

Displaying Detail Information in Arbitrary Part of the Page

[Aquarium Express](#) and [Data Aquarium Framework](#) offer excellent support for master-detail pages. See a [live demo](#) of three level master-detail page.

Master-detail support has been further extended with the latest release. Now you can link master and detail *DataViewExtender* components by any matching field.

Previously a detail *DataViewExtender* was expected to specify filter fields that are matched to the primary key fields of the master. The updated version will also try to set a link to primary key fields by name. If a primary key field has not been matched to a field specified in *FilterFields* property of the detail *DataViewExtender* then the entire set of fields is being searched. This allows creating additional master-detail *AJAX* views that can serve as informational panels to any selected records as long as the field names of master-detail link are matched.

Another enhancement in master-detail support simplifies cross-container links that can see "through" the templates. Previous releases of the framework were relying on *\$find* method to locate a client master component specified by property *FilterSource*. It works great if all of your components are placed in the same naming container. This isn't so when a *DataViewExtender* is placed in a template. The new enhancement allows master-detail links between components that are not in the same naming container.

Consider the following example, which is designed to work with [Aquarium Express](#) or [Data Aquarium Framework](#) project created from *Northwind* database.

In a new web form based on *MasterPage.master* enter the following markup.

```
<%@ Page Language="C#" MasterPageFile="~/MasterPage.master"
AutoEventWireup="true"
CodeFile="InfoPanel.aspx.cs" Inherits="InfoPanel" Title="Untitled Page"
%>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="Server">
```

```
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="Header1Placeholder"
runat="Server">
    Info Panel Demo
</asp:Content>
<asp:Content ID="Content3" ContentPlaceHolderID="Header2Placeholder"
runat="Server">
    Northwind
</asp:Content>
<asp:Content ID="Content4" ContentPlaceHolderID="BodyPlaceholder"
runat="Server">
    <act:TabContainer ID="OrderManager" runat="server">
        <act:TabPanel ID="CustomersTab" runat="server"
HeaderText="Customers">
            <ContentTemplate>
                <div id="CustomerList" runat="server" />
                <aquarium:DataViewExtender ID="CustomersExtender"
runat="server"
                    Controller="Customers" TargetControlID="CustomerList" />
            </ContentTemplate>
        </act:TabPanel>
        <act:TabPanel ID="OrdersTab" runat="server" HeaderText="Orders">
            <ContentTemplate>
                <div id="OrderList" runat="server" />
                <aquarium:DataViewExtender ID="OrdersExtender" runat="server"
                    Controller="Orders" FilterFields="CustomerID"
                    FilterSource="CustomersExtender"
TargetControlID="OrderList" />
            </ContentTemplate>
        </act:TabPanel>
        <act:TabPanel ID="DetailsTab" runat="server" HeaderText="Details">
            <ContentTemplate>
                <div id="DetailsList" runat="server" />
            </ContentTemplate>
        </act:TabPanel>
    </act:TabContainer>
</asp:Content>
```

