

# **Release Notes for MDS 3.0**

**Version 3.0.0.4**

## Notice

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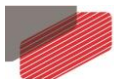
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## Revision History

Version	Date	Details
Ver. 1.000	Apr. 2016	Initial version
Ver. 1.001	May. 2016	Adding Lib version
Ver. 1.002	May. 2016	Adding Known issues



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## ***Chapter 1: General***

The following release notes detail the modifications performed in the MDS version 3.0.0.4.

These release notes indicate the changes and fixes performed since the latest GDS 2.9.1.0 release notes.

**This release is for the use of all customers.**

## ***Chapter 2: Changes from GDS 2.9.1.0***

### **Name**

The GMAS Developer Studio (GDS) name has been changed to Maestro Developer Studio (MDS) to include both the master Gold Maestro and Platinum Maestro motion controllers.

### **GUI changes**

The eclipse environment has not changed.

The splash screen was change, and now includes the Platinum Maestro together with the Gold Maestro.

The desktop Icon was changed.

GMAS replaced with Maestro in all menus.

### **Faster Installation**

The MDS installation is much faster than the GDS installation.

All MDS's components (Eclipse, Java and Cygwin) has been packaged together into a single installer.

Please note that upgrade from GDS to MDS requires removal of the GDS installation. However if you remove the GDS, the user programs will remain in the file system.



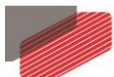
## New templates

Additional C++ templates were added to the MDS.

Template name	Description
Motor On/Off	Power On, Power Off.
Move Absolute	Power On, Move Absolute to 10000, Move Absolute to 0, Power off.
Group Move Linear	Power On, Group Enable, Move Linear Absolute to 0, Move Linear Absolute to ,10000, Move Linear Absolute to 20000, Move Linear Absolute to 0, Power Off, Group Disable.
Group Move Circular	Power On, Group Enable, SetCartesianKinematics, Move Linear Absolute to (0,0), Move Circular Absolute Radius, Move Linear Absolute to (0,1000), Power Off, Group Disable.
Group Move Circular 3D	Power On, Group Enable, SetCartesianKinematics, Move Linear Absolute to (100000,0,0), Move Circular Absolute Radius, Power Off, Group Disable.
Group Move Polynomial	Power On. - Group Enable. - SetCartesianKinematics. - Move Linear Absolute to (0,0). - Move Linear Absolute to (1000,1000). - Move Polynom Absolute and Move Linear Absolute with blended buffered mode between them. - Move Linear Absolute to (0,0). - Power Off. - Group Disable.

## Inline help

The inline help was updated with the updated Maestro Administrative API and now include the working procedure for the new features.



## ***Chapter 3: New features***

### **Support for Platinum Maestro**

The MDS maintains all the debug and run capabilities known in the GDS, and is now available for the Platinum Maestro as well as for the Gold Maestro.

It is now possible to convert Gold projects generated in GDS to Platinum projects.

The extension for executable for Gold Maestro remains gexe and for Platinum is now pexe.

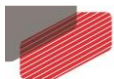
### **Dynamic Linking**

This is new feature that was added to the Maestro and is now supported in MDS. It supports using both dynamically and statically linked libraries for C/C++ projects.

If you choose to statically link the API library, the executable either includes all of the code together with the library (larger executable) or it is aligned to the library at run time.

If you choose to dynamically link the API library, only a file pointer is included in the executable and not the file contents. A dynamic linker loads external shared libraries only when you run the executable file and then adds the shared libraries to the running process.

When using dynamic linking, MDS will download the shared object library (.so) to the Maestro, if missing or the version is lower than in the computer.



## ***Chapter 4: Maestro Library***

### **New Lib version**

The Maestro Developer Studio installer sets up Maestro lib version 270.

This lib version supports the latest EMBL (Elmo motion function blocks).

## ***Chapter 5: General notes***

### **Windows XP Support**

The new MDS 3.0 version does not support Windows XP.

Microsoft has declared the end of mainstream support of Win XP in April 2009 and the end of extended support of this OS in April 2014.

It is advised for all the customers with PCs using Win XP OS installed to upgrade their OS versions.

## ***Chapter 6: Bug fix***

### **Java limitation**

For the GDS installation, it was mandatory that the current Java version installed on the PC should not be higher than Java version 6. If it was higher, the installation could not be run. This issue was fixed and now user can install any Java version preferable.

## ***Chapter 7: Known issues***

### **Compatibility issue**

Gold projects generated via GDS can be imported to MDS, but they may have problems to be debugged.

The workaround would be to create a new project and import the source files from the old project