

### Simple Display Only Item UDF

Our first example will outline the steps required to display an Item UDF to the e-Business Manager visitor. Our example displays a new UDF, Fabrication Time, on the Product Listing and the Item Detail pages.

The data is informational only, meaning there are no calculations performed on this field, nor will the data be carried forward to the shopping cart.

### Inventory Item UDF

Our first task is to add the User Defined Field to the Item file, "CI Item Master". The new UDF, UDF\_FabricationTime, is a two digit numeric field.

The screenshot shows the 'CI Item Master : Edit Field' dialog box. The 'Field Name' is 'UDF\_FABRICATIONTIME' and the 'Description' is 'Fabrication Time'. The 'Control Type' is 'Multi-Line'. The 'Data Type' is 'Numeric'. The 'Maximum Length' is '15'. The 'Mask' is '#0'. The 'Caption' is 'Fabrication Time'. The 'Field in Use' status is 'Yes', 'Bytes Used' is '2,532 of 20,000', and 'Name Space Used' is '941'. The 'Display Attributes' section includes checkboxes for 'Uppercase', 'Fixed Font', 'Center Text', 'Right-Justify', and 'Borderless'. The 'Mask' checkbox is checked, and the 'Caption' checkbox is checked. The 'Default Value' checkbox is unchecked. The 'Data Sources' tab is selected.

This is as simple as it gets. There are no Validations or Data Sources required. (For help adding the User Defined Field, please consult your Custom Office Manual.) Once the UDF is added to CI\_ItemMaster, you can add the field to Inventory Maintenance.

The screenshot shows the 'Inventory Maintenance' window with the following data:

- Item No.: 4886-18-14-3
- Description: PAPER CADDY 18"W 14"D 3"H
- Product Line: PS&A PRINTER SUPPLIES & ACCESS
- Product Type: Finished Good
- Valuation: Average Cost
- Price Code: (empty)
- Procurement: Buy
- Primary Vendor: 01-CONT Container Corporation Of Usa
- Weight: 8.5
- Volume: .0000
- Standard U/M: EACH
- Purchase U/M: EACH, No. Of: EACH, 1
- Sales U/M: EACH, No. Of: EACH, 1
- Default Whse: 000
- Inventory Cycle: (empty)
- Internet Enabled:
- Fabrication Time: 6 (circled in red)
- Warranty Code: (empty)
- Last Rcpt: 03/15/2010
- Last Sold: 05/31/2010
- Retail Price: 123.456
- Std Price: 65.000
- Std Cost: 22.750
- Avg Cost: 22.604
- Last Costs: Total 22.500, Item 22.500, Allocated .000

Once the field is added, we can start work on the e-Business Manager Templates.

**Modifying the Product Listing Template**

Edit the Product Listing Template file located in the “webEng\iw” directory. (For help on determining with product listing template to edit, please see Appendix A.) Use a text editor, not a word processor. Word processors add formatting characters that Internet Explorer will not like.

The code in Code Listing 1 is formatted a little better than what you will find in the actual template so you can follow the logic. (Some of the code is chopped off at the right in this listing, but it is not pertinent to our example.)

```
<table width="100%" border="0" cellpadding="0">
  <tr>
    <th class="IntRevRow">~~ItemNumberTitle$a~~</th>

    <!-- start header modification -->
    <th class="IntRevRow">Fabrication Time</th>
    <!-- end header modification -->

    <th class="IntRevRow">~~ItemDescriptionTitle$a~~</th>
    <th class="IntRevRow">~~QuantityAvailableTitle$a~~</th>
    <th class="IntRevRow">~~BasePriceTitle$a~~</th>
    <th class="IntRevRow">~~ShoppingCartTitle$a~~</th>
  </tr>

  <tr>
    <td>~~IW_Products.m4p;PRODUCTS_DTL_TABLE?T~~</td>
  </tr>

  <tr>
    <td class="~~RowStyle$~~" valign="top"><noabr><a class="~~RowStyle$~~" href="IW

    <!-- start data modification -->
    <td class="~~RowStyle$~~" align=center valign="top">
      ~~CI_Item.UDF_FabricationTime~~ Days
    </td>
    <!-- end data modification -->

    <td class="~~RowStyle$~~" valign="top">~~ItemDescription$a~~<br />~~AliasTitl
    <td class="~~RowStyle$~~" align="right" valign="top">~~STP(QtyAvailable$,2)?x?
    <td class="~~RowStyle$~~" align="right" valign="top">~~STP(BasePrice$,2)?x~~</
    <td class="~~RowStyle$~~" align="center" valign="top" width="~~scWidth$~~">
      <font size="+1" color="red">~~ErrorFlag$a~~</font>
      <input type="hidden" name="row~~row~~.ItemCode" value="~~FN%ESCDoubleQuote$
      <input type="~~scQtyType$~~" name="row~~row~~.Quantity" style="text-align:ri
    </td>
  </tr>
</table>
```

