



**TEST AUTOMATION AT BİMAR**



**BİMAR TEST TEAM**

## 1. Selection Of Test Automation Tool

Telerik Test Studio tool was selected.

## 2. Automation Projects

- **Agency Project- Yna**
  - 26 developer, 5 tester, 12 years, 3.568.168 rows of code
  - 7 countries, 1106 users
- **Portship Project – Arles**
  - 4 developer, 2 tester, 7 years, 1.664.486 rows of code
  - 3 countries, 322 users

## 3. Infrastructure setup for test automation

## 4. Recording of test scenarios

### Yeni Nesil Acentelik(YNA)

Arkas Holding şirketlerinin acentelik alanında uzun yıllardır geliştirdiği bilgi ve tecrübenin yansıtılmasıyla oluşturulmuş konteyner acenteliği yazılım paketidir. 2005 yılında başlayan ve 2009 yılında tamamlanan TÜBİTAK destekli bir yazılım geliştirme projesinin ürünüdür. Birden fazla şirket ve armatörün aynı anda takibinin ve yönetiminin yapılmasına imkan sağlamaktadır. Güçlü entegrasyon altyapısı ile gerek yurt içi gerekse yurt dışında farklı uygulamalarla bağlantılı çalışabilmesi öne çıkan bir diğer özelliğidir. Günümüzde yurt içi ve dışındaki pek çok şirkette aktif olarak kullanılan ve hızla yayılan bir acentelik ürünüdür.

YNA paketinin içeriğinde yer alan modüller aşağıdaki tabloda sunulmuştur:



Test Automation Tool showdown. TestComplete, HP Functional Tester (QTP), CodedUI, White, Telerik Test Studio, Ranorex and Qualiber comparison table

	Test Complete	QTP	CodedUI	Telerik Test Studio	Qualiber	White	Test Automation FX	Ranorex	Watir	PushToTest TestMaker [Comming soon!]	Canoo [Comming soon!]	Selenium [Comming soon!]	M
Test Management	Yes. Built in.	No. Needs Quality Center	No. Need TFS and MTM	Yes. Built in.	No	No	No	Yes. Built in.	No	No	No	No	N
Cost	About \$2K Enterprise Seat License	\$8K Seat License	Free with Microsoft Visual Studio	About \$2K Enterprise Seat License	Open Source	Open Source	Free personal edition License is rather cheap	About \$2k Premium License	Open Source	Open Source	Open Source	Open Source	O S
Separate Test Execution Module	Yes. Licensed TestExecute	No. Must use Full QTP install	Yes	Yes	No	No	Yes. Built in Visual studio with the tests	Yes. Runtime License	Open Source	Open Source	Open Source	Open Source	O S
User Community	Big and responsive	Biggest by far	Small	Yes	Small	Small	A small one	Big and fast	Fair				
Ease of use	Programming background is highly recommended. But with resources with very few technical skills.	Good for beginners. However, Programming background is needed for advanced automation. But with proper planning succeed with resources with very few technical skills.	Programming skills are mandatory	Programming background is highly recommended. But with proper planning succeed with resources with very few technical skills.	Programming skills are mandatory	Programming skills are mandatory	Programming skills are mandatory	Easy-to-use tool, no proprietary scripting language - instead real C#/VB.NET; Script-free Testing for Non-Programmers	Programming skills are mandatory. However Ruby is quite easy to learn for this purpose				
Support	Excellent. SmartBear personnel actively participates in Forums	Improving. Knowledge Base access is restricted to Paid subscribers	Very little found on MSDN and on the internet	Excellent. Telerik personnel actively participates in Forums	Very little	Very little	Yes. They have support.	Good Support via Support Center (Forum, User Guide, Screencasts, Support Query, Trainings and Webinars)	Forums and user groups online.				
Support Cost	20% of Purchase price	20% of Purchase price	Expensive support consultants	Not identified if any!	None	None	?	None	None				
Scripting Languages	VBScript, Jscript, C# Script, C++ Script, Delphi Script	VBScript	The programming language chosen in the test project in visula Studio	Not intended	C# & VB.Net	C# & VB.Net	C# & VB.Net	Real C# and VB.NET	Ruby				
Version Control Integration	Can be integrated into TFS and Visna Studio	Via Quality Center only	Integrates into Visual Studio	Integrates into Visual Studio	Integrates into Visual Studio	Integrates into Visual Studio	Integrates into Visual Studio	Integrates into Visual Studio	Yes. It must be possible to write some stuff for that in Ruby				
Descriptive Programming (Key words, Action words, Primitives)	Yes (Keywords)	Very (Action words)	No. Solely pure programming. Has a very simple graphical editor for drafted test. But this is not available for tests which is not "in draft state"	Yes (keywords)	No But you can create you own framework	No But you can create you own framework	No. But the code is very nicely structured. But you can create you own framework	Yes (Keywords)	No. But you can create you own framework				
Web Testing	Yes	Yes. IE (good), Firefox (limited)	Yes. (IE for sure)	Intention of the tool	Yes	No	Yes	Yes, all popular browsers (IE, Firefox, Safari, Chrome)	Yes Whilst Watir supports only Internet Explorer on Windows, Watir-WebDriver supports Chrome, Firefox, Internet Explorer, Opera and also				

