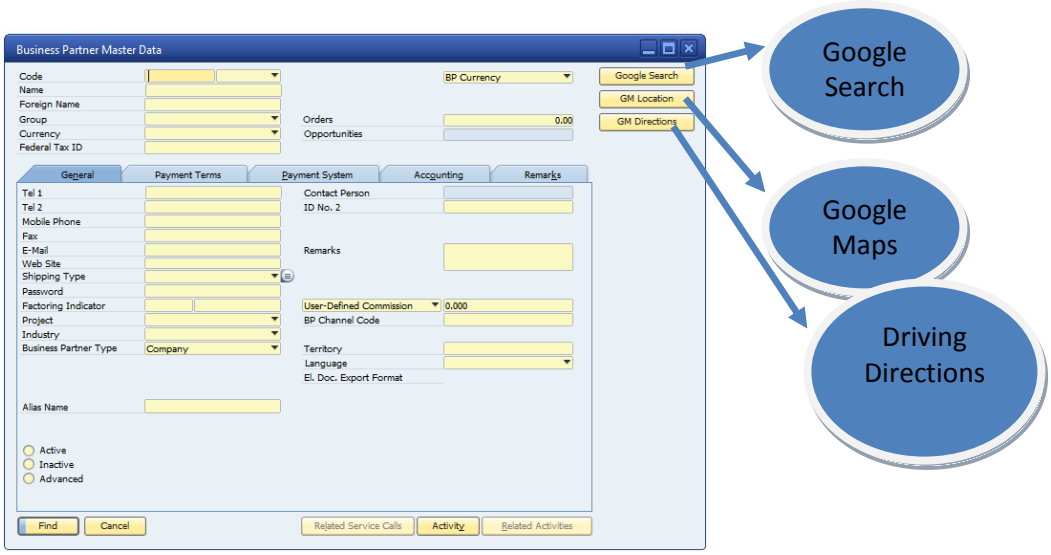
Google Maps and Google Directions

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

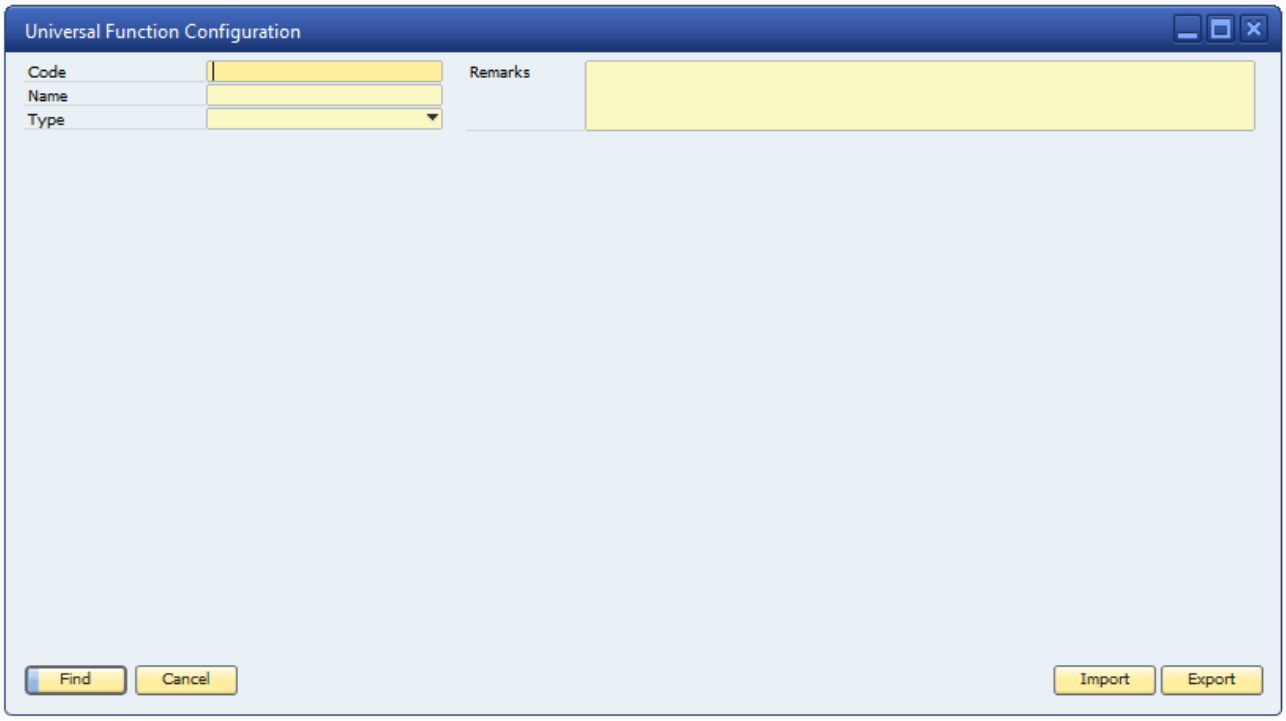
1. Three Universal Function configurations (one for each button)
2. The Function Button Configuration

