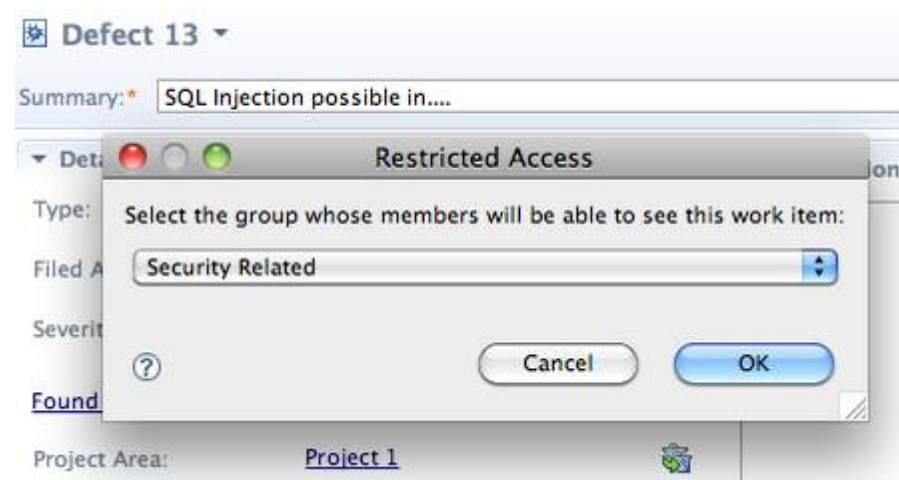
**Team Dashboard**



## Enhanced Access Control for Work Items



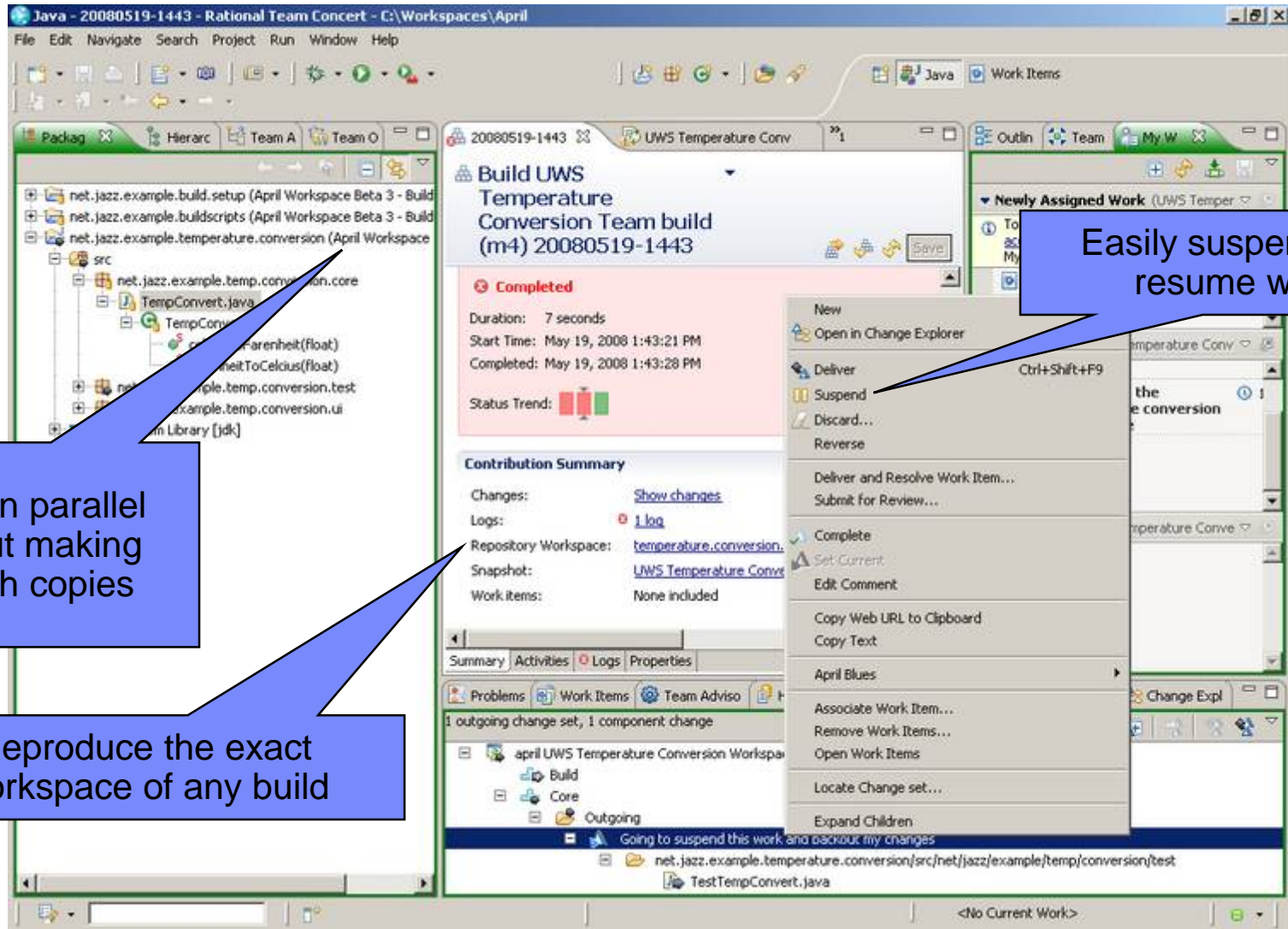
- Set the project area governing read access on a per work item basis. This project area is independent of the project area where the work item was created.



- Depending on how often individual read access has to be configured, you can use the action in the Work Item Editor header or configure a presentation that exposes the "Restricted Access" attribute right within the editors. Queries and bulk modification are also supported.



# Advanced source code management



Easily suspend and resume work

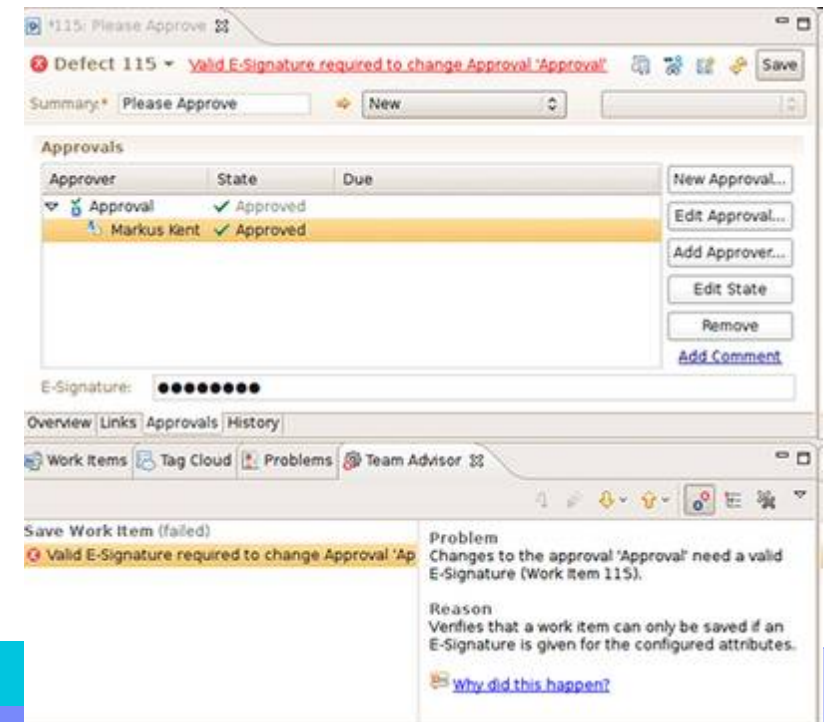
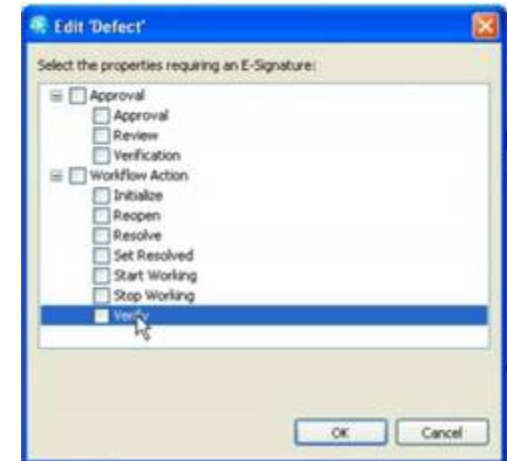
Work in parallel without making branch copies

Reproduce the exact workspace of any build



# Govern change-mgmt

- Establish and enforce approval and review checkpoints in your change workflow
- Require approvals and reviews before a workflow state change
  - ▶ Example: Rejecting a submitted workitem, moving a defect from submitted to planned, moving an enhancement from resolved to implemented
- Establish multiple approvals and reviews integrating comments and discussion
- Require an electronic signature when changing the state
  - ▶ Example: As part of an approval, when moving an enhancement or defect from submitted to rejected or accepted.





# Transparency and Status for Everyone

*Every stakeholder knows project status without having to ask*

**Jazz Project Description**

Process enabled team collaboration platform

The goal of the Jazz project is to build a scalable, extensible team collaboration platform for seamlessly integrating tasks across the software lifecycle. The new technology is called the Jazz Platform. The Jazz project is defining the overall architecture of the Jazz Platform, and building an initial set of Jazz components that plug in to the Jazz Platform.

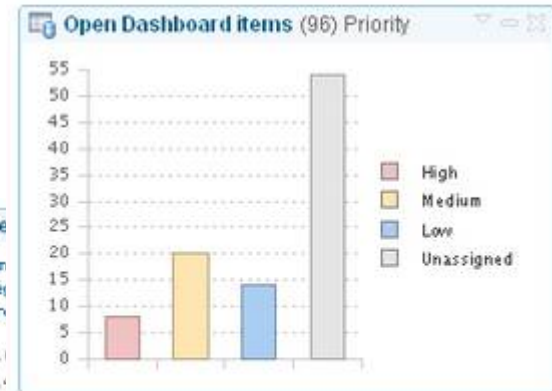
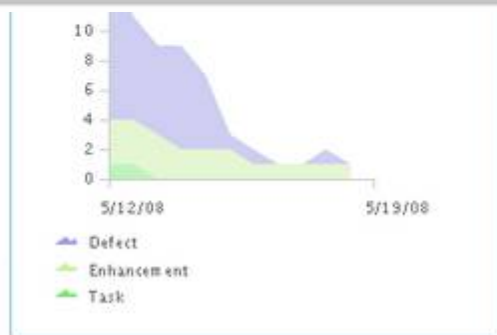
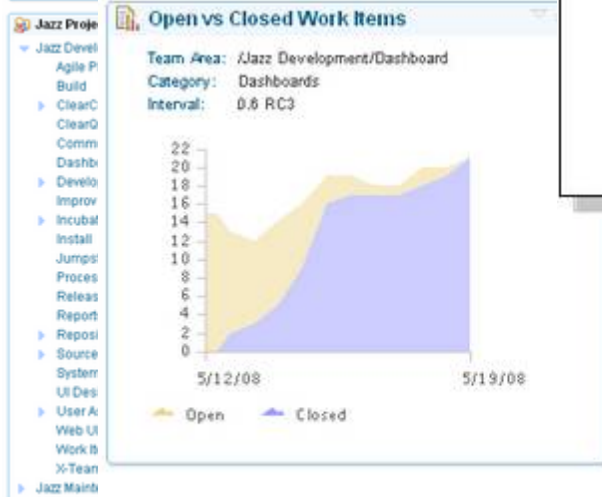
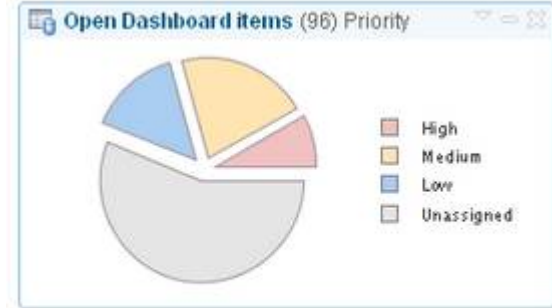
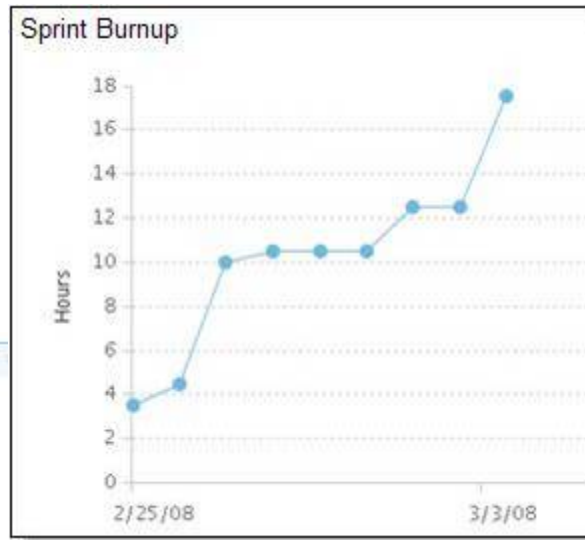
The work in the Jazz project is divided into development work and maintenance work. Development work produces a consecutive line of releases. Maintenance work produces bug fix releases of the released produced by the development work.

Development as well as maintenance work is overseen by the PMC. The team members listed in this project area constitute the PMC.

**Jazz Project Members (11)**

CIQ Connector Account	connector
Dejan Olozić	dashboardadmin
Erich Gamma	dashboardadmin, projectadmin, PMC, contributor
Jean-Michel Lemieux	dashboardadmin, projectadmin, PMC, contributor
John Vasta	connectoradmin
Kai-Uwe Maetzel	PMC, contributor
Kevin Haaland	PMC, contributor
Kim Moir	projectadmin
Peter Klenk	PMC, contributor
Scott Rich	PMC, contributor

Page 1 of 2



**Open Dashboard items (96) Priority**

High(8) Medium(20) Low(14)  
**Unassigned(54)**

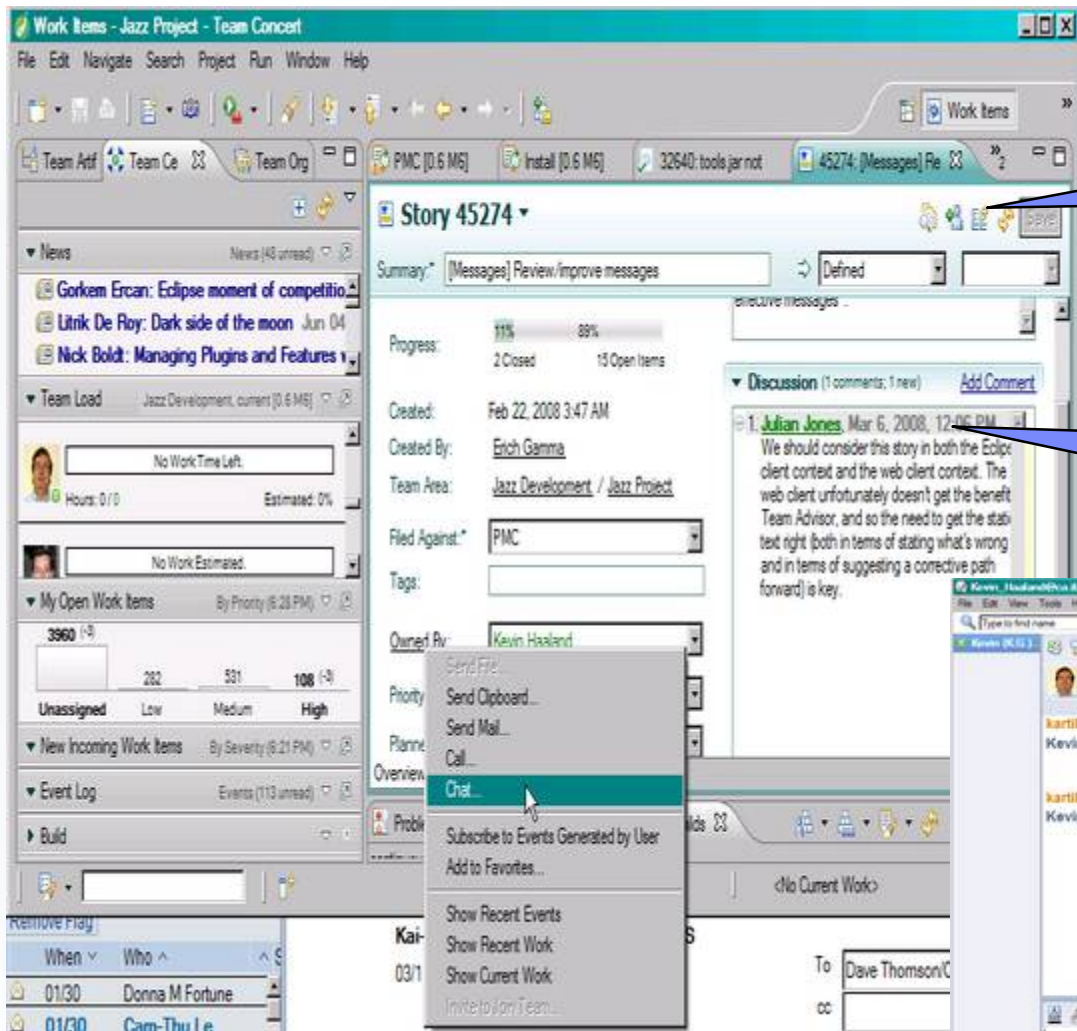
**Open Dashboard items (96) Priority**

Priority	Count
High	8
Medium	20
Low	14
Unassigned	54





# Collaborate in real-time and in context of project work - maximize progress



## Avoid Duplication

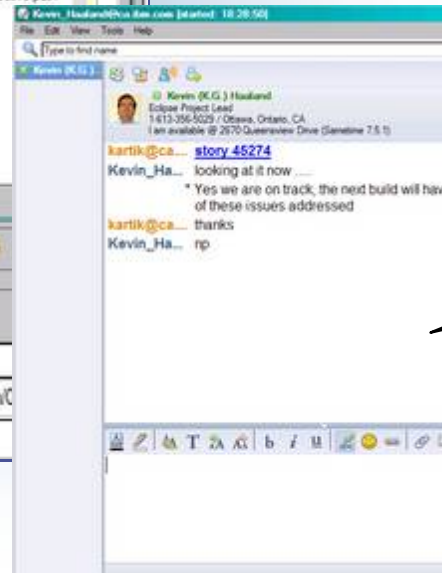
- Find potential duplicates
- Subscribe team members
- Move / Copy work between projects