<http://www.testtech.dk/TestComplete/updated-worlds-test-automation-tool-comparison-matrix>



<b>Telerik Test Studio</b>	<b>EGGPLANT</b>	<b>HP</b>	<b>Sikulix - OpenSource</b>
<b>Kullanımı Kolay</b> <b>Fiyat avantajı</b> <b>Diğer Telerik</b> <b>Companentleri ile uyumlu</b> <b>olması avantaj</b> <b>TFS ile entegre</b> <b>Kodlama gerekirse C#</b> <b>destekli (custom kod</b> <b>çagirimi ihtiyacı olacak, veri</b> <b>temizleme vb..)</b> <b>Test Projeleri Visual Studio</b> <b>export yapılabiliyor.</b> <b>Mobil uyumu var</b> <b>Performans Load test</b> <b>paketi</b>	Sadece İmaj yakalama mantığında çalışması dezavantaj. (coklu dil destekli sayfalarda yeni kayıt yapmak gerekiyor). TFS entegrasyonu yok. Mobil odaklı	Telerik test studio mantiginda, ama ALM desteği yok. TFS le senkronize değil. (ALM=TFS)	Open source olması güzel fakat destek konusunda sıkıntı yaşayabiliriz. Gelişen ihtiyaçlara destek vermesinde risk görüyoruz.



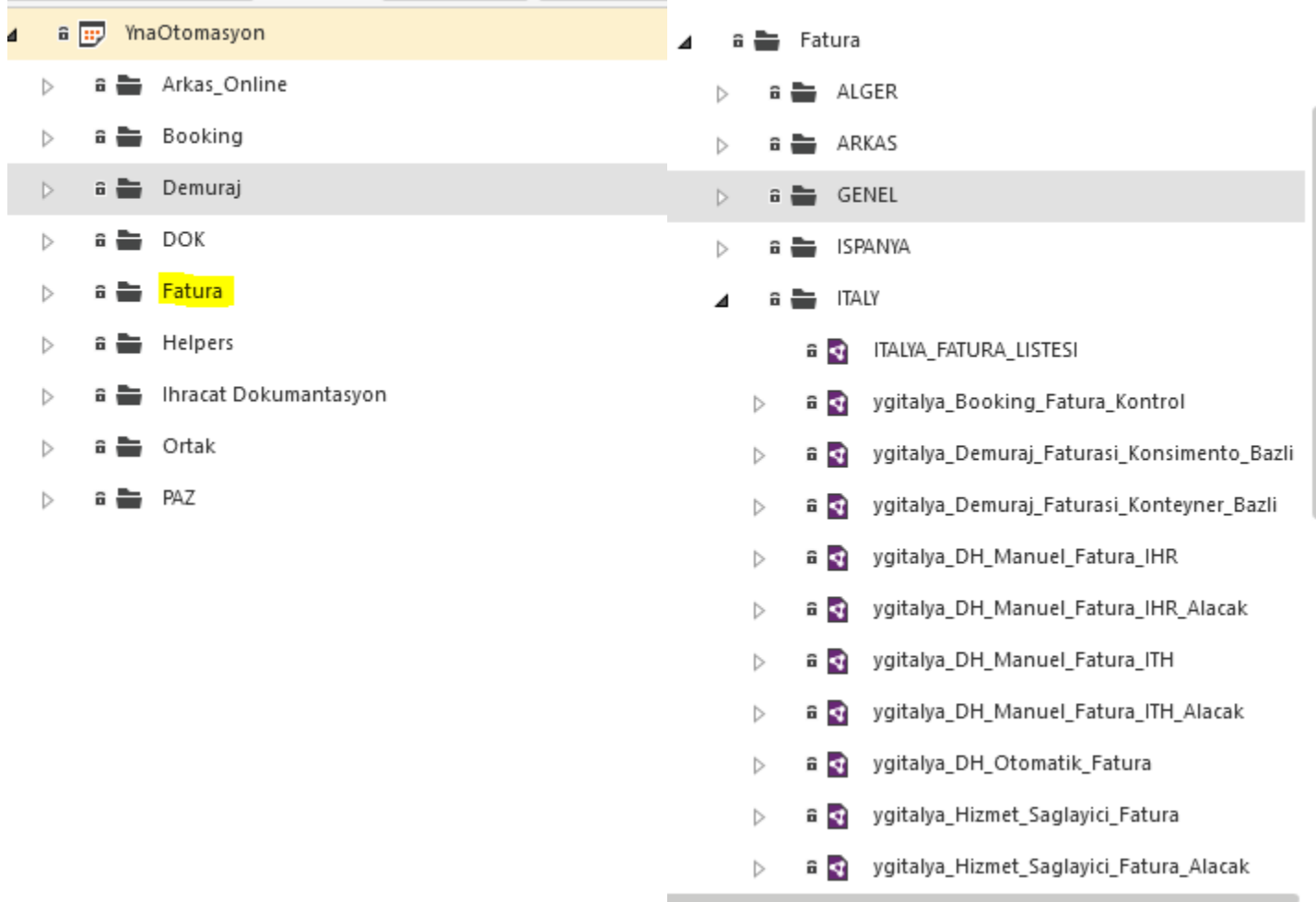
## Many different roles were involved in the transition to test automation:

