

Büyük Ölçekli Bir Sistem Projesinde IBM Rational Jazz Platformu Kullanarak Çevik Süreçlerin Uygulanması

Serap Bozbey

JAZZ Platformu ile Çevik Yazılım Geliştirme SCRUM Pratikleri

Serap Bozbey

Hazırlayan: Serap BOZBEY

1

aselsan Türk Silahlı Kuvvetlerini Güçlendirme Vakfı'nın bir kuruluşudur.

IBM Yazılım Zirvesi'11



Applying Agile Development to a Large-Scale
Systems Engineering Project Using the IBM®
Rational® Jazz® Platform

Serap BOZBEY
Senior Expert Software Engineer, ASELSAN Inc.
bozbey@aselsan.com.tr

IBM Software
Innovate2012
The Premier Event for Software and Systems Innovation

Next  NOW!

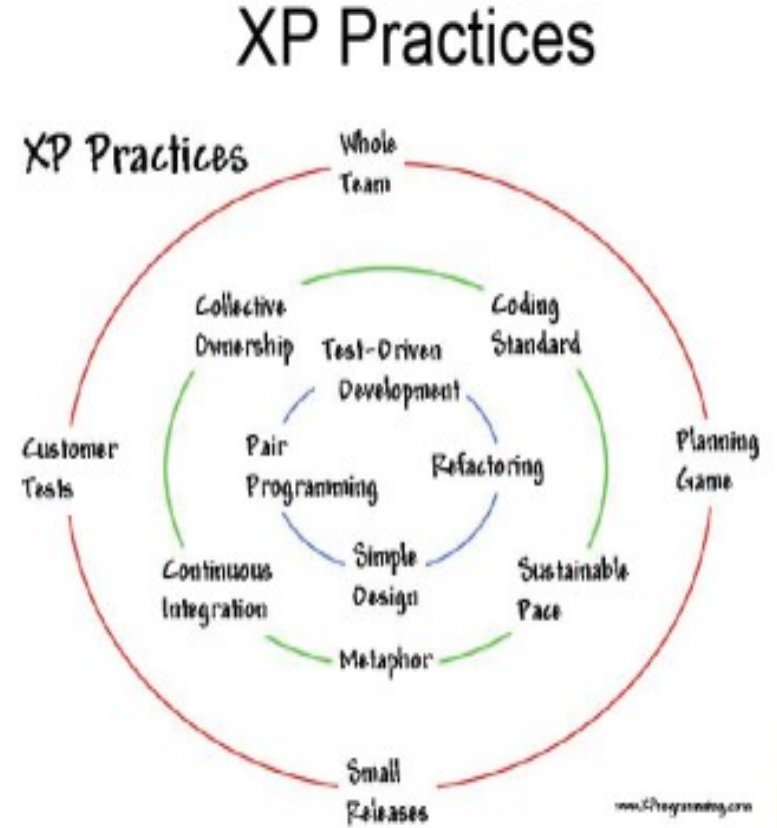
- Çevik Yazılım Geliştirme Yöntemleri
 - Extreme Programming (XP)
 - Scrum
 - Uygulanan Yöntem
- IBM JAZZ
- RTC ile Çevik Süreç Yönetimi
- Kazanımlarımız
- Değerlendirme

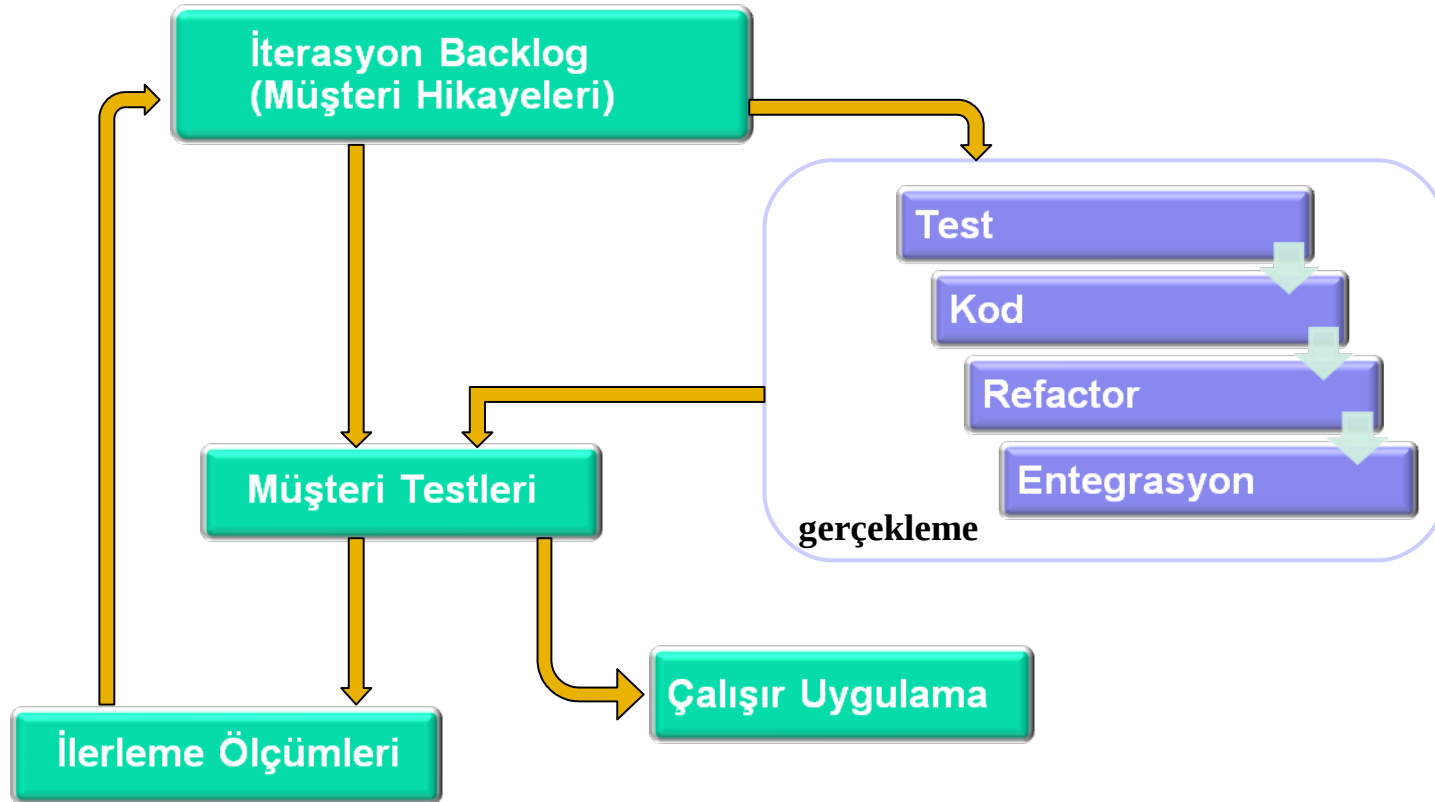
- Çevik yazılım geliştirme yöntemlerinden biridir.
- Müşteri merkezlidir, müşterinin tam olarak istediği ürünü üretmeyi hedefler
- İletişime çok önem verir
- Değişime ve değişikliklere açıktır

XP'nin Değerleri

- Basitlik → en basit ve çalışan yöntem
- İletişim → yüz yüze iletişim
- Geri bildirim
- Cesaret → ihtiyaç duyulduğunda yeniden yapılandırma işe yaramayan kodun atılması

- Planlama Oyunu
- Küçük ve Kısa Aralıklı Sürümler
- Sözlük (metaphor)
- Basit Tasarım
- Test
- Yeniden Yapılandırma
- Eşli Programlama
- Sürekli Entegrasyon
- 40 saat/hafta
- Kodlama Standardı
- Ortak Kod Sahipliği
- Müşterinin Geliştirme Ortamında Olması



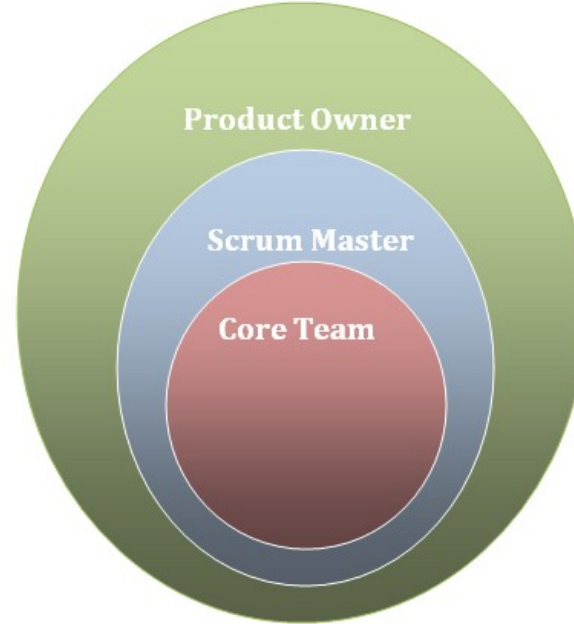


- Kısa döngüler ile çıktı üretme ve sürekli iyileştirme felsefesi üzerine oturan “çevik” proje yönetimi uygulamalarından biridir.
- Fazla dokümantasyon yapmadan
- Kısa periyotlarda geliştirme yapılarak
- Sonuçların müşteriye sıkça gösterilmesiyle
- Geribeslemeler doğrultusunda geliştirmelerin yönünün değişebildiği
- Gereksiz geliştirmeler minimuma indirilmeye çalışıldığı bir sürecin yönetimini üstlenir.