## Team Awareness

- Shows team members and their online status
- Discussions kept with work for all time

## Change Awareness

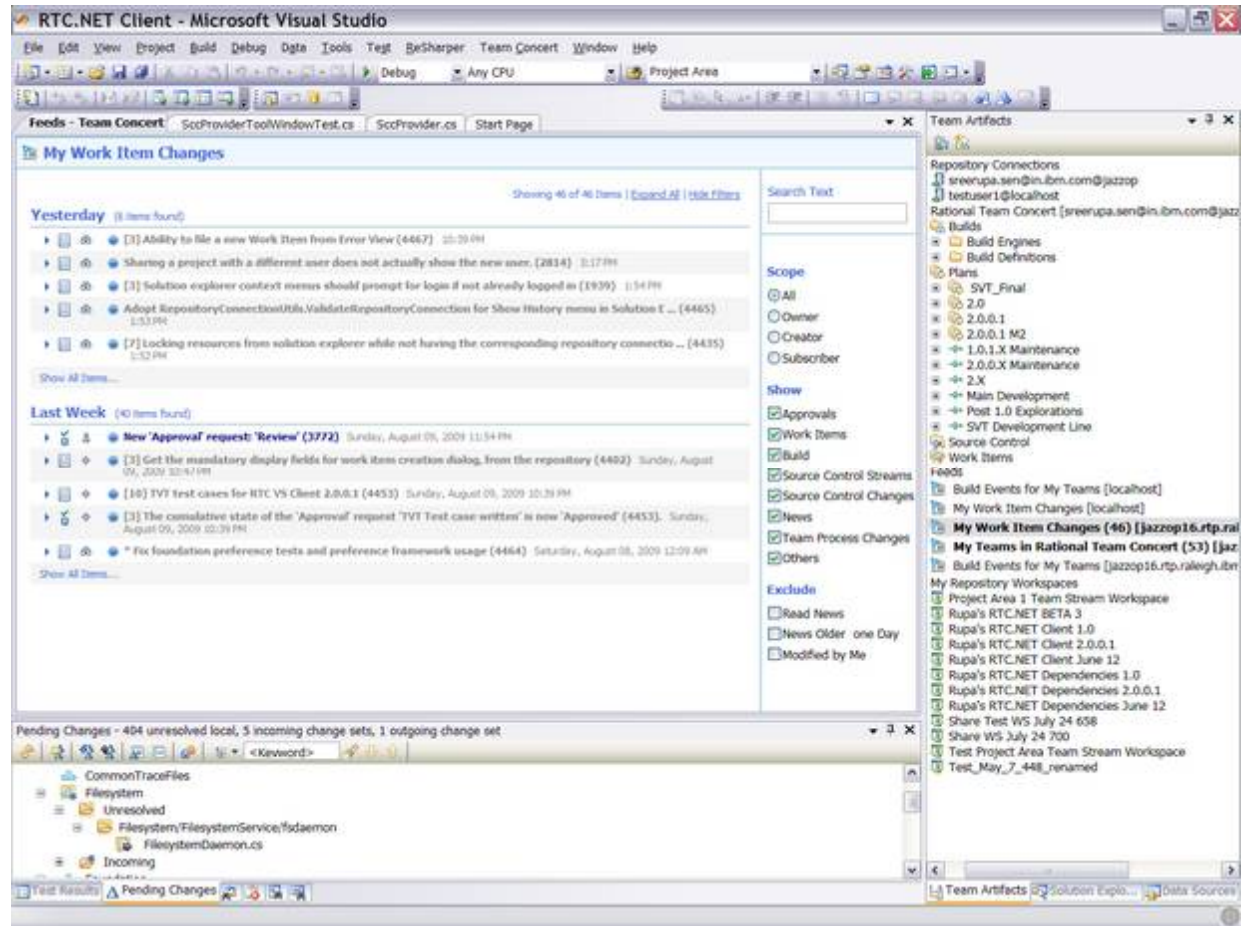
- Automatically links to changes if mentioned in chat
- Drag and drop any work item or query into chat



**Markus Kent mentioned you in: JUnit4 should detect and report if it cannot invoke a method (38)**

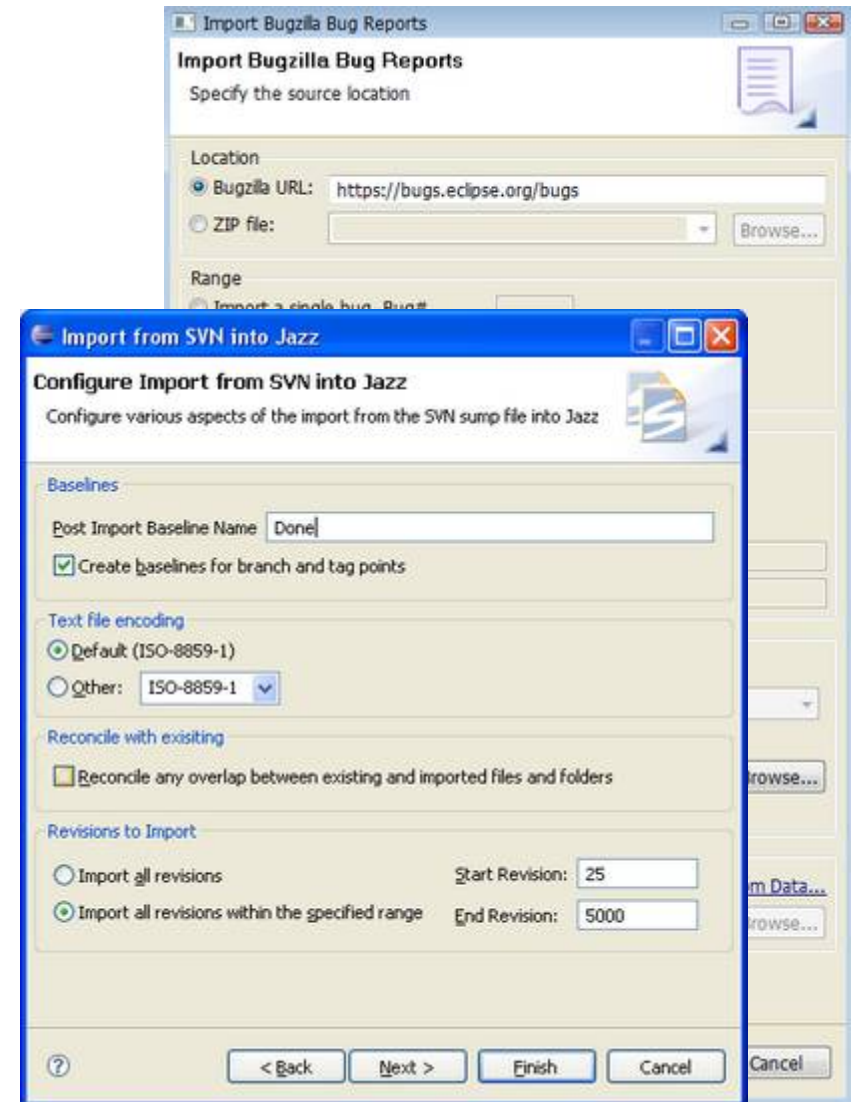
## Provide transparency and focus to what matters to you

- Create feeds for
  - ▶ work items, queries
  - ▶ builds, build definitions
  - ▶ team events
- A consolidated view of events in your team area/project area
- Feeds are available in both the Visual Studio and Eclipse IDE
- You can customize feeds by filtering



## RTC works with your existing tools

- Easily import Bugzilla, Jira\*, or any other change tracking system with CSV file support into RTC Work Items
- Easily import Subversion and CVS repositories into RTC SCM
- Importers also available for ClearCase / ClearQuest for those moving to RTC
- Connectors available to provide dynamic integrations with Subversion, ClearCase, ClearQuest, Synergy, Change





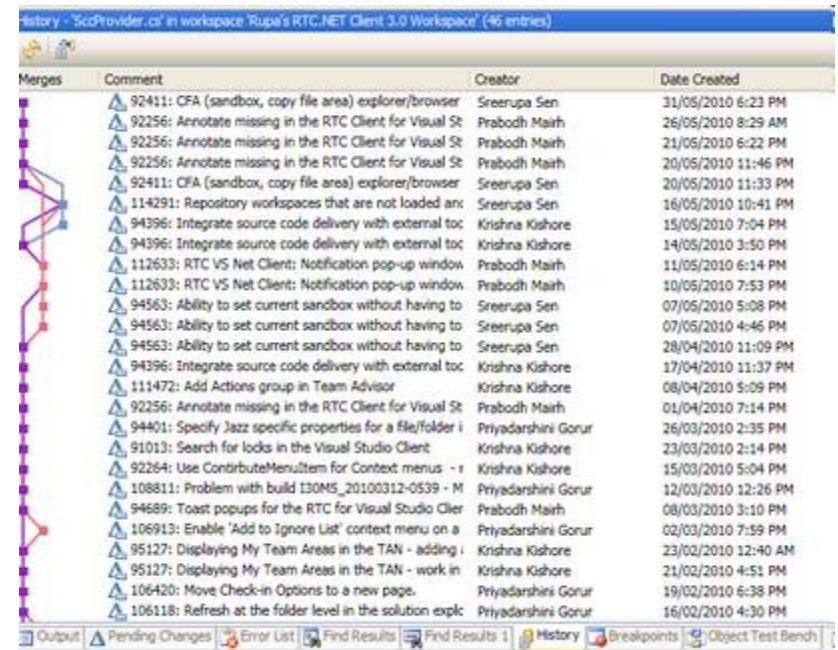


# Enhanced RTC Client for Microsoft Visual Studio IDE

- Team Advisor Support
  - ▶ Pre-built rules – Static Analysis FxCop
- Rich History with Visual Merge



**Team Advisor Support – with Guidance**

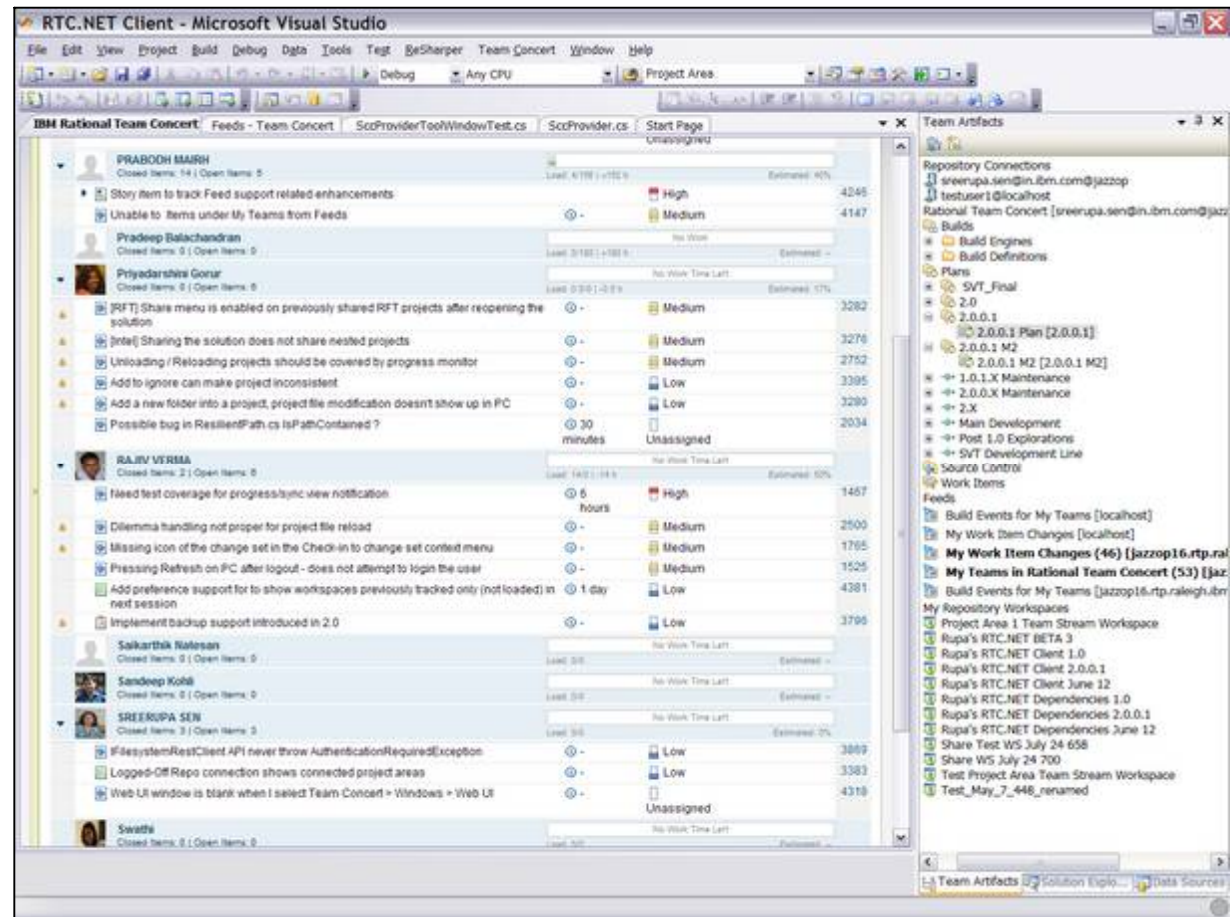


**Rich history view in VS client (Merge info displayed)**



# Visual Studio: Agile Planning from inside the IDE!

- Visual Studio users
  - ▶ Access project plans from within the IDE
  - ▶ Create/update plans





## Open Services for Lifecycle Collaboration (OSLC)



### Open Services for Lifecycle Collaboration

Open interfaces. Open possibilities.

