

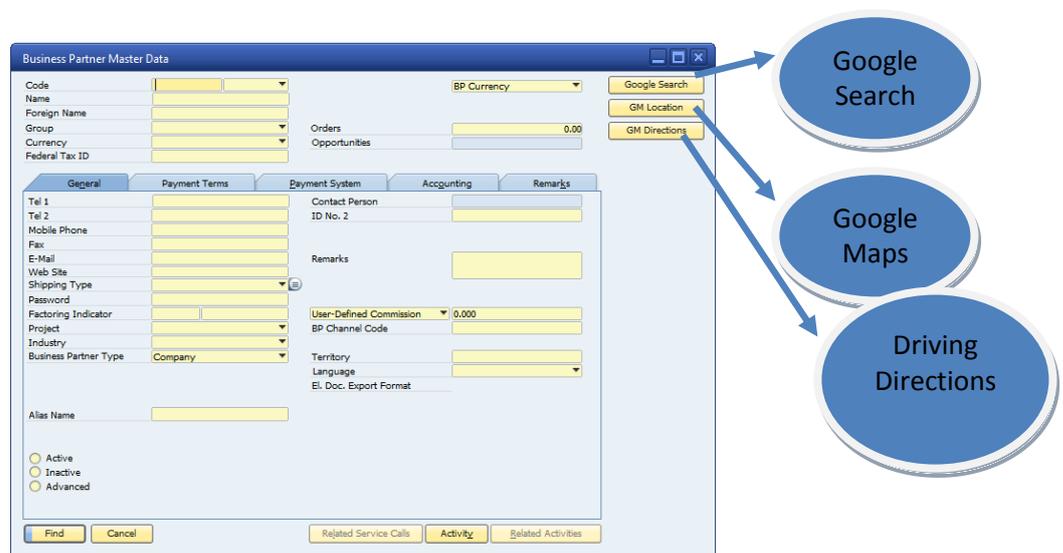
Google Maps and Google Directions

| Summary | |
|---------------------|--|
| Module | Function Buttons + Universal Functions |
| Level | Advanced |
| Requirements | B1UP 2.7.4.0 or Higher |

NB: THIS SAMPLE ASSUME THAT YOU KNOW HOW TO ADD BUTTONS USING THE FUNCTION BUTTONS (IF NOT PLEASE SEE BASIC SAMPLES BEFORE PROCEEDING)

Scenario

Customer wish to be able to use Google Maps (TM) to navigate find customer and to drive to them



Needed Configuration

We need the following configurations

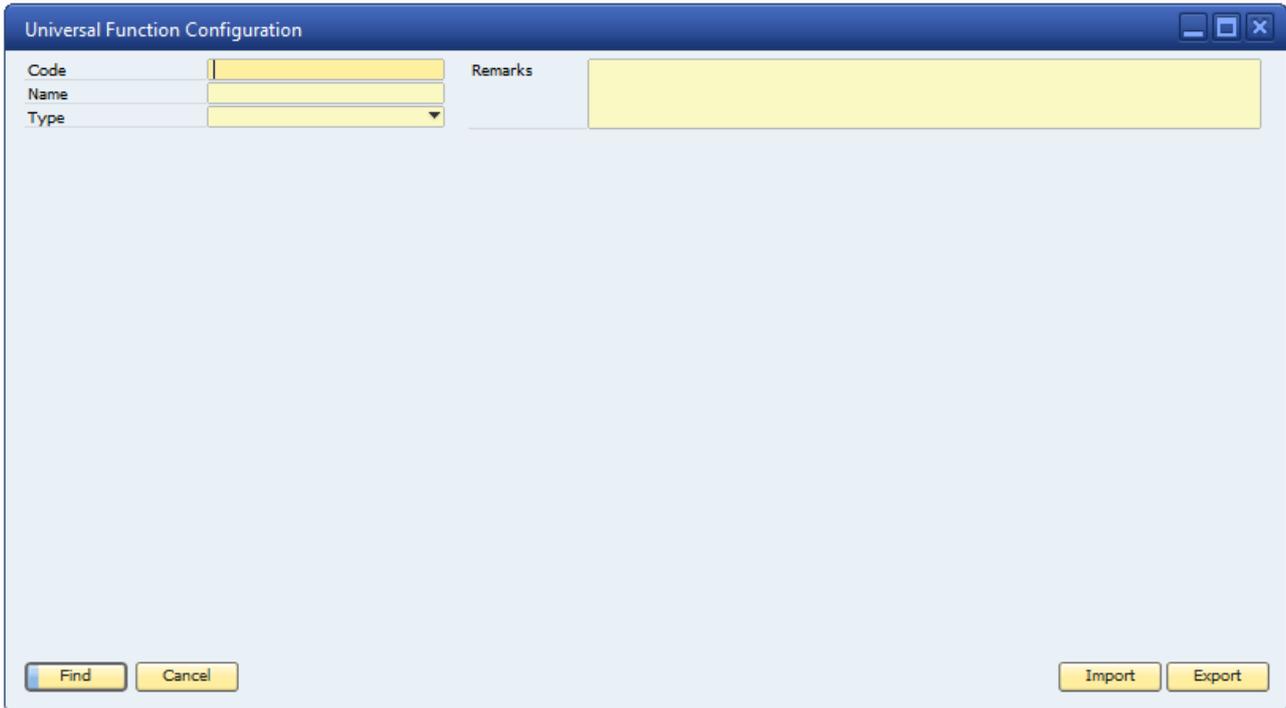
1. Three Universal Function configurations (one for each button)
2. The Function Button Configuration