- Sürüm Planlama
- Sprint Planlama
- Sprint
- Günlük Scrum Toplantıları
- Sprint Değerlendirme
- Retrospective



- Product Owner
- Scrum Master
- Ekip



- Product Backlog
- Release Burndown – Ekip hızı
- Sprint Backlog
- Spring Burndown

A sample sprint backlog

Tasks	Mon	Tue	Wed	Thu	Fri
Code the user interface	8	4	8	0	0
Code the middle tier	16	12	10	4	0
Test the middle tier	8	16	16	11	8
Write online help	12	0	0	0	0
Write the foo class	8	8	8	8	8
Add error logging			8	4	0

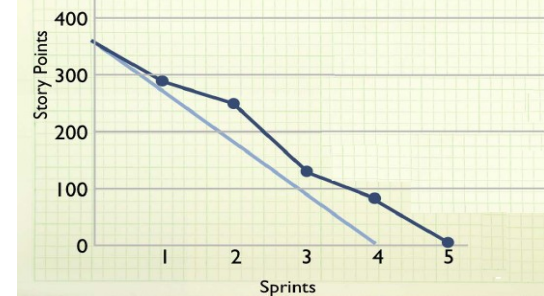
A sprint burndown chart

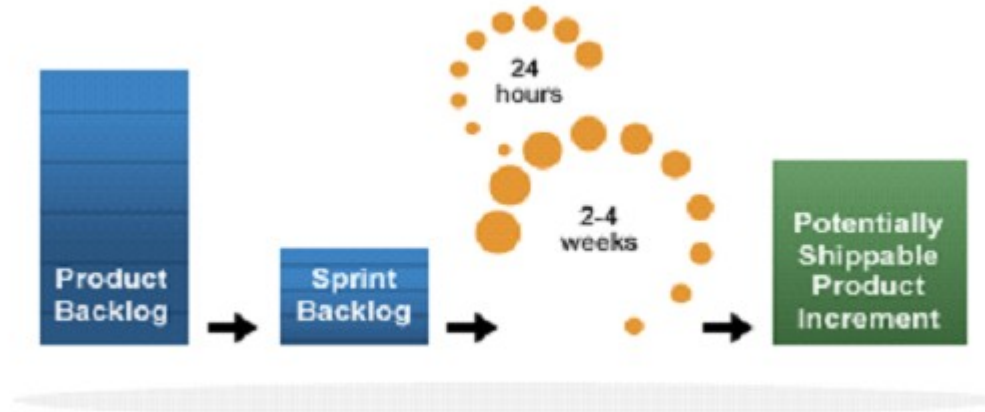


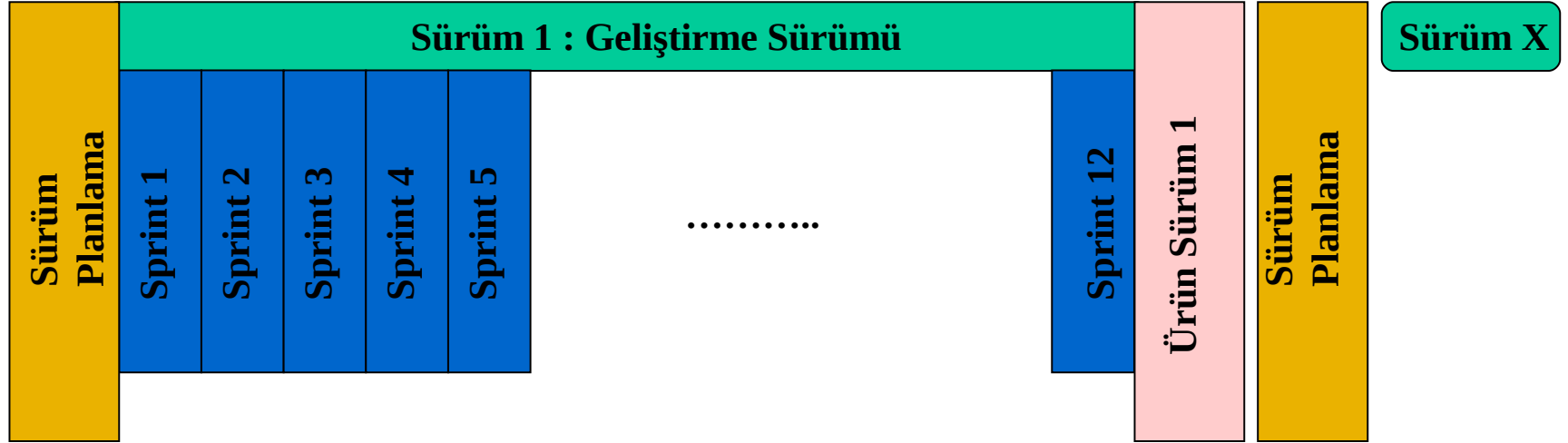
A product backlog

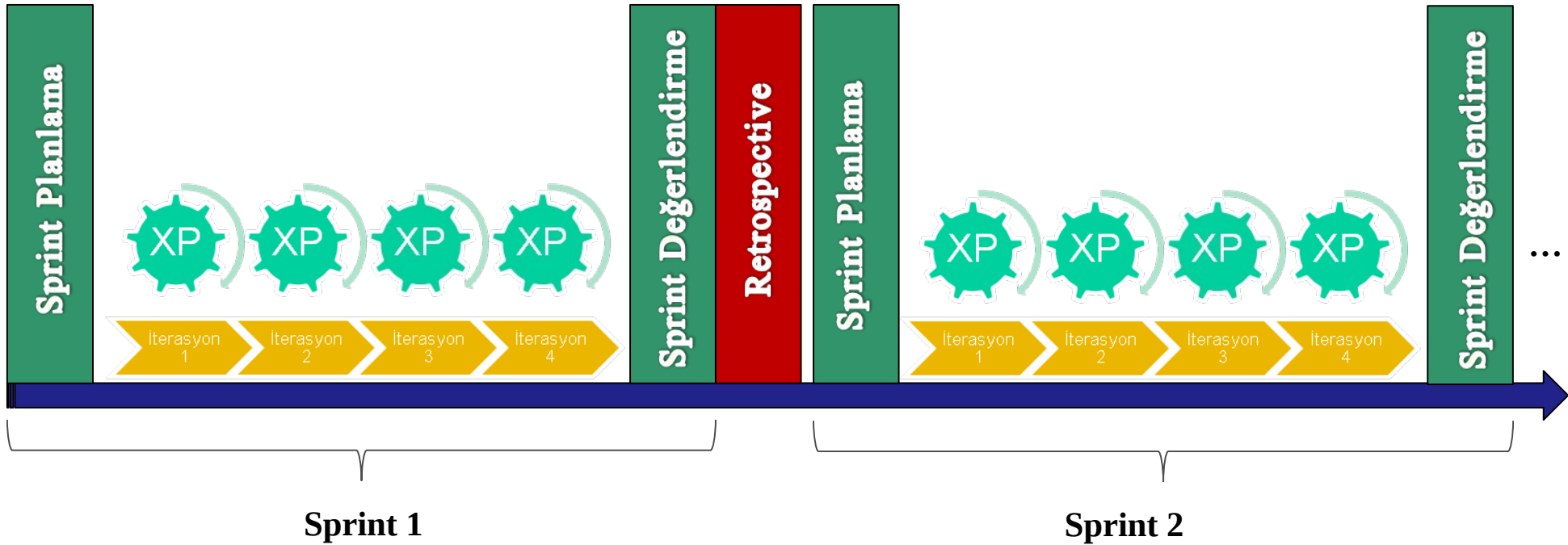
Story	Points	Done
As the site editor, I can add an article to the site.	5	✓
As a site visitor, I want to read a new article on the front page about once a week.	5	✓
As the site editor, I can include a teaser with each article.	3	
As a site member who has read a teaser on the front page, I want to read the entire article.	5	
As a site visitor, I can do a full-text search of article body, title, and author name.	8	
As a site visitor, I can subscribe to an RSS feed of articles.	5	
As a site visitor, I can post comments about articles so that others can read them.	13	

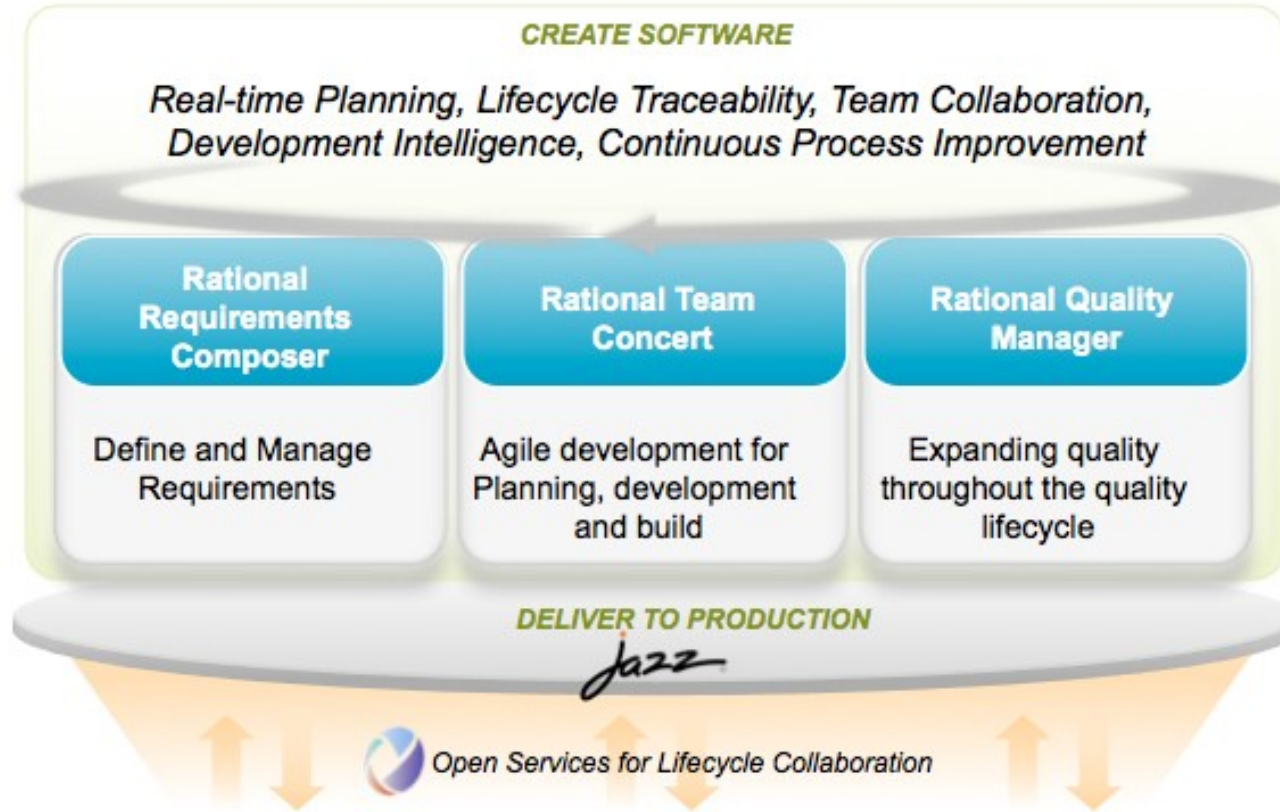
When will this project be released?