- A new site was created to run automated test scenarios. IIS and dns definitions were made. **Deployment Team**
- A new database schema for data automation has been created. **Database Specialists**
- A new field was opened in the reporting server for reports and the reports were deployed. **Reporting Specialists**
- Configuration of the new database schema at YNA Project an reporting server settings. **Technical Leaders**
- Creating stored procedures in the database to be used in test scenarios. **Software Developers**
- Recording test scenarios and developing necessary codes for the scenarios. **Test Team**



New project created at TFS for automation.

- - 👤 TEST OTOMASYON PROJELERİ
    - ▲ 📁 ARLES
      - ▷ 📁 ArlesOtomasyon
    - ▷ 📁 BuildProcessTemplates
    - ▲ 📁 YNA
      - ▲ 📁 YnaOtomasyon
        - ▷ 📁 Arkas\_Online
        - ▷ 📁 Booking
        - ▷ 📁 Data
        - ▷ 📁 Demuraj
        - ▷ 📁 DOK
        - ▲ 📁 Fatura
          - ▷ 📁 ALGER
          - ▷ 📁 ARKAS
          - ▷ 📁 GENEL
          - ▷ 📁 İSPANYA
          - ▷ 📁 ITALY
          - ▷ 📁 MAROC
          - ▷ 📁 MISIR
          - ▷ 📁 ORNEK
          - ▷ 📁 TUNUS
        - ▷ 📁 Helpers
        - ▷ 📁 İhracat Dokumantasyon
        - ▷ 📁 Ortak
        - ▷ 📁 PAZ
        - ▷ 📁 TestLists
- 👤 YENİ NESİL ACENTE LİK (YNA)



The screenshot displays a file explorer interface with two main folders: YnaOtomasyon and Fatura. The YnaOtomasyon folder contains subfolders: Arkas\_Online, Booking, Demuraj, DOK, Fatura, Helpers, Ihracat Dokumantasyon, Ortak, and PAZ. The Fatura folder contains subfolders: ALGER, ARKAS, GENEL, ISpanya, and ITALY. The ITALY folder is expanded, showing a list of files: ITALYA\_FATURA\_LISTESI, ygitalya\_Booking\_Fatura\_Kontrol, ygitalya\_Demuraj\_Faturasi\_Konsimento\_Bazli, ygitalya\_Demuraj\_Faturasi\_Konteyner\_Bazli, ygitalya\_DH\_Manuel\_Fatura\_IHR, ygitalya\_DH\_Manuel\_Fatura\_IHR\_Alacak, ygitalya\_DH\_Manuel\_Fatura\_ITH, ygitalya\_DH\_Manuel\_Fatura\_ITH\_Alacak, ygitalya\_DH\_Otomatik\_Fatura, ygitalya\_Hizmet\_Saglayici\_Fatura, and ygitalya\_Hizmet\_Saglayici\_Fatura\_Alacak.

- YnaOtomasyon
  - Arkas\_Online
  - Booking
  - Demuraj
  - DOK
  - Fatura
  - Helpers
  - Ihracat Dokumantasyon
  - Ortak
  - PAZ
- Fatura
  - ALGER
  - ARKAS
  - GENEL
  - ISpanya
  - ITALY
    - ITALYA\_FATURA\_LISTESI
    - ygitalya\_Booking\_Fatura\_Kontrol
    - ygitalya\_Demuraj\_Faturasi\_Konsimento\_Bazli
    - ygitalya\_Demuraj\_Faturasi\_Konteyner\_Bazli
    - ygitalya\_DH\_Manuel\_Fatura\_IHR
    - ygitalya\_DH\_Manuel\_Fatura\_IHR\_Alacak
    - ygitalya\_DH\_Manuel\_Fatura\_ITH
    - ygitalya\_DH\_Manuel\_Fatura\_ITH\_Alacak
    - ygitalya\_DH\_Otomatik\_Fatura
    - ygitalya\_Hizmet\_Saglayici\_Fatura
    - ygitalya\_Hizmet\_Saglayici\_Fatura\_Alacak



