



Graphical Program Flow Interface V2.0

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## 1 Concept

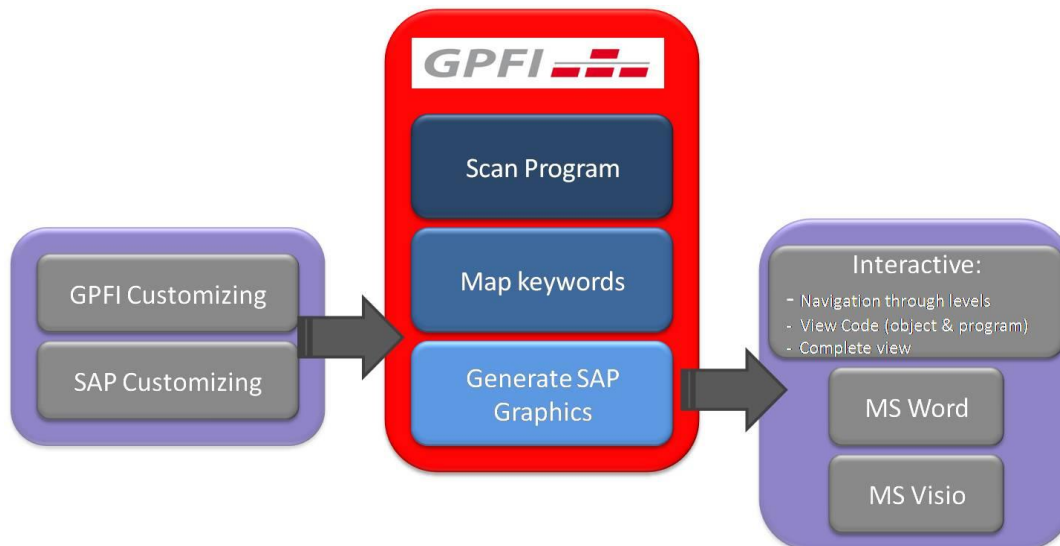
The GPMI generates a graphical presentation of your ABAP programs as well as from standard SAP programs. This will give you an interactive and clear view of your program, its source code and how it is structured.

The GPMI gives you the opportunity to standardize your documentation in an easy way and to document your backlog of non-documented or not up-to-date program documentation.

- Graphical Visualization of ABAP code (incl. Standard SAP) with drill down functionality
- Graphical Visualization of runtime measurement by object
- MS Word Interface for the ABAP documentation: Program flows, DDIC objects and code

## 2 High Level

The GPMI is working completely customizable regarding objects to be scanned, documentation to be generated and visual objects to be used. This customizing is either completely integrated in the standard SAP (Graphical Customizing) either customizable through maintenance views GPMI specific (keywords to be scanned, DDIC fields to be shown, 1<sup>st</sup> page layout, etc...). This will be further explained in this document.



### **3 Modules**

#### **3.1 The Base module**

The base module contains the scanning of the program, the graphical output and the interactive part of the standard SAP Graphics.

#### **3.2 Documentation interface module**

This module integrates the possibility to create the graphics, chosen in the GPI's Visio wizard, automatically in MS Visio, as well as the possibility to generate a complete and detailed documentation of the program in MS Word.

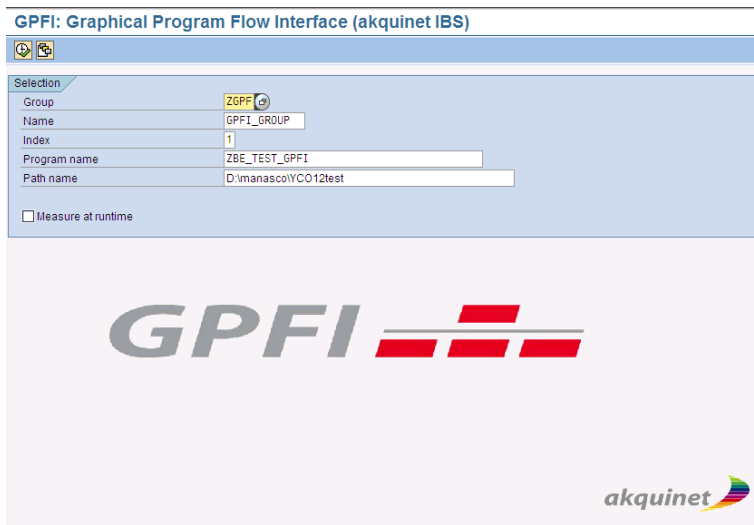
#### **3.3 Analytical module**

In this part the GPI runs the selected program and integrates the runtime measurement and number of passes per object of the program in the displayed graphic.