- RTC Server Kurulumu
- Kullanıcıların Tanımlanması
- Proje Tanımlama
- Eclipse Client
- Planlama
- Work Item Tanımlama
- Raporlama

The screenshot shows the Rational Jazz Team Server Administration console. The main content area is titled "Status Summary" and contains several sections:

- Server Status:**
 - Database Status: Connected
 - Uptime: 2 days, 12 hours, 45 minutes
 - Public URI: <https://sumela04.aselsan.com.tr:9443/jts>
- VM Memory Usage:**
 - Maximum Memory Allocation: 4000 MB
 - Current Memory Allocation: 369 MB
 - Free Memory (of Current): 0 %
- Build Information:**
 - Jazz Foundation - Core Libraries: 3.0 (RJF-420101112-0930)
- License Status:**
 - Client Access License Status: At least one of the Client Access Licenses has expired on 22 Mayıs 2011 (143 days ago)
 - Floating License Server: Not Configured
 - Floating License Client: Not Configured
- Server VM:**
 - Version: 1.5.0
 - Vendor: IBM Corporation
 - Name: IBM J9 VM
 - Details: J2RE 1.5.0 IBM J9 2.3 Windows Server 2008 R2 amd64-64 J9vmmw4423ifr-20100510 (JIT enabled)
J9VM - 20100509_57823_LEd5Mr
JIT - 20091016_1845ifr7_r8
GC - 20091026_AA
- Database Status:**
 - The database is configured correctly.
- Service Error Summary:**
 - There are no service errors.

The left sidebar contains navigation options: Status (Status Summary, Statistics, Component Status, Active Services), Configuration (Registered Applications, E-mail Settings, Database Connection, Feed Settings, Themes, Advanced Properties), Licensing (License Key Management, Reports, Issued Leases), and Communication (Consumers (Inbound), Friends (Outbound), Whitelist (Outbound)).

The image displays two screenshots of the IBM Jazz Team Server Administration interface. The top screenshot shows the 'Active Users' page, which includes a search filter and a list of users. The bottom screenshot shows the 'Edit User' page for Serap BOZBEY, displaying details such as User ID, E-mail Address, and Repository Permissions.

Active Users List (Top Screenshot):

Name	User ID	E-Mail	Actions
Aysun SANCAR YILMAZ	asancar	ASancar@mst.aselsan.com.tr	
com_user			
Esa GÜRLER			
Hande DOĞAN KOSEÖLLÜ			
JAZZAdmin			
Koray KADIOĞLU			
Murat YILMAZ			
Nagehan CEYLAN KARABORK			
Önder CEZAYIRLI			
Özge ÖZKOSE ERDOĞAN			
Özge KIZILAY			
Özlem ESEN TEMEL			
Selami TAŞEL			
Serap BOZBEY			
Tuncer ERDOĞAN			
Uğur ZONGÜR			
Ükü ŞENCAN			
Ümit DEMİR			

Edit User - Serap BOZBEY (Bottom Screenshot):

Details:

- User ID (case sensitive): * bozbey
- E-mail Address: * bozbey@mst.aselsan.com.tr

Repository Permissions:

- JazzAdmins
- JazzDWAdmins
- JazzGuests
- JazzUsers
- JazzProjectAdmins

Client Access Licenses:

- Rational Team Concert - Build System
 - Included - 50 - 49 available
- Rational Team Concert - ClearCase Synchronizer
 - Included
- Rational Team Concert - ClearQuest Synchronizer
 - 1 Included - 1 available
- Rational Team Concert - Contributor
 - Unlocked - 6 available
- Rational Team Concert - Developer
 - 0 available
- Rational Team Concert - Developer for IBM Enterprise Platforms
 - Trail - Deactivated
- Rational Team Concert - Stakeholder
 - Trail - Deactivated

The screenshot displays the 'Application Administration' interface for 'Change and Configuration Management (ccm)'. The main content area is titled 'Active Project Areas' and shows a project area named 'Deneme'. The interface includes a navigation menu on the left with options like 'Project Area Administration', 'Active Project Areas', and 'Archived Project Areas'. The main content area has tabs for 'Overview', 'Timelines', 'Roles', 'Permissions', 'Access Control', 'Releases', 'Categories', and 'Work Items'. The 'Overview' tab is active, showing details for the 'Deneme' project area. The details section includes a 'Summary' with the description 'Deneme Projesi', a 'Process' section for 'Scrum', and a 'Process Sharing' section with three radio button options. Below this is a 'Members' section with a table listing team members and their roles. The table has columns for 'Name', 'Process Roles', and 'Actions'. The members listed are Aysun SANCAR YILMAZ, Eda GÜRLER, Hande DOĞAN KÖSEOĞLU, Koray KADIOĞLU, and Murat YILMAZ, all with the role of 'Team Member'. There is also an 'Administrators' section at the bottom.

Change and Configuration Management (ccm) Application Administration Serap BOZBEY

Project Area Administration

Active Project Areas >

Deneme

Overview | Timelines | Roles | Permissions | Access Control | Releases | Categories | Work Items

Details Edit

Summary: Description: Deneme Projesi

Team Area Hierarchy Create Team

Deneme

Process

Scrum

A process template for Scrum. Scrum is a popular approach to manage projects in an agile way.

Process Sharing

Roles, permissions, preconditions and configuration data can be shared between project areas. A project area can choose to provide this information, consume this information, or not participate in sharing.

Do not share this project area's process

Allow other project areas to use this project area's process

Use the process from another project area for this project area

Members Add...

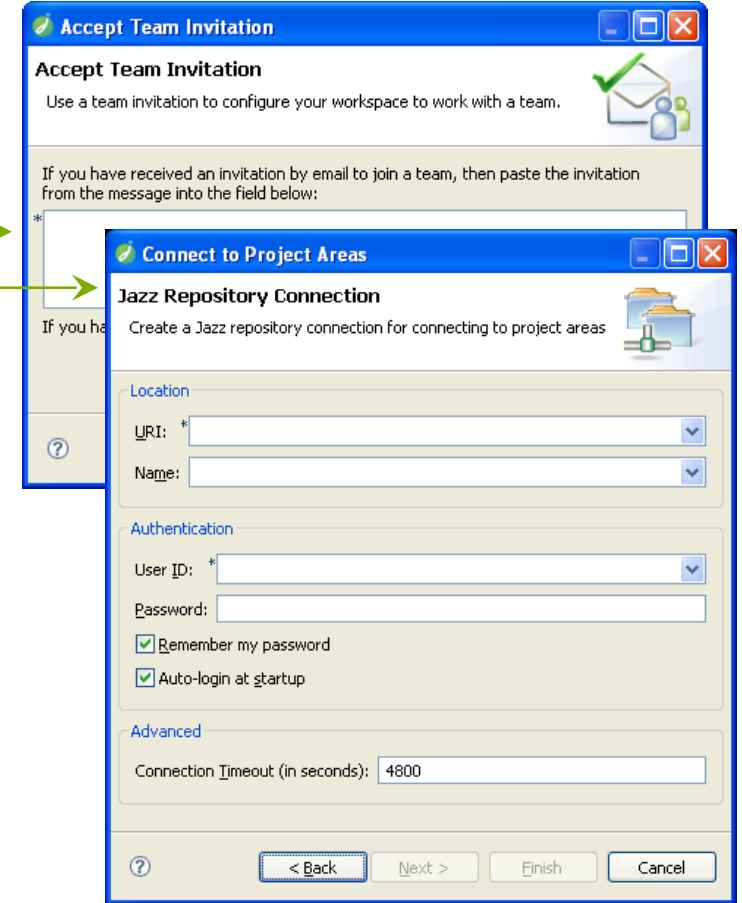
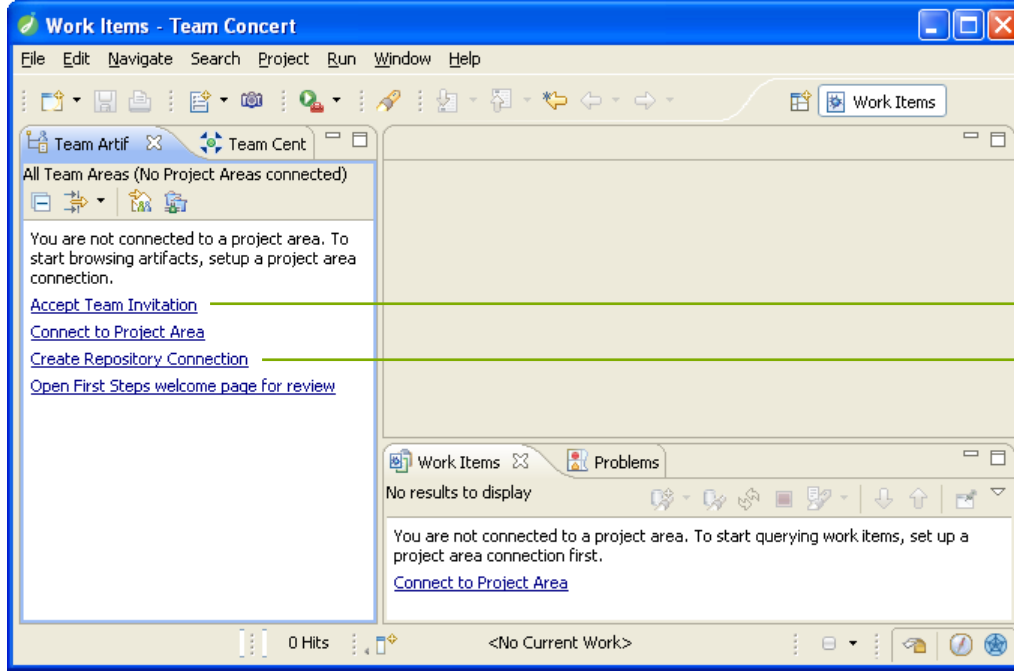
Roles determine a user's permissions as well as any preconditions and follow-up actions that are run for project and team operations. The roles assignments below are also valid in all the project's team areas. Unless configured otherwise, all users in the repository play the 'default' role.

Name	Process Roles	Actions
Aysun SANCAR YILMAZ	Team Member	
Eda GÜRLER	Team Member	
Hande DOĞAN KÖSEOĞLU	Team Member	
Koray KADIOĞLU	Team Member	
Murat YILMAZ	Team Member	

Show All

Administrators Add...