## ➤ Country-based routine invoice tests were added.

ACCOUNTING COMPANY	INVOICE TYPE	
ARKAS DENİZCİLİK		11
	Manifesto Kontrol	
	Konşimento Faturası ithalat	
	Booking Fatura Kontrol	
	Konşimento Faturası ihracat	
	Serbest fatura ithalat	
	Serbest fatura ihracat	
	Demuraj Faturası-Konşimento Bazlı	
	Demuraj Faturası-Konteyner Bazlı	
	Acente Faturası (ithalat)	
	Acente Faturası (ihracat)	
	Hizmet Sağlayıcı	
	İade Fatura	

ACCOUNTING COMPANY	INVOICE TYPE	
ARKAS ITALY		15
	Manifesto Kontrol	
	Konşimento ithalat - alacak	
	Booking Fatura Kontrol	
	Konşimento ihracat - alacak	
	Serbest fatura ithalat - alacak	
	Serbest fatura ihracat - alacak	
	Demuraj Faturası-Konşimento Bazlı	
	Demuraj Faturası-Konteyner Bazlı	
	Hizmet Sağlayıcı	
	Hizmet Sağlayıcı Alacak	
	Dış hesaplar Serbest ITH	
	Dış hesaplar Serbest IHR	
	Dış hesaplar Serbest ITH Alacak	
	Dış hesaplar Serbest IHR Alacak	
	Dış Hesaplar Otomatik Fatura Armatör- Armatör Alacak	

<b>ACCOUNTING COMPANY</b>	<b>SCENARIO COUNT</b>
ARKAS DENİZCİLİK	11
ARKAS ITALY	15
ARKAS MAROC	15
ARKAS EGYPT	13
ARKAS ALGER	16
ARKAS TUNUS	15
ARKAS SPAIN	13
<b>TOTAL</b>	<b>98</b>

- **Invoice test scenarios**
  - **Test scenarios were recorded via Telerik Test Studio.**
  - **Codes were developed for the scenario steps.**
  - **By accessing the database via codes, invoice deletion and invoice integration status checks were performed.**

TEST STUDIO Tests Test Lists Results Reports

Record Execute Preferred browser Base Url Wait On Elements 15,000 ms Debugger Client Ready 60,000 ms

Record/Execute Quick Execute Edit

PROJECT Search Tests as Step All Tests

- ALGER
- ARKAS
  - ARKAS\_FATURA\_LISTESI
  - yg\_arkas\_Demuraj\_Faturasi\_Konsimento\_Bazli
  - yg\_arkas\_Demuraj\_Faturasi\_Konteyner\_Bazli
  - ygarkas\_AcenteFaturasi\_IHR
  - ygarkas\_AcenteFaturasi\_ITH
  - ygarkas\_Booking\_Fatura\_Kontrol
  - ygarkas\_Hizmet\_Saglayici\_Fatura
  - ygarkas\_lade\_Fatura
  - ygarkas\_Konsimento\_Fatura\_IHR
  - ygarkas\_Konsimento\_Fatura\_ITH
  - ygarkas\_ManifestoKontrol
  - ygarkas\_SerbestFatura\_IHR
  - ygarkas\_SerbestFatura\_ITH**
  - ygarkas\_SerbestFatura\_ITH\_WithLogin
- GENEL