Step 1. The three Universal functions

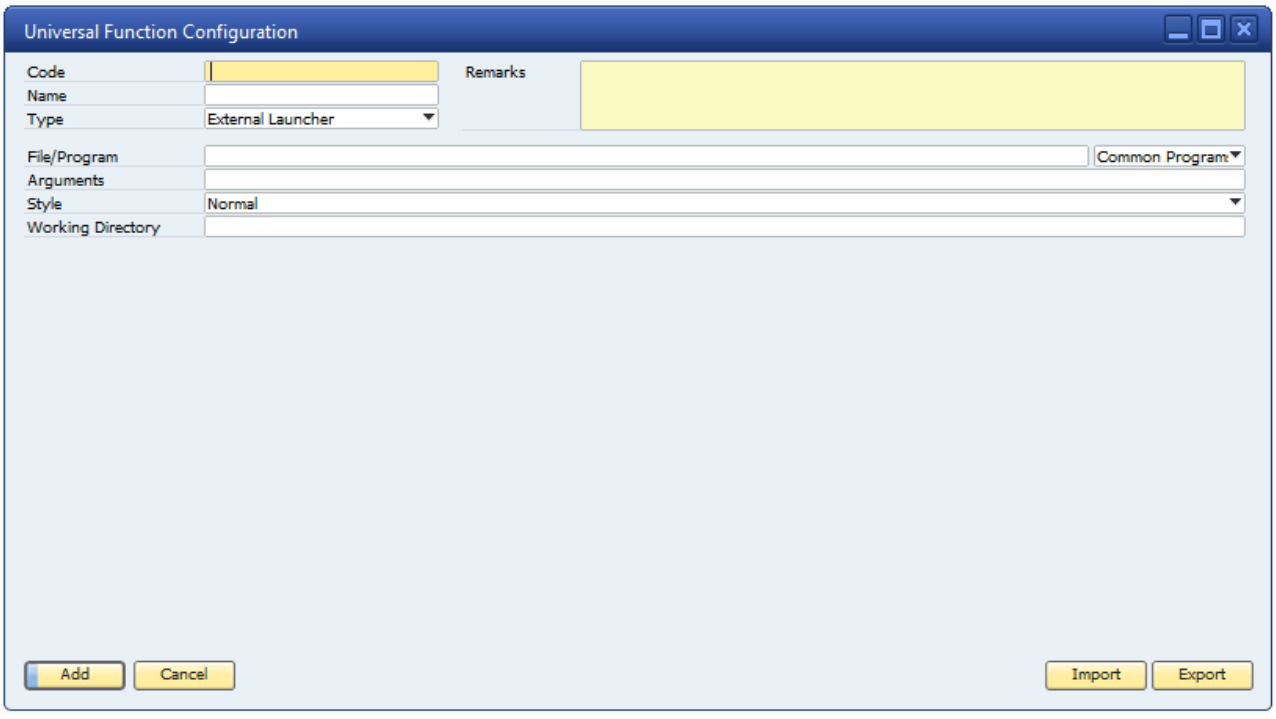
Button 1: Search Google

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.

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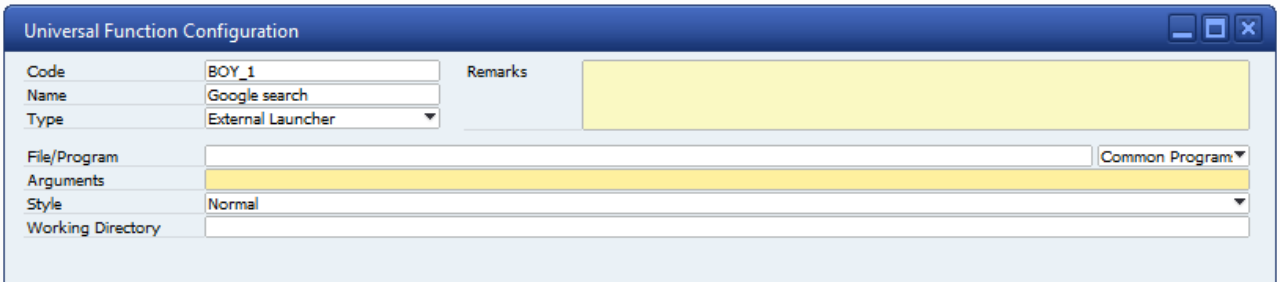
In this sample set the Code to BOY_1 and the name to Google Search and add the remarks