## 4 Base module:

### 4.1 Selection screen:

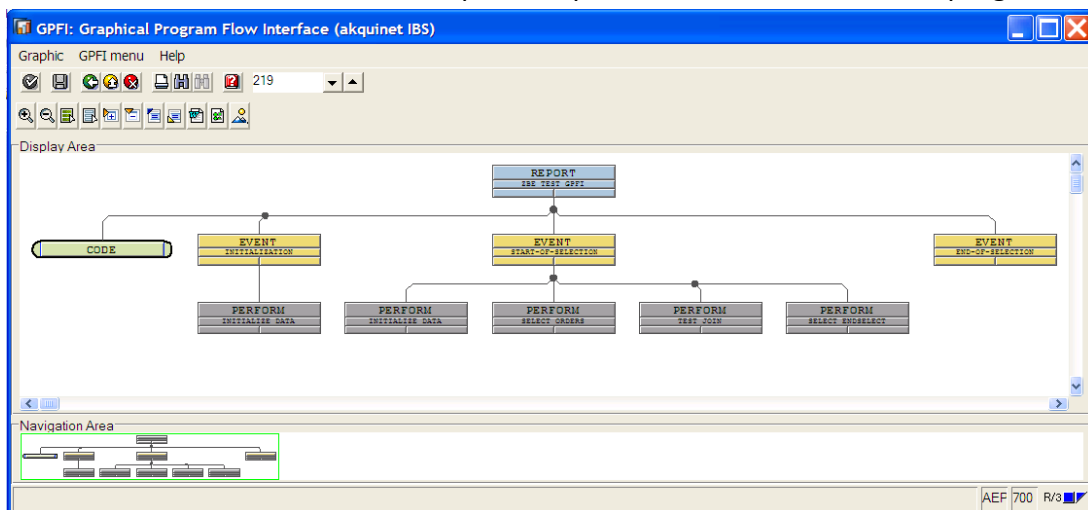
- Group, name and index are coming from the graphics customizing
- Program name is the program you wish to scan
- Path name is the path where the documents to be integrated in the documentation are coming from (only available for the Documentation Interface module)
- Measure at runtime includes runtimes in the graphic per object (only available in analytical module)



Selection screen

### 4.2 Result:

- The result is this interactive Graphical representation of the selected program.

