

What's New in Magic Optimizer 11

August, 2019

Magic Optimizer 11 continues with complete **360° Project Analysis** and is packed with features that help developers analyze to get complete view of all aspects of the project and are able to optimize and improve them.



Compatibility Magic Optimizer and Magic:

Magic Optimizer 11: XPA 4.5 (+ all previous versions)

Magic Optimizer 10:	+ XPA 3.3
Magic Optimizer 9:	+ XPA 3.1
Magic Optimizer 8:	Magic XPA 3.0 uniPaaS all versions eDeveloper all versions

Overview

Major upgrade is **compatibility with Magic XPA 4.5** and supporting all new features.

New migration report on what changes are needed when migrating to new **Web Client** paradigm.

A lot of improvements are not visible to the user and include improved speed of importing projects, analyzing the sources to produce accurate results at fast speed. System resources usage has been optimized to reduce memory consumption.

New features:

- **Locate in Magic studio** (mouse right click on result line) – jump to Magic studio to relevant line directly from Magic Optimizer
- **Migrate to Web Client report** (Migration menu) – detailed report on changes and effort needed for migration Client Server to Web Client paradigm
- **Java repository** (Analyze menu) – find all JAVA references in the project
- **Call tree report in Activity Profiler** (Analyze menu) – displays a hierarchy of task calls
- **Web Client Preparation – Translation Dictionary** (Migration menu) – displays a hierarchy of task calls

Enhancements:

- **Analyze/Repositories**
 - Find **Most used** and **Unused Component Items**.
- **Analyze/WorkFlow chart**
 - Notification message is shown when **1000+ calls are to be drawn**
 - **Recursive calls** and **calls to Components** are better identifiable on a chart
- **Analyze/App Explorer**
 - New items to quickly identify objects in the project

And many more minor improvements overall, including all bug fixes reported in last Magic Optimizer 10 version.

*Version 11 requires new license. It can be installed and used alongside previous versions.

New: Magic XPA 4.5 compatibility

New task type **Web Client** has been implemented and is present in all reports.

Use **mouse-right click** to open context menu and select **Locate in Magic studio**. This action will focus on opened Magic studio and find the relevant location in the project.

New: Locate in Magic studio

Now you locate the relevant location in Magic studio directly from Magic Optimizer.

Use **mouse-right click** to open context menu and select **Locate in Magic studio**. This action will focus on opened Magic studio and find the relevant location in the project.

Unused Programs : 537 Advanced sort All folders

#	Name	Public Name
4	.....
6	MD02_Control Models	MD02
7	.....
9	EN02_Event hierarchy	EN02
10	EN03_Blocking an Event	EN03
11	EN04_Setting a file name	EN04
12	EN05_Setting a data sourcename	EN05
13	EN06_Deleting a data source	EN06
14	EN07_Data in Events	EN07
15	EN08_Modification Not Allo	
16	EN09_Execute Record Suf	
17	EN10_Task Mode Change r	
18	EN11_Two Concurrent Tas	
20	EN12_Edit Field Events	
21	EN13_Multiple Line Events	
22	EN14_Table Line Events	
23	EN15_Table Screen Events	EN15
24	EN16_Click Events	EN16
25	EN17_Exit Events	EN17

Search
 Copy
 Export
 Export all
Locate in Magic studio

Locate in Magic studio will select the location in opened Magic studio:


Program Repository


#	Name	Folder	Public Name
1	Main Program		
2	.....	
3	Main Menu	Menu	Menu
4	.....	Menu	
5	MD01_Field Models	3. Models	MD01
6	MD02_Control Models	3. Models	MD02
7	.....	3. Models	
8	EN01_Some Sample Events	4. The Magic xpa Engine	EN01
9	EN02_Event hierarchy	4. The Magic xpa Engine	EN02
10	EN03_Blocking an Event	4. The Magic xpa Engine	EN03
11	EN04_Setting a file name	4. The Magic xpa Engine	EN04
12	EN05_Setting a data sourcename	4. The Magic xpa Engine	EN05
13	EN06_Deleting a data source	4. The Magic xpa Engine	EN06
14	EN07_Data in Events	4. The Magic xpa Engine	EN07
15	EN08_Modification Not Allowed	4. The Magic xpa Engine	EN08
16	EN09_Execute Record Suffix	4. The Magic xpa Engine	EN09
17	EN10_Task Mode Change not Allw	4. The Magic xpa Engine	EN10
18	EN11_Two Concurrent Tasks	4. The Magic xpa Engine	EN11


Beta version: available in Unused objects, Warnings, XReference and Repositories features.