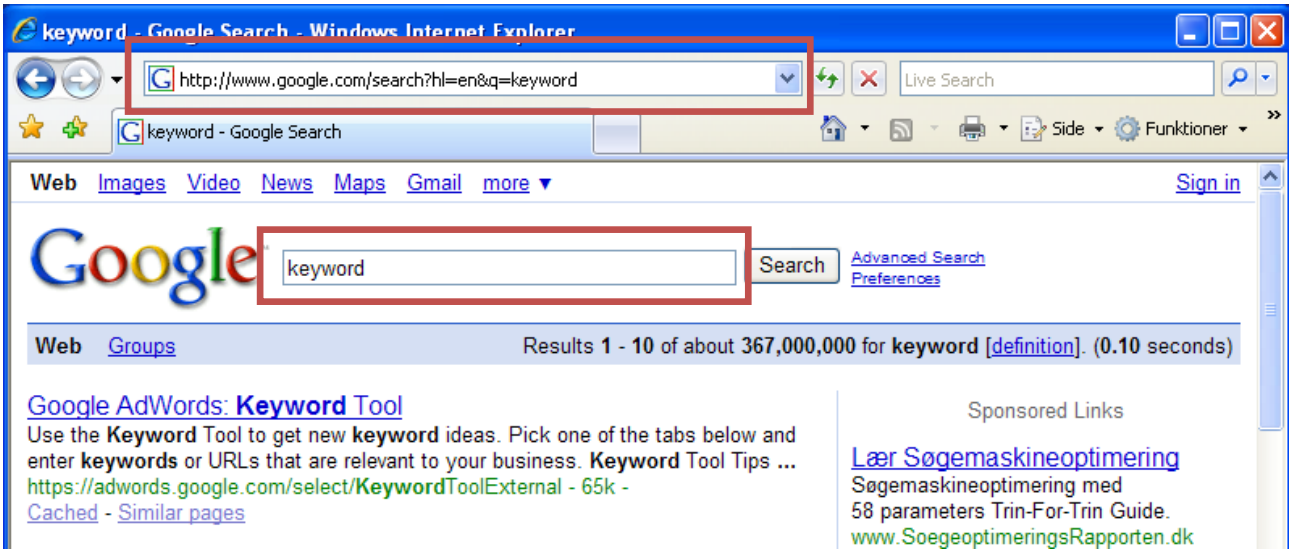


Next we need to enter the two primary things need for an External launcher; the program and the arguments[1].

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.

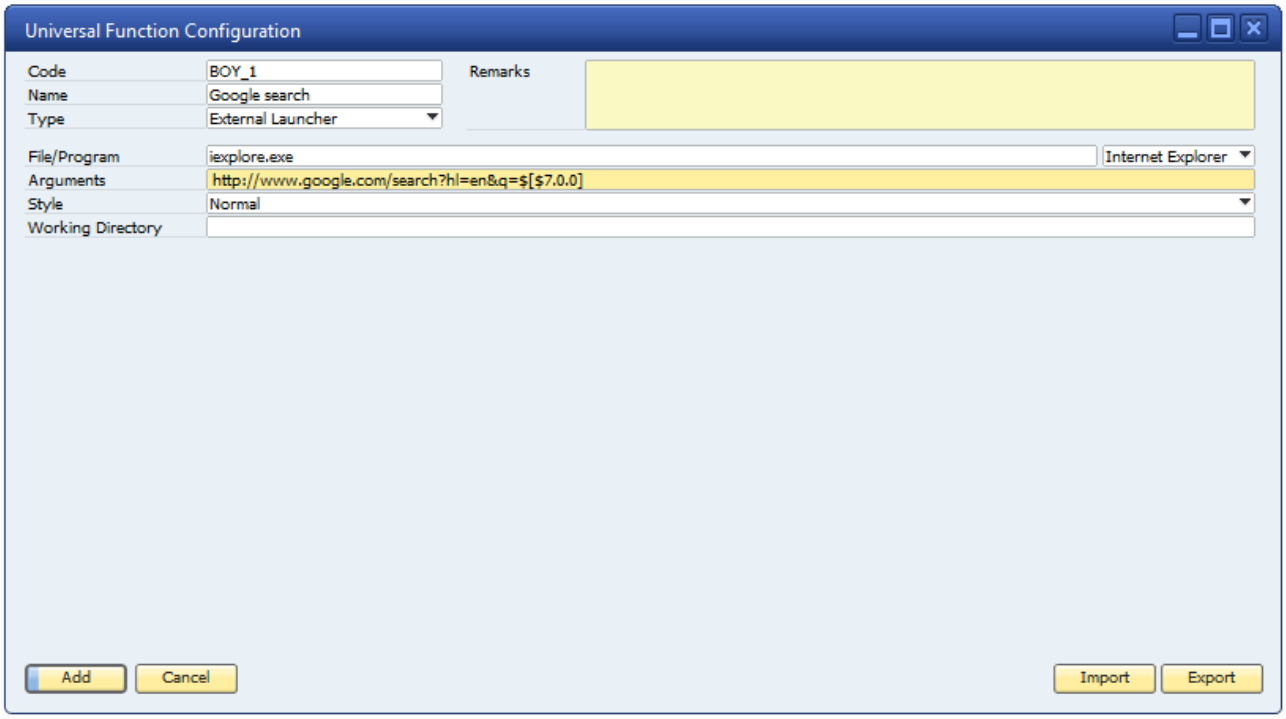
Using the above knowledge we now know that our arguments should be

```
http://www.google.com/search?hl=en&q=$[$7.0.0]
```

