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Open Exchange

MX: Mumps & eXcel Joining - But Why?

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At medium and small manufacturing enterprises, there are many technological and financial problems for the solution of which Microsoft Office is traditionally used, more precisely its more engineering part: Excel.

This is not only a tribute to tradition, excel is truly an unsurpassed tool for economic analysis and technological calculations. The number of users is in the millions. And these are only legal installations. In addition, there are analogues in the form of Free Office, Open Office and other.

Excel in many cases competes with a web browser in terms of the quality of providing the ability to display and edit information.

With the active use of excel, as data accumulates, problems gradually come to light.

Dozens of excel workbooks tied with cross-references and formulas. User collaboration requires more and more stringent regulation. Calculations on large volumes begin to slow down. The archive of excel files grows and becomes difficult to manage.

Quite naturally, the idea arises of freeing excel from functions unusual for it: storing and quickly processing large amounts of data. After all, a good database will do just fine with this. In principle, excel can of course make requests to data servers and disclose the results to a sheet. But for this it is necessary in each case to write a new program at VBA. To transfer data from excel to the server you also need to write a VBA program. This greatly complicates the situation and is not widely applied in practice.

The principle proposed in tool MX differs significantly from a simple request to database and interpretation of the answer by excel.

It implements a much deeper integration of excel with the database.

In a session, on the server a 'virtual excels' automatically deployed which is a double of the real one. It has the same sheets and data in cells as the real one. Between them interactive communication in real time is supported.

All changes to the virtual cells are immediately transferred to the real one and vice versa.

This is not connecting excel to the database, but a complete merger of the two systems into a single tool. A 'virtual excel' inside the server, as it turned out, is a good solution because it allows you to separate and independently design two functions:

- work with virtual excel cells
- synchronization of virtual and real and display to the user

The average user does not delve into the intricacies of the theory but intuitively understands that now he has under the hood not a four-cylinder subcompact engine but a powerful Rolls-Royce. At the same time, the main chips of the office are saved and the user almost does not need to relearn.

When creating MX, the question of choosing a data server was not even discussed: ultracompact m-commands are great for the role of new formulas in excel cells and are able to flip the universe in one line. The m-data structure (globals) accurately displays two-dimensional matrixes of excel sheets. (Actually, 'virtual excels' sheets are more multidimensional: you have to consider the possibility of several users working at the same sheet, to store the previous state of the cells, and a number of other factors.).

Plus space speed m-systems like CACHE-IRIS.

We got new MX technology:

- information is stored not in excel-books scattered on computers, but in a single common M- database
- when a user connected, the user's blank sheet with mx-formul s in the cells is automatically filled from M-database
- when a user is disconnected, all useful information remains on the server (you don't need to store excel files)
- connect to the server via the local network or via the Internet the large number of customers
- mx-formul s is available all information in the database, as well as other excel-files on the network and other data sources, servers and web
- everything is interactive: real excel changes and events are immediately transmitted to the server, and vice versa
- CACHE (IRIS) is quick to process large amounts of data, makes reports of unimaginable complexity and resets to the client
- except for mx-formul s in cells, other programs are usually not required, although you can call SQL or classes or m-routines from formul s

mx-formul s also:

- determine the location and properties of graphic controls on the sheet (buttons-listsimage-figures-...)
- dynamically, depending on the conditions, set the format of cells (color-background-frameimage-...)
- install mx-triggers-on-excels-events (activation-change-cell-...), and functional keys

MX-users have all the usual Microsoft Office chips, plus a convenient graphical interface and significant benefits for controlling input, collective access to data, diversity and interactivity of reporting documents. Multiple windows displayed simultaneously, it is convenient for quick switching.

Note: In principle, instead of excel, a regular browser, such as Microsoft Edge, is suitable, but in this case, the client's capabilities are limited. We develop this option to the level of practical use on mobile devices.

Now, Designers and Financiers in the enterprise can use MX as a new powerful tool for analysis and reporting.

For M-Developers: MX is easily connected to working m-systems as an additional channel, for example, as a REST application.

There is a suggestion for those who want to get out of the box - turn on - work.

Especially for tax reporting on the basis of MX, a universal replicated software package and a set of forms (several hundred) with m-formulas in cells that provide a complete accounting service cycle and the issuance of all tax reporting for small and medium-sized companies according to EU rules have been created and are being tested.

Millions of users of the MS Office are a good space for popularizing m-systems and studying m-technology.