Code Listing 1

The code for listing products is shown in Code Listing 1. There are three sections (rows) in the product listing table. The first row, labeled with a <tr>, displays the column headings. (Columns start with a <td>.) The next row, runs the MAS 90 program that will populate the table with data. The last row is the definition for the columns to be displayed by the MAS 90 program.

In order to display the UDF we added in the previous section, we insert two lines of code and some comments. The first line of code adds a column for the header:

```
<th class="IntRevRow">Fabrication Time</th>
```

The next line of code (broken up for readability) adds a column to position the data:

```
<td class="~~RowStyle$~~" align=center valign="top">
  ~~CI_Item.UDF_FabricationTime~~ Days
</td>
```

Note the two tildes (~~) before and after the File/Column name. You can add any field from CI\_Item to this template in the same manor. Find the CI\_Item column names in Data File Display and Maintenance.

That small change to the e-Business Manager template results in:

The screenshot shows the ABC Distribution and Service Corporation website. The header includes the company name and navigation links for 'Product Search', 'Account Information', and 'Help Help'. A sidebar on the left lists categories: Equipment, Furniture, Printers, and Specials. The main content area is titled 'Specials' and features a table with the following data:

Item Number	Fabrication Time	Item Description	Base Price	Shopping Cart
	6 Days	PAPER CADDY x	65.000	<input type="text" value="0"/>
	0 Days	SPECIALTY GINGER JAR LAMP	94.950	<input type="text" value="0"/>
	0 Days	AM/FM STEREO CD/CASSETTE PLAYER	2,800.000	<input type="text" value="0"/>

Below the table, there is a 'Buy' button and a note: 'Change quantity to zero to remove an item or charge. Change quantity to one to add a charge.' At the bottom, there are links for 'Profile' and 'Check Out', and a footer note: 'Please send questions or comments to the Webmaster.'

Figure 1

The next step is to add the UDF to the Item Detail template, the page that displays when you click on an item.



The page resulting from the modified code in Code Listing 2:

ABC Distribution and Service Corporation

Product Search

**Categories**

- \* ▶ Equipment
- ▶ Furniture
- ▶ Printers
- ▶ Specials



**Item:** 4886-18-14-3

**Description:** PAPER CADDY x

**Fabrication Time:** 6 Days

**Unit of Measure:** EACH

**Order Quantity:**  Add to Shopping Cart

**Item Pricing:**

From Quantity	To Quantity	Unit Price
1	5	65.000

[Profile](#) [Check Out](#)

Please send questions or comments to the [Webmaster](#).

Figure 2

### Finishing Touches

What we have done so far works flawlessly, but the “0 Days” displays looks a little unprofessional. All we need is some JavaScript to fix it up.

Sage e-Business Manager will not work in conjunction with any other server side scripting like ASP. The ProvideX Web Engine, the software that makes e-Business Manager work, is the server that renders the page. JavaScript, however, is client side programming. Sage uses JavaScript in their templates.