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

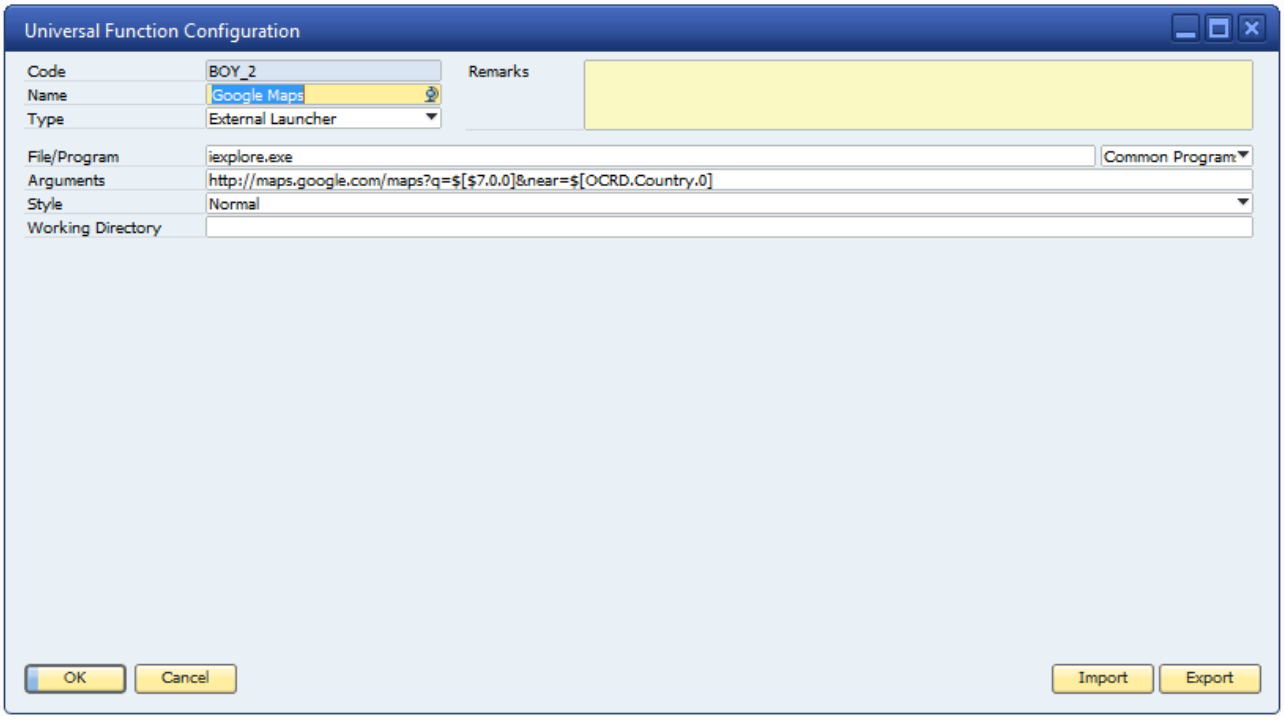
The dynamic syntax is $[$item.column.type] and in this case the BP name is item UID 7, and therefore $[$7.0.0]

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.

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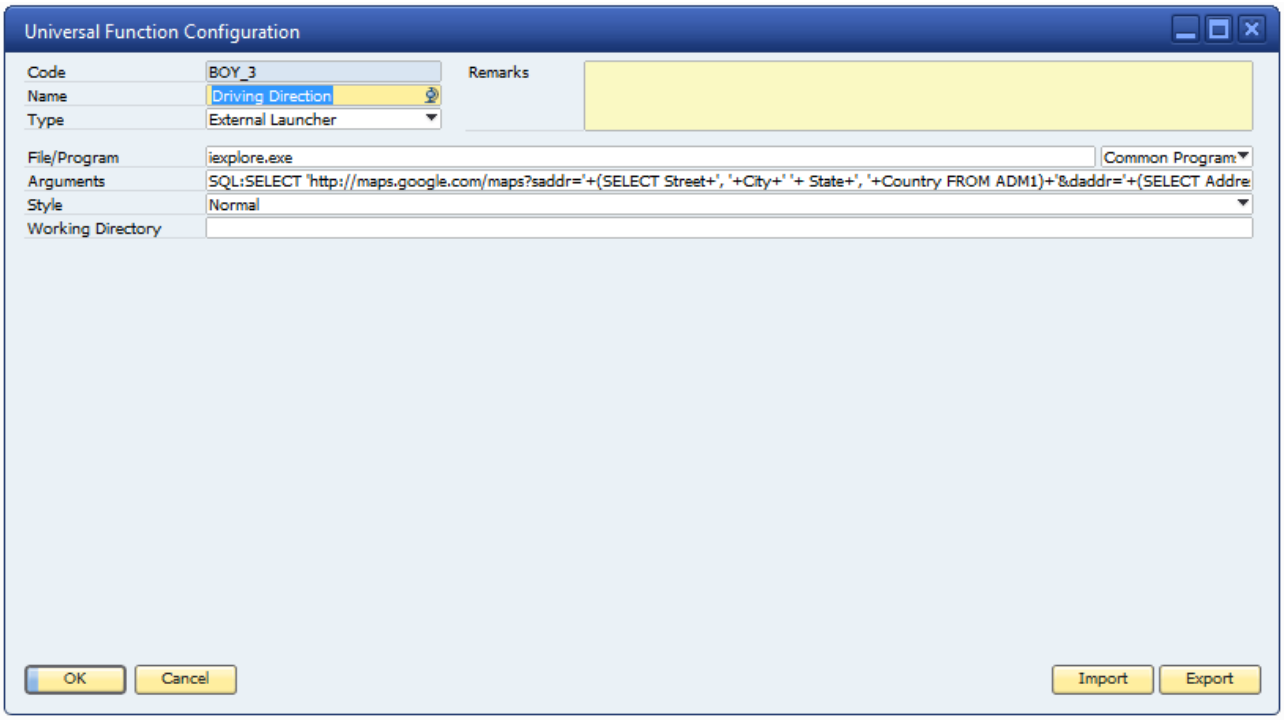