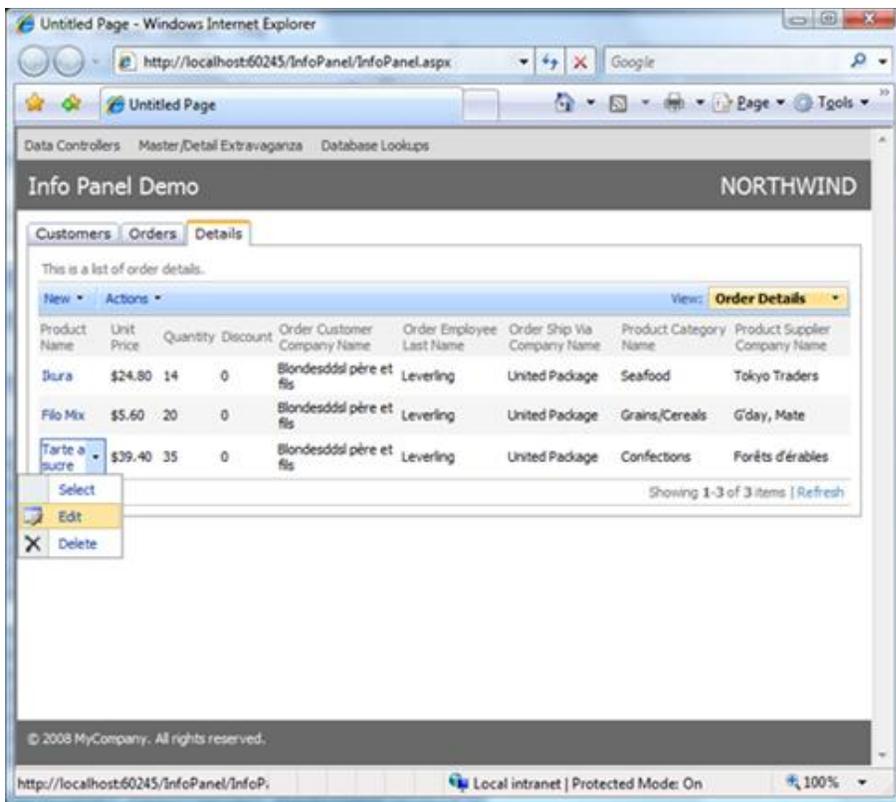
```

        <aquarium:DataViewExtender ID="DetailsExtender"
runat="server"
        Controller="OrderDetails" FilterFields="OrderID"
        FilterSource="OrdersExtender"
TargetControlID="DetailsList" />
    </ContentTemplate>
</act:TabPanel>
</act:TabContainer>
</asp:Content>

```

This markup defines a *TabContainer* from *Ajax Control Toolkit* with three level arrangement of *Customers*, *Orders*, and *Order Details*, linked in a master-detail relationship. *DataViewExtender* components and corresponding placeholder *div* elements are placed on an individual tab of the container

Run this page to see the "cross container" master-detail links in action. This was not possible with the previous releases of the framework.



This form will benefit if we display a customer information summary somewhere on the page. The natural location is the top of the screen but that may differ from one application to another.

Open `~/Controllers/Customers.xml` data controller descriptor and create an exact copy of `editForm1`. Name this copy `infoForm1`. We need this extra view since we don't want `editForm1` of `Customers` controller on `Customers` tab to be affected when we finish customization.

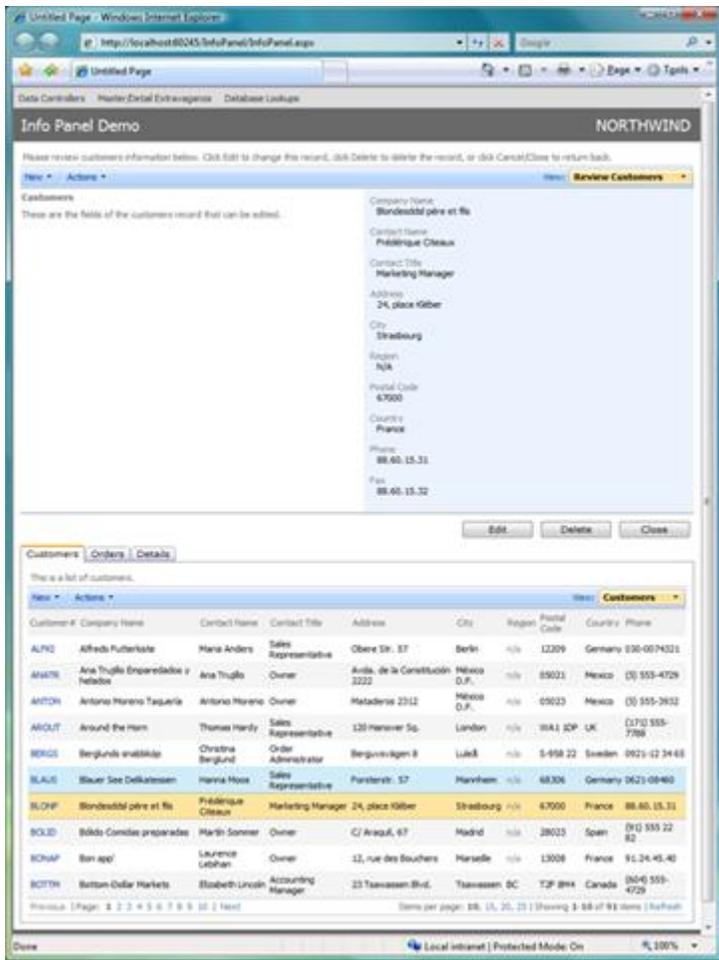
Insert the following `div` element above the `TabContainer`.

```
<div id="CustomerInfo" runat="server" />
```