*An industry initiative  
for making it easier to use  
software delivery tools in  
combination.*

Barriers to sharing resources  
across the software lifecycle

- ▶ Multiple vendors, open source projects, and in-house tools
- ▶ Private vocabularies, formats and stores
- ▶ Entanglement of tools and data

▶ **The Open Services initiative is**

- **Building** a community of vendors, open source projects, integrators and IT teams, at **open-services.net**
- **Creating** public specifications of resources and services, like change requests, test cases, defects, requirements and user stories
- **Delivering** loosely coupled resource formats and services with “just enough” standardization

SIEMENS

dbMAESTRO



iTKO LISA™

ascendant  
TECHNOLOGY



BSD GROUP  
Better Software Development

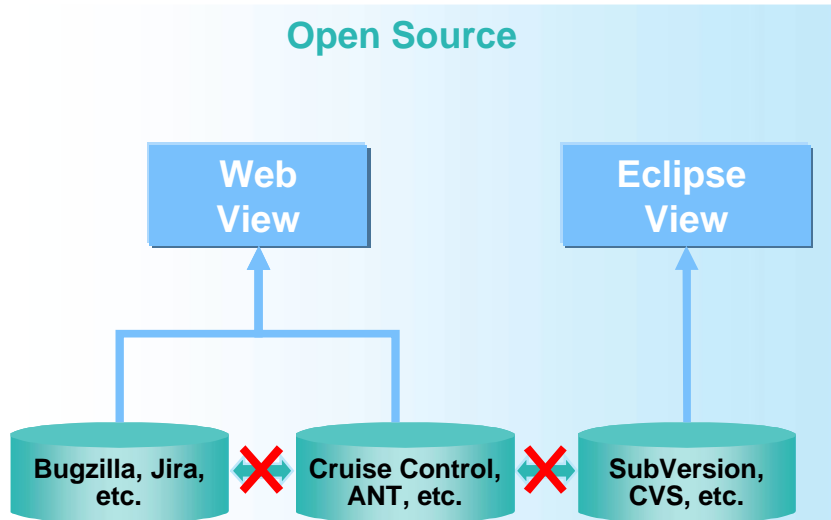


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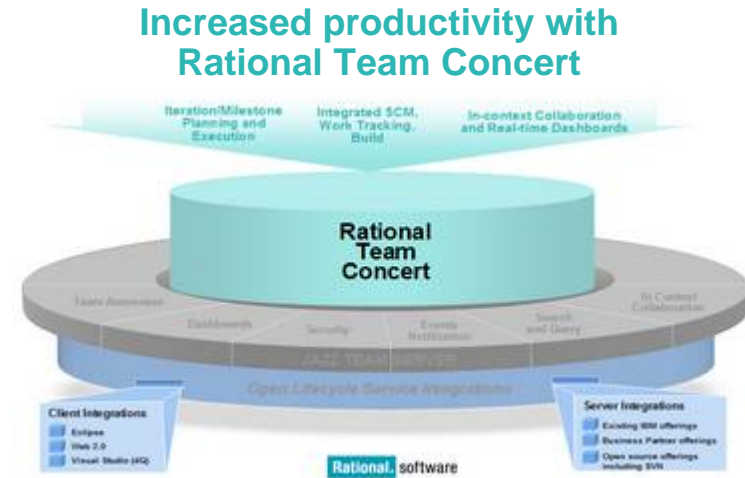
# Open Source vs. Team Concert

*Cut administration costs and increase productivity with Team Concert*



## Point Solutions for individual productivity

- Significant costs to maintain and administer federated databases
- No concept of project, teams or schedules
- No single, consolidated view into project status and health
- SCM, work items, build functionality unaware of each other providing little to no insight into relationships between artifacts



## Fully integrated collaborative application lifecycle management solution

- ✓ Designed for agile and distributed teams
- ✓ Fully aware of projects, team process, team composition, who's doing what and by when, in-context collaboration with instant messaging discussions, discussion threads kept with work items
- ✓ All-in-one ALM solution for the core development team with planning, SCM, work items, workflow, build management, dashboards and reporting fully integrated
- ✓ Single download package, easy to install and get started, minimal administration, easy startup of projects, onboarding and offboarding of team members quickly



# jazz.net

*Creating a higher-fidelity connection to our customers*

**Suppose we did our development out on the Internet?**

Home About Jazz Roles Projects Downloads Forums Library Development Community

**jazz**  
COMMUNITY SITE

We're building a new generation of products to make software and systems development more collaborative, productive, and enjoyable.

**Rational Team Concert 3.0 is here!**  
Any plan, any server, any process! With a single release for all platforms, including z/OS and Power, new client-based pricing, and flexible server deployment options, you can easily mix and match licenses to suit your environment. Free for up to ten developers!

[What's new in 3.0? Read our blog >](#)  
[Learn about Rational Team Concert >](#)  
[Download it now! >](#)

**Jazz Team Blog**

**Rational Requirements Composer Beta 2a: A big step forward**  
By Daniel Mouf Fri, 10 Dec 2010  
The latest beta of Rational Requirements Composer (RRC) demonstrates significant progress in our plans to deliver requirements definition and management ... [More >](#)

**What's New in Rational Team Concert 3.0: Part V – Work Item Enhancements**  
By Benjamin Pasero Fri, 03 Dec 2010  
Rational Team Concert 3.0 is now available. Visit the RTC project page to learn more and get the highlights of ... [More >](#)

**Rational Team Concert 3.0 released**  
By Rolf Nelson Tue, 23 Nov 2010  
We are pleased to announce the availability of Rational Team Concert 3.0, and invite you to download it and enjoy ... [More >](#)

**Learn about Jazz**

**Explore development projects**

**Download products**

**Events**

Webcast: CLM Powered by Jazz Series, Part 4: Requirements Management  
18 Jan 2011 - Web

Webcast: CLM Powered by Jazz Series, Part 5: Collaborative Enterprise Development Powered by Jazz  
14 Feb 2011 - Web

A transparent software delivery laboratory where you can...

- ✓ Get answers and insights directly from engineering
- ✓ Communicate with the development team
- ✓ Track the progress of builds and milestones
- ✓ Get the latest product trials and betas
- ✓ Join developers and product managers in discussion groups
- ✓ Submit defect and enhancement requests





# Jazz momentum continues ...

## 300,000+ Jazz seats in the market place



### Over **50,000** members active on Jazz.net

- Almost **2,000** new members a month
- Averaging **30,000+** unique visitors per month
- Since last year's Rational conference:
  - Averaging over **400,000** page views per month more, than a 2X increase over the same period 08/09
  - Monthly downloads average over **9,000**, up 3X over the same period 08/09
  - Forum postings have averaged over **1,500** per month and forum searches are averaging over **6,000/month**

### What Analysts are saying:

**Liz Barnett, Ez-Insight:** "With the Jazz project, Rational has developed **breakthrough technology** and is **poised to set the standard for collaborative ALM...**"


**Paul Herzlich, Ovum:** "IBM has taken the opportunity to exploit the Jazz platform's power inventively. Its 'living' test plan is a **masterpiece of applying new technology to a familiar problem...** What is being delivered will demonstrate convincingly that IBM is raising the standard for a test management product."

**Julie Craig, EMA:** "Rational's differentiators are **difficult for competitors to equal**, and the new Jazz platform foundation may well turn out to be one of the best investments the Rational team has made."

### Community Feedback and Testimonials

"Rational Team Concert has **excellent team collaboration** with automated project management dashboards that are transparent to everyone — not just managers. This immediate and automated feedback helps **keep teams on track and motivated** to achieve project goals."  
— Han Jie, Siemens

<http://jazz.net/community/feedback/>



**Forrester Wave report:**  
Rational Team Concert "best current offering"

**Yphise Award for Rational Team Concert**

Boosting Team Collaboration during software projects: Download the report in the [agility@scale-e-K2](mailto:agility@scale-e-K2)

→ Get the e-K2



# Customer feedback



"By helping us to make project deliveries more repeatable and predictable, we anticipate that Rational Team Concert will **reduce project overrun costs by 20%**."

--Matt Pomroy - Executive, Software Engineering, Ascendant Technology



"Its automated project management dashboards are transparent to everyone – not just managers. This immediate and **automated feedback helps keeps teams on track and motivated** to achieve project goals."

--Han Jie - Senior Consultant, Siemens



"Where we previously used separate systems, with Rational Team Concert we now have well integrated functionality. **Our developers are more efficient because they are better able to focus on important issues**. Our project managers greatly value the ability to customize these dashboards and **instantly provide status** on their milestones!"

--Mika Koivuluoma - Production Manager, TietoEnator



"Having a **unified and extensible environment is very compelling for us**. Rational Team Concert provides **the team transparency and visibility needed to keep work progressing** so everyone knows what's going on without finger-pointing."

--Carson Holmes - Unified ALM Services Manager, Noblestar



"With IBM Rational Team Concert we've seen a **30% productivity gain** on our global projects. The ability to **easily suspend and resume work, along with advanced SCM features**, helps team members juggle multiple tasks and priorities without missing a beat."

--Alain Bergeron - VP Consulting Services, CGI







# Integrated AD Lifecycles with RDz

**Stefan Schneider**  
**Q Group AG**

**[Stefan.Schneider@Qgrp.com](mailto:Stefan.Schneider@Qgrp.com)**

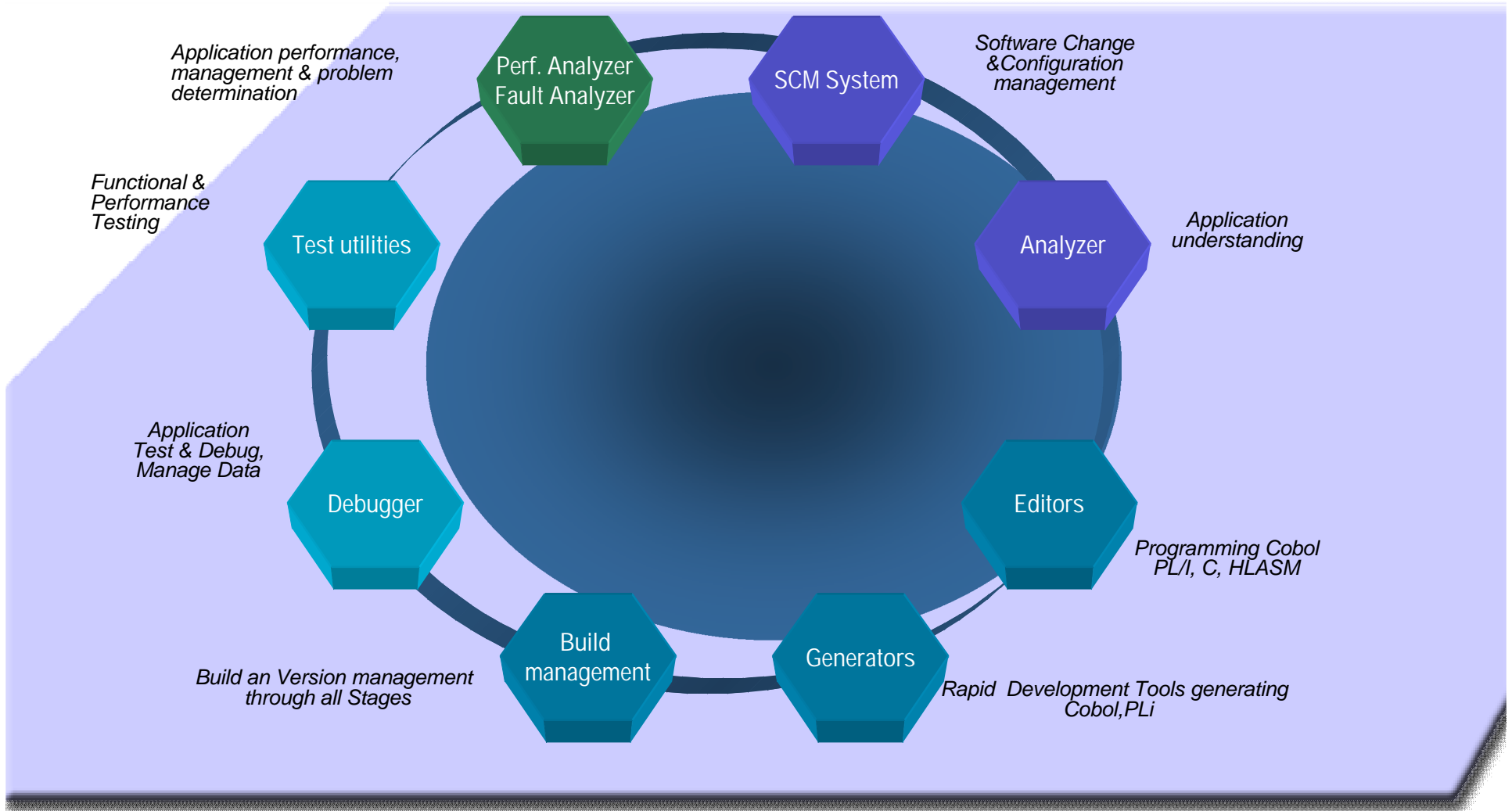
# Agenda

- **System z application lifecycle**
- **Integration and Extensions for RDz**
- **Productivity Enhancements**
- **RDz for VSE**
- **References**

# Agenda

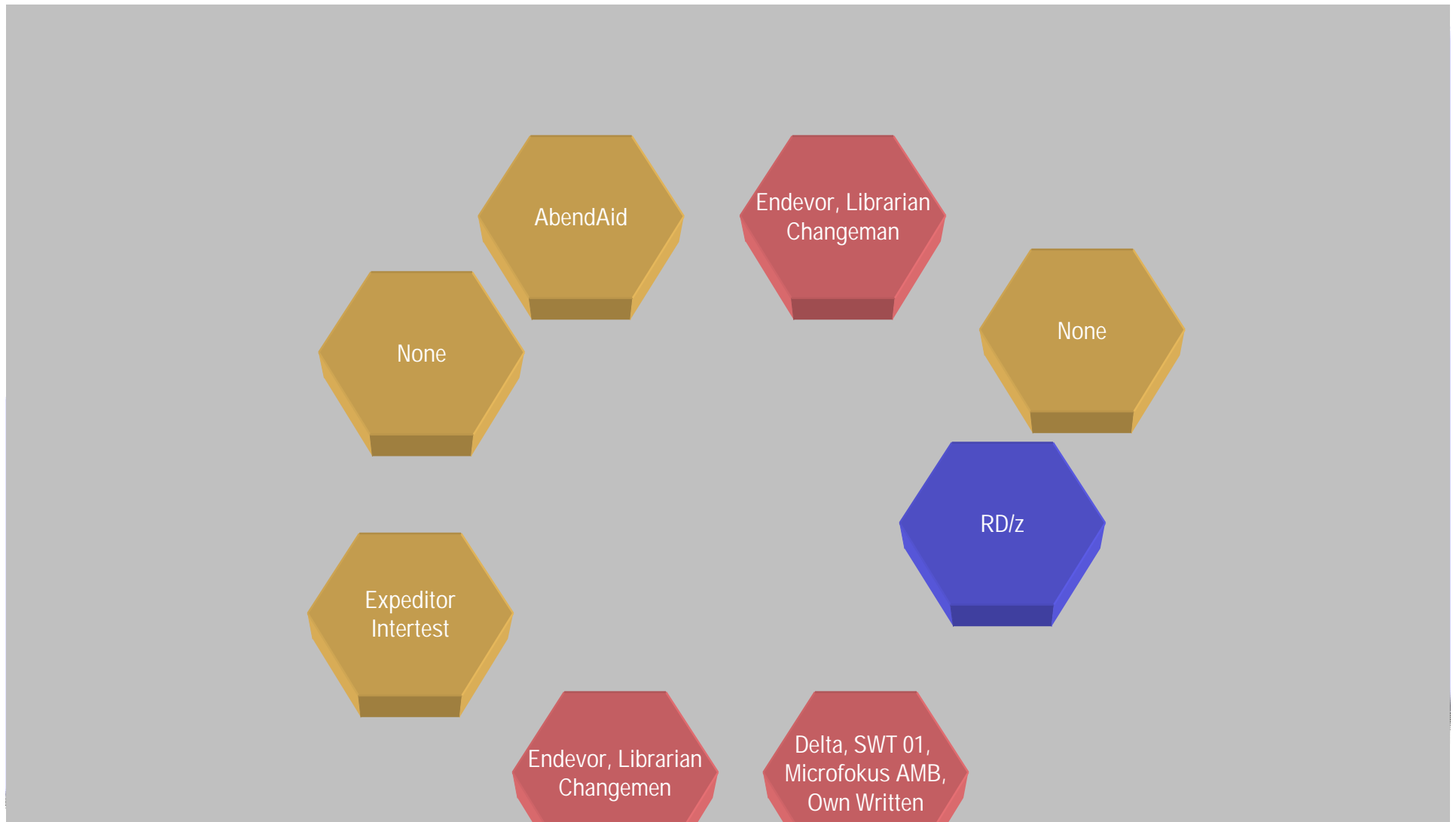
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# Typical System z application lifecycle