The SQL we use one of the following (since the best way to search Google maps varies):

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])
```

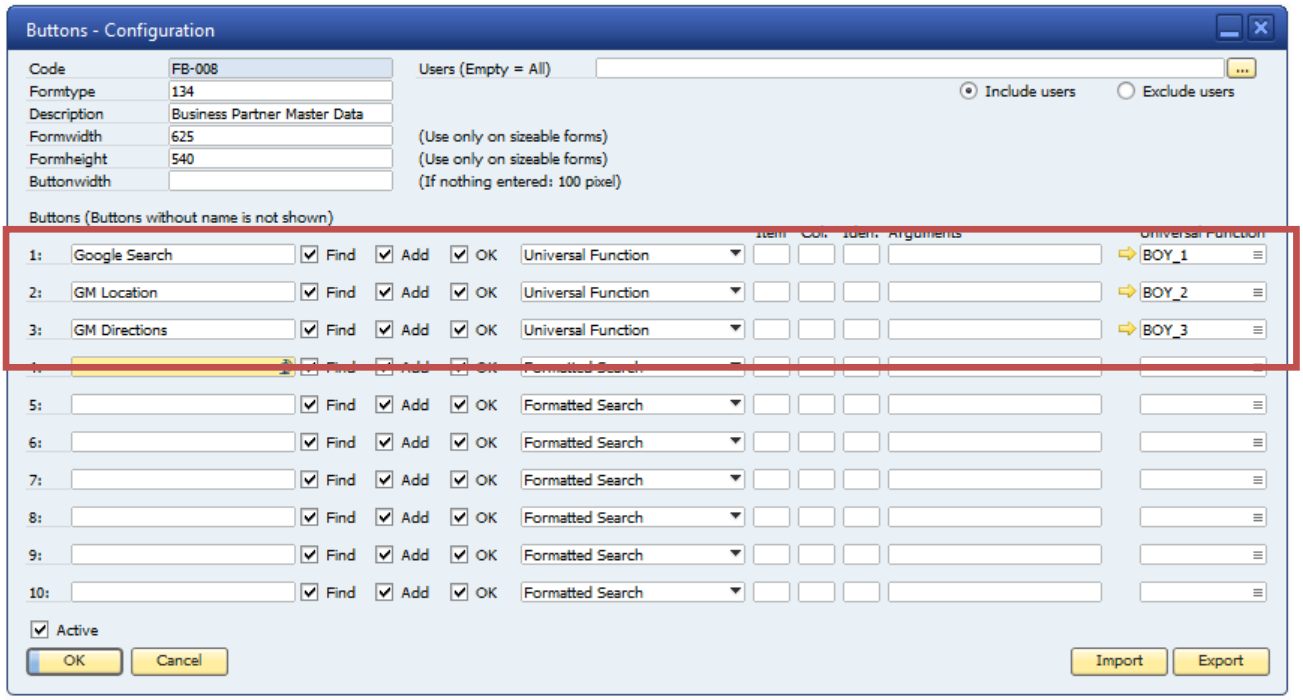
What the code essentially does is that it takes the address in Company Details (Administration > System Initialization > Company Details) as the start address and the Business Partners default address as to address.

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