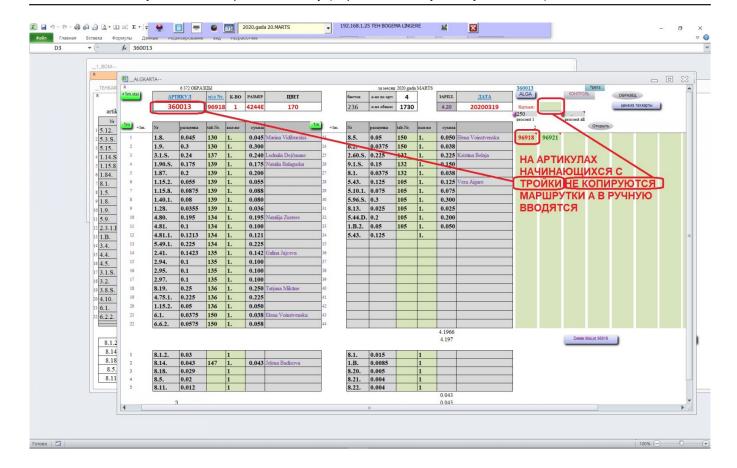
In conclusion a few pictures from practice. Unlike these pictures real sheets after deployment on the screen remain interactively connected with the 'virtual excel' on the m-server and entering data into the sheet cell is equivalent to entering into the m-database (there are reasonable restrictions, blocking, control). Many examples would not be technically possible to make in pure excel without combining it with M, and not so convenient to fill in through the web-browser.

All these tables are created 'on the fly' in virtual excel in M and to real. Nothing is stored in excel except translated 'on the fly'

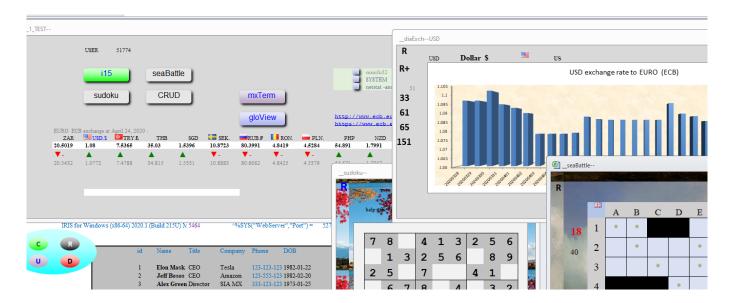
MX shows its power with huge tables and complex logic, provides a fast and convenient interface