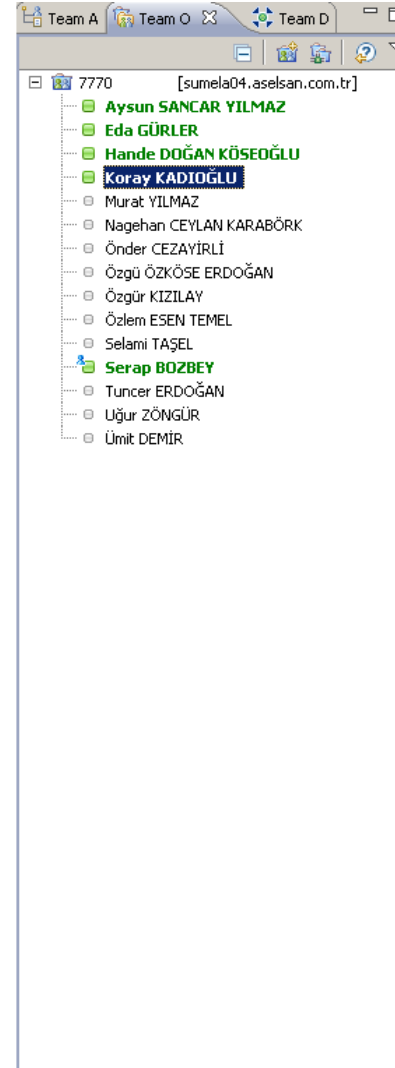
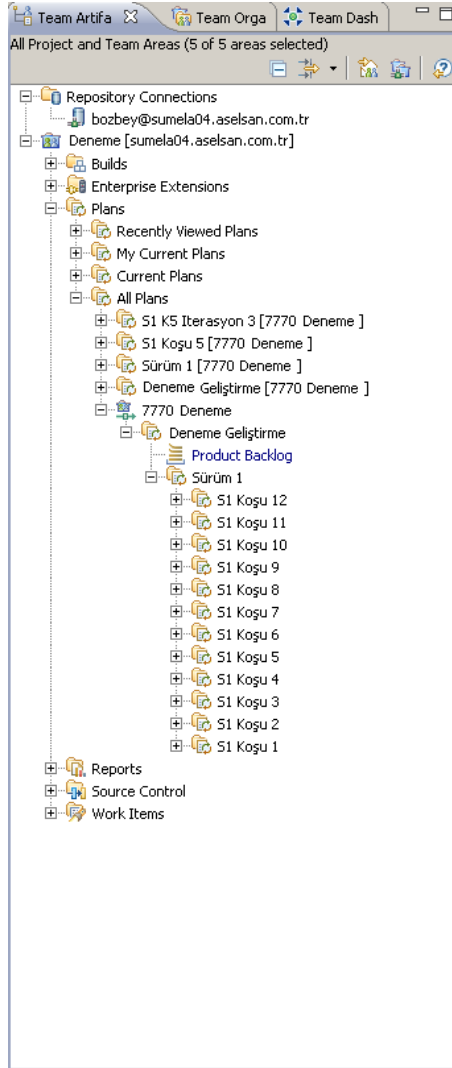
If you don't have the permissions you need, please contact one of the administrators below. Note that project administrators have the privilege to modify a project



The screenshot displays the Eclipse IDE interface for the Eclipse Client. The main window is titled 'Work Items - 7770 KaraSOJ - Eclipse'. The interface is divided into several panes:

- Left Pane (Repository Connections):** Shows a tree view of repository connections, including 'Deneme [sumela04.aselsan.com.tr]' and '7770 Deneme' with sub-items like 'S1 K5 Iterasyon 3', 'S1 Kogu 5', etc.
- Project Area (Center):**
 - Details:** Shows 'Deneme' with a 'Description' field containing 'Deneme Protesi'.
 - Members:** A table listing team members and their roles.

Name	Process Roles
<input checked="" type="checkbox"/> Aysun SANCAR YILMAZ	Team Member
<input checked="" type="checkbox"/> Eda GÜRLER	Team Member
<input checked="" type="checkbox"/> Hande DOĞAN KÖSEDOĞLU	Team Member
<input checked="" type="checkbox"/> Koray KADIOĞLU	Team Member
<input checked="" type="checkbox"/> Murat YILMAZ	Team Member
<input type="checkbox"/> Nagehan CEYLAN KARABÖRK	Team Member
<input type="checkbox"/> Önder CEZAYIRLI	Stakeholder
<input type="checkbox"/> Özgü ÖZKÖSE ERDOĞAN	Stakeholder
<input type="checkbox"/> Özgür KIZILAY	Team Member
<input type="checkbox"/> Özlem ESEN TEMEL	Team Member
<input type="checkbox"/> Selami TAŞEL	Team Member
<input checked="" type="checkbox"/> Serap BOZBEY	Scrum Master
<input type="checkbox"/> Tuncer ERDOĞAN	Team Member
<input type="checkbox"/> Uğur ZÖNGÜR	Team Member
<input type="checkbox"/> Ümit DEMİR	Product Owner
- Right Pane (Process Description):**
 - Process Description:** Lists 'Scrum' as a process template.
 - Timelines:** Shows a hierarchical view of project timelines, including '7770 Deneme [Project Timeline]', 'Deneme Geliştirme', and various 'S1 Kogu' and 'S1 K4 Iterasyon' items with their respective dates.

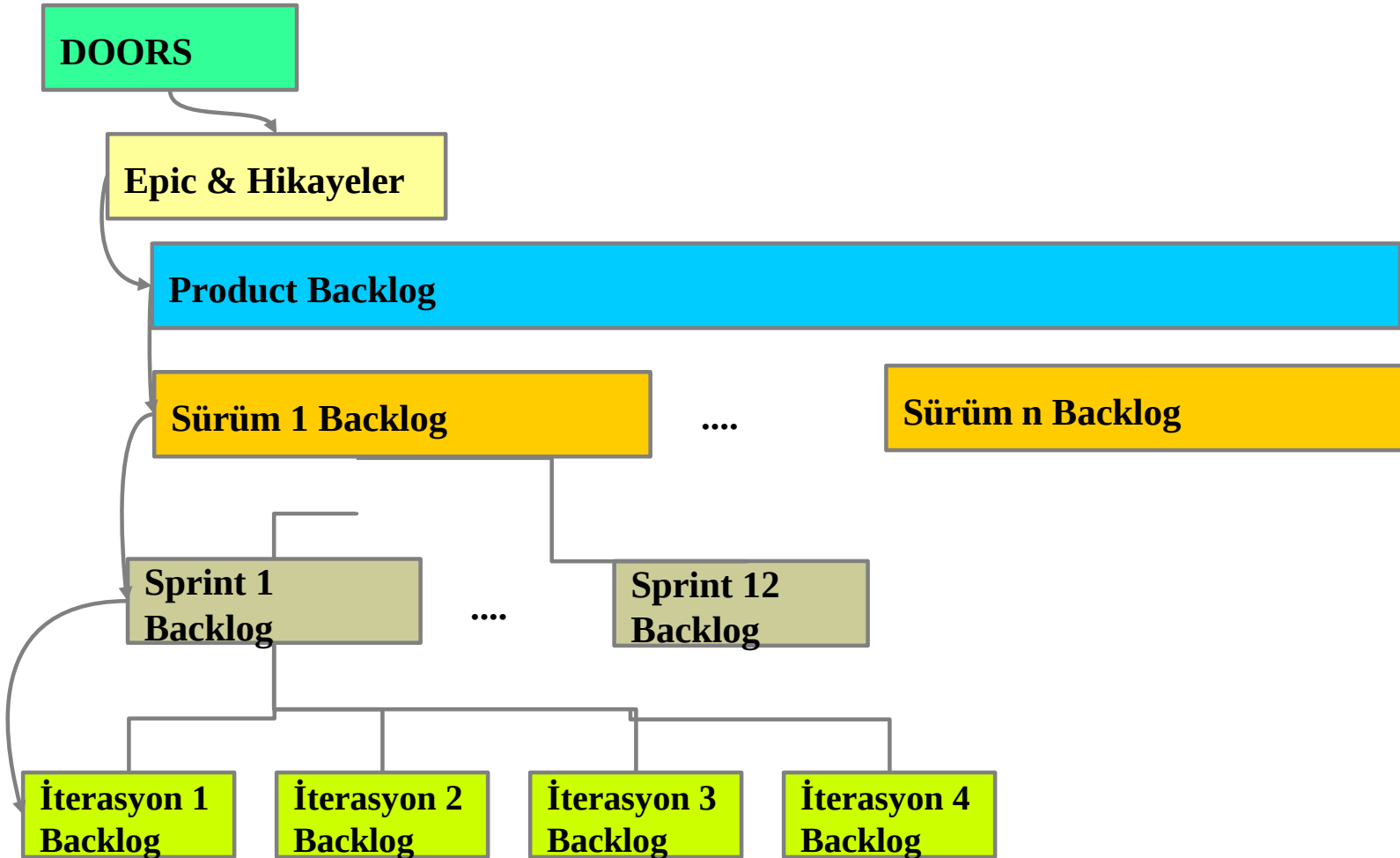


The image displays two screenshots of the Jira work item interface. The top screenshot shows an Epic 683 with the following details:

- Summary:** Yazılım Açılış YKB ile arayüzü olacaktır.
- Type:** Epic
- Filed Against:** 7770
- Progress:** 100% (0/0 h, Estimated: 100%)
- Project Area:** 7770
- Creation Date:** 06 Tem 2011 11:21
- Created By:** Serap BOZBEY
- Tags:** yazilim_svka, ygo_296
- Owned By:** Unassigned
- Priority:** Medium
- Planned For:** S1 Koşu 5
- Quick Information:** Subscribers (1): SB, Children (2): 3942, 3984

The bottom screenshot shows a Story 4052 with the following details:

- Summary:** SV KA gereklerrinin hikayelendirilmesinin tamamlanması
- Type:** Story
- Filed Against:** 7770
- Story Points:** 3 pts
- Progress:** 100% (0/0 h, Estimated: 100%)
- Project Area:** 7770
- Creation Date:** 11 Eki 2011 16:33
- Created By:** Ümit DEMİR
- Tags:**
- Owned By:** Serap BOZBEY
- Priority:** Unassigned
- Planned For:** S1 K5 İterasyon 4
- Quick Information:** Subscribers (1): ÜD



The screenshot displays the Eclipse IDE interface for managing a backlog. The main workspace shows a list of team members and their progress on tasks. The right sidebar contains various options for viewing and managing the backlog items.