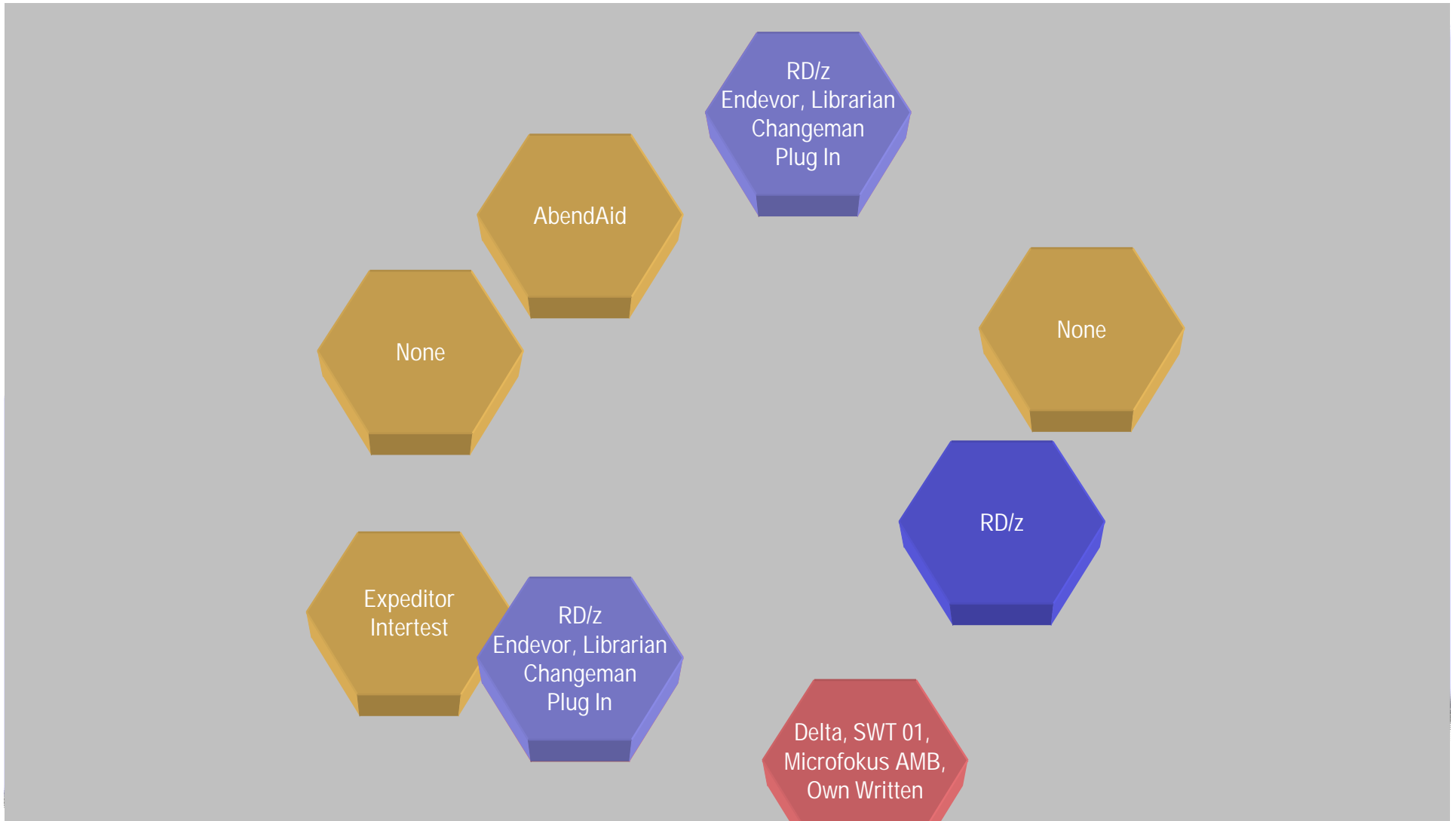




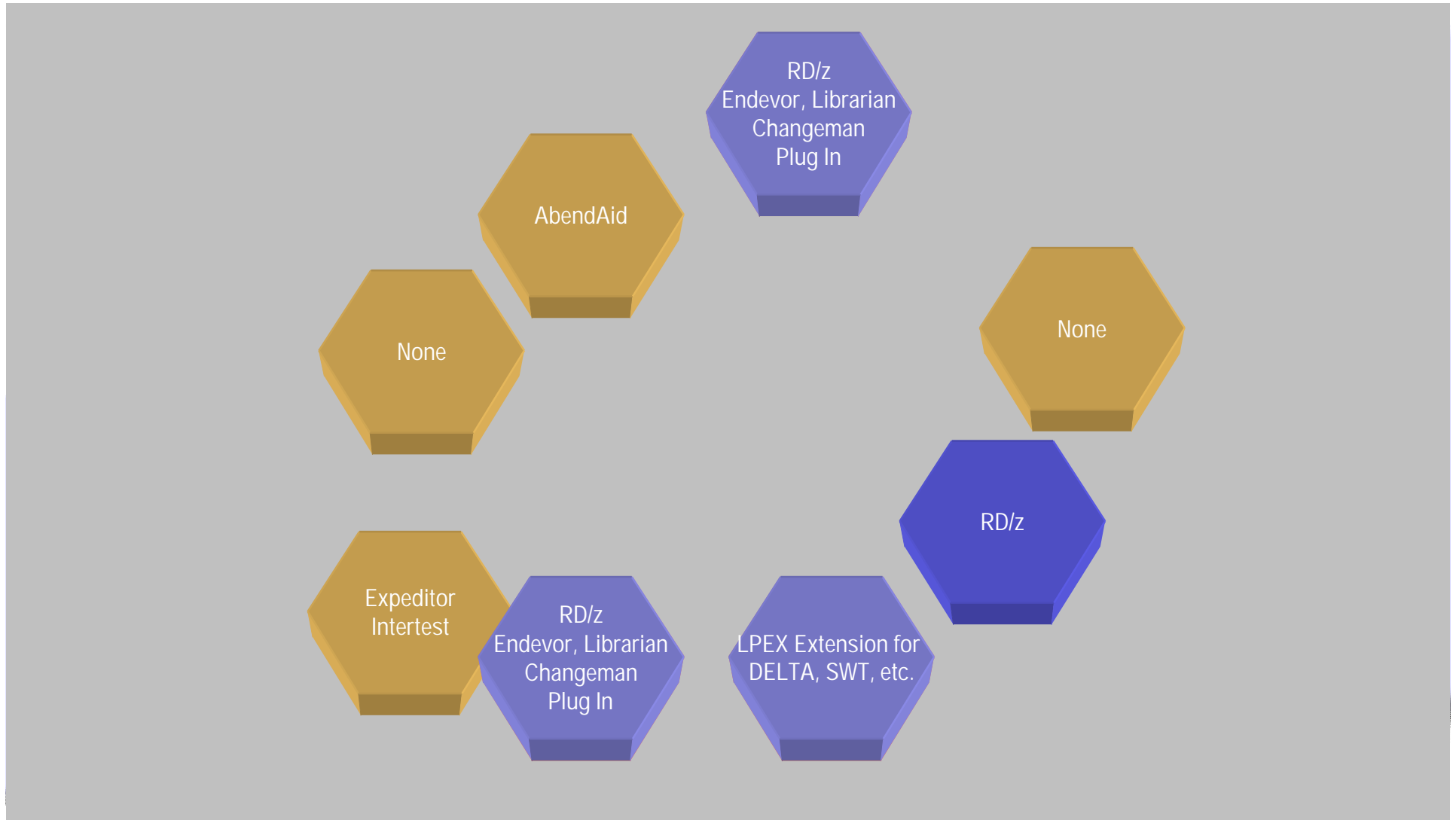
# Typical System z application lifecycle



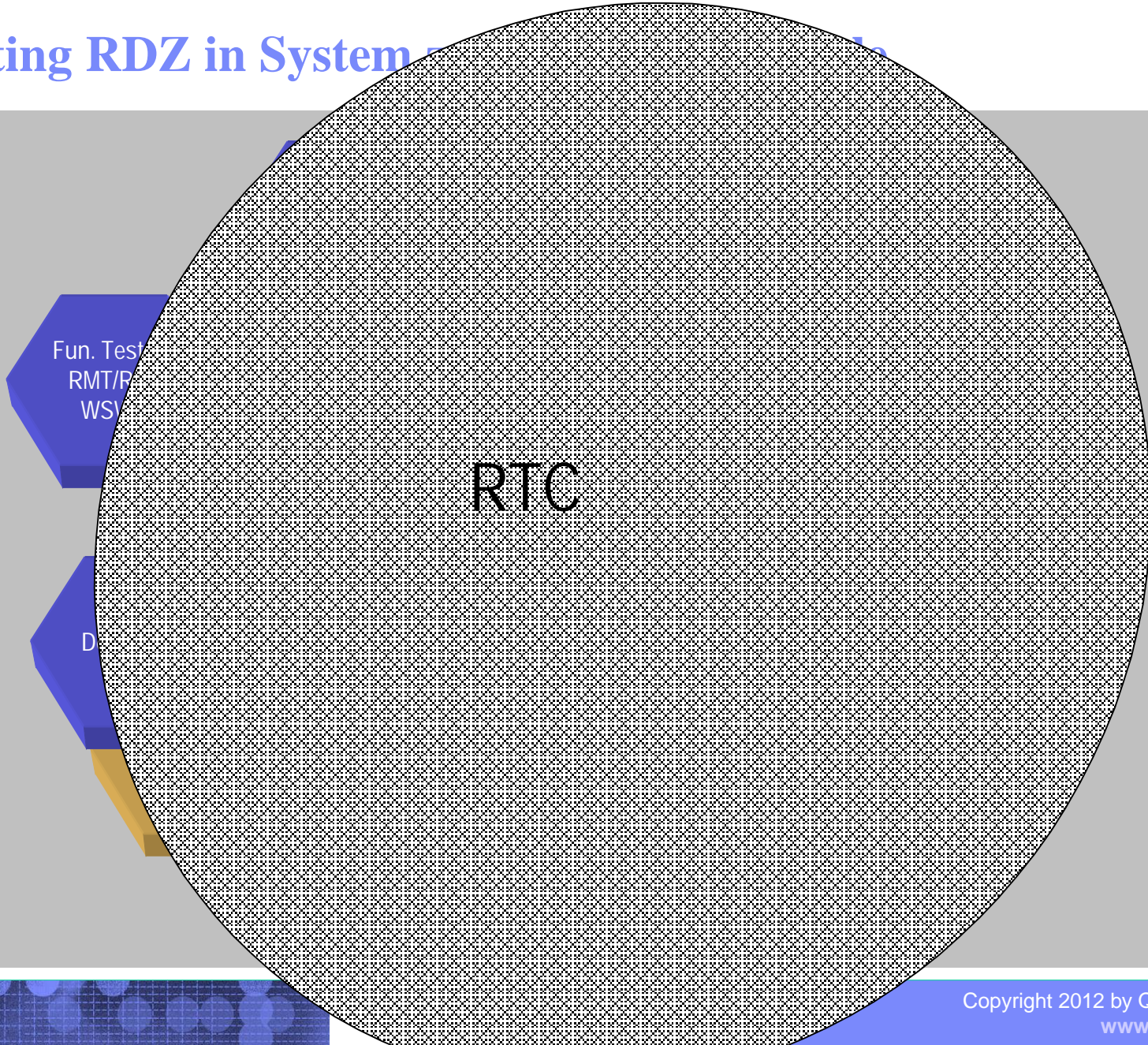
# Integrating RDZ in System z application lifecycle



# Integrating RDZ in System z application lifecycle



# Integrating RDZ in System

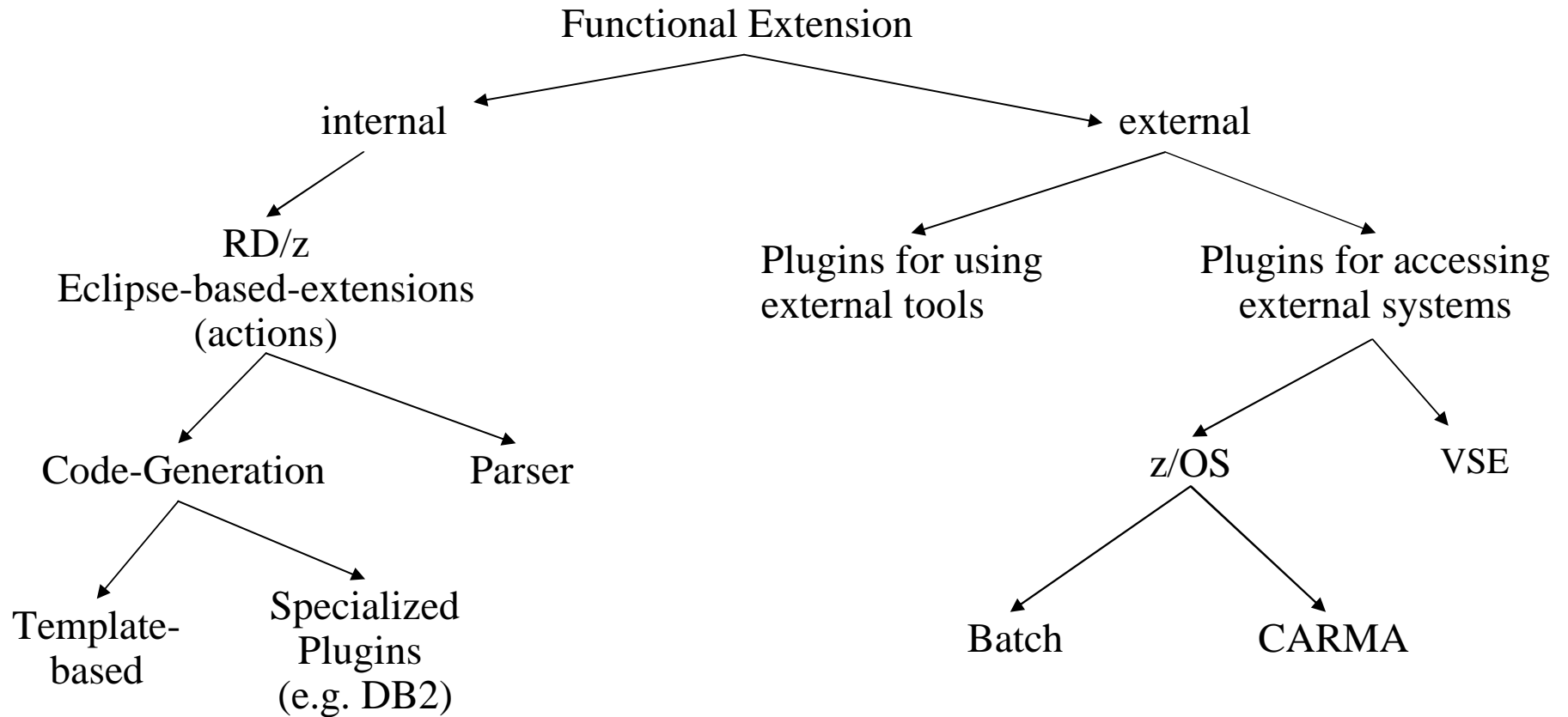




# Agenda

- System z application lifecycle
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- Productivity Enhancements
- RDz for VSE
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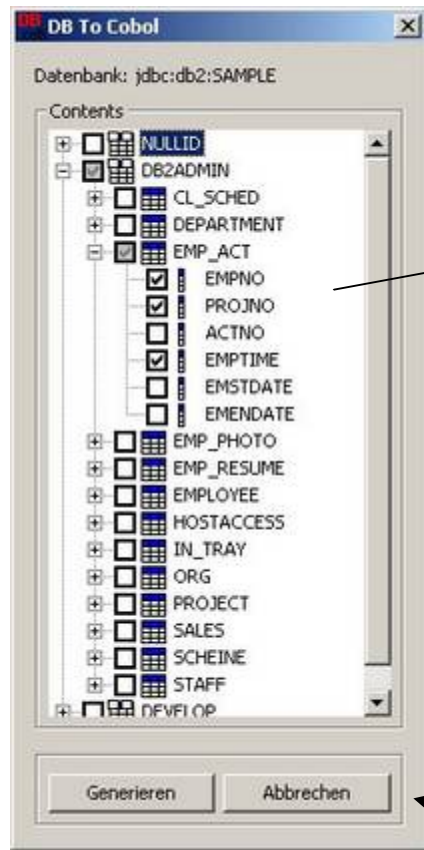
# Integrations and Extensions