Step 1. The three Universal functions

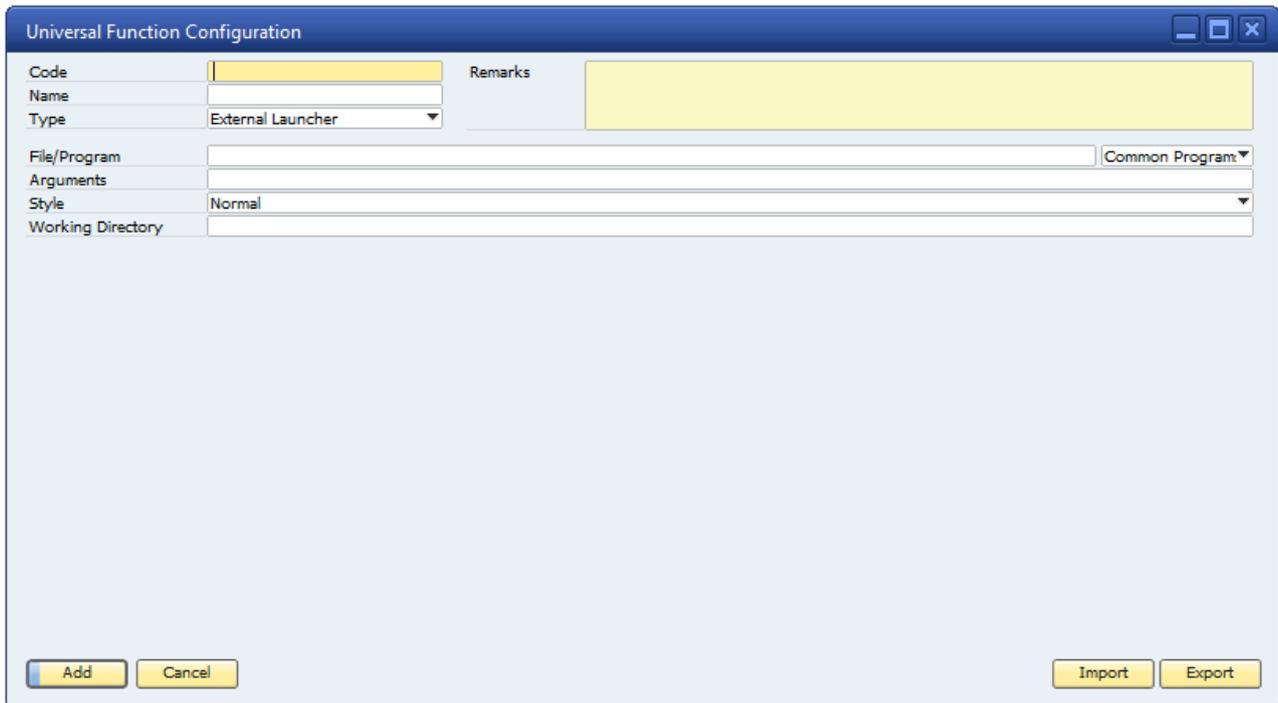
Button 1: Search Google

Before we can create the Function button we need to have our four Universal Function Configurations ready (one for each button).