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30.22.2020 AEA 64770 milig	9 088.22	0.00	0.00	0.00	0.00	0.00	9 088.22 243 722.37
DETRUVSKIS JÄDES • 30.22.2020 tieta sukig	32.954.74	0.00				0.00	32 954.74
DEDSKESCU MUSDIDGS SITITED	32.954.74		0.00	0.00	0.00		32 954.74
32.22.2022 V S DR.90 coding	29 964,06 29 964,06	0.00	0.000	0.00	0.00	0.00	20 964.06 20 964.06
DTX HUNDINGS SITITED + 28.22.2022 Orin: 2 sading	64 477.52 64 477.52	0.00				0.00	64 477.52
DREDA HADDES S.R.U C	820 222 36	0.00	0.005	0.001	0.00	0.00	64 477.52 820 222.36
32.22.2022 V_6 sadig	\$20 222.36 \$20 222.36	0.00	0.00	0.00	0.00	0.00	820 222.36
30.22.2020 tieta cológ	6 534.96 6 534.96	0.00	0.00	0.00	0.00	0.00	6 934.96 6 934.96
DÉKSAVS AIVARS - 30.22.2020 tiesa units	28 444.96	0.00				0.00	28 444.96
DISERS LMD - SV4000332	28 444,96	-	0.000	0.00	0.00	-	28 444.96
32.22.2023 8012024_02-ming	3 537.62	0.00	3 357 62 +3357 62	0.00	0.00	3 557.62 3 557.62	0.00
EISEDHERG SCRAP TRADIDG & 12.22.2023 S072024_2 webs	RECYCSIDG U	0.00	E20227938			0.00	22 502.85
ESTE TESSER S LMD - SV	22 502.83 22 502.83 40063284675		0.00	0.00	0.00		22 502.85
32.22.2023 \$872024_02 cm/sg	43.25 43.25	0.00	0.00	0.00	0.00	0.00	43.28 43.28
ESTE TESSER TETASURGS SSEZ 32.22.2023 S872024 02 onlig	667 307.26	0.00		656 997.26	29 320.00	667 307.26	0.00
EURU SCRAP ASLMDOCT B.V.	667 307.26 • D588679		0.000	4536997,26	-20920.00	667 307.26	0.00
32.22.2023 8072024_02-saling	2.479.84 2.479.84	0.00	0.00	0.00	0.00	0.00	2 470.84 2 470.84
FREITADIS ASVIS 30.22.2020 tiess seekg	699.67 699.67	0.00	0.00		0.00	0.00	699.67
GESEDICE STD - CY20282 12 22 2022 V_S unbig		0.00	0.800	4.00	0.00	0.00	350 792.93
BY TED SITTED + GR2260	350 792.93	0.00	0.00	0.00	0.00	0.00	350 792.93
32.22.2003 \$872004 63-onling 32.22.2003 \$872007 62-onling	342.745.22 370.695.92	0.00				0.00	242 745.22 370 695.92
KAPADIE SITITED - CY20	522.442.29	-	0.000	0.00	0.00		522 442.23
12 12 20 20 V S	994 237,50 994 237,50	0.00	0.00	0.00	0.00	0.00	994 237.50 994 237.50
KARAZEDA ISZE - 12.22.2023 5072024_02 minig	3.43	0.00				0.00	3.43
KAZTETKUT TUU •	3.43		0.800	0.000	0.00		3.43
32.22.2023 5072024_02 unbig	2.075.29	0.00	0.00	0.00	0.00	0.00	2 075.29
SAGEDINA INTE 12.22.2023 S072024 02 coding	2.09	0.00				0.00	2.03
SEPAS 89 DZÍVUKLU IPAŠDEK			0.000	0.001	0.00		2.03
32.22.2023 8872024_2	378.74 378.74	0.00	0.00	0.00	0.00	0.00	378.74 378.74
SEPÄJAS USTA ST SSEZ AS 32.22.2023 5072024_2 minig	5V499932 23 479.72 23 479.72	0.00	0.00		0.00	0.00	23 470.72
STRESSURSS UU - 11202: 32.22.2023 5072024_2 molig	573562 573562	0.00	0.000	0.001	0.00	0.00	23 470.72 973.50
	879.50 20305F449	0.00	0.00	0.00	0.00	0.00	973.50
32.22.2023 \$872004_62 cashing	22 685.94 22 685.94	0.00	0.00	0.00	0.00	0.00	22 685.94 22 685.94
TAKTETAS LMD + 32.22.2023 8072024 2 maling	29-927.22	0.00	-			0.00	20 027.22
TATČICS VSAINTIRS	29-927,22		0.00	0.00	0.00	-	20 027,22
30.22.2020 tiess selfig	396.04 396.04	0.00	0.00	0.00	0.00	0.00	596.04 596.04
TETAS GREUP UK STD • G 32.22.2023 5072024_2 mobig	90 799.62	0.00				0.00	90 799.62
TETÁSS B LMD • SV40000	90 799.62 3798397		0.00	0.00	0.00		90 799.62
30.22.2020 AEA 64773 codig 30.22.2020 AEA 64773 codig	20 592.20 20 642.50	0.00				0.00	20 592.20 20 642.50
30.22.2020 AEA 64773 until 30.22.2020 AEA 64780 until	729.96 4.928.80	0.00				0.00	729.96 4 928.80
30.22.2020 AEA 64782 uning 30.22.2020 AEA 64782 uning	20:946.27 20:622.78	0.00				0.00	20 946,27 20 622,78