# Agenda

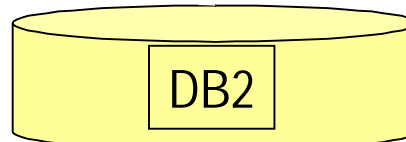
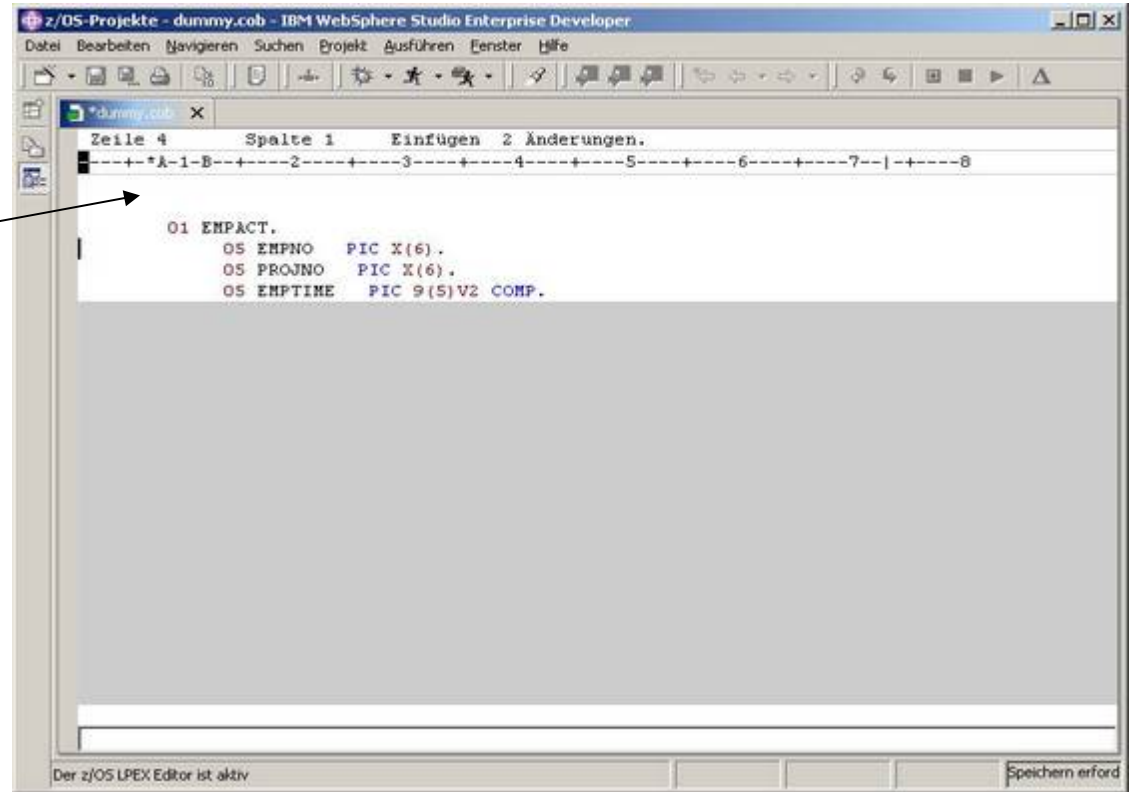
- System z application lifecycle
- Integration and Extensions for RDz
- **Productivity Enhancements**
- RDz for VSE
- References

# Code Generation Plug Ins (DB2)



Generate appropriate Data structures

Retrieve Metadata From catalog





## Code Generation Plug Ins (DB2)

**DB Tabellen Auswahl**

Schema: DB2ADMIN    Tabelle: EMP\_ACT    Schema:  Verwenden    Tabellenkürzel: T4

Hinzufügen

Schema	Tabelle	Kürzel	Use
DB2ADMIN	EMPLOYEE	T1	X
DB2ADMIN	PROJECT	T2	X
DB2ADMIN	EMP_ACT	T3	X

Entfernen  
Auf  
Ab  
Abbrechen

<<    >>

```
EXEC SQL
SELECT
  T1.EMPNO, T1.FIRSTNME, T1.LASTNAME, T2.PROJNAME
INTO
  :EMPNO, :FIRSTNME, :LASTNAME, :PROJNAME
FROM
  DB2ADMIN.EMPLOYEE T1, DB2ADMIN.PROJECT T2, DB2ADMIN.EMP_ACT T3
WHERE
  T1.EMPNO = '000100' AND T1.EMPNO = T3.EMPNO AND T3.PROJNO =
  T2.PROJNO
END-EXEC.
```

# Template Generation (Codeframes, JCL.. )

The screenshot displays the Eclipse IDE interface. The main editor window shows a COBOL program template for 'test.cob'. The code is as follows:

```

* A-1-B-2-3-4-5-6-7-8
*****
* PROGRAM PRG001
*****

*****
IDENTIFICATION DIVISION.
*****
PROGRAM-ID.          PRG001.
AUTHOR.              Biel.
DATE-WRITTEN.        27.4.2006.
DATE-COMPILED.      .
PCUSERID             db2admin.
*****

ENVIRONMENT DIVISION.
*****

CONFIGURATION SECTION.
SPECIAL-NAMES.
    DECIMAL-POINT IS COMMA.

DATA DIVISION.
WORKING-STORAGE SECTION.
LINKAGE SECTION.

*****

PROCEDURE DIVISION.
*****
    STOP RUN.
    
```

The left-hand side of the IDE shows a project explorer for 'z/OS-Projekte'. The tree structure is:

- z/OS-Projekte
  - Programm
    - Programmrahmen
    - Allgemeiner Programm
  - Kommentare
    - Aenderungskopf
    - Aenderungseint...

At the bottom of the IDE, a 'Tasks' window is visible, showing two tasks:

	Beschreibung	Ressource	Im Ordner	Position
<input type="checkbox"/>	Ueberpruefen	test.cob	testcob	Zeile 1:
<input type="checkbox"/>	Ueberpruefen	test.cob	testcob	Zeile 2:

# Embedded Languages (Delta, SWT01 ...)

The screenshot shows the Rational Developer Solutions interface. A context menu is open over the file 'PrintApp.cbl'. The 'Open With' submenu is active, and 'Delta Editor' is selected. The background editor displays COBOL code with the following content:

```

Identification Division.
Program-ID. PRINTAPP.

PIC S9(4)
PIC 99 V=
PIC X(100)

x(30) .
x(30) .

ure Division using Recvd-Parms

```

The code editor shows line 22 at column 63. The code includes statements for opening a file, defining data pointers, and processing input data.

# Embedded Languages (Delta, SWT01 ...)

The screenshot displays the Rational Developer Solutions interface. On the left, the 'Outline' view shows a project structure for a 'PROGRAM'. The structure includes:

- PROGRAM
  - Identification Division.
  - Program-ID. PRINTAPP.
  - Data Division.
    - Working-Storage Section.
    - Linkage Section.
      - .ASG "Text"
      - .PROG\_ABCD
  - 01 Work-Parms.
    - 05 In-Len PIC S9(4) BINARY.
    - 05 Char-count Pic 99 Value ZEROS.
    - 05 Out-Name PIC X(100).
  - 01 Recvd-Parms.
    - 05 In-name Pic x(30).
    - 05 In-name4 Pic x(30).
  - Procedure Division using Recvd-Parms.

On the right, the code editor shows the following code:

```

Linkage Section.
:cvd-Parms.
; In-name Pic x(30) .
; In-name4 Pic x(30) .

'Text'
.ABCD
:define
Move AUTHOR
Move AUTHOR <name>
Move DSD
Insp DSD (<macro 1>[[, <macro 2>],...], <macro n>],...
T DSD <service macro name>
Comp PROGMODE
Move PROGMODE (<p1>, <p2>)
Move TEST
Move (en)
    
```

A dropdown menu is open over the code, showing a list of keywords: AUTHOR, AUTHOR <name>, DSD, DSD (<macro 1>[[, <macro 2>],...], <macro n>],..., DSD <service macro name>, PROGMODE, PROGMODE (<p1>, <p2>), and TEST. The 'AUTHOR' keyword is selected, and a search box on the right contains the text 'Keyword: 'AUTHOR''.

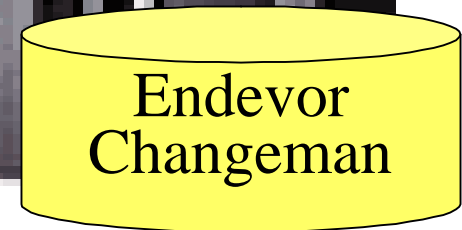
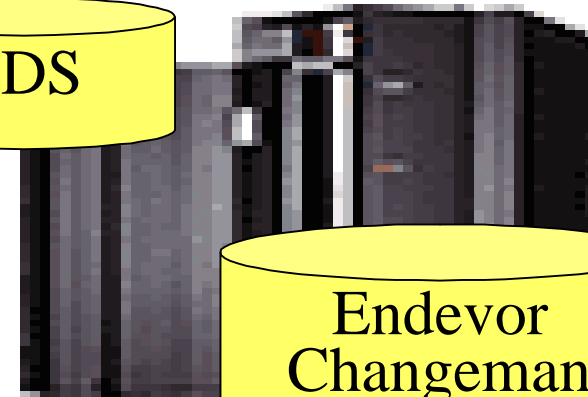


# Agenda

- System z application lifecycle
- Integration and Extensions for RDz
- Productivity Enhancements
- **SCM Integrations**
- RDz for VSE
- References

# RDz and SCM without integration

LOCAL/REMOTE EDIT  
SYNTAX CHECK  
REMOTE BUILD



SOURCES  
VERSIONS  
PACKAGES  
DEPENDENCIES  
BUILD  
PROMOTE

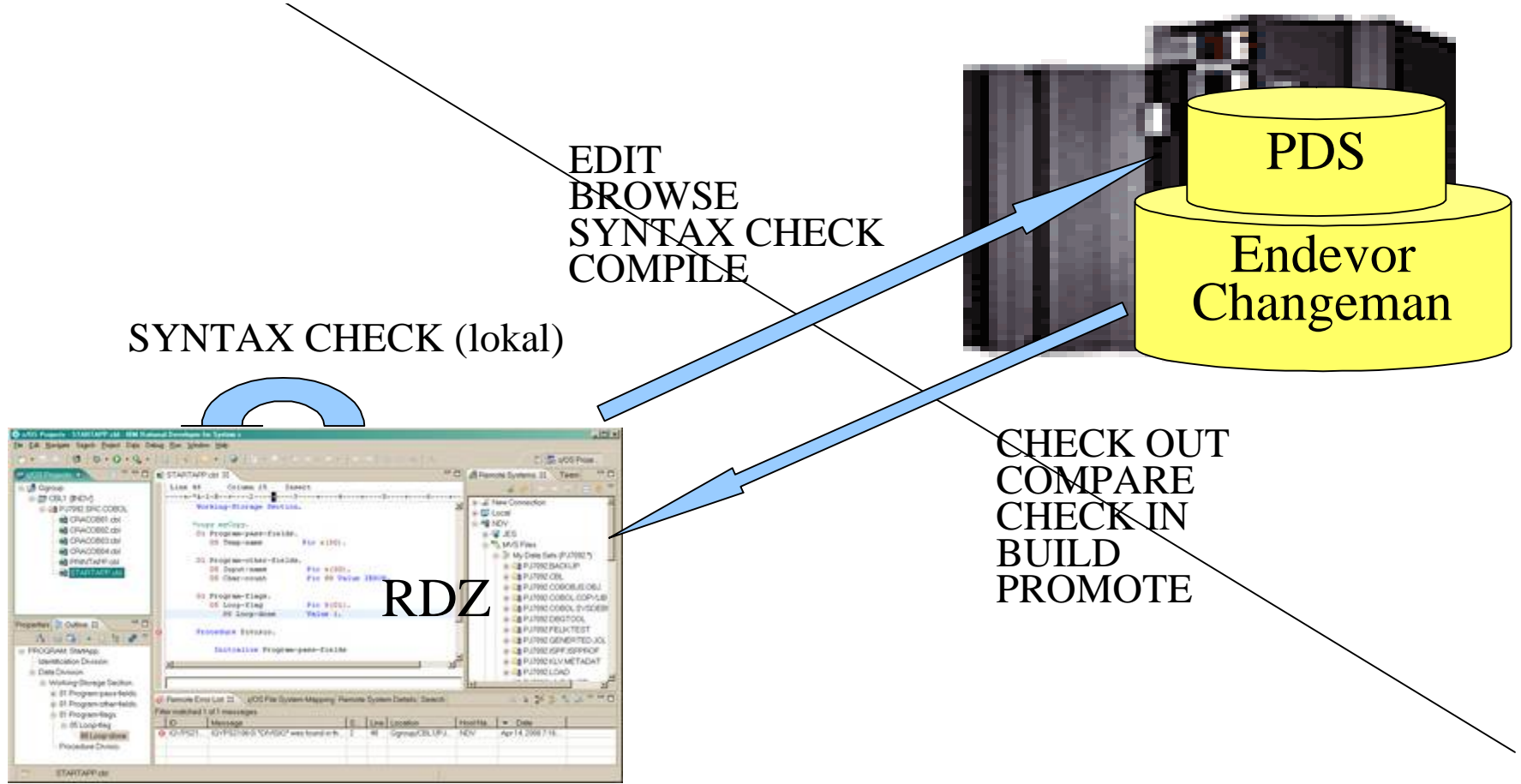


RDZ

## Challenges integrating SCM systems in RDz

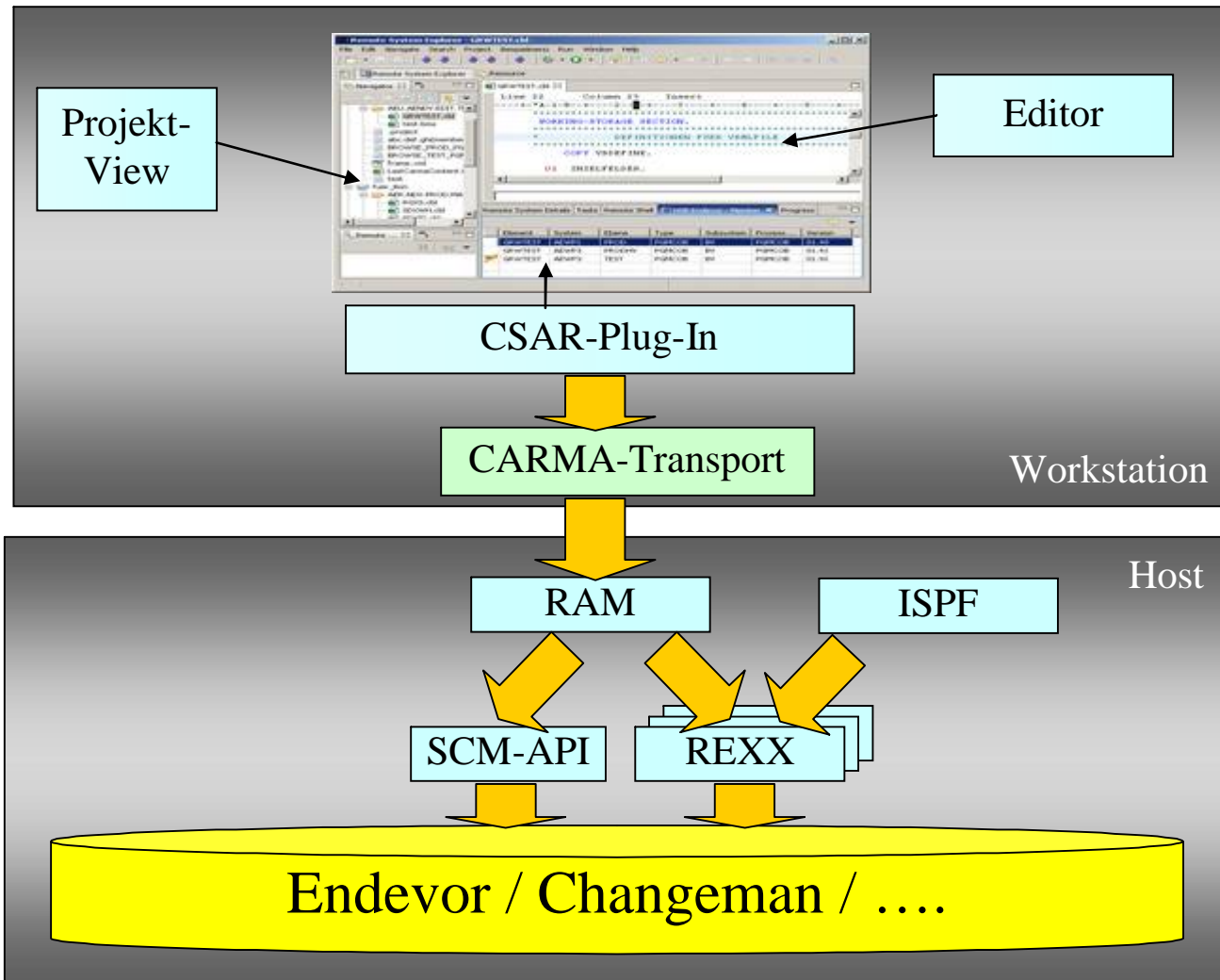
- **Search Sources stored in SCM out of RDz**
- **Get Version and Dependency Information**
- **Check Out to PDS and Check In back**
- **Run Build Jobs under SCM Control out of RDz**
- **Get Build Results back to RDz from SCM ....**