ygarkas\_AcenteFaturasi\_ITH x ygarkas\_SerbestFatura\_ITH x

Search All Steps Switch to Storyboard

1	<input type="checkbox"/>	Execute test 'Login'	
2	<input checked="" type="checkbox"/>	Navigate to : 'http://ynaototest.bimar.com/08.Faturalama.Web/Faturalaslemleri/SerbestFaturaListesiPage.aspx'	
3	<input checked="" type="checkbox"/>	Click 'MMainContentMainContentSerbestFaturaEkleLinkButtonLink'	
4	<input checked="" type="checkbox"/>	Select 'ByValue' option '1' on 'MMainContentMainContentFaturaNumarasiControlOfisKoduDropDownListSelect'	
5	<input checked="" type="checkbox"/>	Select 'ByValue' option '1' on 'MMainContentMainContentFaturaNumarasiControlKumpanyaKoduDropDownListSelect'	
6	<input checked="" type="checkbox"/>	Select 'ByValue' option '2' on 'MMainContentMainContentFaturaNumarasiControlFaturaBasimGrubuDropDownListSelect'	
7	<input checked="" type="checkbox"/>	Enter text 'SDVH0001' in 'MMainContentMainContentMusteriAramaControlMusteriKodTextBoxText'	
8	<input checked="" type="checkbox"/>	Click 'MMainContentMainContentIhrSeferLokasyonAutoSecControlSeferLokasyonAramalImageButtonImage'	
9	<input checked="" type="checkbox"/>	Connect to pop-up window : 'http://ynaototest.bimar.com/Dialogs/IhrSeferLokasyonAramaDialog.aspx?seferLokasyonId=ctl00_ctl00_MM'	
10	<input checked="" type="checkbox"/>	Click 'MainContentTarihAraligiDatePickerBaslangicTemizleImageButtonImage'	
11	<input checked="" type="checkbox"/>	RadInput('ctl00_MainContent_TarihAraligiDatePicker_RotaRadDatePickerBaslangic_dateInput_wrapper'): value '01.11.2014' entered.	
12	<input checked="" type="checkbox"/>	Click 'MainContentTarihAraligiDatePickerBitisTemizleImageButtonImage'	
13	<input checked="" type="checkbox"/>	RadInput('ctl00_MainContent_TarihAraligiDatePicker_RotaRadDatePickerBitis_dateInput_wrapper'): value '15.11.2014' entered.	
14	<input checked="" type="checkbox"/>	Enter text 'TRIZM' in 'MainContentYuklemeLimanSecControlLokasyonKodTextBoxText'	
15	<input checked="" type="checkbox"/>	Click 'MainContentSeferAraButtonSubmit'	
16	<input checked="" type="checkbox"/>	Wait for element 'MainContentSeferLokasyonListesiGridViewDiv' 'is' visible.	
17	<input checked="" type="checkbox"/>	Click 'MainContentSeferLokasyonListesiGridViewItemSecLinkButtonLink0'	
18	<input checked="" type="checkbox"/>	Execute test 'WaitUntilPopUpClose'	
19	<input checked="" type="checkbox"/>	Close pop-up window : 'http://ynaototest.bimar.com/Dialogs/IhrSeferLokasyonAramaDialog.aspx?seferLokasyonId=ctl00_ctl00_MMMainCo'	

Test steps Local data

ELEMENTS Search

Item

Test Studio - İnaOtomasyon

EST STUDIO Tests Test Lists Results Reports

Record Execute Preferred browser Base Url Wait On Elements 15,000 ms Debugger Client Ready 60,000 ms 400 Quick Execute Clear

PROJECT Search Tests as Step All Tests

- ALGER
- ARKAS
  - ARKAS\_FATURA\_LISTESI
  - yg\_arkas\_Demuraj\_Faturasi\_Konsimento\_Bazli
  - yg\_arkas\_Demuraj\_Faturasi\_Konteyner\_Bazli
  - ygarkas\_AcenteFaturasi\_IHR
  - ygarkas\_AcenteFaturasi\_ITH
  - ygarkas\_Booking\_Fatura\_Kontrol
  - ygarkas\_Hizmet\_Saglayici\_Fatura
  - ygarkas\_lade\_Fatura
  - ygarkas\_Konsimento\_Fatura\_IHR
  - ygarkas\_Konsimento\_Fatura\_ITH
  - ygarkas\_ManifestoKontrol
  - ygarkas\_SerbestFatura\_IHR
  - ygarkas\_SerbestFatura\_ITH**
  - ygarkas\_SerbestFatura\_ITH\_WithLogin
- GENEL
- ISPANYA

ISPANYA\_FATURA\_LISTESI x ygarkas\_SerbestFatura\_ITH x

Pass - 34 passed out of total

Step	Status	Action
1	Pass	
2	Pass	
3	Pass	
4	Pass	
5	Pass	
6	Pass	
7	Pass	
8	Pass	
9	Pass	
10	Pass	
11	Pass	
12	Pass	
13	Pass	
14	Pass	
15	Pass	
16	Pass	
17	Pass	
18	Pass	