Team Member	Closed Items	Open Items	Progress	Estimated
Aysun SANCAR YILMAZ	0	2	0/0 +0 h	100%
Eda GÜRLER	0	0	No Work	Estimated:
Hande DOĞAN KÖSEOĞLU	0	8	0/0 +0 h	Estimated: 100%
Koray KADIOĞLU	0	10	0/0 +0 h	Estimated: 100%
Murat YILMAZ	0	1	0/0 +0 h	Estimated: 100%
Nagehan CEYLAN KARABÖRK	0	6	0/0 +0 h	Estimated: 100%
Önder CEZAYİRLİ	0	0	No Work	Estimated:
Özgü ÖZKÖSE ERDOĞAN	0	0	No Work	Estimated:
Özgür KIZILAY	0	0	No Work	Estimated:
Özlem ESEN TEMEL	0	0	No Work	Estimated:
Selami TAŞEL	0	1	0/0 +0 h	Estimated: 100%
Serap BOZBEY	0	3	0/0 +0 h	Estimated: 100%

İterasyon Backlog – Taskboard Görünümü

Product Backlog [Kar] S1 K5 I4 Backlog [S1] S1 K5 Backlog [S1 Ko] ProductBL [ProductBL] S1 K5 I1 Backlog [S1] S1 K5 I2 Backlog [S1] S1 K5 I3 Backlog [S1]

Owner: 7770 KaraSOJ | Iteration: S1 K5 İterasyon 3 (05.10.2011 - 11.10.2011) | 38 Closed | 19 Open 0/0 | 0 h 100%

S1 K5 I3 Backlog

Columns: To Do, In Progress, Done

Task ID	Description	Status	Progress
2158	Alkon YKB'si, konfigürasyonunda, DKB'den alınan ... rini mesajı ile döndürecektir.	To Do	0%
2780	Alkon YKB'si, konfigürasyonunda, ... döndürecektir.	In Progress	50%
2781	... alacak ve ekranda gösterecektir.	Done	100%
666	SV KA YKB, operatörün sisteme giriş şifrelerini değiştirebilmesi için yetenek sağlayacaktır.	To Do	0%
3996	SV KA yazılımı menüden kullanıcı şifresi değiştirme yeteneği sunacaktır.	In Progress	50%
2120	Alkon YKB'si, INC konfigürasyonunda, INC ... döndürecektir.	To Do	0%
2849	Alkon YKB'si, INC konfigürasyonunda, YKB'sine yollayacaktır.	In Progress	50%
3973	Alkon YKB'si, ... alacaktır.	In Progress	50%
2850	... mesajını ekranda gösterecektir.	Done	100%
665	SV KA YKB, operatörün sistemde tanımlı kullanıcıları silmesi için yetenek sağlayacaktır.	To Do	0%
3991	SV KA yazılımı menüden kullanıcı silme yeteneğini bağlayacaktır.	In Progress	50%
475	SV KA YKB, operatör tarafından Açılış YKB kullanılarak Süpervizör Görev Modu'nun seçilmesi ve şifresinin doğru girilmesinin ardından kullanıcı arayüzü ekranını sunacaktır.	To Do	0%
3982	SVKA ekranı izleme modlarında ağıldığında (ET veya ED) logo üzerine izleme kontrol panelinin kaydırılarak yerleşiminin yapılması	In Progress	50%
3981	SVKA ana ekranının şablon resimler kullanılarak hazırlanması	In Progress	50%
735	ED KA YKB'si, yapılandırma	To Do	0%
3181	ED KA YKB'si, ilk açılışta	In Progress	50%

View As: Hikaye Dağılımı, Planned Time Puanlı, Ranked List, Taskboard (selected)

Actions: Re-sort

Exclude: Assigned Items, Empty Groups, Estimated Items, Execution Items, Expression, Items from Sub-Iter..., Items from Sub-Teams, Planned Items (Dep...), Resolved Items, Unchanged Items

Related Plans: S1 K5 Backlog [S1 Koşu 5], Product Backlog [KaraSOJ G]

Notes | Planned Items | Charts | Links

The screenshot shows the Eclipse IDE interface for managing work items. The main window is titled "S1 K5 Backlog" and displays a list of tasks. The tasks are organized into a hierarchy, with the current view showing tasks under "S1 K5 Backlog [S1 Koşu 5]".

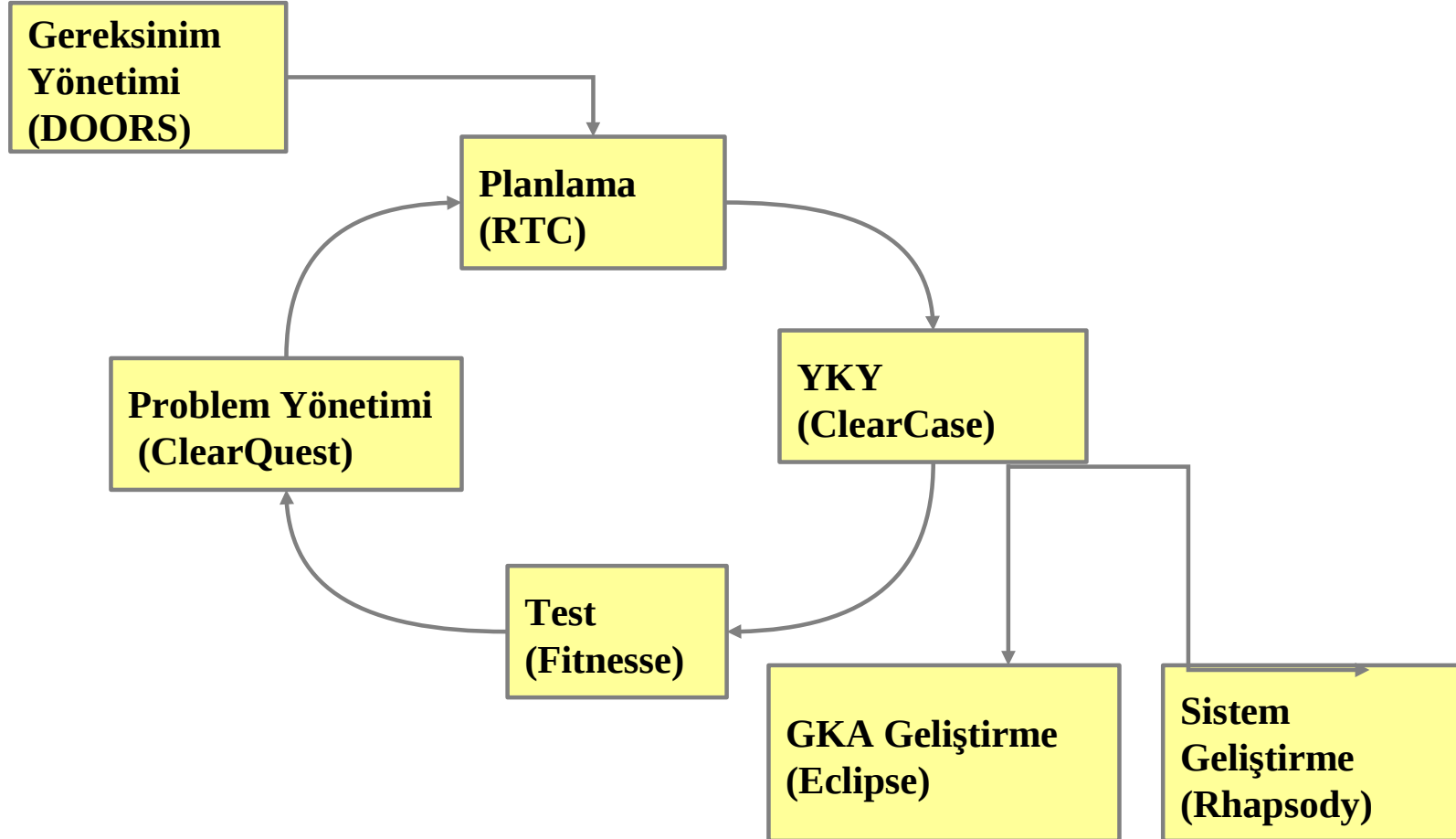
Task List:

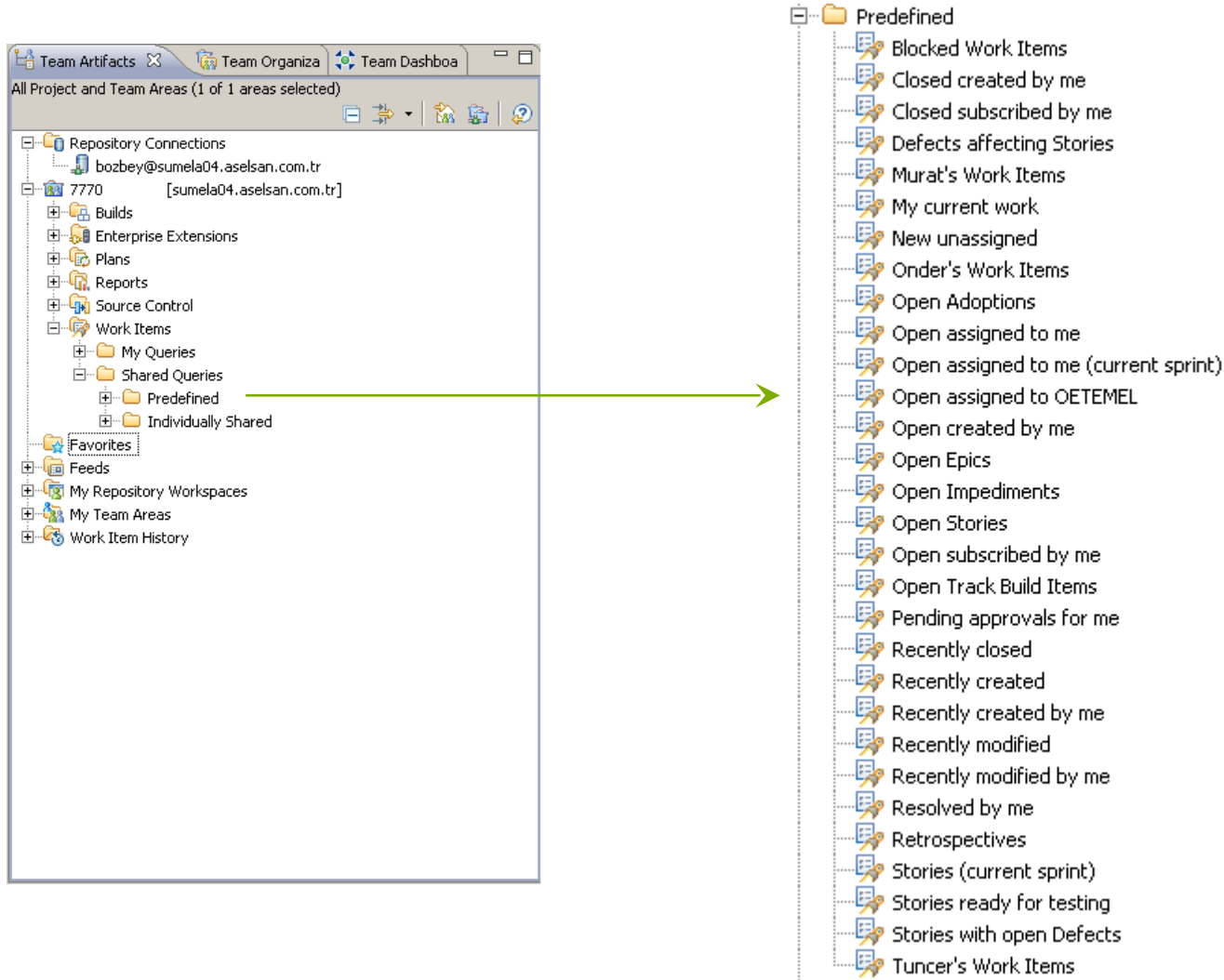
Task ID	Description	Priority	Assignee	Parent	Category	Iteration
602	SV KA YKB, operatörün sisteme giriş şifrelerini değiştirebilmesi için yetenek sağlayacaktır.	Medium	Children (3)	None	S1 Koşu 5	S1 K5 İterasyon 4
7770	SV KA YKB, operatörün sistemde tanımlı kullanıcıları silmesi için yetenek sağlayacaktır.	Medium	Children (5)	None	S1 Koşu 5	S1 K5 İterasyon 4
0	SVKA yazılımı silinmesi onaylanmış kullanıcının bilgilerini açılış yazılımına aktaracaktır.	New	Parent (1)	None	Unassigned	S1 K5 İterasyon 4
0	SV KA yazılımı silinme üzere seçilen kullanıcı için operatörden onay alacaktır.	New	Parent (1)	None	Unassigned	S1 K5 İterasyon 4
0	SV KA yazılımı kullanıcı silme yeteneğini sunan pencere sunacaktır.	New	Parent (1)	None	Unassigned	S1 K5 İterasyon 4
0	SV KA yazılımı sistemde tanımlı kullanıcı listesini açılış sunucu yazılımına alacaktır.	New	Parent (1)	None	Unassigned	S1 K5 İterasyon 4
0	SV KA YKB, operatör tarafından Açılış YKB kullanıcılar Süpervizör Görev Modu'nun seçilmesi ve şifresinin doğru girilmesinin ardından kullanıcı arayüzü ekranını sunacaktır.	Medium	Children (4)	None	S1 Koşu 5	S1 K5 İterasyon 4
0	SV KA YKB'nin Açılış YKB ile arayüzü olacaktır. Mesajların detayları YATT dokümanında verilecektir.	Medium	Children (2)	None	S1 Koşu 5	S1 K5 İterasyon 4