# RDz CSAR Integration

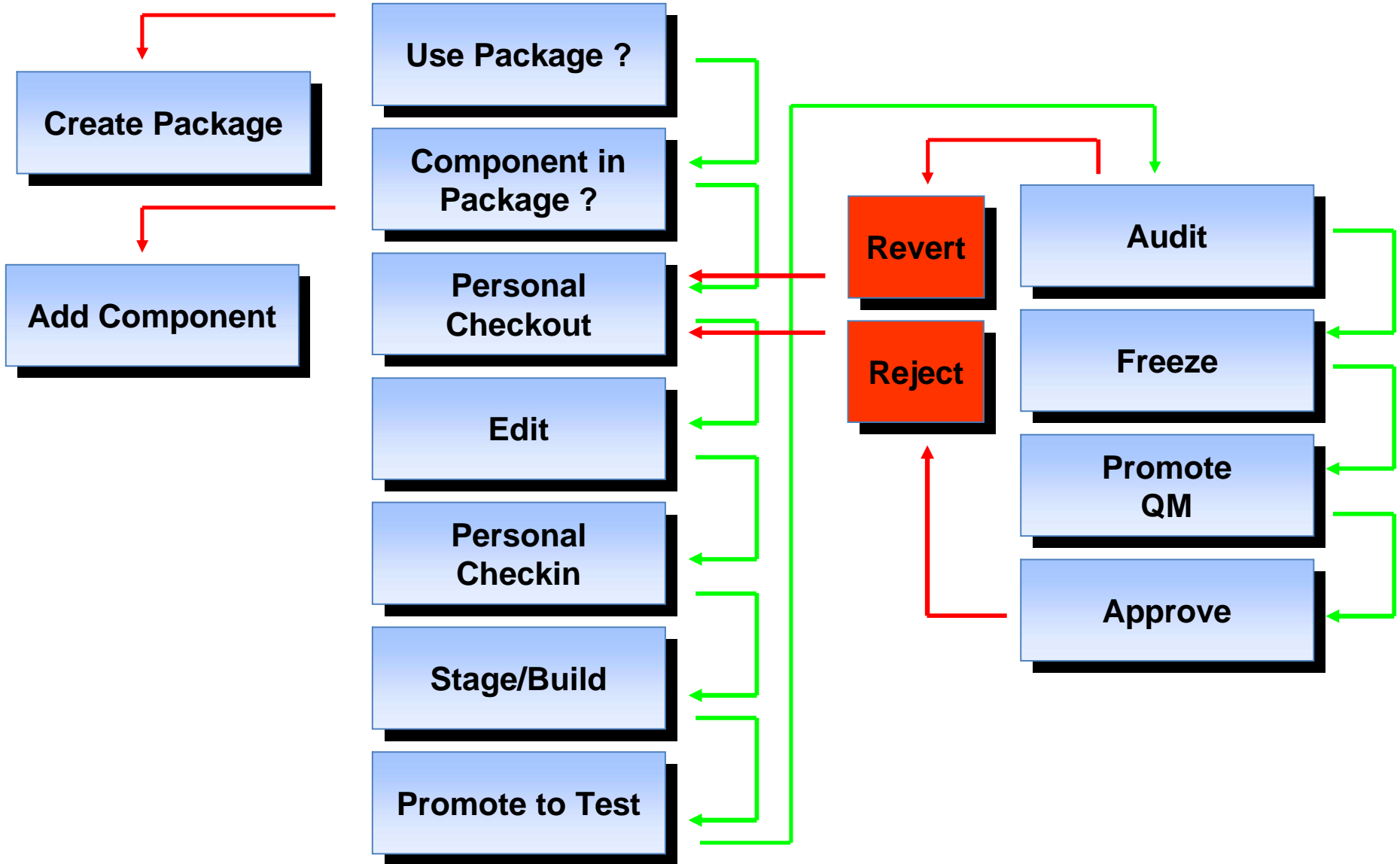




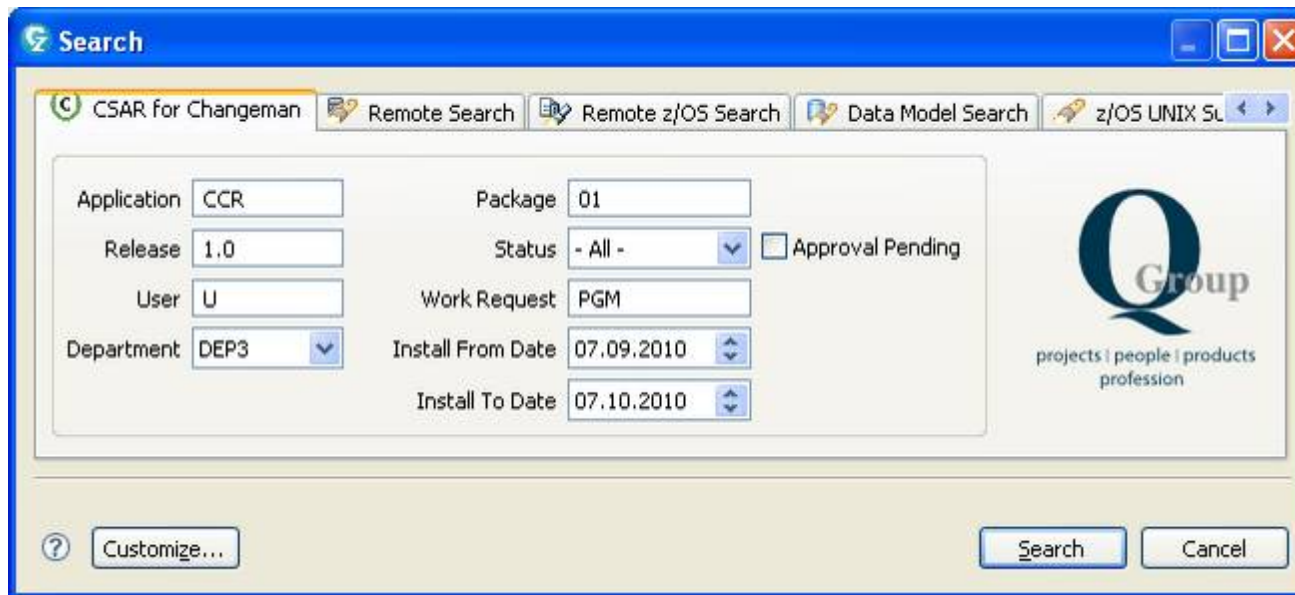
# CSAR Basic Architecture




# CSAR Lifecycle (Changeman)



# CSAR for Changeman (Search)



The screenshot shows a Windows-style dialog box titled "Search". It features a tabbed interface with the following tabs: "CSAR for Changeman" (selected), "Remote Search", "Remote z/OS Search", "Data Model Search", and "z/OS UNIX S...". The main area contains several input fields and a checkbox:

Application	CCR	Package	01	 projects   people   products profession
Release	1.0	Status	- All -	
User	U	Work Request	PGM	
Department	DEP3	Install From Date	07.09.2010	
		Install To Date	07.10.2010	

At the bottom of the dialog, there is a "Customize..." button on the left, and "Search" and "Cancel" buttons on the right. A "Q Group" logo is also present on the right side of the main form area.

# CSAR for Changeman Component List)

Remote System Details | Component List | CARMA-Repositories | Search | Konsole

Component List

Name	Type	Status	Change Date	Change Time	Compiler Proc	Last Change User	Request	Checked-In ...	Type Description	Component D
CCRC0220	CPY	CHECKOUT	20100210	074321		THORIC		PUBLIC78	COB Copy-Memb...	TESTCOMPON
CCRC0540	CPY	AKTIVE	20100227	120028	COBOL	MICVET		PUBLIC	COBOL Program...	TESTCOMPON
CCRC0550	CPY	CHECKOUT	2			MICVET		PUBLIC	COBOL Program...	TESTCOMPON
CRACOB02	COB	CHECKOUT	2			THORIC		PUBLIC	COBOL Program...	TESTCOMPON
CRACOB07	COB	CHECKOUT	2			MICVET		PUBLIC	COBOL Program...	TESTCOMPON
CRACOB16	COB	CHECKOUT	2			THORIC		PUBLIC	COBOL Program...	TESTCOMPON
CRACOB99	COB	CHECKOUT	2			MICVET		PUBLIC	COBOL Program...	TESTCOMPON
CRACPY01	CPY	CHECKOUT	2			MICVET		PUBLIC	COB Copy-Memb...	TESTCOMPON
CRACPY02	CPY	ACTIVE	2			F325756	12345678	PUBLIC	COB Copy-Memb...	TESTPROGRAI
CRACPY03	CPY	CHECKOUT	2			THORIC		PUBLIC	COB Copy-Memb...	TESTCOMPON
CRACPY04	CPY	ACTIVE	2			F325756		PUBLIC	COB Copy-Memb...	TESTPROGRAI
CRACPY05	CPY	ACTIVE	2			F325756		PUBLIC	COB Copy-Memb...	TESTPROGRAI
CRACPY06	CPY	ACTIVE	2			F325756		PUBLIC	COB Copy-Memb...	TESTPROGRAI
CRACPYZ1	CPY		2			MICVET		PUBLIC	COB Copy-Memb...	TESTCOMPON
CRACPYZZ	COB	CHECKOUT	2			MICVET		PUBLIC	COBOL Program...	TESTCOMPON
WB0800	COB	ACTIVE	2			F325756		PUBLIC	COB Copy-Memb...	TESTPROGRAI

Context menu for CCRC0540:

- Browse
- View
- Edit
- Personal Checkout
- Personal Checkin
- Undo Personal Checkout
- Build
- Browse Compressed Listing
- Browse Audit Report
- Compare
  - Checked-Out Version With Package Version
  - Package Version With Baseline
  - Checked-Out Version With Baseline
- Add Component
- Delete
- Configure Table

# CSAR for Changeman (Create Package)

**Create Package**

Please enter the needed information to create a package.

**Create Method:**  
 Short Method  Copy Forward  Long Method

**Package Title:** TEST PACKAGE

**Application:** CCR

**Requester's Name:** THORIC **Requester' Phone:** 5899923

**Work Request ID:** TEST **Department:** DEPT

**Application Model:**  **Number Model:**

**Package Level:**  
 Simple  Complex  Super  Participating  
Complex / Super Package:

**Package Type:**  
 Planned Permanent  Unplanned Permanent  
 Planned Temporary  Unplanned Temporary

**Unplanned Reason Code:**  **Temp. Change Duration:**

? < Back Next > Finish Cancel



# CSAR for Changeman (Package List)

The screenshot shows the 'Component List' tab in Rational Developer Solutions. The main window displays a table titled 'CSAR for Changeman Search Result' with columns: Package ID, Status, Install Date, Package Level, Work Request, Title, MLevel, Promote, Audit, Creator, Department, and Release. A context menu is open over the 'Approval' option, showing sub-options: Approve, Checkoff, Approval Decision Pending, Reject, Under Review, and Final Approval For Linked Packages.

Package ID	Status	Install Date	Package Level	Work Request	Title	MLevel	Promote	Audit	Creator	Department	Release
ABBA000001	DEV	20100713	UNKN			TEST			MICVET		
ABBA000002	DEV	20100714	UNKN						MICVET		
ABBA000003	DEV	20100714	UNKN						MICVET		
CCR 000001	DEV	20091231	SMPL				45 TEST	00	U123456	DEPT	REL 2.0
CCR 000002	BAS	20091231	SMPL					00	U123456	DEPT	REL 1.0
CCR 000003	DEV	20091231	SMPL				45 TEST	12	U123456	DEPT	REL 3.0
CCR 000004	FRZ	20091231	SMPL						U123456	DEPT	REL 3.0
CCR 000005	DEV	20100611	SMPL				45 TEST	3	U123456	DEPT	REL 3.0
CCR 000006	DEV	20100614	SMPL						THORIC	CPRE	CPRELEA
CCR 000007	DEV	20100614	SMPL						THORIC		
CCR 000008	DEV	20100827	SMPL						THORIC		
OTTO000001	DEV	20100611	SMPL						MICVET	CPRE	CPRELEA
OTTO000002	DEV	20100715	SMPL						MICVET		
OTTO000003	DEV	20100715	SMPL						MICVET		

# CSAR for Changeman (Freeze, Promote)

**Freeze Components**

Please select your desired changeman components from the list below.

Name	Type	Status	Date	Time	User	Request
<input type="checkbox"/> CCRC0220	CPY	RESTAGED	20100225	140000	MICVET	FERTIGHJ
<input checked="" type="checkbox"/> CCRC0540	CPY					
<input checked="" type="checkbox"/> CCRC0550	CPY					
<input type="checkbox"/> CRACOB02	LOD					
<input type="checkbox"/> CRACOB02	PKG					
<input type="checkbox"/> CRACOB02	DBR					
<input type="checkbox"/> CRACOB02	DVD					

Select All   Deselect All

**Promote Package**

Please enter the needed information to promote the package.

Site: DEV

Nickname / Level: C1 / 10

Release:

Release Area:

Overlay Target Components

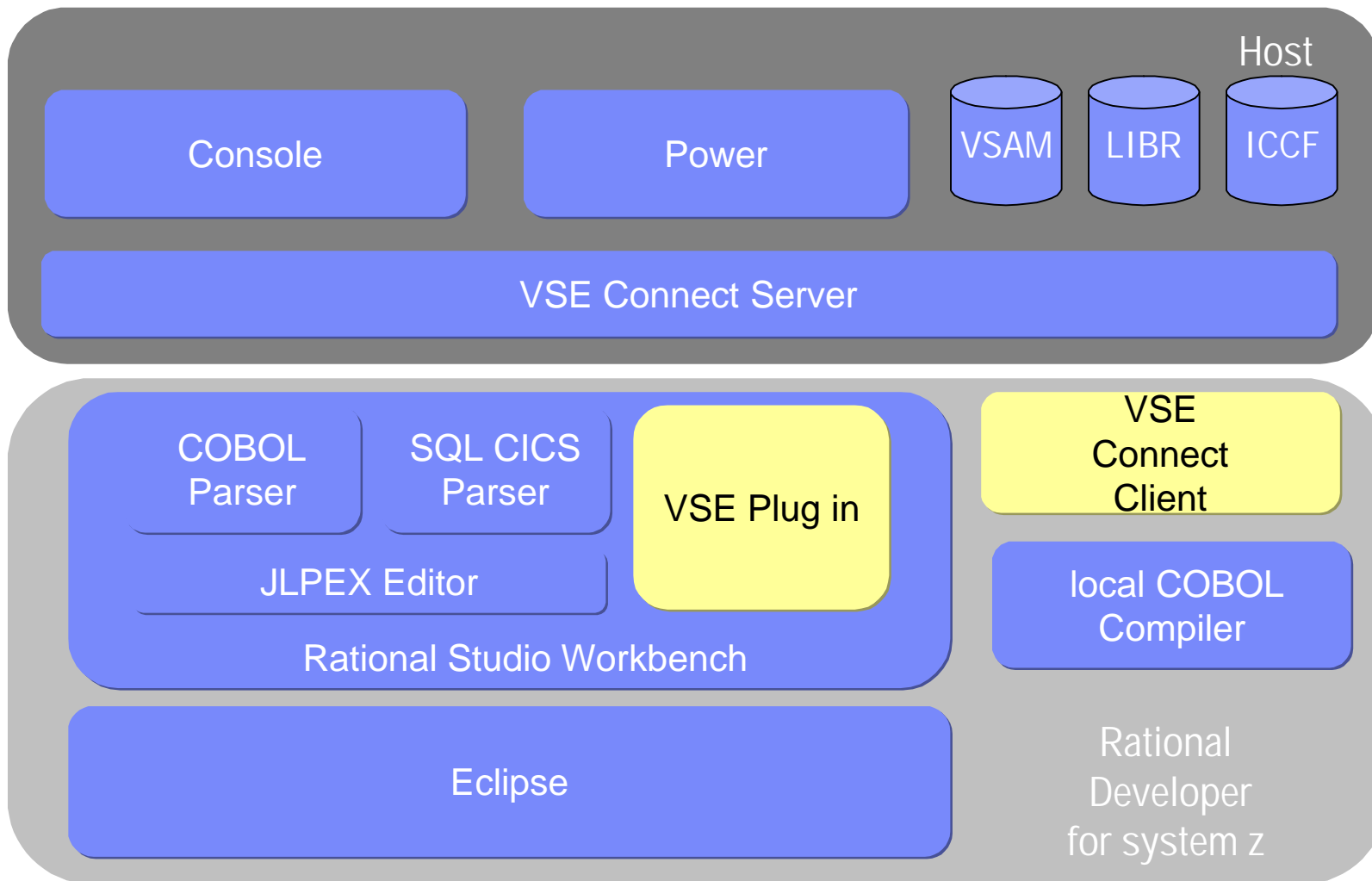
Suppress Batch Messages

< Back   Next >   Finish   Cancel

# Agenda

- System z application lifecycle
- Integration and Extensions for RDz
- Productivity Enhancements
- **RDz for VSE**
- References