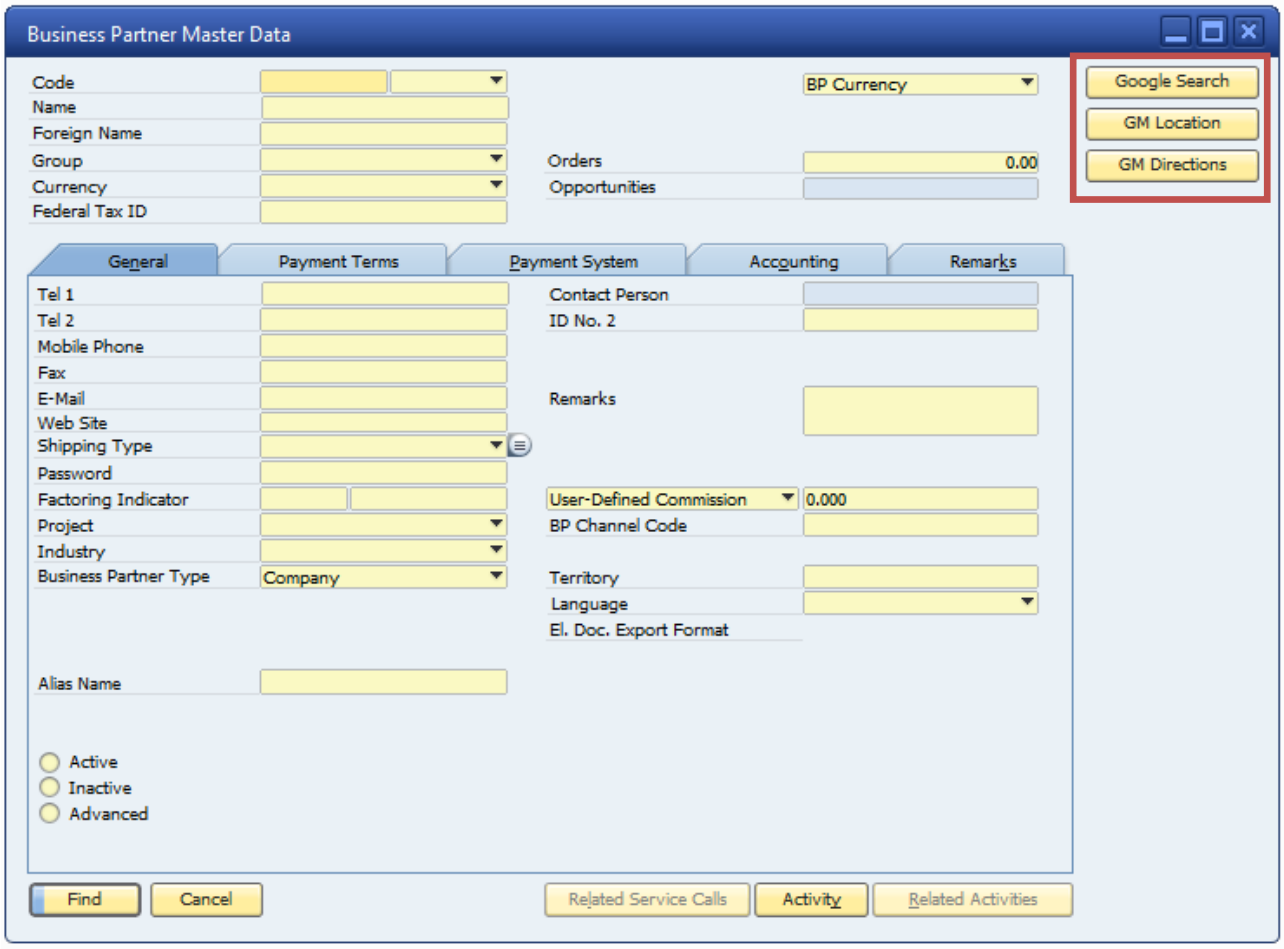


For each button go to the Universal function field, press tab and for each button choose the created Universal Function.

Now add the configuration

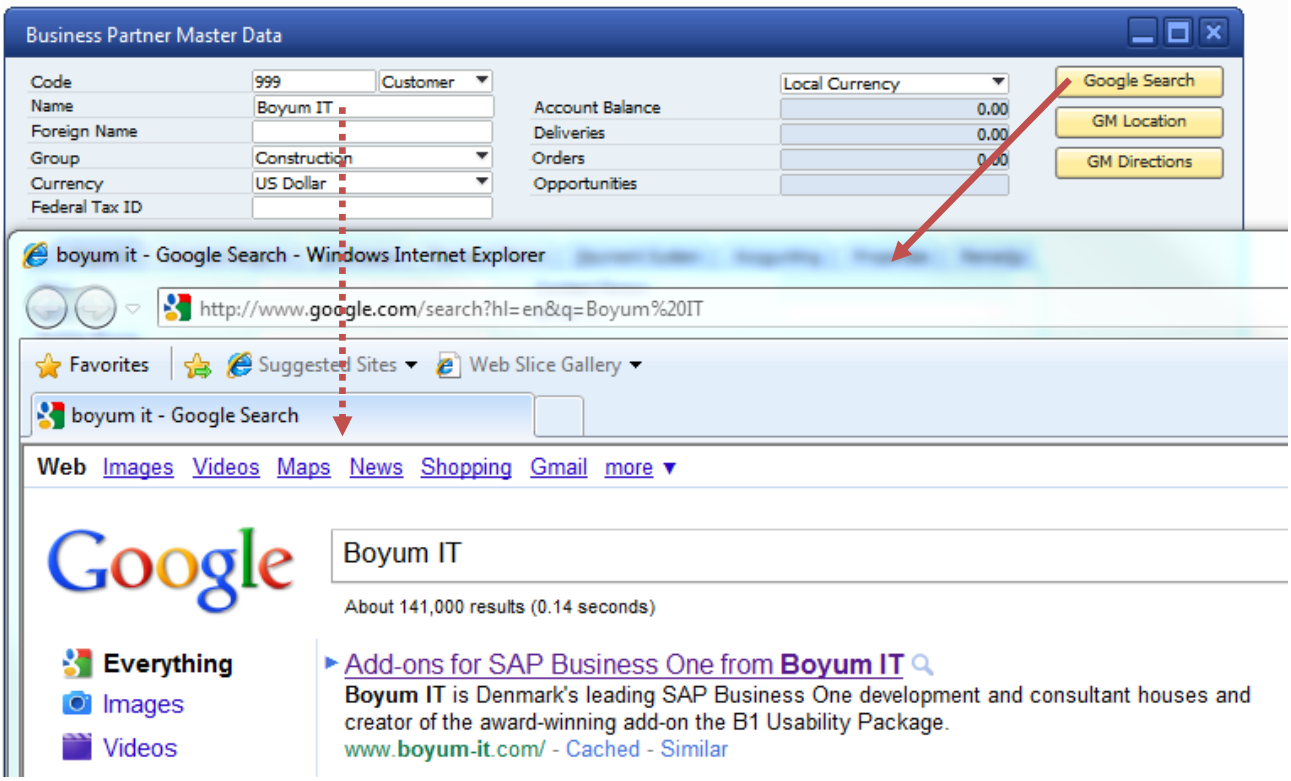
Use of functionality

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



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

Goolge Search:


Business Partner Master Data
Code