Append this `DataViewExtender` right after the `TabContainer`.

```
<aquarium:DataViewExtender ID="CustomerInfoExtender" runat="server"  
    Controller="Customers" View="infoForm1" FilterFields="CustomerID"  
    FilterSource="CustomersExtender" TargetControlID="CustomerInfo" />
```

The location of `CustomerInfo` `div` is irrelevant but the detail extender component must be defined below the master component specified by `FilterSource` property when a component container tree is created by `ASP.NET` page parser. Run this page and make sure that whenever you select a customer record on `Customer` tab the corresponding `CustomerInfo` `div` at the top is refreshed with the matching record.



As you can see the top of the page is completely occupied by editable customer view, which is not what we want. Let's change this view to display just a few of the fields and hide the view description, action bar and action buttons.

We accomplish this by adding *class* attribute to *CustomerInfo* div. We also define a custom form template *Customers_infoForm1*. Then we insert a few *CSS* definitions in *Content1* placeholder, which will end up embedded in the *head* element of the *HTML* form. All this techniques will alter the appearance of the page and are described in details in a post dedicated to [custom form templates](#).

Here is a complete text of the web form.

```
<%@ Page Language="C#" MasterPageFile="~/MasterPage.master"
AutoEventWireup="true"
```

```
CodeFile="InfoPanel.aspx.cs" Inherits="InfoPanel" Title="Untitled Page"
%>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="Server">
  <style type="text/css">
    .CustomerInfo
    {
      padding: 0px;
      margin-bottom: 8px;
      background-color: White;
    }
    .CustomerInfo table.DataView tr.CategoryRow td.Fields
    {
      border: solid 1px silver;
      background-color: #E4F3E4;
    }
    .CustomerInfo .HeaderTextRow, .CustomerInfo .ActionRow,
    .CustomerInfo .ActionButtonsRow
    {
      display: none;
    }
  </style>
</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="Header1Placeholder"
runat="Server">
  Info Panel Demo
</asp:Content>

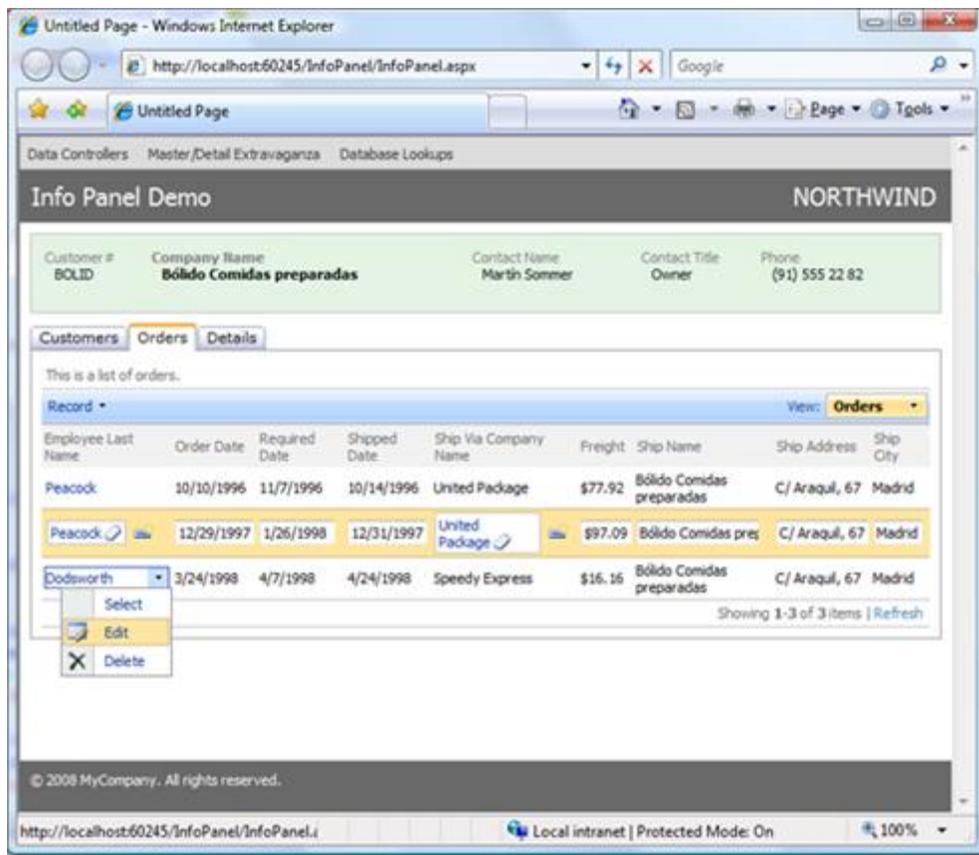
<asp:Content ID="Content3" ContentPlaceHolderID="Header2Placeholder"
runat="Server">
  Northwind
</asp:Content>

<asp:Content ID="Content4" ContentPlaceHolderID="BodyPlaceholder"
runat="Server">
```

```
<div id="CustomerInfo" runat="server" class="CustomerInfo" />
<act:TabContainer ID="OrderManager" runat="server">
  <act:TabPanel ID="CustomersTab" runat="server"
HeaderText="Customers">