# VSE Plug In for RDz (Overview)



## VSE Plug In for RDz (Features)

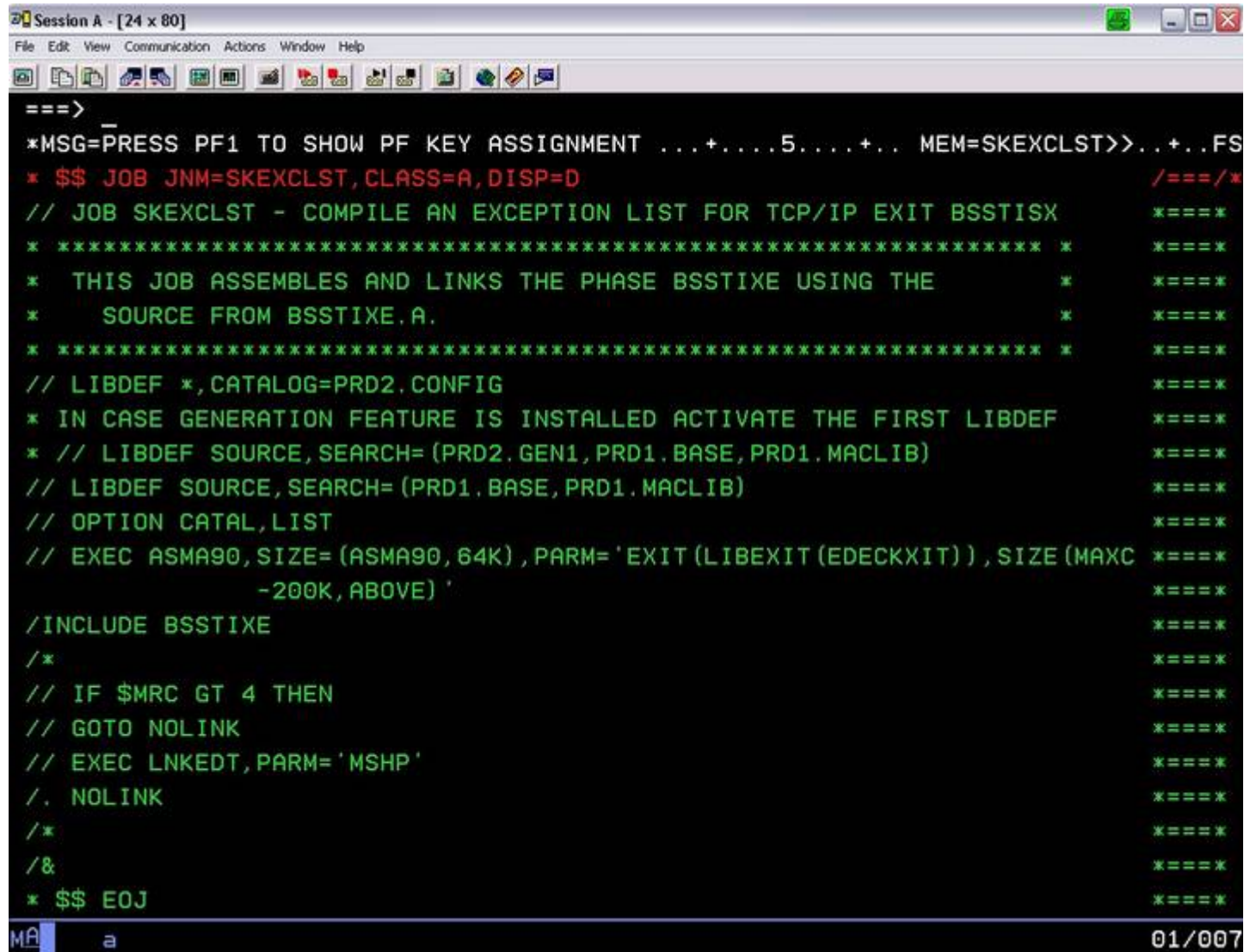
- **Browse VSE System (Library, Power, ICCF VSAM (Catalog/Cluster))**
- **Filter VSE System Views**
- **Download Library Member in local project**
- **Edit Source via LPEX Editor (Syntaxhighlighting, Outline View, Filter)**
- **Grafical compare of Source Files**
- **Upload Source to VSE System**
- **View Jobs in Power**
- **View content of ICCF members**
- **Submit of a local JCL to VSE/Power**
- **...**



## VSE Plug In for RDz (Features)

- **View job outputs**
- **View console outputs from VSE**
- **Submit console commands**
- **Mapping of ICCF Library numbers to user defined names**
- **Mapping of Library Member types to RDz source code extensions.**
- **Property view for VSE components**
- **VSAM Record viewer**
- **Remote compile for Cobol, PL/I, C ...**
- **Error Feedback for remote compile**
- **configurable phase build via link books**

# Look and Feel (Today VM Edit)



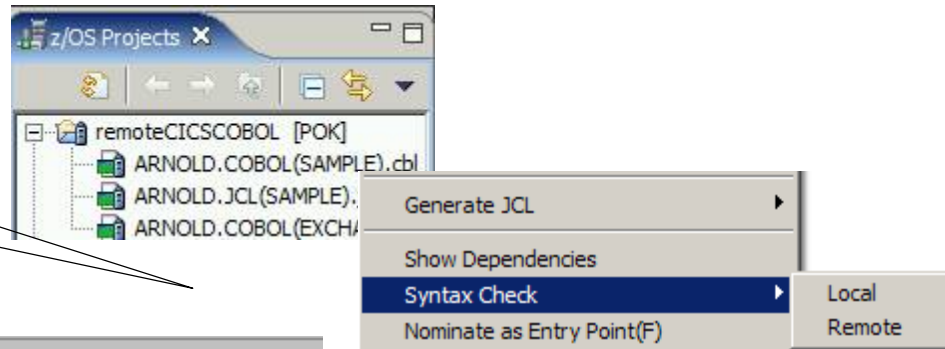
```

Session A - [24 x 80]
File Edit View Communication Actions Window Help
==>
*MSG=PRESS PF1 TO SHOW PF KEY ASSIGNMENT ...+...5...+.. MEM=SKEXCLST>>..+..FS
* $$ JOB JNM=SKEXCLST,CLASS=A,DISP=D /====/*
// JOB SKEXCLST - COMPILE AN EXCEPTION LIST FOR TCP/IP EXIT BSSTISX *====*
* ***** *====*
* THIS JOB ASSEMBLES AND LINKS THE PHASE BSSTIXE USING THE *====*
* SOURCE FROM BSSTIXE.A. *====*
* ***** *====*
// LIBDEF *,CATALOG=PRD2.CONFIG *====*
* IN CASE GENERATION FEATURE IS INSTALLED ACTIVATE THE FIRST LIBDEF *====*
* // LIBDEF SOURCE,SEARCH=(PRD2.GEN1,PRD1.BASE,PRD1.MACLIB) *====*
// LIBDEF SOURCE,SEARCH=(PRD1.BASE,PRD1.MACLIB) *====*
// OPTION CATAL,LIST *====*
// EXEC ASMA90,SIZE=(ASMA90,64K),PARM='EXIT(LIBEXIT(EDECKXIT)),SIZE(MAXC *====*
-200K,ABOVE)' *====*
/INCLUDE BSSTIXE *====*
/* *====*
// IF $MRC GT 4 THEN *====*
// GOTO NOLINK *====*
// EXEC LNKEDT,PARM='MSHP' *====*
/. NOLINK *====*
/* *====*
/& *====*
* $$ EOJ *====*
MA a 01/007

```

# Look and Feel (Syntax Check)

Local or Remote Syntax Check



Line 35 Column 47 Insert

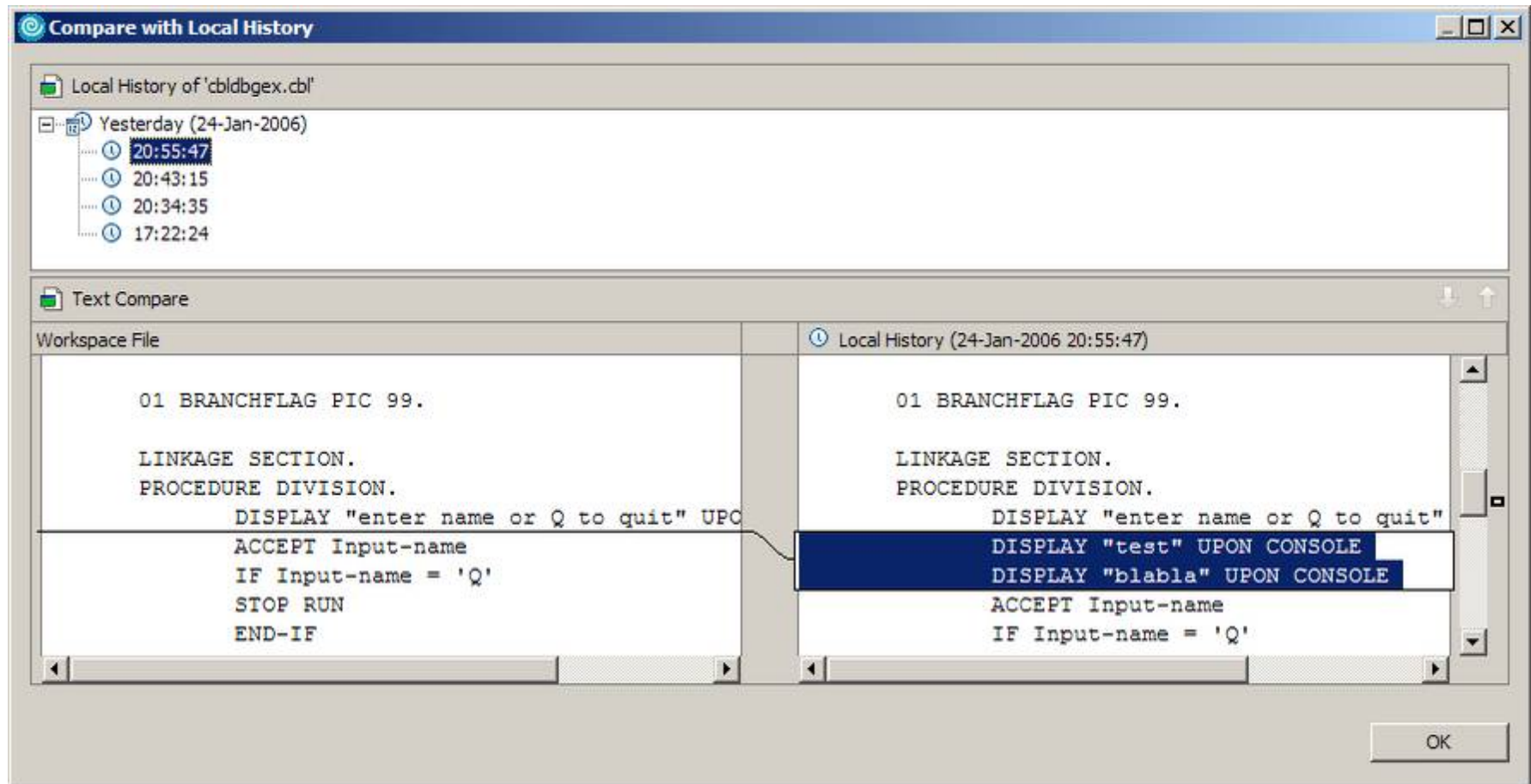
```

-----+*A-1-B-+-----2-----+-----3-----+-----4-----+-----5-----+
000035 Dsply "Program REGIOA STARTING "
000036 MOVE 2 TO BRANCHFLAG.
000037 MOVE 'AAAAAA' to FIELD-A.
000038 MOVE 'BBBBBB' to FIELD-B.
000039 MOVE 'CCCCCC' to FIELD-C.
000040 MOVE "Enterprise Transformation POT " to I
000041 MOVE "WSED - OUTPUT" to Output-name.
000042 MOVE "REGIOB" to program-to-call.
000043 O2O-LOGIC.
    
```

ID	Message	S...	Line	Location
IGYPS2...	IGYPS2072-S "DSPLY" was invalid. ...	2	35	PotCob/ETPOT