Test Log

Copy To Clipboard

```

entMainContentMainContentIhrSeferLokasyonAutoSecControl_TokenMechanismHiddenFieldLokasyonGelisTarihi=ct100_ct100_MMMainContent_MainContent_IhrSeferLokasyonAutoSecControl_PlanlananKalkisTarihi=ct100_ct100_MMMainContent_MainContent_IhrSeferLokasyonAutoSecControl_PlanlananKalkisTarihiHiddenField&gemiKumpanyasi=ct100_ct100_MMMainContent_MainContent_IhrSeferLokasyonAutoSecControl_GemiKumpanyasiHiddenField&gemiKumpanyasiId=0&gununTarihindenOncekiSeferlerGelmesein=False&umLimanlarGelsinMi=True&yetkililimanlarListeLensisMiHiddenField=ct100_ct100_MMMainContent_MainContent_IhrSeferLokasyonAutoSecControl_YetkililimanlarListeLensisHiddenField&controlId=ct100ct100MMMainContentMainContentIhrSeferLokasyonAutoSecControl'
'3.05.2017 11:14:51' - 'Pass': 20. Enter text 'ARKALG0000001721A' in 'MMMainContentMainContentKonsimentoNoTextBoxText'
'3.05.2017 11:14:52' - 'Pass': 21. Enter text 'ITGOA' in 'MMMainContentMainContentYuklemeLimaniSecControlLokasyonKodTextBoxText'
'3.05.2017 11:14:52' - 'Pass': 22. Select 'ByValue' option '1' on 'MMMainContentMainContentMuhasebeSirketiDropDownListSelect'
'3.05.2017 11:14:54' - 'Pass': 23. RadInput
('ct100_ct100_MMMainContent_MainContent_GemiKalkisTarihiDatePickerControl_RotaRadDatePicker1_dataInput_wrapper'): value '19.04.2016' entered.
'3.05.2017 11:14:56' - 'Pass': 24. Click 'MMMainContentMainContentSerbestFaturaAnaBilgileriKaydetButtonSubmit'
'3.05.2017 11:14:57' - 'Pass': 25. RadComboBox
('ct100_ct100_MMMainContent_MainContent_HizmetComboBoxControl_HizmetComboBoxAdAciklama'): drop down action -> 'Open'
'3.05.2017 11:14:58' - 'Pass': 26. RadComboBox
('ct100_ct100_MMMainContent_MainContent_HizmetComboBoxControl_HizmetComboBoxAdAciklama'): text 'ORD' entered in combobox input
'3.05.2017 11:14:59' - 'Pass': 27. Click 'DOKUMANTASYONListItem'
'3.05.2017 11:15:00' - 'Pass': 28. Enter text '1' in 'MMMainContentMainContentAdetTextBoxText'
'3.05.2017 11:15:00' - 'Pass': 29. Enter text '55,50' in 'MMMainContentMainContentBirimTutarTextBoxText'
'3.05.2017 11:15:00' - 'Pass': 30. Click 'MMMainContentMainContentFaturaHizmetButtonEkleGuncelleSilControlEkleButtonSubmit'
'3.05.2017 11:15:01' - 'Pass': 31. Click 'MMMainContentMainContentFaturaKesButtonSubmit'
'3.05.2017 11:15:04' - 'Pass': 32. Wait for '3000' msec.
'3.05.2017 11:15:07' - 'Pass': 33. Click 'OKSpan'
'3.05.2017 11:15:07' - 'Pass': 34. Wait for 'TextContent' 'Contains' 'Fatura(lar) Kesildi' on 'InfoNotificationLabelSpan'
-----
'3.05.2017 11:15:07' - Overall Result: Pass
'3.05.2017 11:15:07' - Duration: [0 min: 29 sec: 141 msec]
-----
'3.05.2017 11:15:08' - Test completed!
  
```

Test steps Local data

OUTPUT

ecute Quick Execute Edit

ISPANYA\_FATURA\_LISTESI x ygarkas\_SerbestFatura\_ITH x ygarkas\_SerbestFatura\_ITH.tstest.cs x