Consider the code in Code Listing 3.

```
<script type=text/javascript>
  fabricationDays = new String("~~CI_Item.UDF_FabricationTime~~");
  if (fabricationDays == "0") {
    document.write ("On Hand");
  } else {
    document.write (fabricationDays + " Days");
  }
</script>
```

Code Listing 3

On the server, the ProvideX Web Server replaces `~~CI_Item.UDF_FabricationTime~~` with the value for that item in MAS 90. Then JavaScript executes this code on the client, conditionally printing “On Hand” or “X Days” depending on the value of `fabricationDays`. This code, inserted in place of `~~CI_Item.UDF_FabricationTime~~` will result in the following Product Listing page:

ABC Distribution and Service Corporation

Product Search | Select Your Option | Account Information | Help Help

Categories: Equipment, Furniture, Printers, Specials

**Specials**

Item Number	Fabrication Time	Item Description	Base Price	Shopping Cart
	6 Days	PAPER CADDY x	65.000	<input type="text" value="0"/>
	On Hand	SPECIALTY GINGER JAR LAMP	94.950	<input type="text" value="0"/>
	On Hand	AM/FM STEREO CD/CASSETTE PLAYER	2,800.000	<input type="text" value="0"/>

Change quantity to zero to remove an item or charge.  
Change quantity to one to add a charge.

[Profile](#) [Check Out](#)

Please send questions or comments to the [Webmaster](#).

Figure 3

**Editable Customer UDF**

Our next example will be to allow the e-Business Manager visitor to save their business type into a new UDF added to the Customer Master file. We will add the UDF to the profile template.

**Customer UDF**

Our first task is to add the User Defined Field to the customer file, "AR Customer Master". The new UDF, UDF\_BusinessType, is a string of characters, ten characters long.

Since e-Business Manager does not write directly to AR\_Customer, we also have to add our UDF to the intermediary table, "IT\_UID Customer Change".

The "IT\_UID Customer Change".UDF is a simple field. No Validations or Data Sources. However, the "AR Customer Master" UDF requires a Data Source. This will move the data from the e-Business Manager to Accounts Receivable.