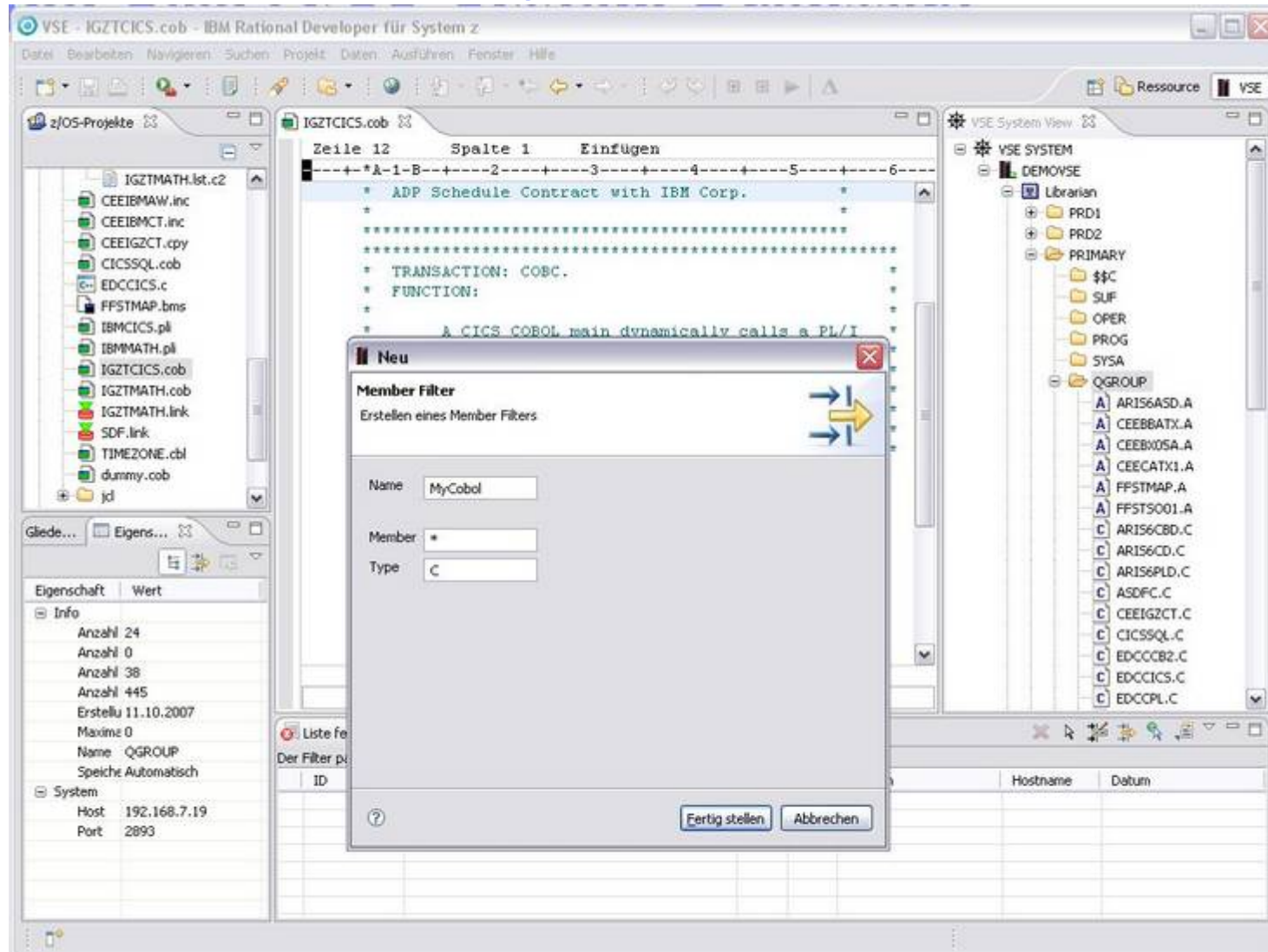
Double click to locate error

# Look and Feel (Local History/Compare Files)



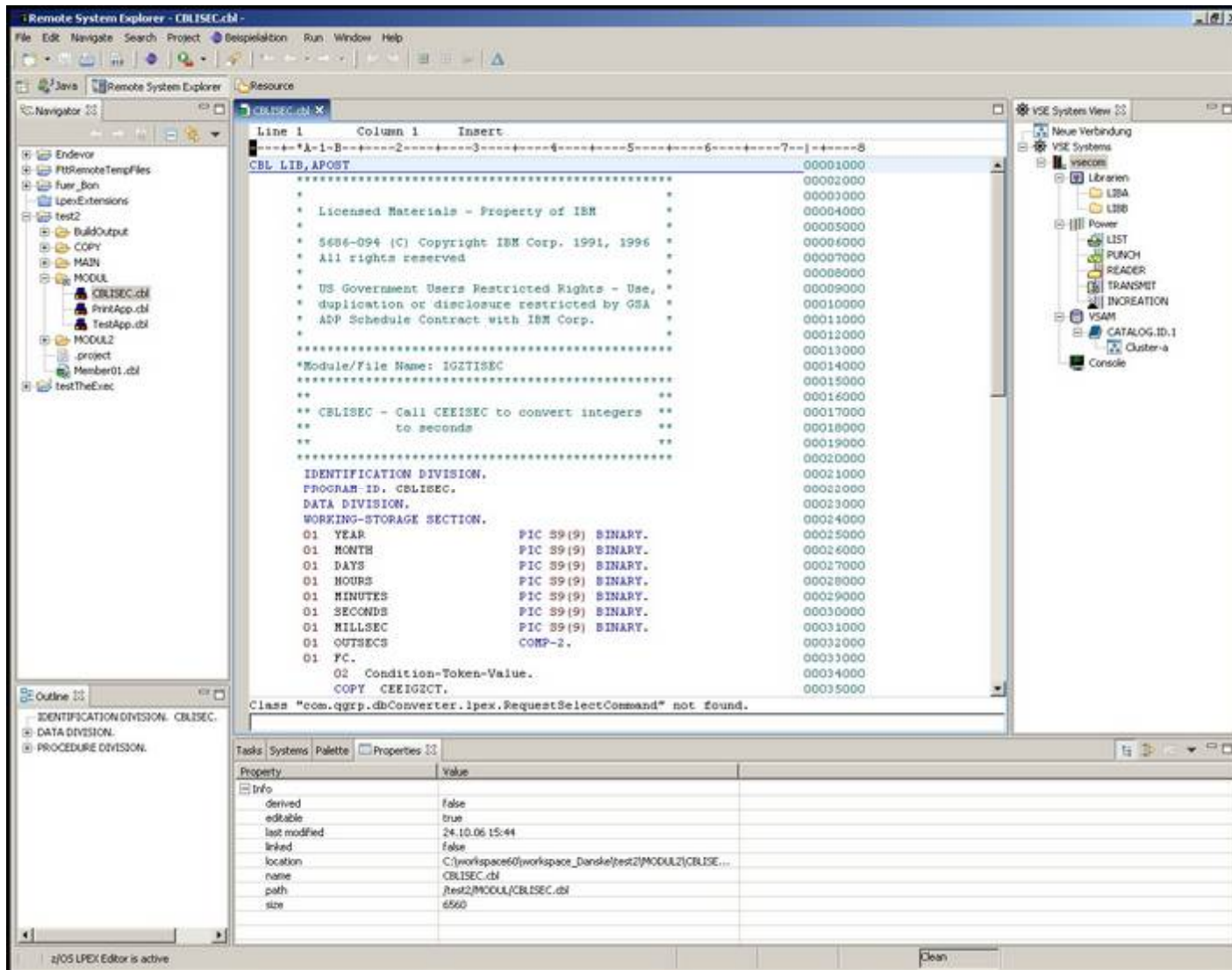


# Look and Feel (VSE System Browser)

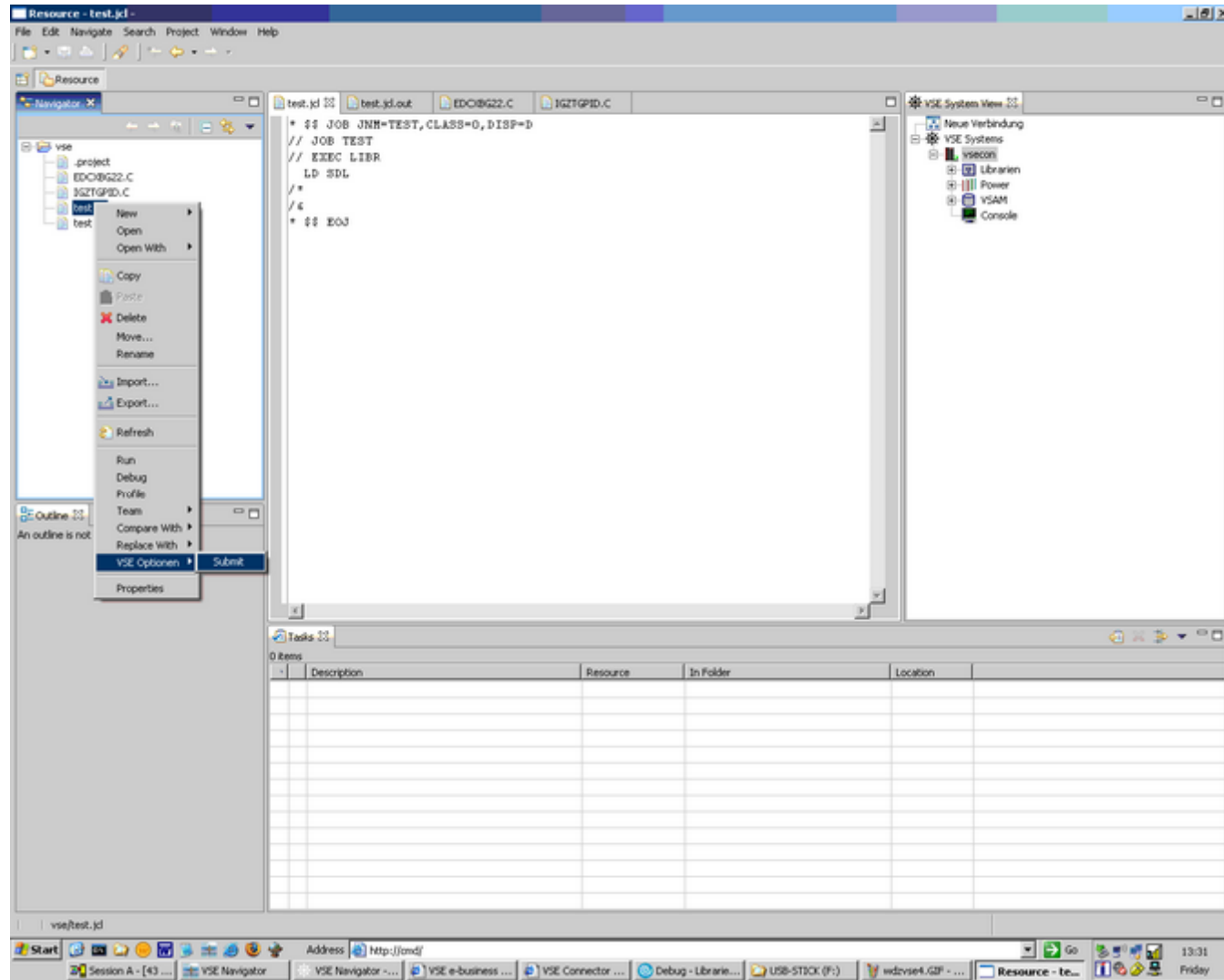




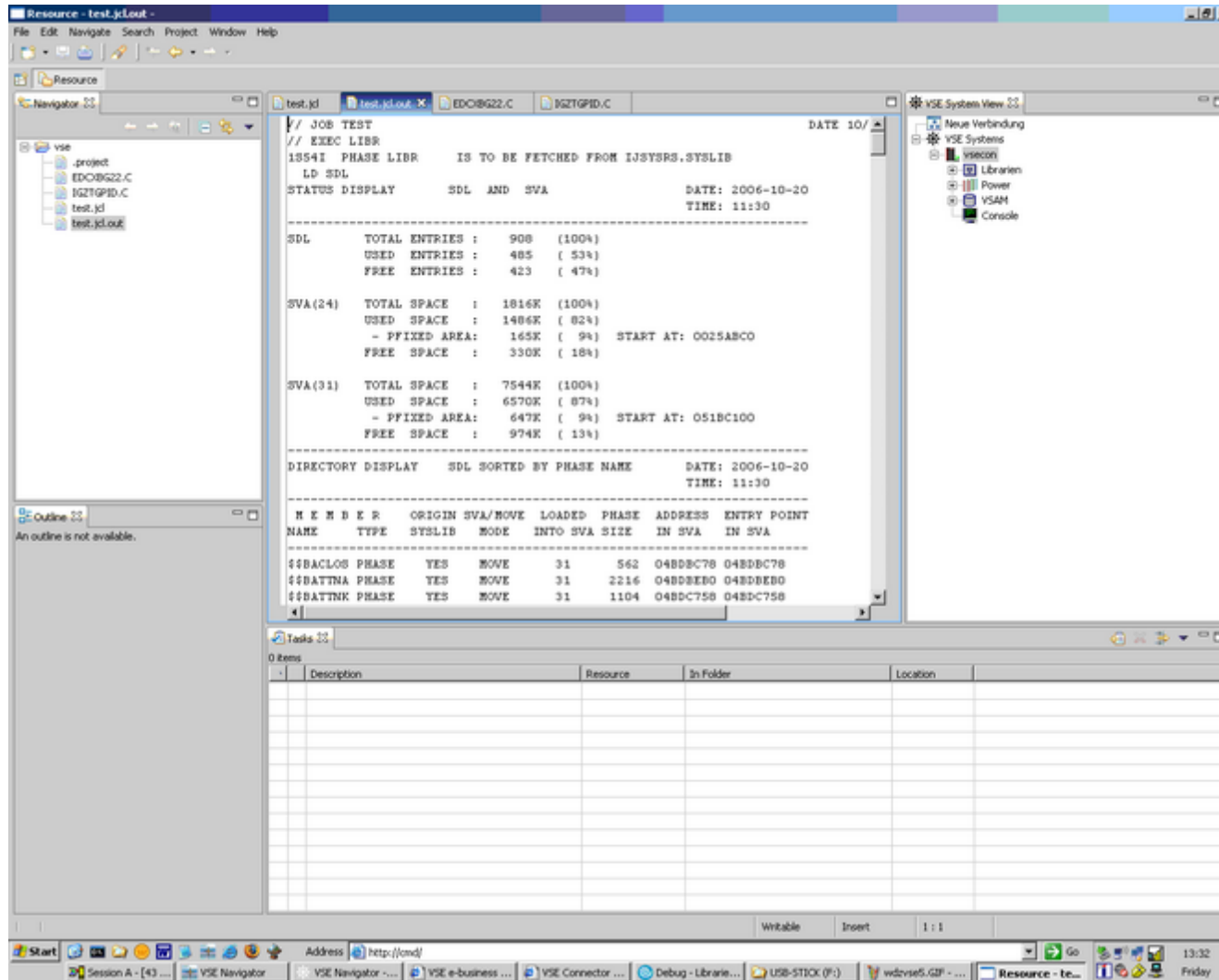
# Look and Feel (VSE Cobol source in RDz)



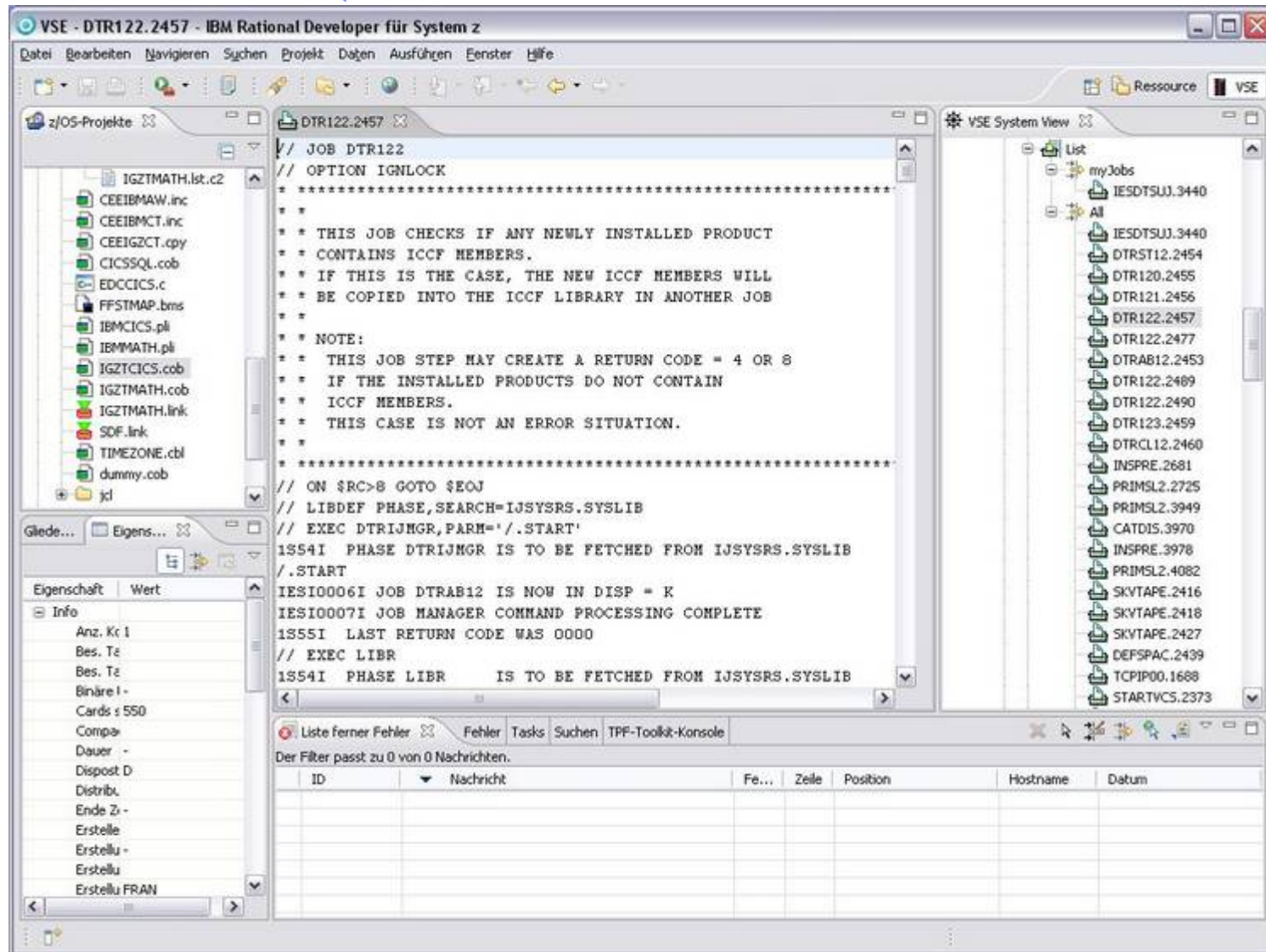
# Look and Feel (submit JCL)



# Look and Feel (view submitted job output)



# Look and Feel (browse & view POWER content)





## RDz Customers

ING  DiBa

HSBC 

HypoVereinsbank 



FIDUCIA 

 Bayern LB



ZÜRICH

swisscom

COMMERZBANK 



CREDIT SUISSE 

Sparkassen Informatik 

ITERGO  
Informationstechnologie GmbH

 dwp bank

Danske Bank

 Karlsruher

 UniCredit

kreditwerk 

 wüstenrot  
württembergische

Helaba   
Landesbank  
Hessen-Thüringen

Schwäbisch Hall   
Auf diese Steine können Sie bauen



# Questions

Visit us at [www.Qgrp.com](http://www.Qgrp.com)



**Stefan Schneider**  
**Q Group AG**

**[Stefan.Schneider@Qgrp.com](mailto:Stefan.Schneider@Qgrp.com)**