

Accelerator: Ext Data Form Widget

User Guide

Version	Description of change	Updated by	Date
Version 1		TS	July 2011
Version 2	Added Insert Statement Functionality	TS	Nov 2011

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1.0 Introduction

Most organizations have a great deal invested in relational databases and have many database instances distributed throughout the enterprise. Developing applications based on relational databases is one of the greatest challenges and involves translating from relational data to XML objects and back. In addition, the end user needs to understand and integrate database transactions, queries, caching, locking, sequencing and other key database concepts. The Biomni Integration Accelerators for databases provides an out-of-the-box, highly performing database connectivity solution.

The Biomni Integration Accelerators for Microsoft SQL Server allow you to get your implementation up and running quickly and feature the following:

- ✓ Installed from a simple .exe to an existing implementation.
- ✓ Ship with a sample test database to get you up and running.
- ✓ Full instructions are included on how to configure the accelerators to your other systems

The External Data Form Widget can be configured to generate multiple external list boxes from any SQL Server source.

2.0 Installation

The application is a Microsoft .NET Web application, requiring IIS 5.1+

Note: If installing on IIS7 ensure that Role Services for 'IIS 6 Management Compatibility' is checked in Server Manager.

To install:

- log in on the target installation server with administrator privileges
- Extract the files from the zip file into a temporary folder
- Using Windows explorer open the temporary folder, then run setup.exe
- Click the next button
- Set the virtual directory (AcceleratorExtDataFormWidget)
- Set the target application pool
- Click the next button, then again to start the installation
- Grant the account that the selected application pool runs under "Full Control" rights to:
\\inetpub\\wwwroot\\<selected virtual directory>\\logs

If the application was installed using default settings the URL will be:

<http://localhost/AcceleratorExtDataFormWidget/AcceleratorExtDataFormWidget.aspx>

3.0 Configuration

3.1 Edit the configuration xml file

Using an XML editor open up the configuration file found here:

\\inetpub\\wwwroot\\<selected virtual directory>\\xml\\elbconfig.xml

Repeat (and edit) the following block of xml for each external list box required:

```
<ExternalListBoxConfig>
  <Code>USERMACHINES</Code>
  <InsertSQLStatement>Insert into test(userid,machinename) values
  ('{/n:bXML/n:Parameters/n:Request/n:RequestHeader/n:RequestedByUser/n:ID}','{/n:
  n:bXML/n:Parameters/n:Request/n:RequestHeader/n:UserFields/n:UserField[n:Field
  Code='MACNAME']/n:SingleValueType/n:Value}')</InsertSQLStatement>
  <SQLStatement>Select machinename from test where userid =
  '{/n:bXML/n:Parameters/n:Request/n:RequestHeader/n:RequestedByUser/n:ID}' and
  len(machinename)>0</SQLStatement>
  <SQLConnectionString>Data Source=BIOMNIVDEMO;Initial
  Catalog=DIRECTA;Integrated Security=False;User
  Id=webdirecta;Password=directaweb</SQLConnectionString>
  <KeyColumnName>MachineName</KeyColumnName>
  <Columns>
    <Column>
      <Name>MachineName</Name>
      <Heading>Machine Name</Heading>
      <Width>300</Width>
      <Type>String</Type>
      <ColumnDataSource>machinename</ColumnDataSource>
    </Column>
  </Columns>
</ExternalListBoxConfig>
```

Element	Description
<Code>	A unique code for the external list box
<InsertSQLStatement>	Optional Insert SQL Statement (this is run before the select statement)
<SQLStatement>	The SQL statement to run for the list box
<SQLConnectionString>	The SQL connection string (.net format)

<KeyColumnName>	The name of the column that will be stored on the BFO request
<Columns>	Container for multiple column elements
<Column>	Container for column elements
<Name>	The name of the column
<Heading>	The heading of the column (displayed in BFO)
<Width>	The width of the column (in pixels)
<Type>	The type of the column (String or Image)
<ColumnDataSource>	The data source of the column (must match a field name returned from the SQL statement)

The SQL statements can contain xpath statements that run over the xml that is passed to the list box by BFO (xsd schema is here: \inetpub\wwwroot\selected virtual directory\schemas\ExternalListboxOutbound_600.xsd), for example:

```
Select UserId, UserName from Users where userid like
'%{/n:bXML/n:Parameters/n:Request/n:RequestHeader/n:UserFields/n:UserField[n:FieldCode='USERFILTER']/n:SingleValueType/n:Value}%'
```

This will return users that have a user id containing the value of the USERFILTER form field.

The xpath statement needs to be contained within curly brackets { }. Multiple xpath statements are supported.

3.2 Configure External System Definitions

In BFO create external system definitions (v6) for each external list box configured in the xml file. For example:

Type	Name	URL
External List Box	ELBGetUserMacs	http://<server>//<vdir>/AcceleratorExtDataFormWidget.aspx?ID=USERMACHINES
External List Box	ELBGetSuppliers	http://<server>//<vdir>/AcceleratorExtDataFormWidget.aspx?ID=SUPPLIERS

Replace <server> with the server name / ip of the web server

Replace <vdir> with <selected virtual directory> supplied in step 2.

Note that the external list box code (as configured in the xml) needs to be added to the end of the URL, eg: ID=USERMACHINES

3.3 Configure Request Fields

In BFO create new request fields (type external list box) for each external list box configured specifying the external system definitions configured above, then incorporate the fields into the desired request type(s)