999
Customer
Name
Boyum IT
Foreign Name
Group
Construction
Currency
US Dollar
Federal Tax ID
Account Balance
Deliveries
Orders
Opportunities
Local Currency
0.00
0.00
0.00
Google Search
GM Location
GM Directions
boyum it - Google Search - Windows Internet Explorer
http://www.google.com/search?hl=en&q=Boyum%20IT
Favorites
Suggested Sites
Web Slice Gallery
boyum it - Google Search
Web Images Videos Maps News Shopping Gmail more
Google
Boyum IT
About 141,000 results (0.14 seconds)
Everything
Images
Videos
Add-ons for SAP Business One from Boyum IT
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.
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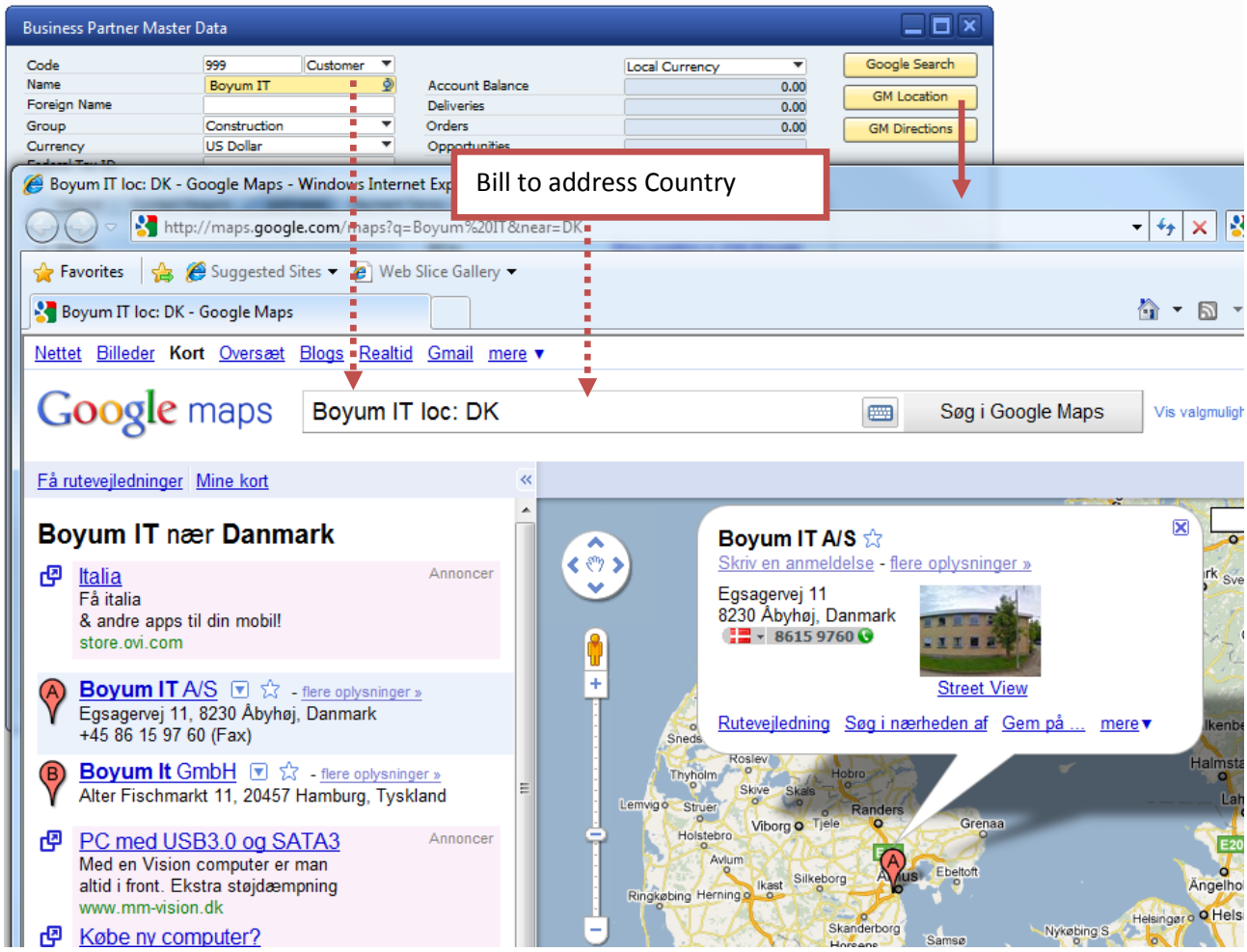
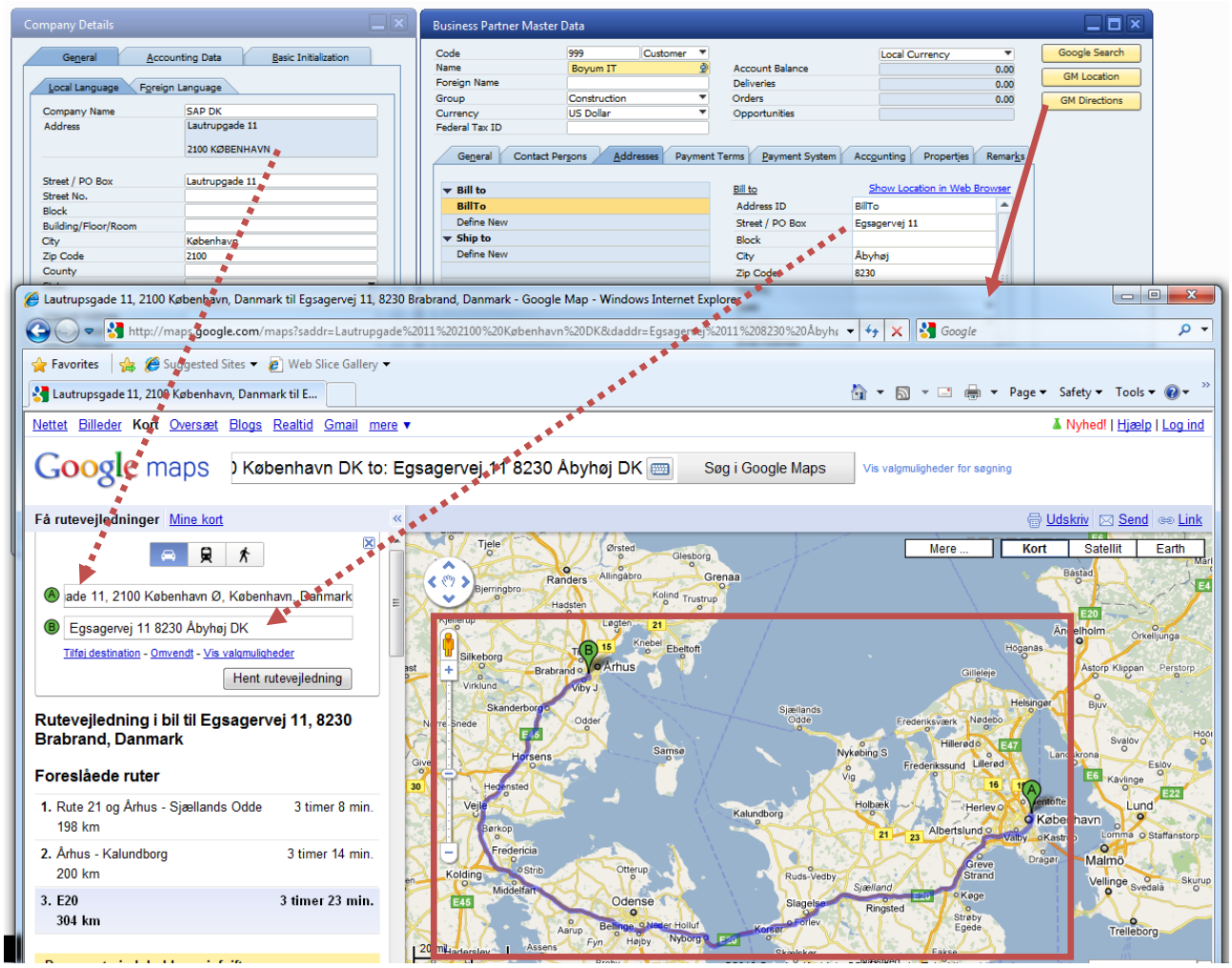
Google Maps: Location



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.xsl")
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)