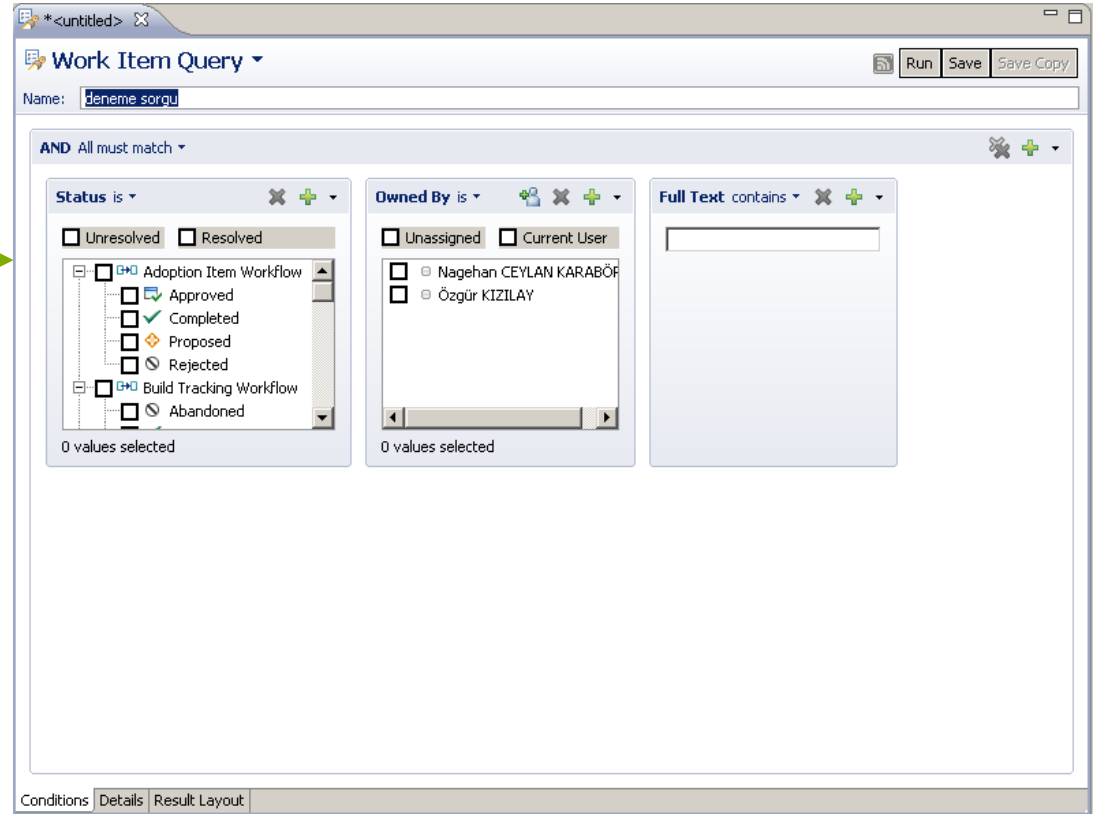
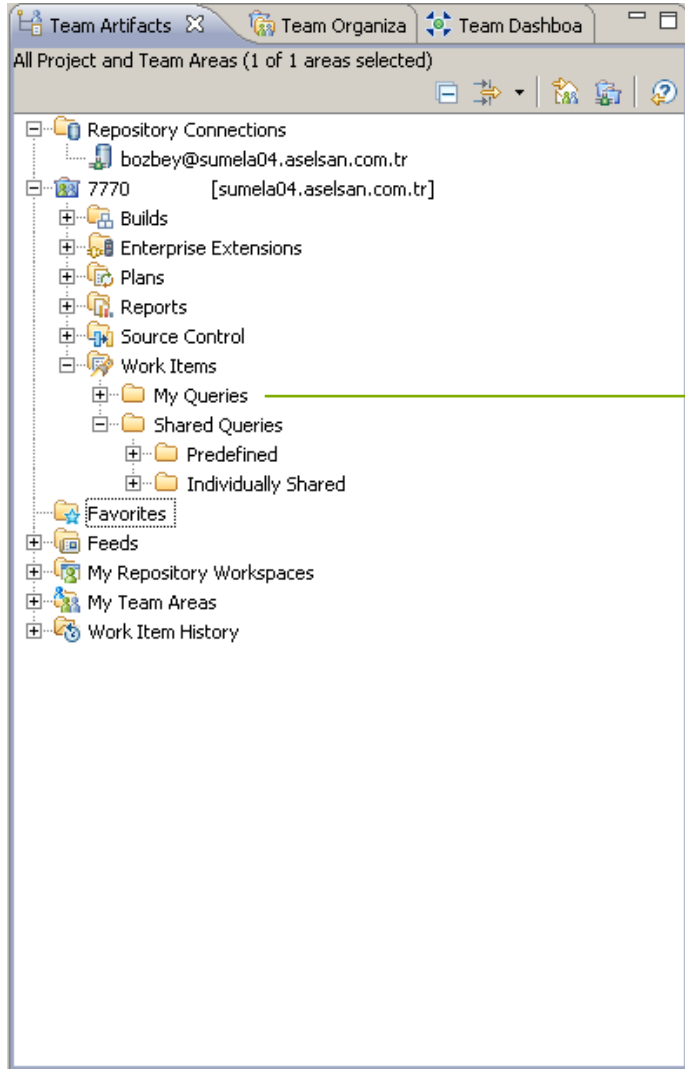
The interface also shows a sidebar with "View As" options (Hikaye Dağılımı, Planned Time Puanlı, Ranked List, Taskboard) and "Actions" (Re-sort, Exclude, Related Plans). The bottom status bar indicates "7770" and "<No Current Work>".

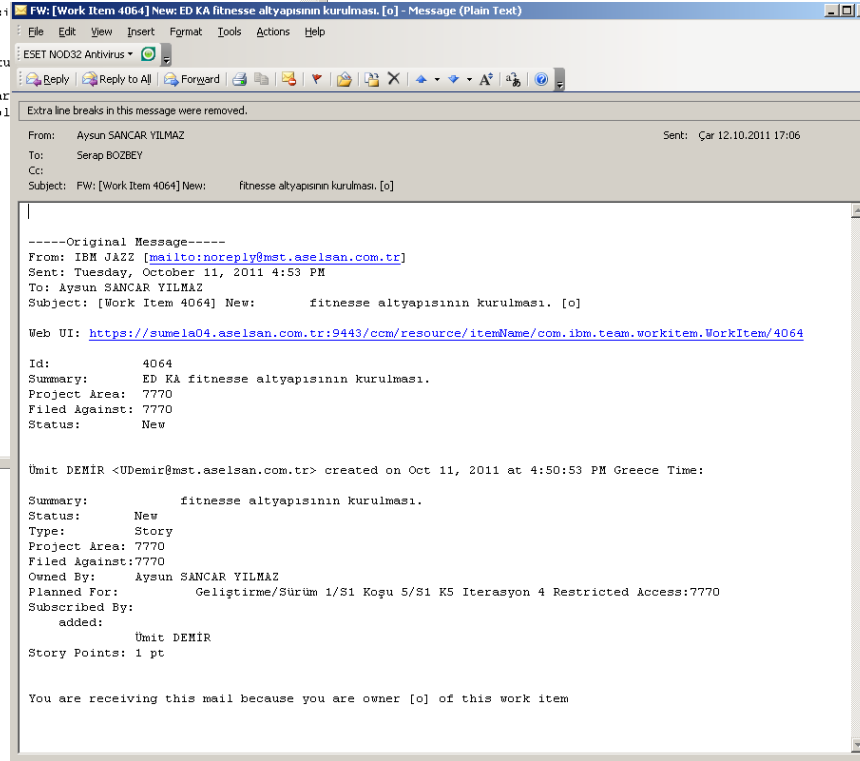
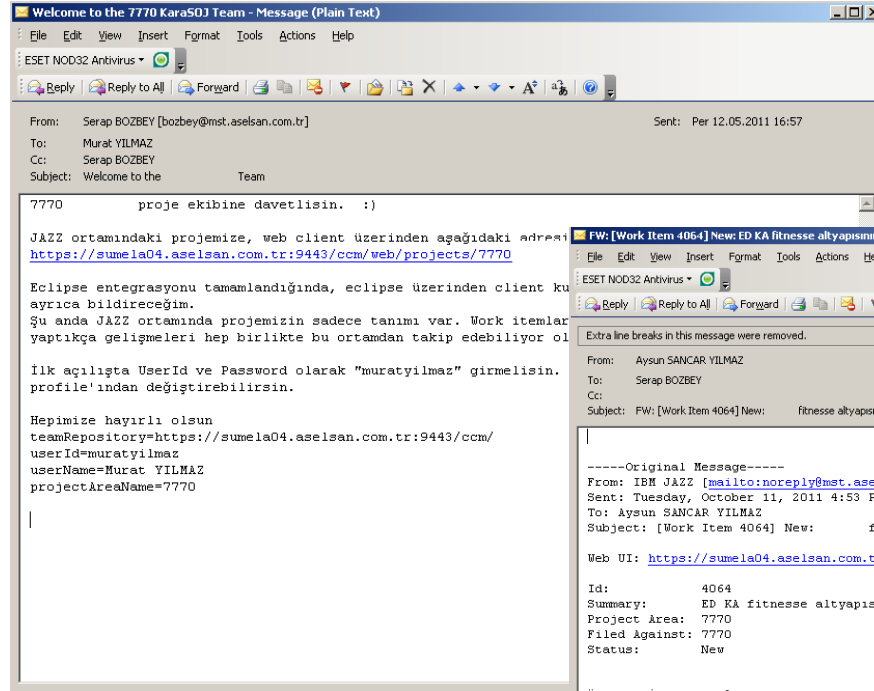
The screenshot shows the Eclipse IDE with the Product Backlog tool open. The tool displays a list of work items for a specific iteration. The main area contains a table with the following columns: Priority, Status, Points, and a 'View As' dropdown. A warning message at the top states: "The plan contains more than 2048 work items. Please split the plan by assigning work items to other iterations or team areas." The table lists 15 work items, all with a priority of 'Medium' and a status of 'Open'. The points range from 1300 to 2158. The right sidebar shows options for 'View As' (Ranked List, Work Breakdown), 'Actions' (Re-sort), and 'Exclude' (Assigned Items, Empty Groups, etc.).

