

# Dynamic Control Usages in Acumatica Test SDK

This document contains prepared examples on how to use Dynamic Control to select and interact with fields using the field's label text. This allows you to select and access fields not accessible from the wrapper/extension files. It is a great way to do 1 or 2 quick actions on a screen without the need to generate wrappers and extensions, or to get around certain fields not working through the extension file.

## Accessible Elements:

**ToolBarButton, Button, CheckBox, Input, Selector,**

**FormulaCombo, DropDown, DateSelector, Container,**

**SmartPanel, GroupBox, QuickSearch, DynamicGrid**

## ToolBarButton, Dropdown, Dynamic Grid, Selector:

```
OrderSo.OpenScreen();
OrderSo.Insert();

OrderSo.Summary.CustomerID.Select("REARDEN");
OrderSo.Summary.OrderDesc.Type("FILMFEST Billing");
OrderSo.Summary.CustomerOrderNbr.Type("FF_01");
OrderSo.Summary.OrderDate.Type(DateTime.Now);
OrderSo.DocumentDetails.New();
OrderSo.DocumentDetails.Row.InventoryID.Select("FLYERS");
OrderSo.DocumentDetails.Row.SiteID.Type("MAIN");
OrderSo.DocumentDetails.Row.OrderQty.Type(1);
OrderSo.DocumentDetails.Row.CuryUnitPrice.Type(350);
OrderSo.DocumentDetails.New();
OrderSo.DocumentDetails.Row.InventoryID.Select("POSTCARD");
OrderSo.DocumentDetails.Row.SiteID.Type("MAIN");
OrderSo.DocumentDetails.Row.OrderQty.Type(1000);
OrderSo.DocumentDetails.Row.CuryUnitPrice.Type(10);

dynamicGrid = OrderSo.DynamicGrid("Relations");
dynamicGrid.DynamicControl<ToolBarButton>("Add Row").Click();
dynamicGrid.Row.DynamicControl<DropDown>("Role").Select("Source");
dynamicGrid.Row.DynamicControl<DropDown>("Type").Select("Campaign");
dynamicGrid.Row.DynamicControl<Selector>("Document").Select("FILMFEST");
OrderSo.Summary.CuryControlTotal.Type(11385);
OrderSo.Save();
```

## Button

```
DialogBoxes.Save();
DialogBoxes.ActionTest();
DialogBoxes.DynamicControl<Selector>("Workgroup").GetValue().VerifyEquals(string.Empty);
DialogBoxes.DynamicControl<Selector>("Owner").GetValue().VerifyEquals(string.Empty);
DialogBoxes.DynamicControl<Button>("Ok").Click();
```

## Form Input:

```
ImportByScenario.PreparedData.Row.DynamicControl<Input>("Postal Code").Type("CB3 0JY");
```

--Or--

```
AssignmentMap.Rules.New();
AssignmentMap.Rules.Row.Entity.DynamicControl<DropDown>().Select("Billing Contact");
AssignmentMap.Rules.Row.Entity.PressTab(); AssignmentMap.Rules.Row.FieldName.DynamicControl<DropDown>().Select("Email");
AssignmentMap.Rules.Row.Condition.Select("0"); AssignmentMap.Rules.Row.FieldValue.DynamicControl<Input>().Type("approve@apr.con");
```

--Or--

```
OrderSo.OpenScreen();
OrderSo.Summary.OrderType.Select("SO");
OrderSo.Summary.OrderNbr.Select(LocalOrderId.Split(',')[1]);
```

```
OrderSo.DocumentDetails.Columns.DynamicControl<InputColumnFilter>("Product Modifier").ShowColumn();
```

```
OrderSo.DocumentDetails.Columns.DynamicControl<InputColumnFilter>("Product Modifier").SortDescending();
OrderSo.DocumentDetails.SelectRow(1);
OrderSo.DocumentDetails.Row.DynamicControl<Input>("Product Modifier").GetValue().VerifyEquals("Yes");
OrderSo.DocumentDetails.SelectRow(2);
OrderSo.DocumentDetails.Row.DynamicControl<Input>("Product Modifier").GetValue().VerifyEquals("No");
```

## DateSelector:

```
NonStockItem.OpenScreen();
NonStockItem.Summary.InventoryCDLabel.GetValue().VerifyEquals("Inventory ID:");
NonStockItem.Summary.InventoryCD.Select("ONLCOURSE");
NonStockItem.Attributes.SelectRow(NonStockItem.Attributes.Columns.AttributeID, "Pre-Order Release Date");
NonStockItem.Attributes.Row.DynamicControl<DateSelector>("Value").Type(new DateTime(2021, 9, 1));
```

## CheckBox:

```
ApprovalMap.Conditions.New();
ApprovalMap.Conditions.Row.Entity.Select("Quote Products");
ApprovalMap.Conditions.Row.Entity.PressTab();
ApprovalMap.Conditions.Row.FieldName.Select("Manual Price");
ApprovalMap.Conditions.Row.Condition.Select("Equals");
ApprovalMap.Conditions.Row.Value.DynamicControl<CheckBox>().SetTrue();
```