Search All Steps Switch to Story

Pass - 34 passed out of total 34 executed. [View Log](#) Clear re

✓	13	✓	RadInput('ctl00_MainContent_TarihAraligiDatePicker_RotaRadDatePickerBitis_dateInput_wrapper'): value '15.11.2014' entered.	✓
✓	14	✓	Enter text 'TRIZM' in 'MainContentYuklemeLimanSecControlLokasyonKodTextBoxText'	✓
✓	15	✓	Click 'MainContentSeferAraButtonSubmit'	✓
✓	16	✓	Wait for element 'MainContentSeferLokasyonListesiGridViewDiv' 'is' visible.	✓
✓	17	✓	Click 'MainContentSeferLokasyonListesiGridViewItemSecLinkButtonLink0'	✓
✓	18	✓	Execute test 'WaitUntilPopUpClose'	✓
✓	19	✓	Close pop-up window : 'http://ynaototest.bimar.com/Dialogs/lhrSeferLokasyonAramaDialog.aspx?seferLokasyonId=ctl00_ctl00_MM	✓
✓	20	✓	Enter text 'ARKALG0000001721A' in 'MMainContentMainContentKonsimentoNoTextBoxText'	✓
✓	21	✓	Enter text 'ITGOA' in 'MMainContentMainContentYuklemeLimaniSecControlLokasyonKodTextBoxText'	✓
✓	22	✓	Select 'ByValue' option '1' on 'MMainContentMainContentMuhasebeSirketiDropDownListSelect'	✓
✓	23	✓	ygarkas_SerbestFatura_ITH_GununTarihiAta	✓
✓	24	✓	Click 'MMainContentMainContentSerbestFaturaAnaBilgileriKaydetButtonSubmit'	✓
✓	25	✓	RadComboBox('ctl00_ctl00_MMainContent_MainContent_HizmetComboBoxControl_HizmetComboBoxAdAciklama'): drop down ac	✓
✓	26	✓	RadComboBox('ctl00_ctl00_MMainContent_MainContent_HizmetComboBoxControl_HizmetComboBoxAdAciklama'): text 'ORD' ent	✓
✓	27	✓	Click 'DOKÜMANTASYONListItem'	✓

```
ISPANYA_FATURA_LISTESI x ygarkas_SerbestFatura_ITH x ygarkas_SerbestFatura_ITH.tstest.cs x
YnaOtomasyon.ygarkas_SerbestFatura_ITH ygarkas_SerbestFatura_ITH_GununTarihiAta()
7 using System.Linq;
8
9 using ArtOfTest.Common.UnitTesting;
10 using ArtOfTest.WebAii.Core;
11 using ArtOfTest.WebAii.Controls.HtmlControls;
12 using ArtOfTest.WebAii.Controls.HtmlControls.HtmlAsserts;
13 using ArtOfTest.WebAii.Design;
14 using ArtOfTest.WebAii.Design.Execution;
15 using ArtOfTest.WebAii.ObjectModel;
16 using ArtOfTest.WebAii.Silverlight;
17 using ArtOfTest.WebAii.Silverlight.UI;
18
19 namespace YnaOtomasyon
20 {
21     public class ygarkas_SerbestFatura_ITH : BaseWebAiiTest
22     {
23         [ Dynamic Pages Reference ]
24
25         // Add your test methods here...
26
27         //[CodedStep(@"New Coded Step")]
28         //public void SENAY_ArkasSerbestFatura_CodedStep()
29         //{
30
31         //}
32
33         [CodedStep(@"RadInput('ctl00_ctl00_MMainContent_MainContent_GemiKalkisTarihiDatePickerControl_RotaRadDatePicker1_dateInput_wr
34         public void ygarkas_SerbestFatura_ITH_GununTarihiAta()
35         {
36             // RadInput('ctl00_ctl00_MMainContent_MainContent_GemiKalkisTarihiDatePickerControl_RotaRadDatePicker1_dateInput_wrapper'
37             Pages.YNASerbestFaturaSayfasi.MMainContentMainContentGemiKalkisTarihiDatePickerControlRotaRadDatePicker1DateInputWrapperS
38
39         }
40
41         sTarihiDatePickerControl_RotaRadDatePicker1_dateInput_wrapper'): value '19.04.2016' entered."}]
42
43         iDatePickerControl_RotaRadDatePicker1_dateInput_wrapper'): value '19.04.2016' entered.
44         rihDatePickerControlRotaRadDatePicker1DateInputWrapperSpan.TypeText(System.DateTime.Now.ToShortDateString(), 50, 50, false, false);
45
46     }
47 }
```