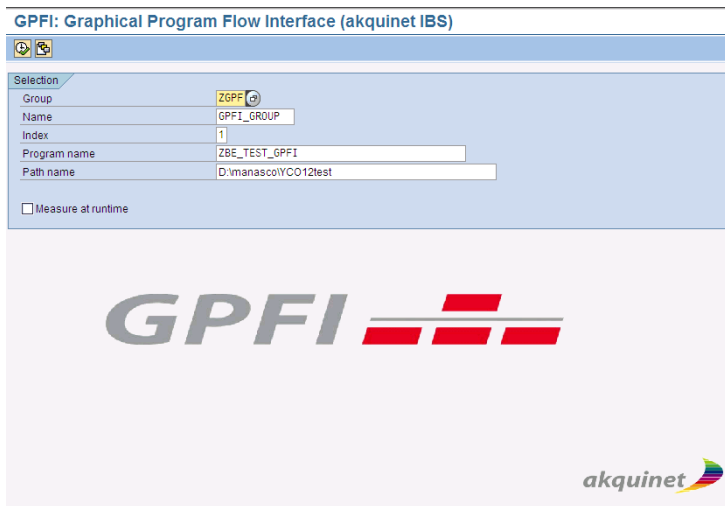


GPMI-Graphic

## 5 Documentation Interface module:

### 5.1 Selection screen:

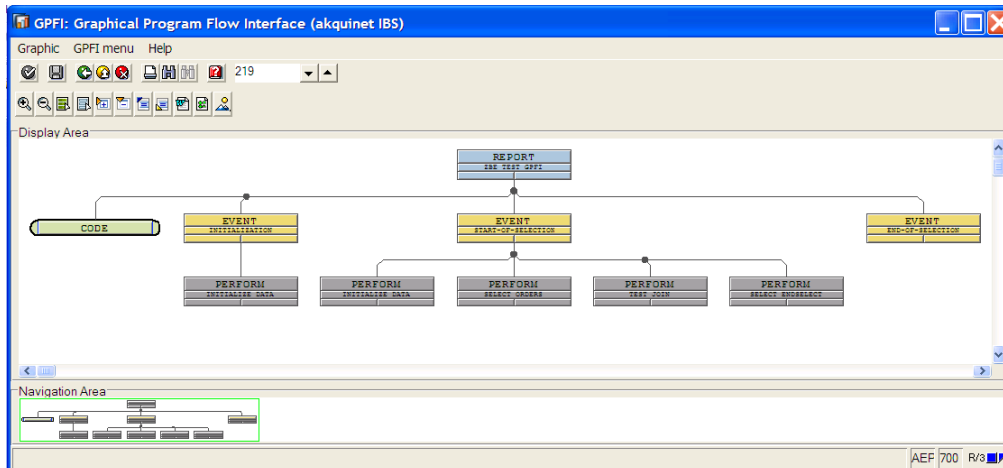
- Group, name and index are coming from the graphics customizing
- Program name is the program you wish to scan
- Path name is the path where the documents to be integrated in the documentation are coming from
- Measure at runtime includes runtimes in the graphic per object (only available in analytical module)



Selection screen

### 5.2 Result:

- The result is this interactive Graphical representation of the selected program.



### 5.3 Extra functionalities compared to base module:

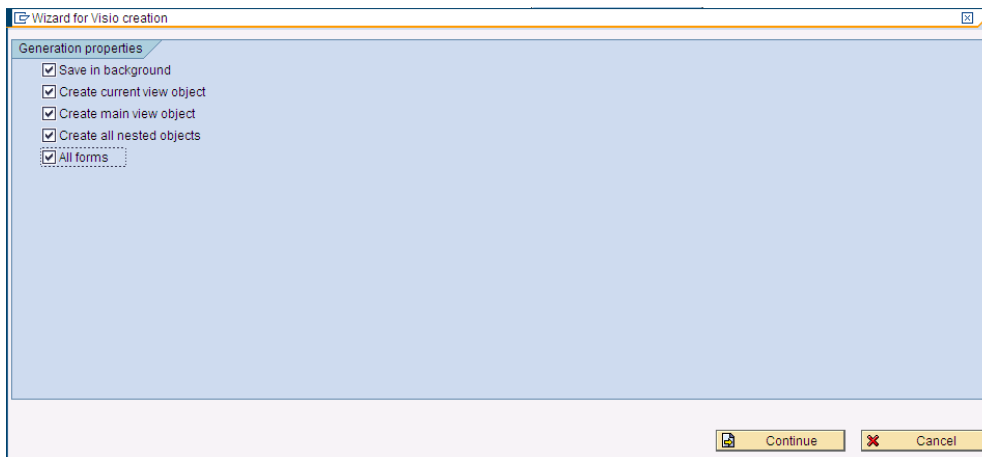
#### 5.3.1 Visio Document Creation

- Possibility to generate Visio documents of all Graphics with the Visio Creation Wizard



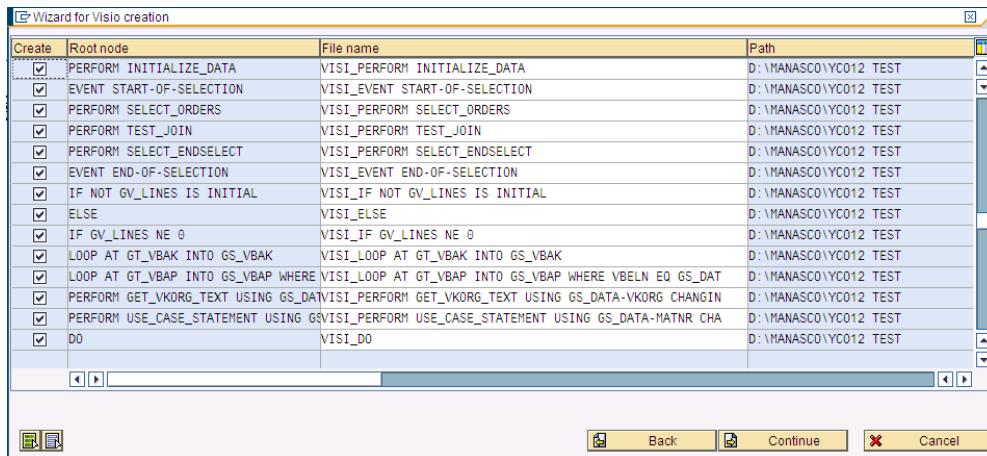
Visio Creation pushbutton highlighted in red