30.22.2020 AEA 64782 units TENET SP. Z U.U. PSS220	29 640.59 59 082.20	0.00	0.00	0.00	0.00	0.00	20 640.59 59 082.20
TEXET SP. Z U.U. PS5220 32.22.2023 S072024_2 moleg	200.00 200.00	0.00	0.00	2.00	0.00	0.00	200.00
DURDKASKAS • II20062: 32.22.2023 \$072024 2 codeg	5230 670.50	0.00	0.00	2.00	2.00	0.00	670,50
PARÉRZS ARDIS	670.50	0.00	0.00	0.00	0.00	0.00	670.50
30.22.2020 Sesa unling	290,22 290,22	0.00	0.00	0.00	0.00	0.00	192.22 192.22
PITKIDEDS ADDREJS . 30.22.2020 tiess seeing	24 832.52	0.00				0.00	24 832.52
PUDIKS VSADITIRS •	24 832.52		0.00	0.00	0.00		24 832.52
AN AN AND ADDRESS OF THE PARTY	4 729.39 4 729.39	0.00	0.000	0.00	0.00	0.00	4 723.39 4 723.39
30.22.2020 tiesa solig		0.00					
PUSYGED SITTED + 12.22.2023 S072024 2 subig	58 029.26	0.00				0.00	58 029.26
PLSYGED SHITED . 12.23.2003 S072004 2 soding RUSAVS JÄDIS	58 029.26 58 029.26	0.00	0.80	0.00	0.00		88 029.26
PUSYGED SITTED 12:22:2023 S072024 2 onlog RUSAVS JÁDIS 30:22:2020 férse onlog	58 029.26		0.80	0.00	0.00	0.00	
PUSYGED STITTED 32 22 2023 S072024 2 staleg RUSAVS JÁDIS 90 22 2020 Sesa staleg	58 029 26 58 029 26 22 682 20 22 682 20 29 722 00	0.00	0.80		0.00		58 029.26 22 682.20 22 682.20 29 722.03
PUSYGED STITED 12 12 2001 5872004 2 code RUSAUS JADES 10 12 2000 fees code RAVA GUDBARS 10 12 2000 fees code STILISHATUYAB PROF	58 029 26 58 029 26 22 682 26 22 682 26 29 722 00 29 722 00 720698	0.00	0.00	0.00		0.00	58 029.26 21 682.20 22 682.20 29 722.03 29 722.03
PLSYCAID SHITTED 12 22 20021 5977004 2 coding RUSAANS JÄMIS 19 12 2000 6546 coding RAVA CIDDARS 20 22 2000 6646 coding SHIESTEAT UV AB PROST 30 22 2002 60080 rate coding	58 039 26 58 039 26 22 682 39 22 682 39 29 722 00 29 722 00 7208598 50 264 64	0.00	0.80		0.00	0.00	58 029.26 22 682.20 22 682.20 29 722.03
PLSYCARD SHITTED 12.22.2023 5977024 2 cashig RUSAAN JAMES 19.12.2000 6598 cashig RAVA CLIDARS 20.22.2020 6598 cashig STILISTIAN UVAB PROST 19.22.2021 60089 infaz cashig c	58 039.26 58 039.26 22 682.20 22 682.20 29 722.00 29 722.00 720006 30 204.64 2064.64 879.25	0.00	0.80	0.00	0.00	0.00	58 029.26 21 681.20 23 681.20 29 721.03 29 721.03 50 264.64 50 264.64
PISYGED SHITTED 12.22.2015 SHITZED 2 uning 12.22.2015 SHITZED 2 uning 13.22.2015 SHITZED 2 uning 13.22.2015 SHITZED 2 uning 13.22.2015 SHITZED 2 uning 13.22.2015 SHITZED 2 uning 12.22.2015 SHITZED 2 uning	58 029 26 58 029 26 22 692 29 22 692 29 29 722 00 29 722 00 29 722 00 20 264 64 20 264	0.00 0.00 0.00	0.80		0.00	0.00	58 019.16 11 681.10 12 681.10 19 711.03 19 711.03 50 164.64 50 264.64 879.25 879.25
PI-SYGED STITTED 12.0 3.00 5 817/261 2 only 12.0 3.00 5 817/261 2 only 12.0 2.00 5 817/261 2 only 12.0 2.00 5 818 only 12.0 2.00 5 818 only 13.0 2.00 5 817/261 2 only 13.0 2.00 5 81	38 029 26 38 029 26 22 692 29 22 692 29 29 722 00 29 722 00 20 722 00 30 264 64 20 645 179 23 179 25	0.00	0.80	0.00	0.00	0.00	58 029.26 21 681.20 23 681.20 29 721.03 29 721.03 50 264.64 50 264.64
PESYGED STITTED 2.22.200 597200.2 units 2.22.200 597200.2 units 9.22.200 fores 8AVA 4.6(DNARS 9.22.200 fores 9.22.200 fores 9.22.200 fores 9.22.200 fores 9.22.200 fores 9.22.200 fores 17.14.4.5.1.5.00 9.72.200 fores 17.14.4.5.1.5.00 17.14.4.5.00 17.14.4.5.00 17.14.4.5.00 17.14.4.5.00 17.14.4.5.	59 039 26 58 039 26 22 692 29 22 692 29 29 722 00 29 722 00 29 722 00 720000 39 264 64 39 264 64 206 63 879 29 879 29 222 29 225 22 219 25 22 219 25	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00	0.00	88 029.26 21 681.20 21 681.20 29 711.03 29 721.03 50 164.64 50 264.64 879.25 879.25 18 289.25 18 289.25