To create universal functions please navigate to Administration > Add-Ons > B1 Usability Package > Module configuration > Universal Function configuration



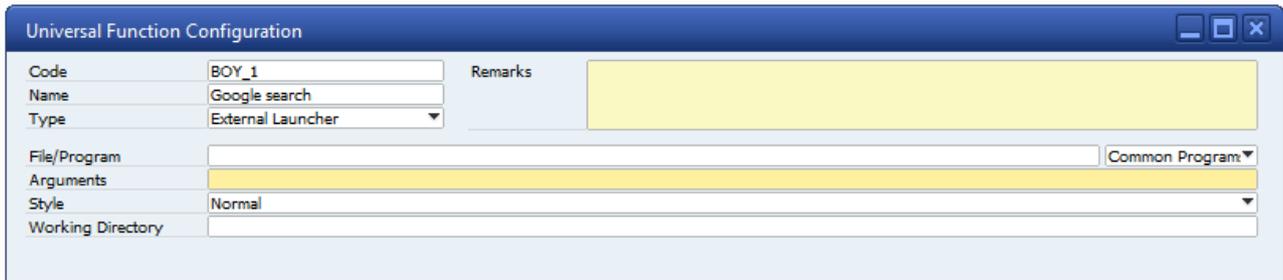
Start by switching to add-mode and choose the Universal Function type called External Launcher



First thing we need to do is to provide a code and a name for your configuration and optional some remarks to keep track of what the function does.

It is you that decide the code, name it just have to be unique and the code can max. be up to 8 characters long.

In this sample set the Code to BOY_1 and the name to Google Search and add the remarks

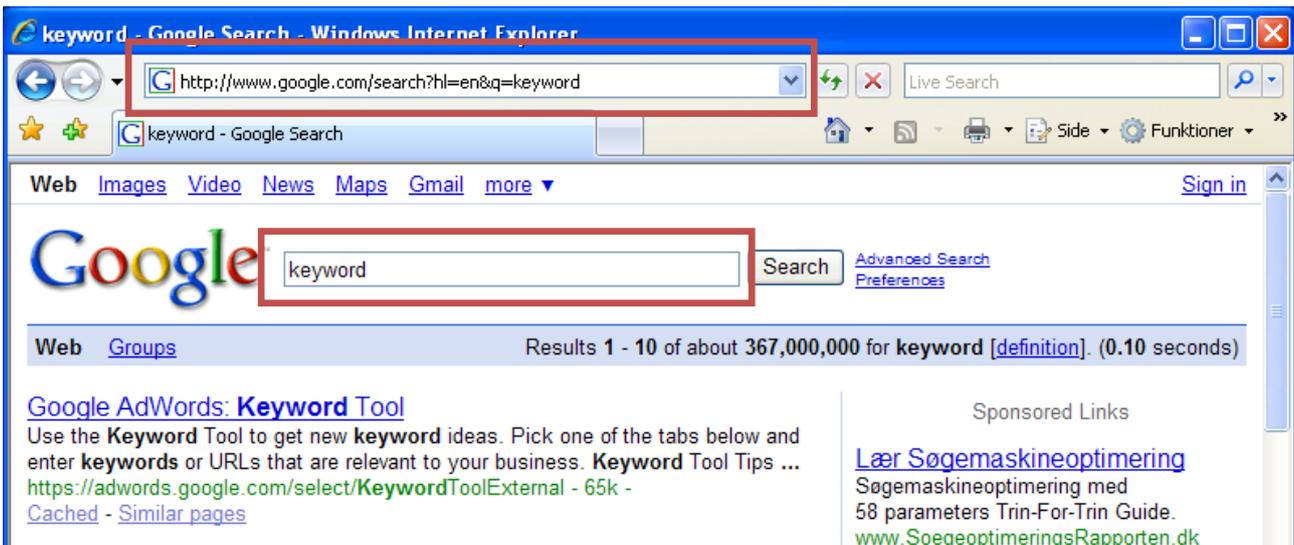


Next we need to enter the two primary things need for an External launcher; the program and the arguments¹.