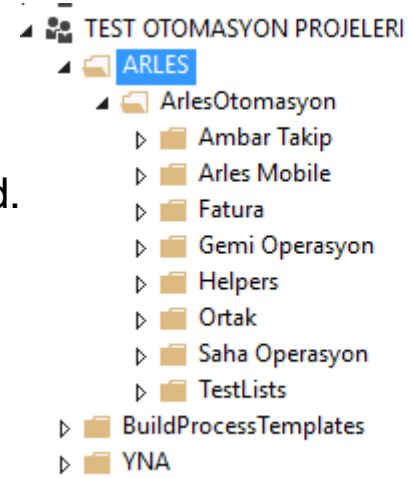
```
ISPANYA_FATURA_LISTESI x ygarkas_SerbestFatura_ITH x ygarkas_SerbestFatura_ITH.tstest.cs x FaturaHelper.cs x
YnaOtomasyon.FaturaHelper
ItalyFaturasiSapyeEntegreOldumu(int faturaTipiId)
1 using System;
2 using System.Collections.Generic;
3 using System.Text;
4 using System.Linq;
5 using YnaOtomasyon.Db;
6 using Oracle.DataAccess.Client;
7 using Oracle;
8 using System.Data;
9
10
11
12 namespace YnaOtomasyon
13 {
14     public class FaturaHelper
15     {
16
17         public string ItalyFaturasiSapyeEntegreOldumu(int faturaTipiId)
18         {
19
20             OracleHelper oh=new OracleHelper();
21             OracleParameter[] parameters = null;
22             string sqlFatura=String.Empty;
23             if (faturaTipiId==8 || faturaTipiId==9 )
24                 sqlFatura="select max(Id) from fat_fatura where muhasebe_sirketi_Id=39 and fatura_statu_Id=5 and fatura_tipi_Id="+ fa
25             else
26                 sqlFatura="select max(Id) from fat_fatura where muhasebe_sirketi_Id=39 and fatura_statu_Id=3 and fatura_tipi_Id="+ fa
27
28             string faturaId=oh.ExecuteSelectIdDondur(sqlFatura, parameters);
29
30             OracleHelper oh2=new OracleHelper();
31             OracleParameter[] parameters2 = null;
32             string sqlMuhasebeBelgeNumarasi="select muhasebe_belge_numarasi from fat_fatura where id="+ faturaId;
33             string muhasebe_belge_numarasi=oh2.ExecuteSelectIdDondur(sqlMuhasebeBelgeNumarasi, parameters2);
34
35
```



```
ISPANYA_FATURA_LISTESI x ygarkas_SerbestFatura_ITH x ygarkas_SerbestFatura_ITH.tstest.cs x FaturaHelper.cs x
YnaOtomasyon.FaturaHelper ItalyFaturasiSapyeEntegreOldumu(int faturaTipid)
62
63     }
64
65
66 public void KonsimentoBazliFaturalariSil(long konsimentoId, long faturaTipiId)
67 {
68     OracleHelper oh=new OracleHelper();
69     OracleParameter[] parameters = new OracleParameter[2];
70     parameters[0] = new OracleParameter("p_konsimento_id", OracleDbType.Long,konsimentoId, ParameterDirection.Input);
71     parameters[1] = new OracleParameter("p_fatura_tipi_id", OracleDbType.Long,faturaTipiId, ParameterDirection.Input);
72     oh.ExecuteStoreProc("YNA_OTOTEST.OTOMTEST_KONS_FAT_SIL ",parameters);
73
74
75 }
76 public void KonsimentoBazliFaturalariSilTest2(long konsimentoId, long faturaTipiId)
77 {
78     OracleHelper oh=new OracleHelper();
79     OracleParameter[] parameters = new OracleParameter[2];
80     parameters[0] = new OracleParameter("p_konsimento_id", OracleDbType.Long,konsimentoId, ParameterDirection.Input);
81     parameters[1] = new OracleParameter("p_fatura_tipi_id", OracleDbType.Long,faturaTipiId, ParameterDirection.Input);
82     oh.ExecuteStoreProcTest2("YNA_OTOTEST.OTOMTEST_KONS_FAT_SIL ",parameters);
83
84
85 }
86
87 public void SeferBazliFaturalariSil(long seferLokasyonId, long faturaTipiId, long ticaretTipiId)
88 {
89     OracleHelper oh=new OracleHelper();
90     OracleParameter[] parameters = new OracleParameter[3];
91     parameters[0] = new OracleParameter("p_sefer_lokasyon_id", OracleDbType.Long,seferLokasyonId, ParameterDirection.Input);
92     parameters[1] = new OracleParameter("p_fatura_tipi_id", OracleDbType.Long,faturaTipiId, ParameterDirection.Input);
93     parameters[2] = new OracleParameter("p_ticaret_tipi_id", OracleDbType.Long,ticaretTipiId, ParameterDirection.Input);
94     //oh.ExecuteStoreProc("YNA_OTOTEST.OTOMTEST_SEFER_FATURA_SIL_SP",parameters);
95     oh.ExecuteStoreProc("YNA_OTOTEST.OTOMTEST_SEFER_FATURA_SIL_SP",parameters);
96
97 }
```

- Invoice Scenario – Manual
  - 3 tester  $\frac{1}{2}$  man /day 4 times a month a **total of 6 man / day manual invoice tests** were done.
- Invoice scenario - with automation
  - 3 tester 30 min. A total of 6 hours per month. A total of about **0.75 man / day with automation.**

- Test Automation of ARLES
  - Infrastructure setup has been completed.
  - The project has been created on TFS.
  - Scenarios has been recorded.



- **Gemi Operasyon**
- Tahliye (Arlesmobile+Arles)
- Toplu tahliye
- Yükleme(Arlesmobile+Arles)
- Toplu yükleme
- **Saha Operasyon**
- Kapı Giriş (Arlesmobile+Arles)
- Kapı Çıkış (Arlesmobile+Arles)
- **Faturalama**
- Manuel Faturalama
- İthalat Müşteri Faturası
- **Ambar Takip**
- Ambar Toplu Çıkış İşlemi (yasaklı konteyner, ihbarlı müşteri ve ihbarsız müşteri)
- Ambar Listesi (yasaklı konteyner, ihbarlı müşteri ve ihbarsız müşteri)

- All scenarios in Arles – Manual
  - 1 tester 2 hours a week 4 times a month **8 hours in total manual testing**
- All scenarios in Arles - with automation
  - 1 tester 5 min. With a total of **20 minutes of automation** per month

**Thanks**