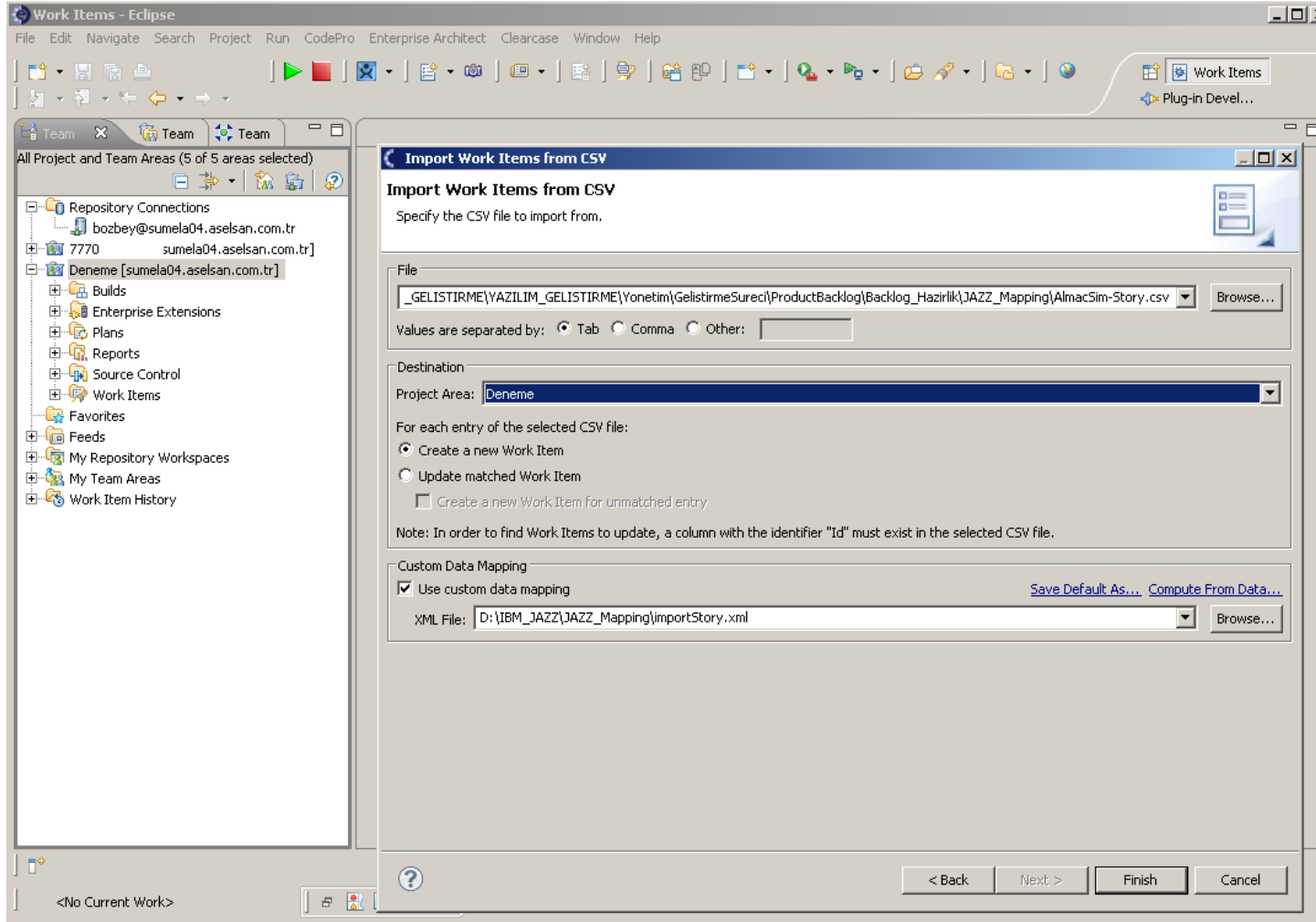
Priority	Status	Points
Medium	Open	2158
Medium	Open	1343
Medium	Open	2157
Medium	Open	1308
Medium	Open	2156
Medium	Open	1307
Medium	Open	1306
Medium	Open	2155
Medium	Open	1305
Medium	Open	2154
Medium	Open	1304
Medium	Open	2153
Medium	Open	1335
Medium	Open	1303
Medium	Open	2152
Medium	Open	1302
Medium	Open	2151
Medium	Open	1301
Medium	Open	1300