In the program field we need to enter what program we want to launch and since we would like to launch Internet explorer here we enter iexplore.exe (the executable of Internet Explorer)

Internet Explorer has the option to accept arguments when launching, so we use this feature to send along the URL of Google

If you search Google with a keyword and look at the URL you will see the following.



We can see that if we were to enter the URL: <http://www.google.com/search?hl=en&q=keyword> we would do a direct search on Google for the word “keyword”. We now have an URL where we can replace the “keyword” with the name of the business partner.

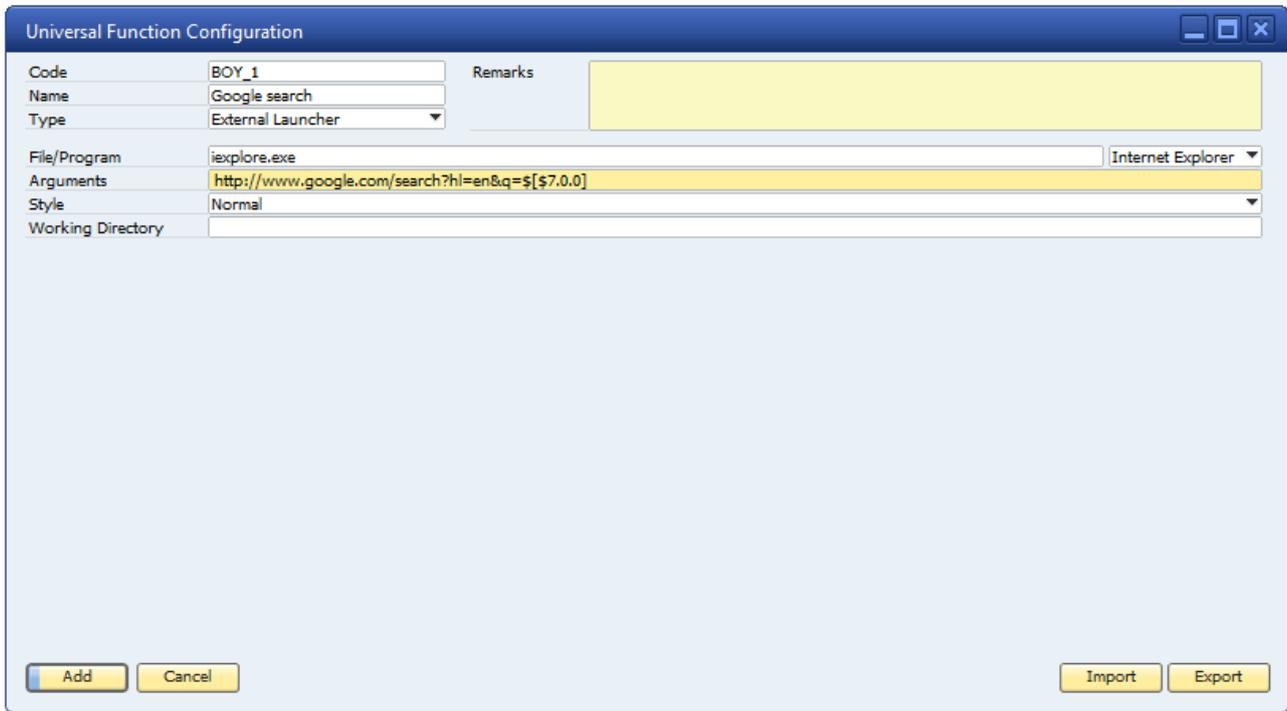
Using the above knowledge we now know that our arguments should be

[http://www.google.com/search?hl=en&q=\\${\\$7.0.0}](http://www.google.com/search?hl=en&q=${$7.0.0})

¹ In the sample ignore the Style and Working directory since they are rarely used (Documented in the manual)