  <ContentTemplate>
    <div id="CustomerList" runat="server" />
    <aquarium:DataViewExtender ID="CustomersExtender"
runat="server"
      Controller="Customers" TargetControlID="CustomerList" />
  </ContentTemplate>
</act:TabPanel>
<act:TabPanel ID="OrdersTab" runat="server" HeaderText="Orders">
  <ContentTemplate>
    <div id="OrderList" runat="server" />
    <aquarium:DataViewExtender ID="OrdersExtender" runat="server"
      Controller="Orders" FilterFields="CustomerID"
      FilterSource="CustomersExtender"
TargetControlID="OrderList" />
  </ContentTemplate>
</act:TabPanel>
<act:TabPanel ID="DetailsTab" runat="server" HeaderText="Details">
  <ContentTemplate>
    <div id="DetailsList" runat="server" />
    <aquarium:DataViewExtender ID="DetailsExtender"
runat="server"
      Controller="OrderDetails" FilterFields="OrderID"
      FilterSource="OrdersExtender"
TargetControlID="DetailsList" />
  </ContentTemplate>
</act:TabPanel>
</act:TabContainer>
<aquarium:DataViewExtender ID="CustomerInfoExtender" runat="server"
  Controller="Customers" View="infoForm1" FilterFields="CustomerID"
```

```
FilterSource="CustomersExtender" TargetControlID="CustomerInfo" />
<div id="Customers_infoForm1" style="display: none">
  <table style="width: 100%">
    <tr>
      <td>
        {CustomerID}
      </td>
      <td style="font-weight: bold;">
        {CompanyName}
      </td>
      <td>
        {ContactName}
      </td>
      <td>
        {ContactTitle}
      </td>
      <td>
        {Phone}
      </td>
    </tr>
  </table>
</div>
</asp:Content>
```

Here is an example of this form running in a web browser when user has selected a customer record and switched to *Orders* tab.



The green information panel at the top is automatically refreshed if you select a customer. The detail extender component is linked to a primary key field of a master record.

You can also link the same *CustomerInfoExtender* to a matching field of *OrdersExtender* component. The data controller of this component has *CustomerID* field, which is a foreign key that points to *Customers* table. The new feature of [Data Aquarium Framework](#) will kick in to make such link work. Just change *CustomerInfoExtender.FilterSource* to *OrdersExtender*. The behavior of the screen will change. You have to select an order to get the green panel at the top of the screen to refresh itself.

In a more realistic example you would like to have *Employee* information panel connected to *OrdersExtender* to provide details about employee who has placed the order. We leave this task up to you.