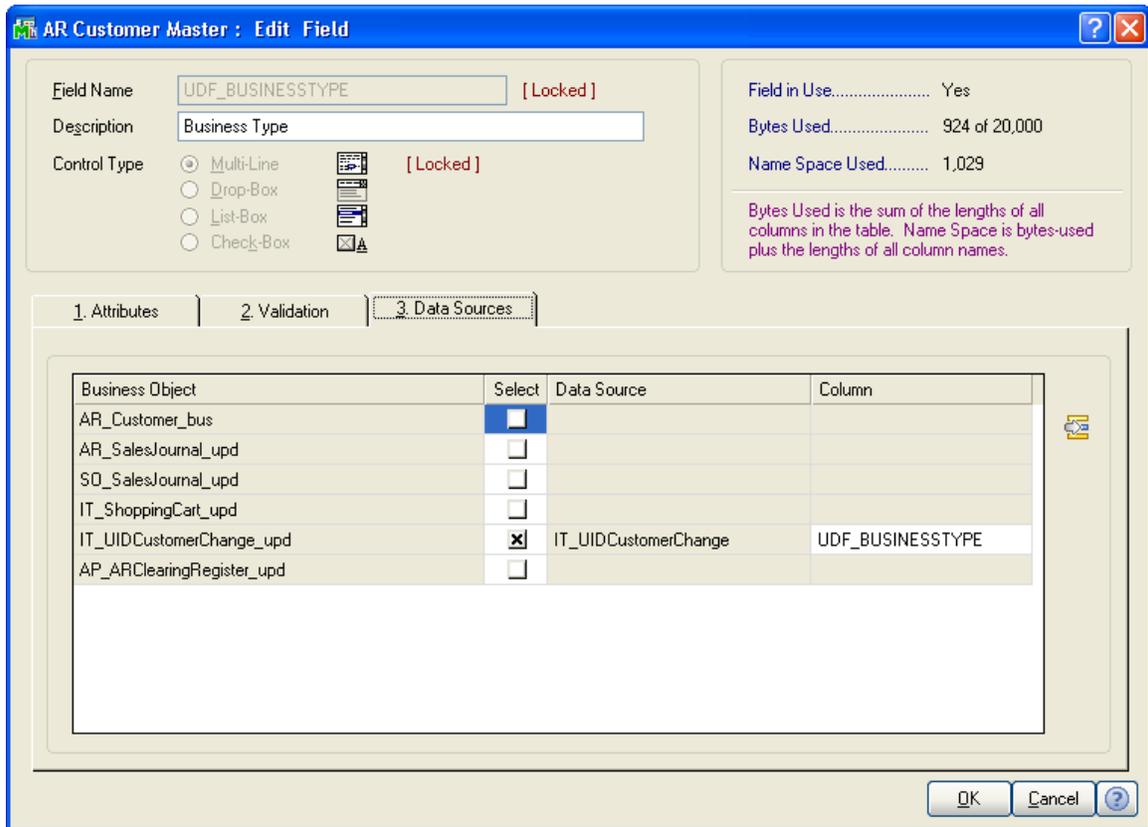


Figure 4

For help adding a User Defined Field, please consult your Custom Office Manual.

Customer Maintenance (ABC) 4/1/2009

Customer No. 99-0000010

Name Robert E. Nordin

1. Main | 2. Additional | 3. Statistics | 4. Summary | 5. History | 6. Invoices | 7. Transactions | 8. S/Os

Address: HighTower  
4709 w golf rd

ZIP Code: 60076

City: Skokie State: IL

Country: USA United States of America

Residential Addr:

Salesperson: 0000 Web Sales

Telephone: (847) 674-0081 Ext:

Fax:

Terms Code: 00 No Terms

Primary Contact:

Ship Code: C.O.D.

Primary Ship To:

Tax Schedule:

Exemptions...

Credit Hold:

Credit Limit: 500.00

E-mail Address:

URL Address:

Paperless...

Business Type: DESIGNER

Accept Cancel Delete

Figure 5

Once the field is added, we can start work on the e-Business Manager Templates.

**Modifying the Profile Template**

Edit the Profile template, "Profile.htm", located in the "webEng\iw" directory.

The code in Code Listing 4 is formatted a little better than what you will find in the actual template so you can follow the logic. (Some of the code is chopped off at the right in this listing, but it is not pertinent to our example.)

```

<tr>
  <th class="IntRow" align="right">Fax Number:</th>
  <td class="DataRow"><input type="text" name="FaxNo" value="~~SY_EBusinessManag
</tr>
<tr>
  <th class="IntRow" align="right">E-mail Address*:</th>
  <td class="DataRow"><input type="text" name="EmailAddress" value="~~SY_EBusine
</tr>

<!-- start modification -->
<tr>
  <th class="IntRow" align="right">Business Type:</th>
  <td class="DataRow">
    <input type="text" name="UDF_UID_Customer_Change"
      value="~~AR_Customer.UDF_BusinessType$~~"
      size="11" maxlength="10">
  </td>
</tr>
<!-- end modification -->

~~CurrentPassword$?a~~
<tr>
  <th class="TitleRow" colspan="2" align="left">~~TBL (NOT (NUL (SY_EBusinessManag
</tr>
<tr>
  <th class="IntRow" align="right">New Password~~TBL (NOT (NUL (SY_EBusinessManager
  <td class="DataRow"><input type="password" name="NewPassword" size="25" maxlen
</tr>

```

Code Listing 4

The page resulting from the modified code in Code Listing 4:

**ABC Distribution and Service Corporation** [Profile](#) | [Check Out](#) | [Help](#)

Product Search

**Categories**

- Equipment
- Furniture
- Printers
- Specials

**User Profile** Already a customer? [Sign In](#)

**Name\*:** Robert E. Nordin

**Address\*:** HighTower  
4709 W Golf Rd  
Suite 306

**City\* / State\*:** Skokie IL

**ZIP Code\* / Country\*:** 60076 United States of America

**Phone Number 1:** (847) 674-0081 **Ext:**

**Phone Number 2:** **Ext:**

**Fax Number:**

**E-mail Address\*:** rnordin@hightowerinc.com

**Business Type:** DESIGNER

**Current Password\*:** [Forgot Your Password?](#)

**Change Password**

**New Password:**

**Confirm New Password:**

\* Required Field

[Profile](#) [Products](#) [Check Out](#) [Help](#)

Please send questions or comments to the [Webmaster](#).

Figure 6

Changes made to Business Type will be posted through the IT UID Customer Change table to the AR Customer Master table.