PENYARD SHITTED 2.22.2003 SH72002.2 unleg 2.22.2003 SH72002.2 unleg 3.22.2003 SH7200.2 unleg 8.AVA ACRIDONES 3.22.2003 SH200 3	99 039 34 34 029 24 22 682 39 22 682 39 29 712 07 29 712 07 20 702 08 97 204 54 97 204 54 10 204 54	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00	0.00 0.00 0.00 0.00 0.00	58 029.26 21 681.20 21 681.20 29 721.03 29 721.03 50 164.64 50 264.64 879.25 879.25 18 289.28 116.58 116.58
PENYGED SHITTED 2.22.200 SHIZEGE 2 uning 2.22.200 SHIZEGE 2 uning 8.40 A GEODARS 3.22.2000 SHIZEGE 2 uning 8.40 A GEODARS 3.22.2000 SHIZEGE 2 uning 7.22.2000 SHIZEGE 2 uning 1.22.2000 SHIZEGE 2 uning 1.22.2001 SHIZEGE 2 uning	19 029 28 19 029 28 19 029 28 19 029 28 19 029 28 19 029 28 19 020 29 19 12 00 29 19 12 00 29 19 12 00 19 12 02 00 19 12 02 02 02 02 02 02 02 02 02 02 02 02 02	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00	0.00	88 029.26 21 681.20 21 681.20 29 711.03 29 721.03 50 164.64 50 264.64 879.25 879.25 18 289.25 18 289.25
PENYARD SHITTED 2.22.2003 SH72002.2 unleg 2.22.2003 SH72002.2 unleg 3.22.2003 SH7200.2 unleg 8.AVA ACRIDONES 3.22.2003 SH200 3	19 029 38 19 029 38 12 009	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00	0.00 0.00 0.00 0.00 0.00	58 029.26 22 682.20 23 682.20 29 722.03 29 722.03 50 264.64 50 264.64
PENYARD SHITTED 22 22 2019 SHITZED 2 unleg 22 22 2019 SHITZED 2 unleg 23 22 2019 SHITZED 2 unleg 24 22 2019 SHITZED 2 unleg 25 22 2019 SHITZED 2 unleg 25 22 22 2019 SHITZED 2 unleg 25 22 22 22 2019 SHITZED 2 unleg 25 22 22 22 22 22 22 22 22 22 22 22 22 2	19 029 26 19 229 23 28 228 228 228 228 228 228 228 228 2	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	58 029.26 22 682.10 21 682.10 29 722.05 29 722.05 59 264.64 50 264.64 879.25 879.25 18 269.26 18 269.26 26.68 26.6
PI SVEGED STITTED 2.0 3.00 5 867/200 2 subsp. 2.0 2.00 5 867/200 2 subsp	19 029 38 19 029 38 12 009	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	88 029-26 22 684.20 23 684.20 25 722.03 25 722.03 25 722.03 25 722.03 25 722.03 25 722.03 25 722.03 25 722.03 25 722.03 25 722.03 25 722.23 25 722
PENYGED SHITTED 2.22.200 SH72002 2 unleg 2.22.200 SH72002 2 unleg 8.04.24.2000 SH72002 2 unleg 8.04.24.2000 SH72002 2 unleg 8.04.24.2000 SH72002 2 unleg 1.22.2000 SH72002 2 unleg 1.22.2001 SH72002 2 unleg 1.22.2000 SH72002 2 u	19 029 24 19 24 19 24	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	58 029.16 21 681.10 22 681.10 23 732.05 25 732.05 50 264.64 50 264.64 870.25 870.25 28 260.18 28 260
PENYGED STITTED 2.22.2003 197200.2 units 2.22.2003 197200.2 units 3.22.2003 197200.2 units 3.22.	39 029 26 19 19 19 19 19 19 19 19 19 19 19 19 19	0.00 0.00 0.00 0.00 0.00 0.00	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0,00 0,00 0,00 0,00 0,00 0,00 0,00	58 029-26 22 681-10 23 681-10 29 732-03 29 732-03 29 732-03 59 264-64 59 264-64 50 264
PI SVGAD SHITTED 72.0 300 SH7260 2 unity 72.0 300 SH7260 2 unity 84VA GERDARS 302 2000 Bers unity 85THINTALT IVAN 5THINTALT IVAN 5THINTAL 5TH	39 029 24 39 120 24 31 24 25 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000 0.000 0.000 0.000 0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	88 029-26 22 681-20 22 681-20 23 681-20 25 732-03 29 732-03 20 732-03 20 732-03 20 732-03 20 732-03 20 732-03 20 732-03 20 732-03 20 732-03 20 732



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