

Miva®  
**empresa™**  
*Virtual Machine*

Miva® **mia™**  
*Virtual Machine*

# **Miva Virtual Machine 4.02**

## **Release Notes**

Revision 1.0



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# Miva Virtual Machine 4.02

## Release Notes

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Miva Virtual Machine 4.02, released September 2002, includes the following:

### Note

Scripts that use the following functions will need to be recompiled with the Miva Script Compiler 1.02 to work properly with the Miva Virtual Machine 4.02:

- miva\_array\_elements
- miva\_array\_max
- miva\_array\_collapse
- miva\_array\_serialize

### New Features

A 3.x Commerce Library API has been built into the Miva Virtual Machine (VM). This allows previous versions of commerce libraries to be used with the VM without making any changes.

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**Note:** This overrides previous release notes where it stated 3.x commerce libraries are not compatible with the 4.x Virtual Machine.

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### Fixed Bugs

- The upgrade problem has been addressed. Beginning with this version, 4.02, users can simply install the new Miva Virtual Machine and all upgrading will occur without uninstalling and reinstalling.
- The Empresa NT/2000 installer is once again properly setting the script maps. This was working in 4.00 and was broken in 4.01.
- The Empresa NT/2000 installer is once again correctly setting the wwwroot and mivadata paths. This was also working in 4.00 but not in 4.01.
- Built-in functions should now work properly in an expression within a MvDO or a database index under all circumstances.
- The system variable, s.dyn\_time\_remaining works properly in comparison expressions.
- MvSMTP is now properly writing out a header.
- Fatal errors returned within an SMTP block no longer cause the engine to crash.
- An error will no longer be reported when doing a MvPACK immediately following MvCREATE.

- MvCALL with URLs ending in port numbers no longer causes the engine to crash.
- MvMAKEINDEX will no longer report an error of certain external functions not being found.
- On UNIX/LINUX, all SSL functions will be properly loaded from the libcrypto library.
- Filters are now checking for empty expressions.
- A bug that could cause memo data to be associated with the wrong database record has been fixed.

#### **Built-in Functions**

- The round operator now handles all precision levels.
- encodeattribute now properly encodes CRs and LFs
- miva\_getvarlist now returns all system variables.
- The crypto structure is now being cached correctly.
- rsa\_public\_decrypt, rsa\_private\_encrypt, rsa\_private\_decrypt no longer crash if there is an error in the encryption process.
- rnd now properly handles all precision levels.

#### **Commerce Libraries**

- AuthorizeNet commerce library now null terminates the final field in processing.