- Save in background will generate and save the Visio(s) in background into the folder specified in the selection screen. If it is not checked, it will also generate the Visio document but in foreground to adjust if the user likes and save it anywhere the user likes from within Visio
- Create current view object will generate a Visio document of the graphic you currently see on the screen
- Create main view object will generate the Graphic you see first after executing the GPMI
- Create all nested objects will generate Visio(s) of all graphics except the main view object and the forms
- All forms checkbox will generate a Visio for each form (/ endform)



Visio Wizard 1

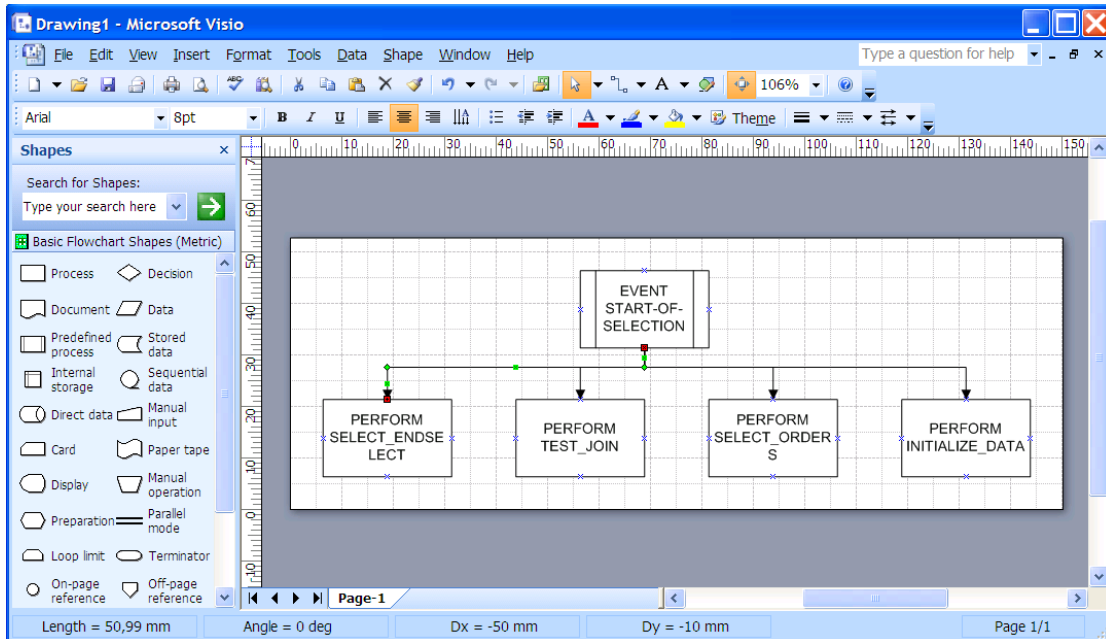
**Note that:** all combinations of these checkboxes are possible and will generate an aggregate result; however the same Visio will never be generated twice!



Visio wizard 2

The objects which are selected based on the 1<sup>st</sup> wizard screen are shown in a 2<sup>nd</sup> wizard screen and can be selected / deselected individually.

When the continue pushbutton is pressed, the Visio documents will be created for the selected entries.



Example of one particular Visio generated in foreground

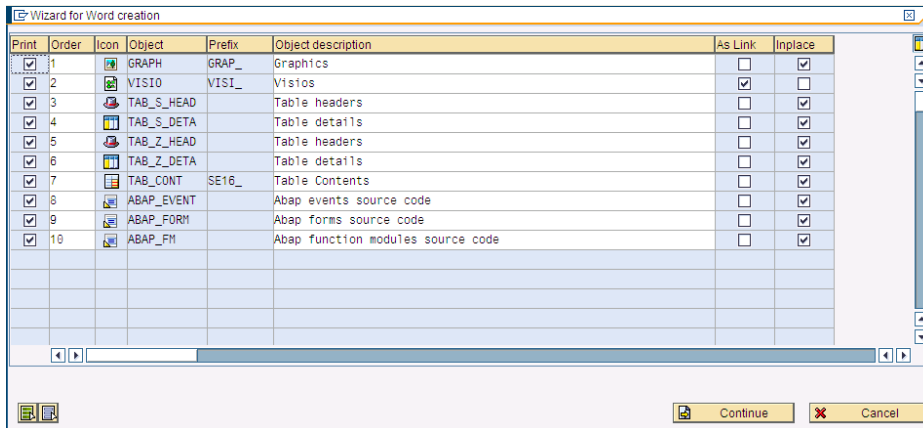
### 5.3.2 Word Documentation Creation

- Possibility to generate a Word documents of all Graphics with the Visio Creation Wizard