New: Migrate to Web Client report

Online to Web Client report shows areas of the project that needs addressing for moving Online and Batch tasks to Web Client paradigm.


 Online to Rich Client


 Migrate to Magic xpa & Migration


 Online To Web Client

Search Expand all
Export Collapse all

Item

- Estimation (147 tsk of 135 prg)
- Batch calling Online (13 tsk of 12 prg)
- External calls (4 tsk of 4 prg)
- Selection program (3 tsk of 3 prg)
- Unsupported UI properties (1 tsk of 1 prg)
- Verify in Batch (7 tsk of 5 prg)

Results Settings

#	Batch task	Online task	Task type	References	End Ta
1	11 Is a Customer valid?	7 Customer look - up	Online	TP	No
2	15 Items	33 RC example task	RichClient	TP	No
3	15 Items	7 Customer look - up	Online	TP	No
4	15 Items	24 SQL - check Items	Online	TP	No
5	15.1 Items verify	18 Process Items	Online	TP	No
6	23 Check for Customers at address	23.1 Start SQL	Online	RS	No
7	23.1.1 Verify data	25 Addresses*	Online	RP	No
8	28 Print	30 Is Item Valid?	Online	TS	Yes
9	52 DMA019	35 DMA001	Online	RS	No
10	59 WFL008	4 Zoom Customers	Online	TP	No
11	64 WFL016	4 Zoom Customers	Online	TP	No
12	66 WFL017	65 Empty program	Online	TP	Yes
13	113.5 Daten anlegen intern	100 tab in table	Online	RS	Yes
14	113.5 Daten anlegen intern	124 iodevice Console	Online	TS	Yes
15	113.5.50.1 IDNR anlegen	100 tab in table	Online	RS	Yes
16	139 Batch calling O/RC	33 RC example task	RichClient	TP	Yes
17	139 Batch calling O/RC	4 Zoom Customers	Online	TP	Yes

New: JAVA repository

JAVA repository shows all occurrences of JAVA objects and references in the project.

Aliases	Models (1)	Programs (53)	Components
Task		Java variables	Java in Expressions
583 test3		vJava	
583.1 test3		vJava2	
583.1.1 test3		vJava3	
560 JV01_JCreate() JInstance()			#1 'JV01_JCreate() JInstance()'
560 JV01_JCreate() JInstance()			#2 JCreate ('myclass','()V')
560 JV01_JCreate() JInstance()			#4 JExceptionOccurred ()
560 JV01_JCreate() JInstance()			#4 JExceptionOccurred ()
560 JV01_JCreate() JInstance()			#5 JException ()
560 JV01_JCreate() JInstance()			#6 JExceptionText ('FALSE'LOG)
560 JV01_JCreate() JInstance()			#6 JExceptionText ('FALSE'LOG)
560 JV01_JCreate() JInstance()			#7 JInstanceOf(H,'myclass')
561 JV02_JCall() JException()			#1 'JV02_JCall()'
561 JV02_JCall() JException()			#2 JCreate ('myclass','()V')
561 JV02_JCall() JException()			#4 JExceptionOccurred ()
561 JV02_JCall() JException()			#4 JExceptionOccurred ()
561 JV02_JCall() JException()			#5 JException ()
561 JV02_JCall() JException()			#6 JExceptionText ('FALSE'LOG)
561 JV02_JCall() JException()			#6 JExceptionText ('FALSE'LOG)
561.1 JCall			#1 JCall (H,'add','(II)I',N,O)
561.1 JCall			#2 JCall (H,'add','(II)I',N,O)

New: Call tree in Activity profiler

Call tree displays a summarized hierarchy of task calls and details such as no of calls, average runtime of each called task and if the called task calls Online task (this means user action was required).

Log runtime
Call tree

Prev Online
Next Online
 Show Online tasks only

Task	Calls #	Average runtime (ms)	Has Online
Main Program (MO-Demo)	1	19,501	Yes
Run process ***	1	19,106	Yes
Organize Items	1	4,751	No
Count Items	2	37	No
Range items	2	4	No
Sort items	2	6,935	No
Validate records	1	220	No
Re-Select last Item	1	2	No
Range Items records by Locatio	30	2	No
Re-sort item locations	1	2	No
Sort	10	65	No
Range Items records by Locatio	50	2	No
Re-Select last Item	9	2	No
Range Items records by Locatio	30	2	No
Re-sort item locations	9	2	No
Range Items records by Locatio	240	3	No
Count locations	55	2	No
Update Items	55	2	No
Re-calculate positions	54	3	No
Locate last positions	2	2	No
Update Item status	2	3	No
Range items	4	5	No
Unlock item records	1	5	No
Validate records	30	261	No
Re-Select last Item	1	2	No
Lock last entered item	1	255	No
Range Items records by Locatio	30	2	No
Check for active status	30	9	No
Re-sort item locations	1	2	No