--Or--

```
PivotMaint.Properties.Row.Value.DynamicControl<CheckBox>().GetValue().VerifyEquals(true);
```

## Selector:

```
StockItem.Conversions.ClickAndAddNewRow();

StockItem.Conversions.Row.FromUnit.DynamicControl<Selector>().Type("PALETT");
StockItem.Conversions.Row.UnitMultDiv.Select("Multiply");
StockItem.Conversions.Row.UnitRate.Type(10000);
```

## DynamicGrid:

```
BAccountMaint.DynamicGrid("Contacts").RowCount().VerifyEquals(2);
-OR-
Project.Tasks.Row.Description.Type("2018 Q1");
Project.Tasks.Row.Status.Select("Active");

dynamicGrid = Project.DynamicGrid("Defaults");
dynamicGrid.DynamicControl<ToolBarButton>("Add Row").Click();
dynamicGrid.Row.DynamicControl<Selector>("Account").Select("400000");
dynamicGrid.Row.DynamicControl<Selector>("Default Task").Select("2018Q1");
Project.Save();
```

## DropDown Select:

```
AssignmentMap.Conditions.New();
AssignmentMap.Conditions.Row.Entity.DynamicControl<DropDown>().Select("Opportunity");
AssignmentMap.Conditions.Row.FieldName.DynamicControl<DropDown>().Select("Class ID");
AssignmentMap.Conditions.Row.Condition.Select("Equals");
AssignmentMap.Conditions.Row.Value.DynamicControl<Selector>().Select("PROJECT");
AssignmentMap.RuleDetails.RuleType.Select("Employee");
AssignmentMap.RuleDetails.WorkgroupID.Select("Sales/Project Sales");
AssignmentMap.Save();
```

## Container

```
StockItem.InspectElementCtrlAltClick();
StockItem.DynamicControl<Container>("Subitems").IsEnabled();
CustomizationMenu.ElementProperties.AspxControl.GetValue().VerifyEquals("Tab");
CustomizationMenu.ElementProperties.CacheType.GetValue().VerifyEquals("InventoryItem");
CustomizationMenu.ElementProperties.GraphName.GetValue().VerifyEquals("InventoryItemMaint");
```

## SmartPanel:

```
StockItem_CU400.OpenScreen(true);
var openSmartPanel = StockItem_CU400.Summary.DynamicControl<Button>("Open Smart Panel");
openSmartPanel.WaitAction = Wait.WaitForCallbackToComplete;
openSmartPanel.Click();
StockItem_CU400.DynamicControl<SmartPanel>("Smart Panel").GetValue().VerifyEquals("Smart Panel\r\nCU400_SmartPanel");
StockItem_CU400.DynamicControl<SmartPanel>("Smart Panel").Close();
```

## GroupBox:

```
StockItem_CU400.OpenScreen(true);
StockItem_CU400.DynamicControl<Container>("Group Box").Click();
StockItem_CU400.DynamicControl<Container>("Group Box").Element.Text.VerifyContains("GroupBox control presented below:");
```

```

StockItem_CU400.DynamicControl<GroupBox>("Options").Set("First Option");
StockItem_CU400.DynamicControl<GroupBox>("Options").Set("Second Option");
StockItem_CU400.DynamicControl<GroupBox>("Options").Set("Third Option");
StockItem_CU400.Cancel();

```

## **FormulaCombo:**

```

ImportScenario.OpenScreen();
ImportScenario.Summary.Name.Select("Import Opportunity from Salesforce");
ImportScenario.Mapping.New();
ImportScenario.Mapping.Row.ObjectName.DynamicControl<DropDown>().Type("Contact Info ->
Address");
ImportScenario.Mapping.Row.FieldName.DynamicControl<DropDown>().Type("Country");
ImportScenario.Mapping.Row.Value.DynamicControl<FormulaCombo>().Type("='US'");
ImportScenario.Mapping.CommitRows();
ImportScenario.Mapping.RowUp();

```

## **QuickSearch:**

```

GenericInquiry.PageHeader.ExpandScreen.Click();
VA02.DynamicControl<Input>("TESTTEXT1").GetValue().VerifyEquals("(0
) - -");
var sidePanelQuickSearch = VA02.DynamicControl<QuickSearch>();
sidePanelQuickSearch.Type("0");
VA02.Details.RowsCount().VerifyEquals(1);
sidePanelQuickSearch.Reset();
GenericInquiry.PageHeader.CollapseScreen.Click();
GenericInquiry.ViewInquiry();

```

## **GI Input:**

```

GenericInquiry.PageHeader.ExpandScreen.Click();
OrderSoGI.Details.SelectRow("Tracking Number", "398453614");
OrderSoGI.Details.Row.DynamicControl<Input>("Tracking Number").ClickLink();
Browser.Url.ToString().VerifyContains("398453614", "URL contains tracking number");
OrderSoGI.CloseWindow();

```