Using the Materials Design Maintenance Program

Contents

1 Introduction

The Materials Design Maintenance program (MDMaintenance) is the single tool to install, update, modify and repair your *MedeA* installation. Depending on where MDMaintenance is started, different options are available: The installation option appears only if the Maintenance program is started on a read-only disk, drive, partition, etc. To see and use the update option, *MedeA* (or parts) to be alcreated installed. Below we provide more details on MDMaintenance started from the ISO images of the installation DVD and the installation directory.

2 Using MDMaintenance from the ISO Image

2.1 Mounting the ISO Image

In case you do not know how to mount an ISO image of a DVD, please read the Section Mounting the ISO image for more details.

2.2 Starting MDMaintenance

- On Windows, go to the mounted drive, *DVD Drive (E:)* for example, change to the folder *Windows-x86_64* and double-click on *MDMaintenance*. To start MDMaintenance with administrator rights, right-click on **MD Maintenance** $>>$ **More** $>>$ **Run as administrator**

- On Linux, change to *<mounted_ISO_dir>/Linux-x86_64* and start MDMaintenance:

```
./MDMaintenance
```

DOCUMENTATION

add *sudo* to start MDMaintenance with administrator rights.

The choices are:

- **Update an existing MedeA installation**: Updates the existing *MedeA* version from the ISO image. Read the Section Update from ISO image for more details.

- **Install MedeA Software**: Install *MedeA* on a new machine from the ISO image. Read the Section Installing MedeA on Windows and Linux from ISO for more details.

- **Prepare for Installation**: Generate license parameters in preparation for issuing a license.

- **Install in Applications Menu**: Create shortcuts on the Desktop and Applications Menu. Read the Section Creating Shortcuts for more details.

3 Using the Installed MDMaintenance Program

3.1 Starting MDMaintenance

- On Windows, go to the **Windows Start Menu** $>>$ **Materials Design**, and click on **MD Maintenance**. To start MDMaintenance with administrator rights, right-click on **MD Maintenance** $>>$ **More** $>>$ **Run as administrator**

- On Linux, go to $<$*install_dir*$>$*/Linux-x86_64* and start MDMaintenance:

```
./MDMaintenance
```

add *sudo* to start MDMaintenance with administrator rights.

Note: Start MDMaintenance with administrator rights to manage the JobServer and TaskServer services

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DOCUMENTATION

The options are:

3.2 Update from the Web

The **Update from the Web** option updates the installed *MedeA* software from the Materials Design Update Server. Note that your local firewall may block the web feature and you might have to download the installation medium (Windows Installer or ISO images) and update from there.
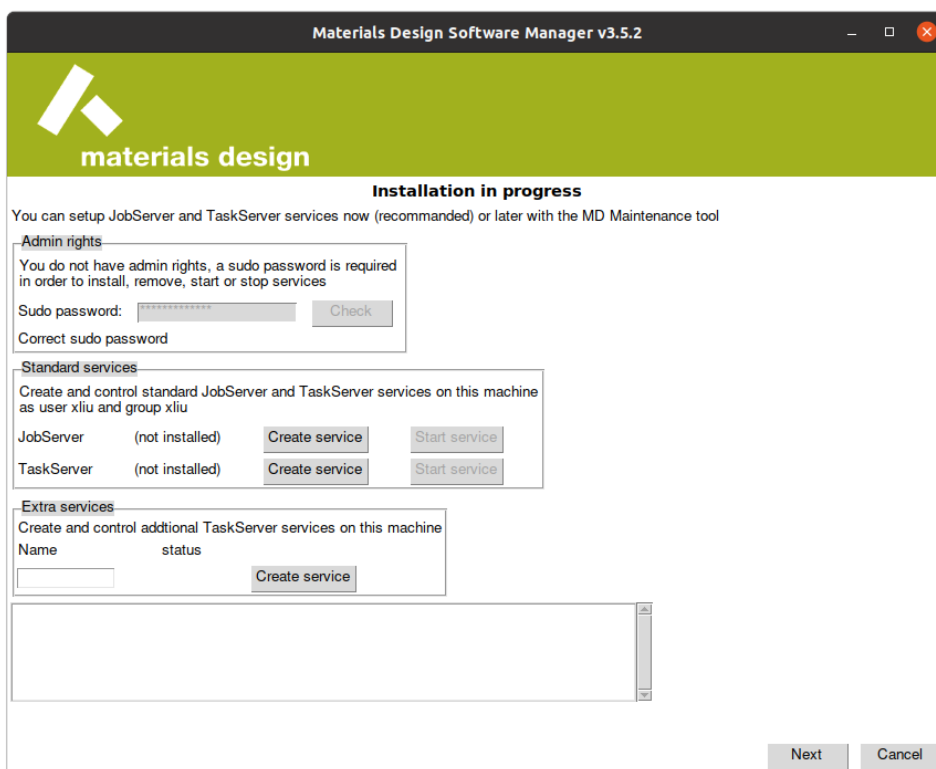
Detailed instructions can be found in the Section Update from the Materials Design Update Server.

3.3 Manage MD Services

The **Manage MD Services** option allows you to create/remove and start/stop the JobServer and TaskServer services.

> **Warning:** Administration rights are needed to use this option.

Note: Since *MedeA* 3.1 and in *MedeA* 3.6, the JobServer and the TaskServer service scripts are located in the directory `/etc/systemd/system` while in older *MedeA* versions (3.0, 2.22, etc), the service scripts are located in the directory `/etc/init.d`

The status of each JobServer and TaskServer are shown in the parentheses.

Extra services can be created and this refers to additional TaskServer and *MedeA* Queues (not queues of batch/queuing systems). Please see the Sections JobServer and TaskServer Administration and Configuration and Creating a Manual TaskServer and Queue for more details.

3.4 Import Jobs and Reconnect Jobs

The **Import Jobs** and **Reconnect Jobs** options provide interfaces to import selected job directories from disk.

Use Import Jobs for job directories from a different JobServer, but keep in mind that job numbers will change. You can also import the test jobs provided in the folder *Testjobs* which is located in the *MedeA* root installation directory.

Reconnect Jobs takes the existing Job directory (with an empty Job database *MDJobs*) and recreates the Job database keeping old job numbers. This is used for migrating from an older JobServer.

3.5 Install in Applications Menu

The Install in Applications Menu option creates shortcuts for *MedeA*, MDMaintenance, the *MedeA* documentation, JobServer, and TaskServer (if installed) in Start menu and as icons in the desktop See Section Creating Shortcuts for more details.

Hint: Desktop shortcuts and menu entries on Linux require the package *xdg-utils* to be installed.