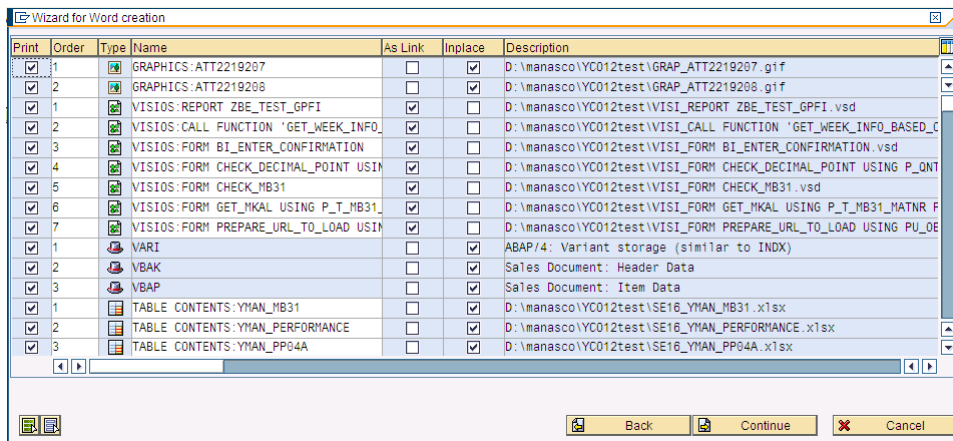
Word Documentation Creation pushbutton highlighted in red

- The Word documentation will always be generated in foreground
- Pressing the Word creation pushbutton will start the Word wizard



Word creation wizard screen 1

- The 1<sup>st</sup> wizard screen shows:
  - which possible objects can be integrated in the Word documentation (Print column)
  - in which order these objects will be integrated (Order column)
  - the icon representing the object type
  - the object name
  - the prefix of the filename for external documents to be integrated
  - the object description which will be the section header in the Word documentation
  - Checkboxes As Link (a link to the external document will be included) or Inplace (the document itself will be integrated) will set the default for the 2<sup>nd</sup> screen per object type
- The possibilities to add additional objects to be included will be explained in detail in the Customizing section of this document
- Continue will fetch all the objects to be integrated into the Word document
- These selected objects are displayed in the 2<sup>nd</sup> Word creation Visio screen



Word creation wizard screen 2

- The 2<sup>nd</sup> wizard screen shows:
  - which possible objects are selected to be integrated in the Word documentation (Print column)
  - in which order these objects will be integrated (Order column)
  - the icon representing the object type
  - the object name (title of how it will be presented in the Word Document)
  - Checkboxes As Link (a link to the external document will be included) or In place (the document itself will be integrated as in place document)
  - the object description (path\filename, table description, event name, function module name or form name dependant on the object type)
- Pressing the continue pushbutton will generate the Word Documentation
- Result screenshots of Word Documentation generated by GPMI:



Word documentation (Result)

1-GRAPHICS

1.1-GRAPHICS:ATT2219207

Transp. Table:	YMAN_MB31	Active																																
Short Description	MM13 - Price diff. Purch.Req. vs Purch.Order																																	
Attributes Delivery and Maintenance Fields Entry help/check Currency/Quantity Fields																																		
<table border="1"> <thead> <tr> <th>Field</th> <th>Key</th> <th>Initi</th> <th>Data element</th> <th>Data Ty</th> <th>Length</th> <th>Decim</th> <th>Short Description</th> </tr> </thead> <tbody> <tr> <td>MANDI</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>MANDI</td> <td>CLNT</td> <td>3</td> <td>0</td> <td>Client</td> </tr> <tr> <td>WERKS</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>WERKS_D</td> <td>CHAR</td> <td>4</td> <td>0</td> <td>Plant</td> </tr> <tr> <td>CHECK COMPONENTS</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>YMAN_COMP</td> <td>CHAR</td> <td>1</td> <td>0</td> <td>Check component quantities</td> </tr> </tbody> </table>			Field	Key	Initi	Data element	Data Ty	Length	Decim	Short Description	MANDI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDI	CLNT	3	0	Client	WERKS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WERKS_D	CHAR	4	0	Plant	CHECK COMPONENTS	<input type="checkbox"/>	<input type="checkbox"/>	YMAN_COMP	CHAR	1	0	Check component quantities
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CHECK COMPONENTS	<input type="checkbox"/>	<input type="checkbox"/>	YMAN_COMP	CHAR	1	0	Check component quantities																											