#	Table #	Table name	Access
1	24	ACT_Items	R,W
2	18	ACT_Item_designation	R,W
3	20	ACT_Item_status	R,W
4	21	ACT_Item_locations	R,W
5	22	ACT_Item_location_DHS	R,W

New: Web Client Preparation – Translation Dictionary

New Web Client Preparation features – Translation dictionary is able to translate the whole Project – Models, Data Sources, Programs... all project entries. Translated project is then ready for international developer team to work on the project in their local language.



Magic Optimizer

Optimize Analyze X-Reference Code view Profiler analysis Migration Documentation Localization Help

Online to Rich Client Migrate to Magic xpa Migration Online To Web Client Build Dictionary Translate Dictionary Prepare Application Google translate Load dictionary Save dictionary Clear Dictionary Delete Translations Search Expand all Export Collapse all Migration actions

Original	Translation	Model name	Model folder	Data source	Data source	Column name	Prog nam
Contact Phone	Contatto telefonico					<input checked="" type="checkbox"/>	
CounterGrid	CounterGrid						
Country code	Prefisso internazionale					<input checked="" type="checkbox"/>	
Create	Creare						
create employee	creare dipendente						
create employees	creare dipendenti						
Create resource	Crea risorsa						
create sales	creare vendite						
Current Description	Descrizione attuale						
current image+path	immagine corrente + percorso						
Current Level	Livello attuale						
current window	finestra corrente						
data query	query di dati						
data query type	tipo di query di dati						
Datagrid	datagrid						
DataGrid - DataView Binding	DataGrid - DataView Binding						
DataGrid - DataViewToNDDataTab	DataGrid - DataViewToNDDataTab						
DataGrid - From Magic DS	DataGrid - Da Magic DS						
DataGrid - OLEDB	DataGrid - OLEDB						
DataGrid - OLEDB (Invoke)	DataGrid - OLEDB (Invoke)						
DataRow	DataRow						
DataTable	Tabella dati						
Default Phone	Telefono predefinito					<input checked="" type="checkbox"/>	
Default Phone obj	Telefono predefinito obj						
Description	descrizione						
Description	Descrizione					<input checked="" type="checkbox"/>	
DevExpress Chart	Grafico DevExpress						
DevExpress ComboBox	DevExpress ComboBox		<input checked="" type="checkbox"/>				
DevExpress DateEdit	DevExpress DateEdit		<input checked="" type="checkbox"/>				
DevExpress Grid	Griglia DevExpress						
DevExpress Grid (data binding)	DevExpress Grid (associazione)						
DevExpress Grid (manual data)	DevExpress Grid (dati manuali)						
DevExpress Guage	DevExpress Guage						

Rows: 314 Translated rows: 313 Filtered rows: 0

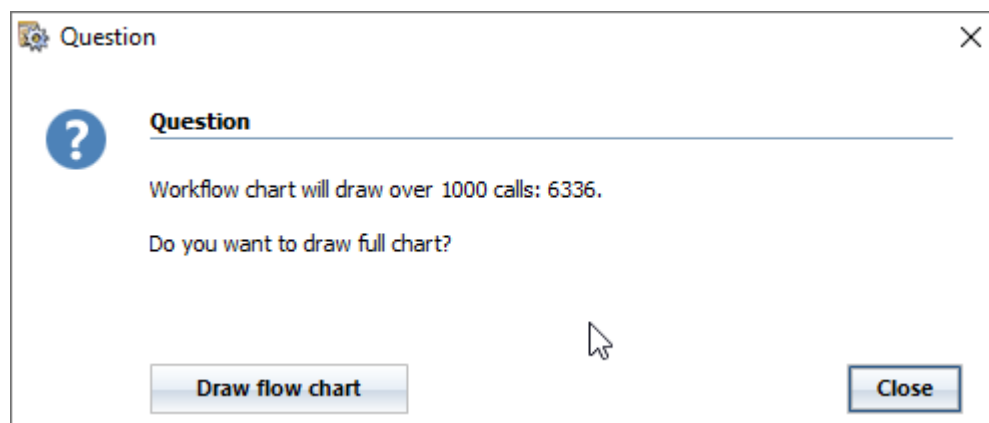
Enhancement: Analyze/Repositories

The report now shows for each Item (Models, Data Source, Program...) in Component how many times it's used in local project. This helps identifying Most used and Unused Component Items.