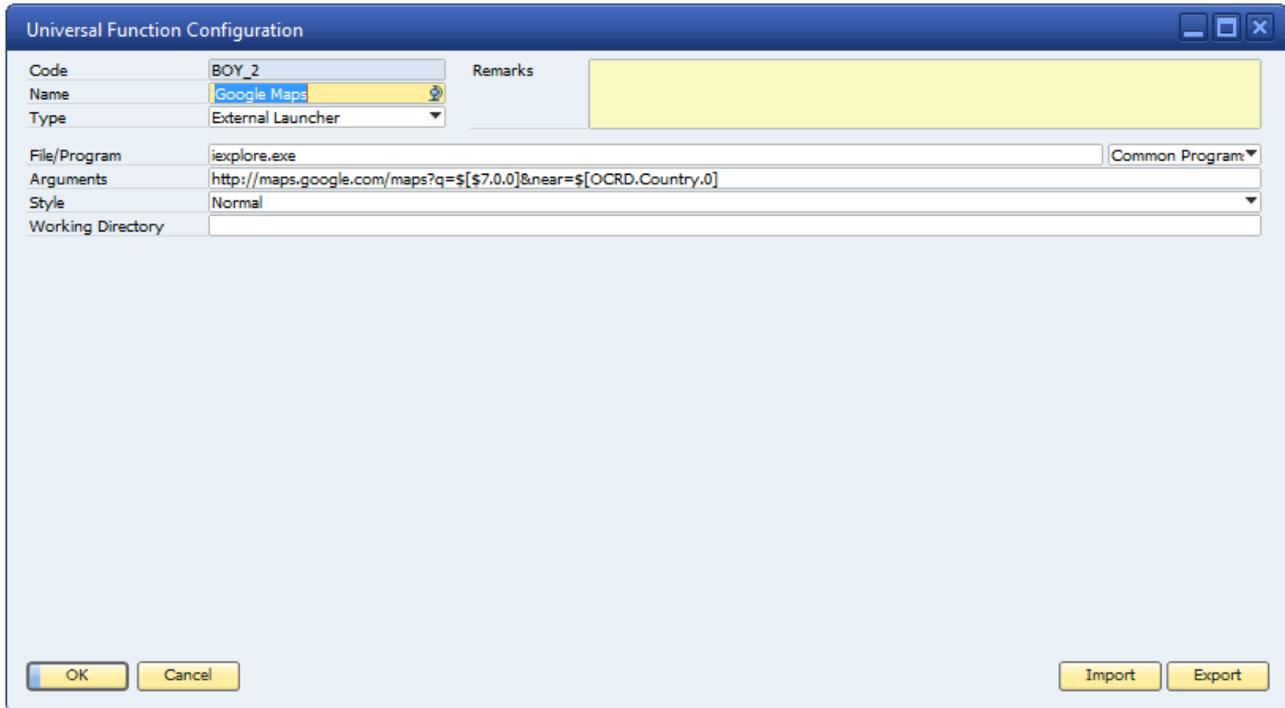
The dynamic syntax is `$$[item.column.type]` and in this case the BP name is item UID 7, and therefore `$$[7.0.0]`

NB: FOR MORE ON THE SYNTAX PLEASE SEE THE “UNDERSTANDING DYNAMIC SYNTAX” GUIDE



We now have our configuration for the first button and create 3 more in the same manner.

Button 2: Google Maps Location:



Here our arguments are for Google Maps where we need to provide two pieces of data form SAP to the following URL:

```
http://maps.google.com/maps?q=<name of company>&near=<country>
```

Using the dynamic value system we use



```
http://maps.google.com/maps?q=${7.0.0}&near=${OCRD.Country.0}
```