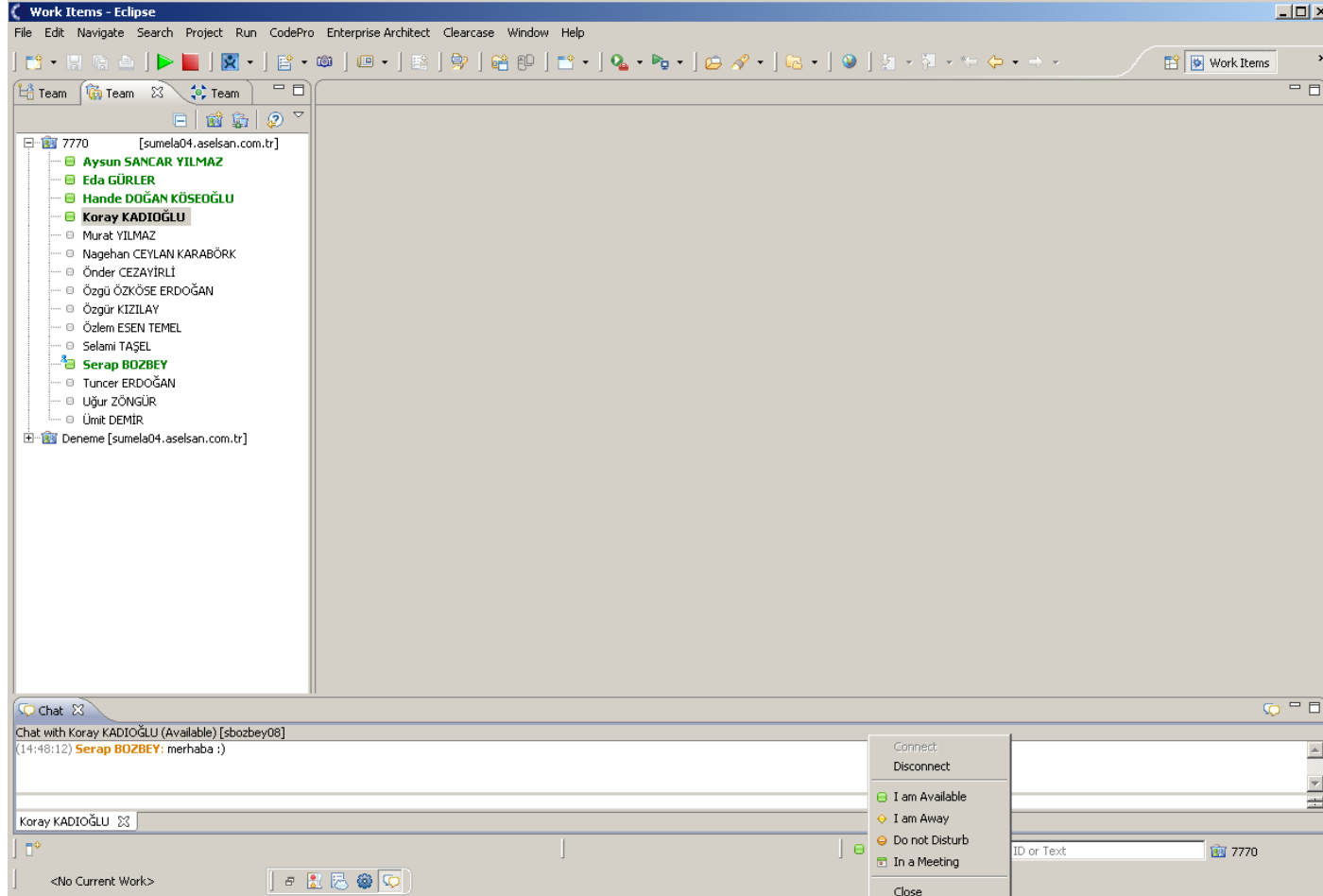




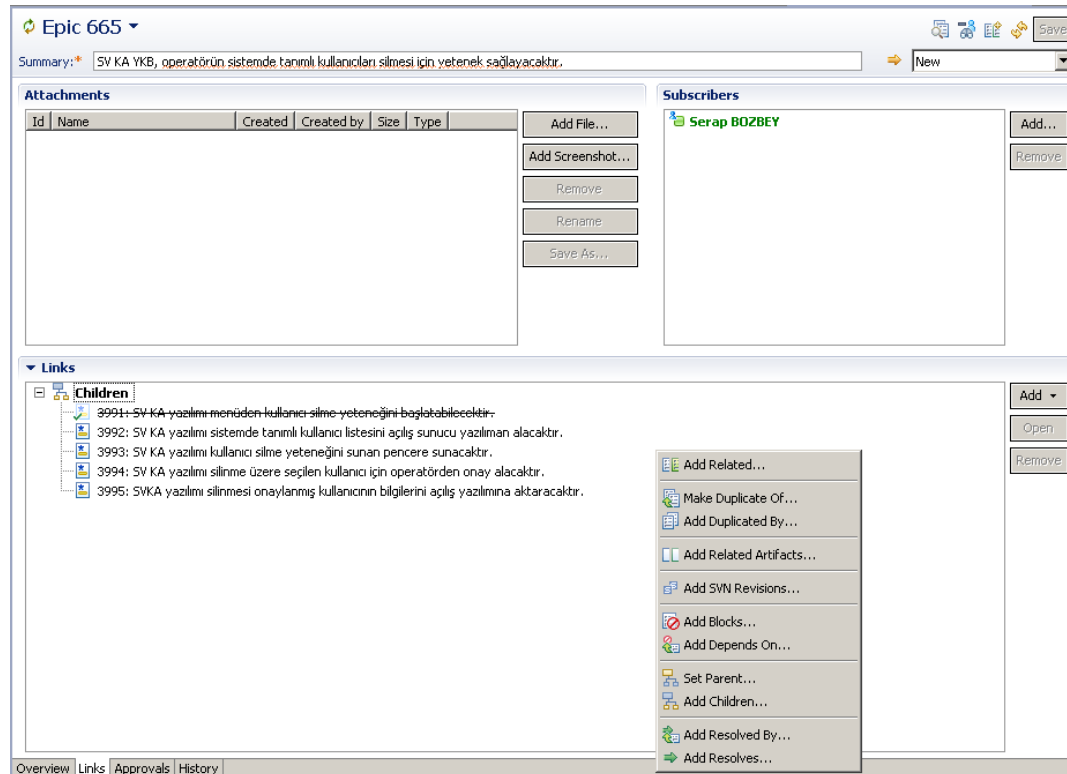


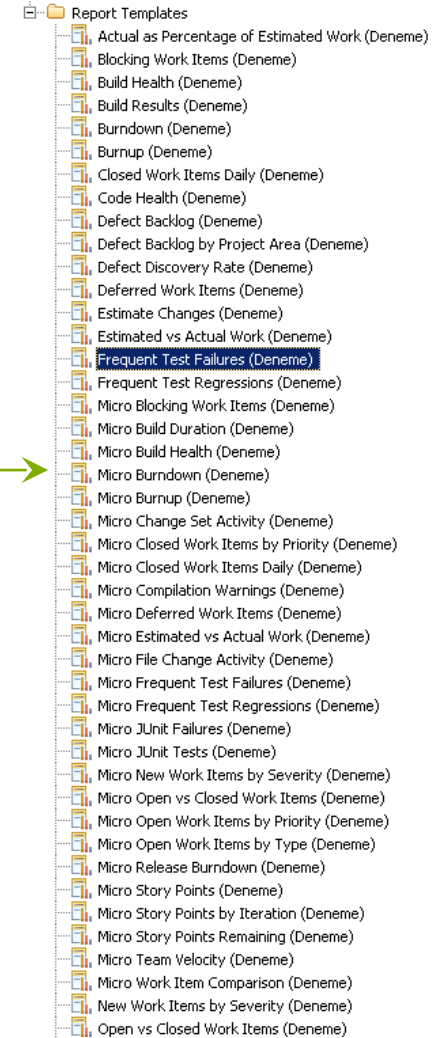
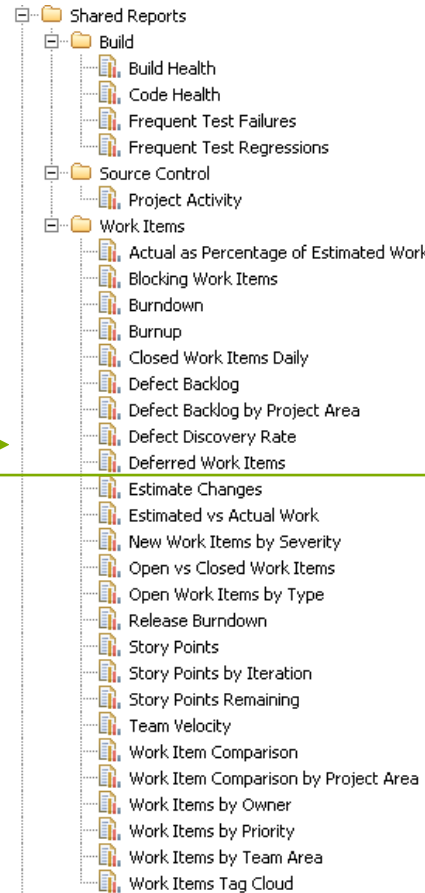
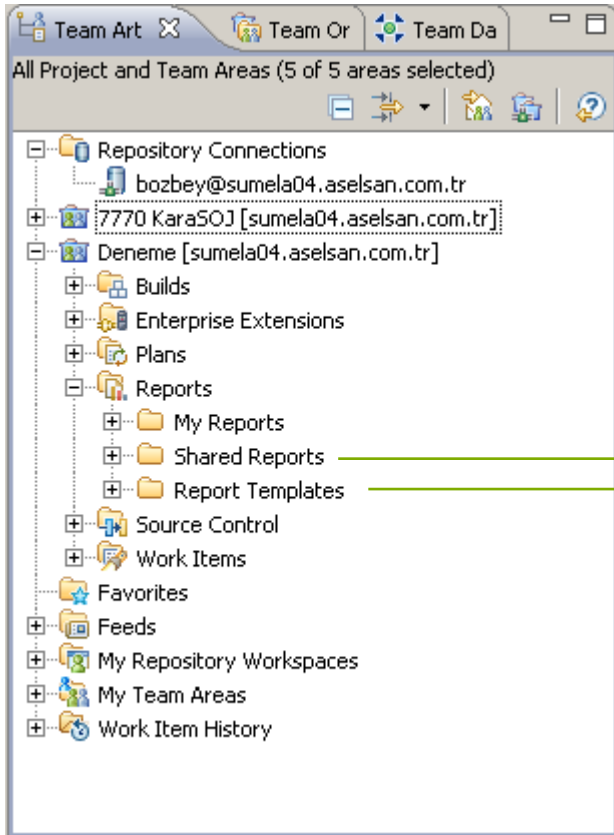




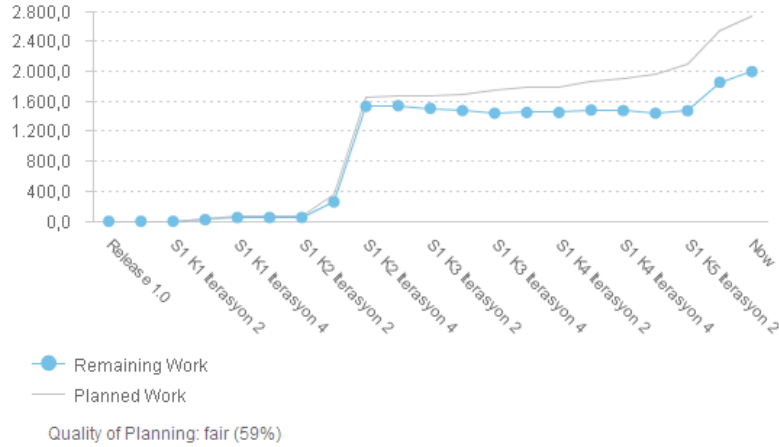


- Bridge Mekanizması
 - ClearCase Repository
 - RTC Repository

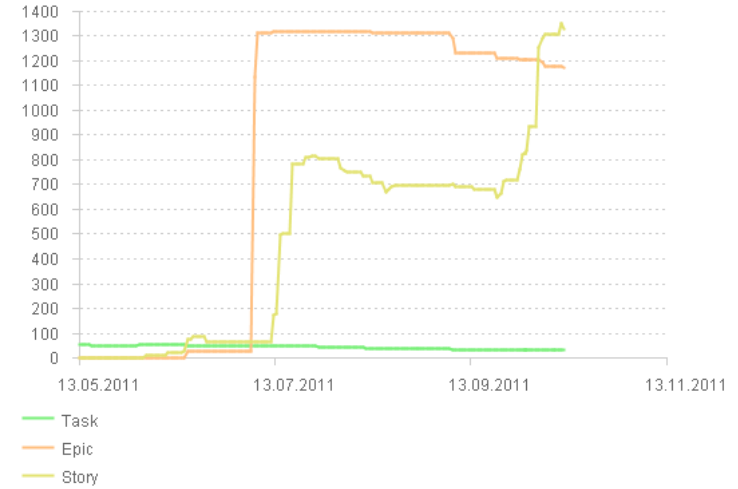




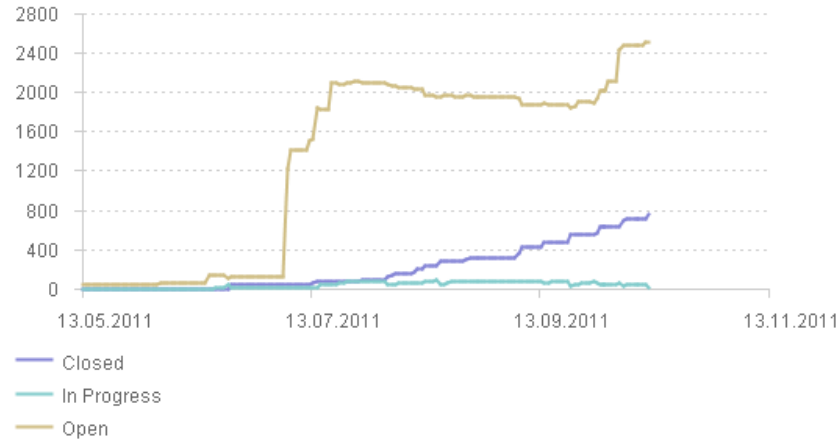
Release burndown



Open work items by type



Open vs. closed work items



Open vs Closed Work Items

Team Area

My Team Areas

Unassigned

1 of 2 selected

Category

0 of 1 selected

Iteration

Current Iteration

- S1 K1 Iterasyon 2
- S1 K1 Iterasyon 3
- S1 K1 Iterasyon 4
- S1 K2 Iterasyon 1
- S1 K2 Iterasyon 2
- S1 K2 Iterasyon 3
- S1 K2 Iterasyon 4

0 of 34 selected

Severity

Normal

0 of 1 selected

Type

- Epic
- Story
- Task

0 of 3 selected

- Değişime ve değişikliklere açıklık
- Ekip içi iletişimin artması
- Müşterinin tam olarak istediği ürünün üretilmesi
- Gereksiz geliştirme faaliyetlerinin azalması
- Verimliliğin artması
- Testlerle desteklenmiş daha az hatalı yazılım

- Backlog yönetiminin kolaylaşması
- Bilgi paylaşımının artması
- Planlamadaki eksikliklerimizin giderilmesi
- Çevik süreç işleyişinin takibi

İyileştirilmesi Gereken Hususlar:

- Raporlama yetenekleri daha esnek olabilir.

SORULARINIZ ???