### Finishing Touches

The UDF we added was a free-form 10 character field. Users, especially e-Business Manager users, could type in anything they wanted. Let's limit the user's input by changing the UDF to a drop down box. (In order to change the UDF\_BusinessType field, you have to remove it completely from AR Customer Master and IT UID Customer Change and then re-enter them.)

The screenshot shows the 'AR Customer Master : Edit Field' dialog box. The 'Field Name' is 'UDF\_BUSINESSTYPE' and the 'Description' is 'Business Type'. The 'Control Type' is set to 'Drop-Box'. The 'Validation' tab is active, showing a 'List...' selection with options: Designer, Architect, Home Owner. The 'Required Field' checkbox is unchecked. The 'Validation Program' field is empty. The 'Field in Use' status is 'Yes', 'Bytes Used' is '924 of 20,000', and 'Name Space Used' is '1,029'.

For the AR Customer Master UDF, you still have to set the Data Source to IT UID Customer Change.

**\* Customer Maintenance (ABC) 6/1/2009**

Customer No. 99-0000010    Copy From...    Renumber...    Contacts...

Name Robert E. Nordin

1. Main    2. Additional    3. Statistics    4. Summary    5. History    6. Invoices    7. Transactions    8. S/D's

Address HighTower  
4709 W Golf Rd  
Suite 306

ZIP Code 60076

City Skokie    State IL

Country USA    United States of America

Residential Addr

Salesperson 0000    Web Sales

Telephone (847) 674-0081    Ext

Fax

Terms Code 00    No Terms

Primary Contact

Ship Code C.O.D.

Primary Ship To

Tax Schedule

Exemptions...

Credit Hold

Credit Limit 500.00

E-mail Address mordin@hightowerinc.com

URL Address

Paperless

Business Type  
Designer  
Architect  
Home Owner

Accept    Cancel

**Modifying the Profile Template**

Edit the Profile template, "Profile.htm", located in the "webEng\iw" directory.

The code in Code Listing 5 is formatted a little better than what you will find in the actual template so you can follow the logic. (Some of the code is chopped off at the right in this listing, but it is not pertinent to our example.)

```

<tr>
  <th class="IntRow" align="right">Fax Number:</th>
  <td class="DataRow"><input type="text" name="FaxNo" value="~~SY_EBusinessManag
</tr>
<tr>
  <th class="IntRow" align="right">E-mail Address*:</th>
  <td class="DataRow"><input type="text" name="EmailAddress" value="~~SY_EBusines
</tr>

<!-- start modification -->
<tr>
  <th class="IntRow" align="right">Business Type:</th>
  <td class="DataRow">
    <select name="UDF_BusinessType">
      <script type="text/javascript">
        udfValue = "~~AR_Customer.UDF_BusinessType$~~";
        if (udfValue=="Designer") {
          document.write("<option selected value='Designer'>Designer");
        } else {
          document.write("<option value='Designer'>Designer");
        }
        if (udfValue=="Architect") {
          document.write("<option selected value='Architect'>Architect");
        } else {
          document.write("<option value='Architect'>Architect");
        }
        if (udfValue=="Home Owner") {
          document.write("<option selected value='Home Owner'>Home Owner");
        } else {
          document.write("<option value='Home Owner'>Home Owner");
        }
      </script>
    </select>
  </td>
</tr>
<!-- end modification -->

~~CurrentPassword$a~~
<tr>
  <th class="TitleRow" colspan="2" align="left">~~TBL (NOT (NUL (SY_EBusinessManag
</tr>
<tr>
  <th class="IntRow" align="right">New Password~~TBL (NOT (NUL (SY_EBusinessManag
  <td class="DataRow"><input type="password" name="NewPassword" size="25" maxlen
</tr>

```

Code Listing 5

The page resulting from the modified code in Code Listing 5:

**ABC Distribution and Service Corporation** [Profile](#) | [Check Out](#) | [Help](#)

Product Search

**Categories**

- Equipment
- Furniture
- Printers
- Specials

**User Profile** Already a customer? [Sign In](#)

**Name\*:** Robert E. Nordin

**Address\*:** HighTower  
4709 W Golf Rd  
Suite 306

**City\* / State\*:** Skokie IL

**ZIP Code\* / Country\*:** 60076 United States of America

**Phone Number 1:** (847) 674-0081 **Ext:**

**Phone Number 2:** **Ext:**

**Fax Number:**

**E-mail Address\*:** rnordin@hightowerinc.com

**Business Type:** Architect

**Current Password\*:** [Forgot Your Password?](#)

**Change Password**

**New Password:**

**Confirm New Password:**

\* Required Field

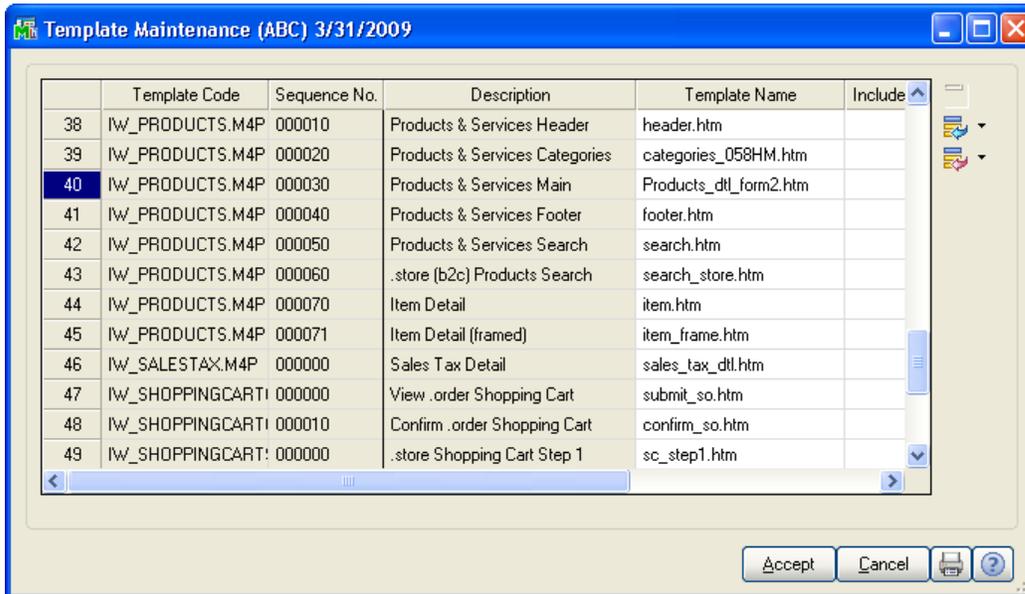
[Profile](#) [Products](#) [Check Out](#) [Help](#)

Please send questions or comments to the [Webmaster](#).

Changes made to Business Type will be posted through the IT UID Customer Change table to the AR Customer Master table and be limited to the three choices we preset on the page and in the Custom Office UDFs

## Appendix A: Determining the Template File Name

There are several product listing templates. Which one you use, depends on your needs. You can look up the template in use in MAS 90 by selecting Template Maintenance from the e-Business Manager Setup menu.



The product listing template is “Products\_dtl\_form2.htm”.

Another way to discover the template in use is to right-click on the product listing page in Internet Explorer and select “View Source” from the pop-up menu.

```

<!-- $Header: Products_dtl_form2.htm 1.16 2007/01/30 16:59:44PST blgennar
Released $ -->
<!-- Products and Services - Products Template 2 -->
<!-- Copyright(c) Sage Software, Inc. 1988-2005. All rights reserved. -->
<html>
<head>
<base href="http://localhost/">
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<link rel="stylesheet" type="text/css" href="aqua.css">
<script language="JavaScript1.2">
<!-- //Contents for main menu styles 1 or 2
var menu1=new Array()
menu1[0]='<a class="MainMenuItems"
href="http://localhost/IW_Products.m4p.pvx?;PRODUCTS_NO_TREE?cat=EQUIPMENT">Equi
pment</a><br>'

menu1[1]=
'<a class="MainMenuItems"
href="http://localhost/IW_Products.m4p.pvx?;PRODUCTS_NO_TREE?cat=FURNITURE">Furn
iture</a><br>'

menu1[2]=
'<a class="MainMenuItems"
href="http://localhost/IW_Products.m4p.pvx?;PRODUCTS_NO_TREE?cat=PRINTER">Printe
rs</a><br>'

```