To provide the name and the country of the Business Partner

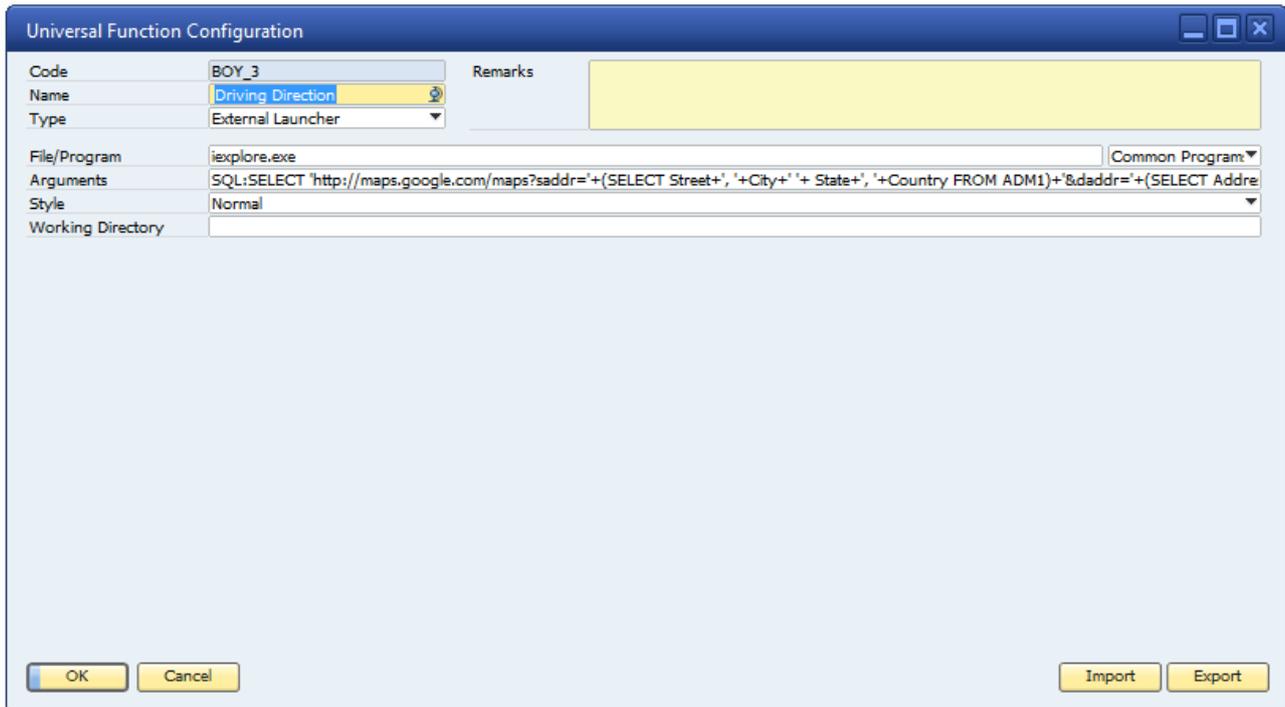
NB: FOR MORE ON THE SYNTAX PLEASE SEE THE DYNAMIC SYNTAX GUIDE PROVIDED WITH THE SAMPLES

Button 3: Google Maps: directions

NB: THIS BUTTON ONLY WORK WITH VERSION 2.7.4.0 AND HIGHER AND IS QUITE ADVANCED TO SET UP

Button 3 is in the same manner as 2, but is a bit more tricky since we now wish to provide a to and from location to Google maps. In order to do that we need to use SQL in the arguments field.

B1UP gives you this option by adding an SQL: prefix before the argument which tell the system that it should treat it as SQL that will give the value of the field.



The SQL we use one of the following (since the best way to search Google maps varies):

Optimized for the United States

```
SQL:SELECT 'http://maps.google.com/maps?saddr='+ (SELECT Street+', '+City+' '+ State+', '+Country FROM ADM1)+'&daddr='+ (SELECT Address+', '+City+' '+State1+', '+Country FROM OCRD WHERE CardCode = $[$5.0.0])
```

Optimized for Europe

```
SQL:SELECT 'http://maps.google.com/maps?saddr='+ (SELECT Street+' '+Zipcode+' '+City+' '+Country FROM ADM1)+'&daddr='+ (SELECT Address+' '+ZipCode+' '+City+' '+Country FROM OCRD WHERE CardCode = $[$5.0.0])
```

What the code essentially does is that it takes the address in Company Details (Administration > System Initialization > Company Details) as the start address and the Business Partners default address as to address.

We are now done creating our 3 universal functions and ready to tie them to function buttons.