#	Name	Description	Type	Folder	XRef Total
1	STDCTL	STDCTL	Magic xpa		16228
	Models				9581
	Programs				7486
	Events				2
	Functions				868

Enhancement: Analyze/WorkFlow chart

Notification message is shown when 1000+ calls are to be drawn. This **prevents error in system resources** when drawing chart with 1000s of calls.



Enhancement: Analyze/App Explorer

New items to quickly identify objects in the project were added to the App Explorer view:

- **by Form types**
- **by Form units**
- **by User Event types**
- **by Functions**
- **Customer/Full Task Properties view**

List

- Parallel execution (29)
- Transactions
 - Range/Locate Window
 - SQL Where Expression (1)
 - DB SQL (4)
 - Range Expression (2)
 - Locate Expression (2)
 - Position Expression (3)
 - Forms
 - SDI
 - Child
 - Floating (7)
 - Modal (1)
 - Tool (1)
 - Fit to MDI (1)
 - MDI Child
 - Persistent Form State (47)
 - Form units
 - Dialog units (1068)
 - Centimeters
 - Inches (10)
 - Pixels (2)
 - User Events
 - Timer (1)
 - Expression (1)
 - Functions (6)
- I/O
- Operations
- Expressions
- Miscellaneous
- Form Controls
- Custom
 - Transactions details (1070)
 - Task properties - Options (1070)
 - Range/Locate window (5)
 - Data sources (376)

Results

Task types: (766) Online (302) Batch Browser Rich Client (2) Web Client

Prg #	Task	Name	Options	Modify	Create	Delete	Query	Locate	Range
3	3.1	== Create Tree	No	Yes	Yes	Yes	Yes	Yes	Yes
3	3.1.1	== Write Tree	No	Yes	Yes	Yes	Yes	Yes	Yes
3	3.1.2	== Read Tree	No	Yes	Yes	Yes	Yes	Yes	Yes
3	3.1.2.1	== Create Pgm	No	Yes	Yes	Yes	Yes	Yes	Yes
3	3.1.2.2	== Create Root	No	Yes	Yes	Yes	Yes	Yes	Yes
3	3.1.2.3	== Create Category	No	Yes	Yes	Yes	Yes	Yes	Yes
4	4	.....	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	5	MD01_Field Models	No	Yes	Yes	Yes	Yes	Yes	Yes
6	6	MD02_Control Models	No	Yes	Yes	Yes	Yes	Yes	Yes
7	7	.....	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8	8	EN01_Some Sample Events	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	9	EN02_Event hierarchy	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	9.1	Subtask	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	10	EN03_Blocking an Event	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	11	EN04_Setting a file name	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	11.1	== Print Report	No	Yes	Yes	Yes	Yes	Yes	Yes
12	12	EN05_Setting a data sourcename	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	12.1	== Create File	No	Yes	Yes	Yes	Yes	Yes	Yes
12	12.1.1	== Create Record	No	Yes	Yes	Yes	Yes	Yes	Yes
12	12.2	View File	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	13	EN06_Deleting a data source	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	13.1	== Create File	No	Yes	Yes	Yes	Yes	Yes	Yes
13	13.1.1	== Create Record	No	Yes	Yes	Yes	Yes	Yes	Yes
13	13.2	View File	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	14	EN07_Data in Events	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15	15	EN08_Modification Not Allowed	No	Yes	Yes	Yes	Yes	Yes	Yes
15	15.1	== Create Data	No	Yes	Yes	Yes	Yes	Yes	Yes
15	15.1.1	== Write Data	No	Yes	Yes	Yes	Yes	Yes	Yes
15	15.1.2	== Read Data	No	Yes	Yes	Yes	Yes	Yes	Yes
15	15.2	Display Table	No	Yes	Yes	Yes	Yes	Yes	Yes
16	16	EN09_Execute Record Suffix	No	Yes	Yes	Yes	Yes	Yes	Yes
16	16.1	== Generate Data	No	Yes	Yes	Yes	Yes	Yes	Yes
16	16.2	Display Table	No	Yes	Yes	Yes	Yes	Yes	Yes

Ocean Software Solutions is a software company, developing tools for Magic Software developers, for Magic XPA, uniPaaS and Magic eDeveloper projects.

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