Graphics integration

1-GRAPHICS

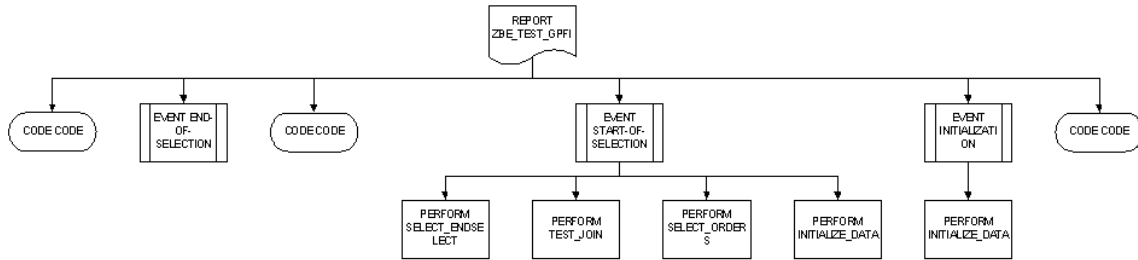
1.1-GRAPHICS:ATT2219207

Transp. Table:	YMAN_MB31	Active																																
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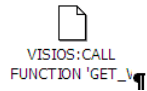
Graphics integration

2-VISIOS

2.1-VISIOS:REPORT-ZBE\_TEST\_GPMI



2.2-VISIOS:CALL-FUNCTION-'GET\_WEEK\_INFO\_BASED\_ON\_DATE'-EXPORT



Visio integration in place and as link

5-TABLE-CONTENTS

5.1-TABLE-CONTENTS:YMAN\_MB31

Cl.	Plnt	Check components quantities
700	1020	X
700	7400	X
700	8200	X

5.2-TABLE-CONTENTS:YMAN\_PERFORMANCE



Table contents integration in place and as link

## 6 Analytical module:

### 6.1 Selection screen:

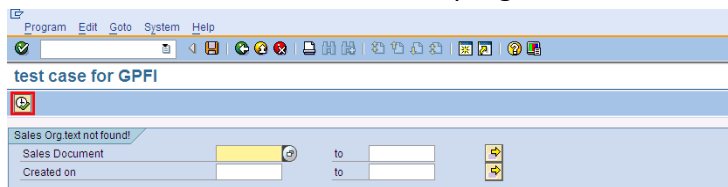
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- Measure at runtime includes runtimes in the graphic per object



Selection screen

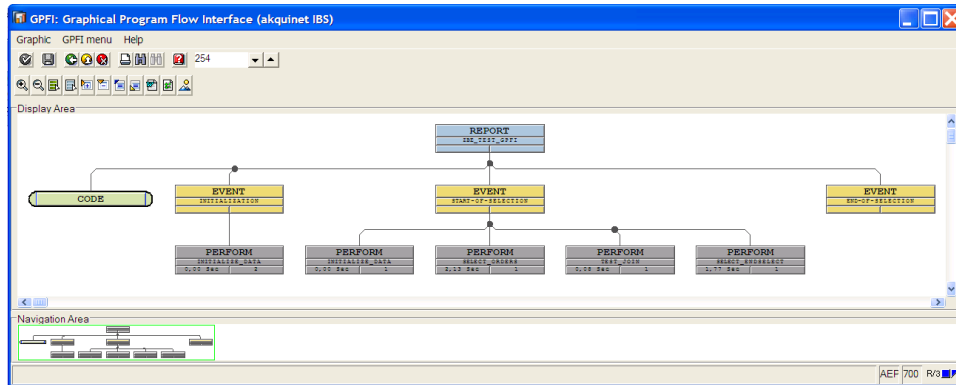
### 6.2 Result:

- The GPMI will execute the selected program; fill in the selection screen and execute



Selected program's screen

- This is the result screen: the runtime per object is indicated on the bottom left of each object and the number of times the object has been called in the program is indicated on the bottom right

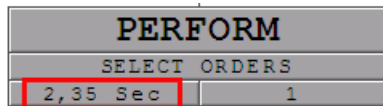


GPI Result incl. runtimes

### 6.3 Extra functionalities compared to base module:

#### 6.3.1 Runtimes measurement

- The runtime of the relevant objects are displayed on the bottom left in the graphical object



#### 6.3.2 Number of passes

- The number of times this objects has been called is displayed on the bottom right in the graphical object