Step 2. Function Button Configuration

Here we add 3 buttons to the business partner master data (formtype 134)

We need 3 buttons and they should all be of type Universal Function

Buttons - Configuration

Code: FB-008 Users (Empty = All) [] Include users Exclude users

Formtype: 134

Description: Business Partner Master Data

Formwidth: 625 (Use only on sizeable forms)

Formheight: 540 (Use only on sizeable forms)

Buttonwidth: [] (If nothing entered: 100 pixel)

Buttons (Buttons without name is not shown)

| | Item | Col | Ident | Arguments | Universal Function | |
|-----|---------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------|
| 1: | Google Search | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OK Universal Function | BOY_1 |
| 2: | GM Location | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OK Universal Function | BOY_2 |
| 3: | GM Directions | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OK Universal Function | BOY_3 |
| 4: | [] | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OK Formatted Search | [] |
| 5: | [] | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OK Formatted Search | [] |
| 6: | [] | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OK Formatted Search | [] |
| 7: | [] | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OK Formatted Search | [] |
| 8: | [] | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OK Formatted Search | [] |
| 9: | [] | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OK Formatted Search | [] |
| 10: | [] | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OK Formatted Search | [] |

Active

OK Cancel Import Export

For each button go to the Universal function field, press tab and for each button choose the created Universal Function.

Now add the configuration

Use of functionality

Now when we open a Business Partner Window we already see the buttons.

The screenshot shows a software window titled "Business Partner Master Data". The window contains a form with various input fields and dropdown menus. At the top right, there are three buttons: "Google Search", "GM Location", and "GM Directions", which are enclosed in a red rectangular box. The form is organized into several sections: a top section for basic identification (Code, Name, Foreign Name, Group, Currency, Federal Tax ID), a middle section with tabs for "General", "Payment Terms", "Payment System", "Accounting", and "Remarks", and a bottom section for status and actions. The "General" tab is currently selected, showing fields for contact information (Tel 1, Tel 2, Mobile Phone, Fax, E-Mail, Web Site), shipping details (Shipping Type, Password), and business information (Factoring Indicator, Project, Industry, Business Partner Type). The "Accounting" tab shows fields for "User-Defined Commission" (set to 0.000) and "BP Channel Code". The "Remarks" tab has a large text area. At the bottom, there are buttons for "Find", "Cancel", "Related Service Calls", "Activity", and "Related Activities".

And here is what happens if you navigate to a business partner and press the buttons

Google Search:

The image shows a screenshot of a SAP Business Partner Master Data window and a Google search result. The SAP window is titled "Business Partner Master Data" and contains the following fields:

| | | | | | |
|----------------|--------------|----------|-----------------|------|---------------|
| Code | 999 | Customer | Local Currency | | Google Search |
| Name | Boyum IT | | Account Balance | 0.00 | GM Location |
| Foreign Name | | | Deliveries | 0.00 | GM Directions |
| Group | Construction | | Orders | 0.00 | |
| Currency | US Dollar | | Opportunities | | |
| Federal Tax ID | | | | | |

Below the SAP window is a screenshot of a Windows Internet Explorer browser window. The address bar shows the URL: <http://www.google.com/search?hl=en&q=Boyum%20IT>. The search results for "Boyum IT" are displayed, showing approximately 141,000 results. The top result is "Add-ons for SAP Business One from Boyum IT" with a description: "Boyum IT is Denmark's leading SAP Business One development and consultant houses and creator of the award-winning add-on the B1 Usability Package." The URL www.boyum-it.com/ is also listed.

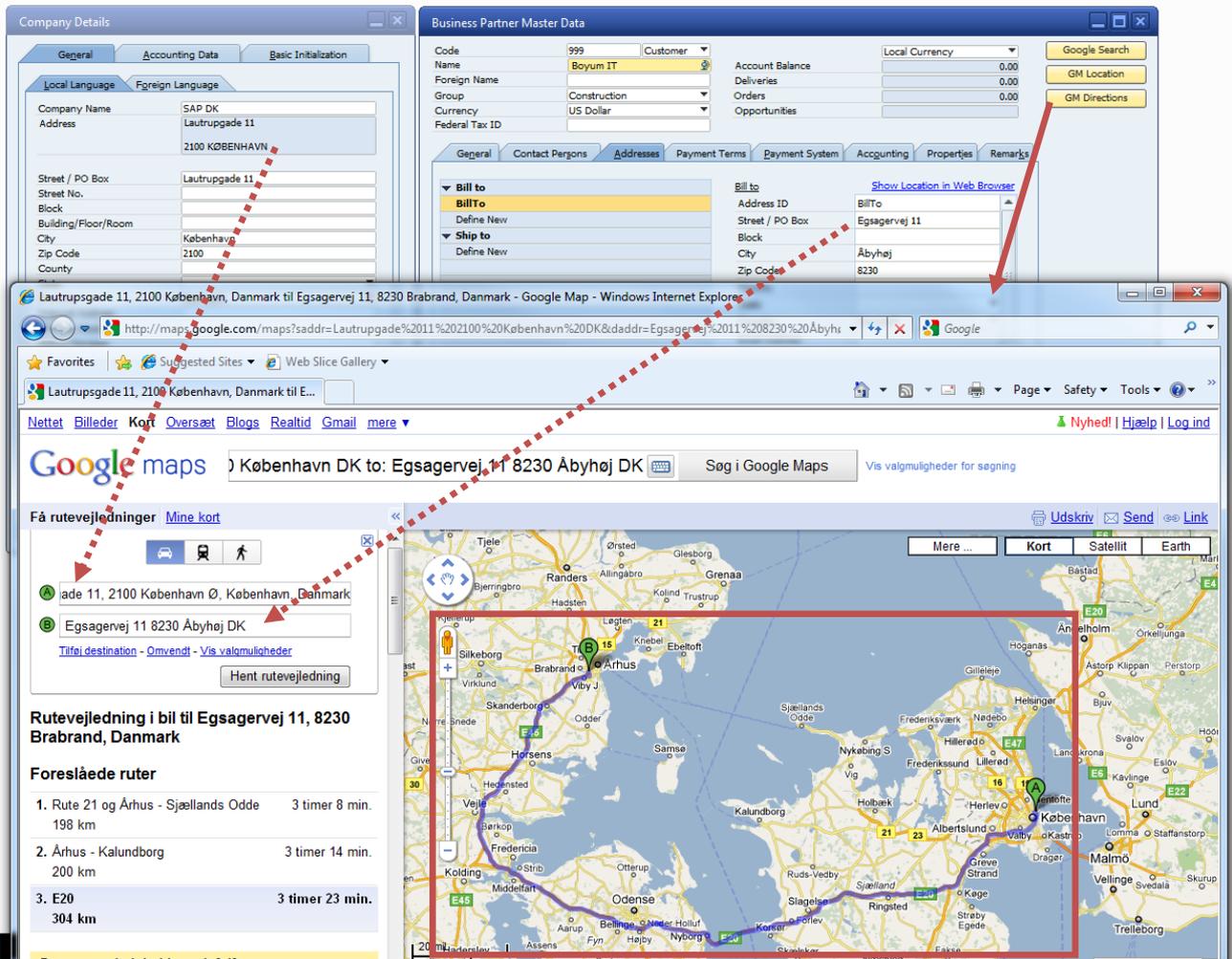
Google Maps: Location

The image shows a composite screenshot illustrating a usability issue. At the top, a window titled "Business Partner Master Data" contains a form with fields for "Code", "Name", "Group", and "Currency". The "Name" field is set to "Boyum IT". To the right of the form are buttons for "Google Search", "GM Location", and "GM Directions". A red arrow points from the "GM Location" button to the browser window below.

The browser window shows a Google Maps search for "Boyum IT loc: DK". A red box highlights the text "Bill to address Country" in the address bar. A red arrow points from this box to the "GM Location" button in the application window above, and another red arrow points from the box to the search bar in the browser window.

The Google Maps interface shows a list of results for "Boyum IT nær Danmark". The first result is "Boyum IT A/S" located at "Egsagervej 11, 8230 Åbyhøj, Danmark". A Street View image is visible for this location. The map shows the location of Åbyhøj, Denmark.

Google Maps: Directions



Appendix: Common used programs and arguments that they can receive:

| Configuration | Arguments |
|---|--|
| Start a Microsoft Word Document | - Program: winword.exe - Parameters: <data> (e.g. <data> = "\\server\docs\test.doc") |
| Start a Microsoft Excel document | - Program: excel.exe - Parameters: <data> (e.g. <data> = "\\server\docs\test.xml") |
| Start Remote Desktop | - Program: mstsc.exe - Parameters: /v <data> (e.g. <data> = 192.168.1.1) |
| Start a PDF-document | - Program: AcroRd32.exe - Parameters: <data> (e.g. <data> = "\\server\docs\test.pdf") |
| Start Internet explorer on a specific website | - Program: iexplore.exe - Parameters: <data> (e.g. <data> = http://www.boyum-it.com) |