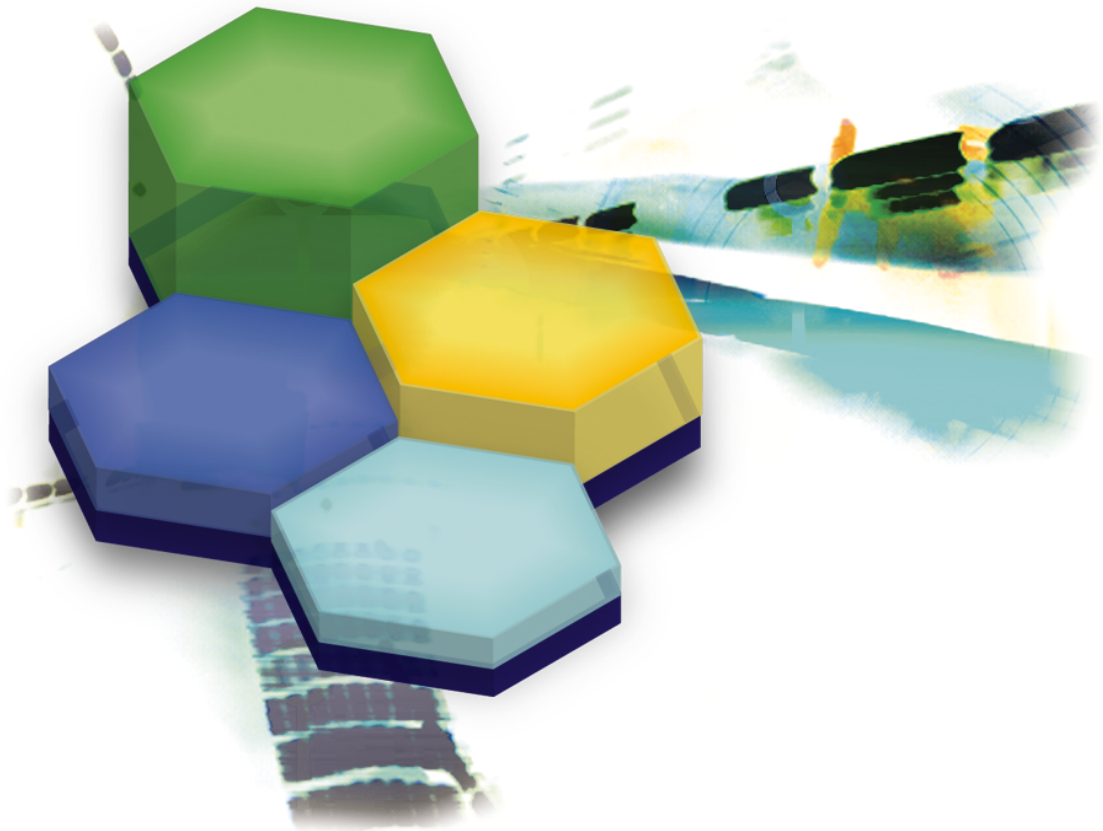




**MDM 2.0**  
**English**



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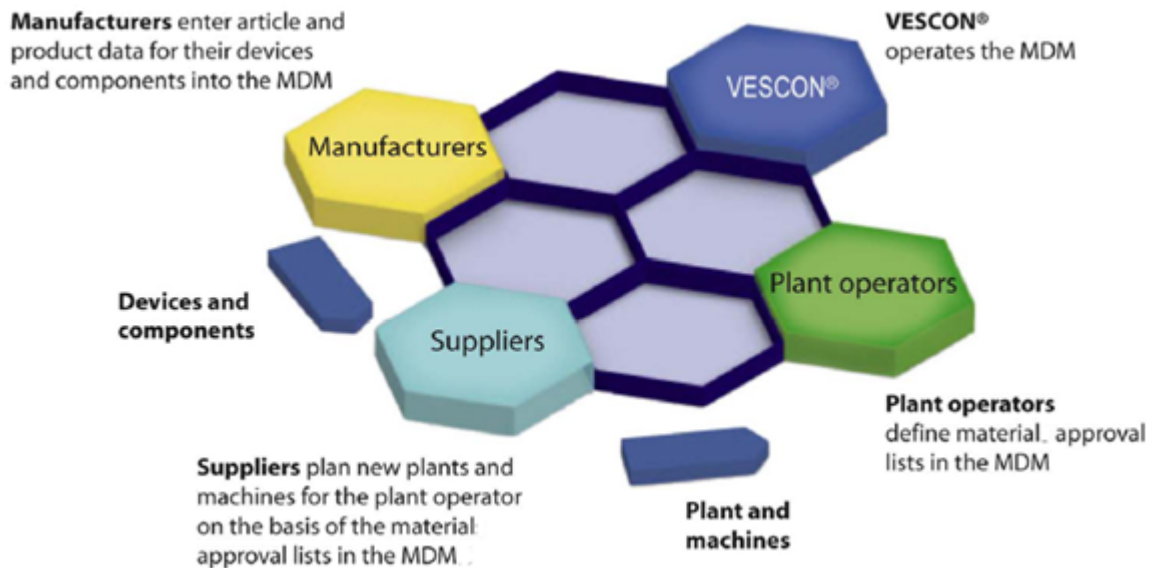


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# 1 Material Data Manager - MDM



The software solution Material Data Manager provides not only software but also device, component and system data as well as documents online to various user groups in the form of a web solution which can be accessed or downloaded.

The following groups of users employ the software solution MDM:

- Component manufacturers enter their device, component and system data including technical descriptions, order and CAD data into the MDM system.
- Plant operators use the MDM to define material approval lists for their suppliers on the basis of the device, component and system data specified by the manufacturers.
- Suppliers who construct and deliver plants, machines etc. for the plant operators have to register in the MDM system. After successful registration in the MDM the suppliers are granted access to the device, component and system data itemized in the material approval list. Via separate MDM interface programs this data can be processed further in data processing systems (CAD systems).

Item lists can be written back from the CAD systems Eplan P8 and RUPLAN into the Material Data Management system.

Device, component and system data not itemized in the material approval list in the MDM are not allowed to be used by the suppliers.

## The principle of central data storage in the Material Data Manager

The basic principle of the Material Data Manager that strictly governs all databases, functions, links and interfaces is the central storage of data for the avoidance of redundancies.

This principle of using **one** common data source for **all** users of the Material Data Manager offers the following benefits:

- Changes are immediately available.
- Data are consistent.
- almost unlimited additional information from attached documents (e.g. links, .jpg, .pdf)
- no „manual“ distribution of data and documents – no media discontinuity
- no incorrect data export
- no redundancy in material approval lists and CAD / CAE applications
- Central workflow function is implemented.

The superordinated administration by VESCON further implies for the user

- minimized administration and support effort
- central hotline

Thanks to the availability of the MDM on the internet

- inconvenient client setups are no longer required.

## 1.1 Terms of Use

### Terms of use Material Data Manager (November 2012)

#### 1. General terms of use

##### 1.1 Scope

The following conditions of use apply exclusively to the online solution "Material Data Manager". These conditions of use can be extended, modified or replaced on a case by case basis by additional conditions, e.g. for the acquisition of products and/or services. The software solution "Material Data Manager" provides software, device, component and system data and, if applicable, documents online to various user groups on demand or to be downloaded as a web solution.

The following user groups work with the solution:

- Manufacturers enter their device, component and system data with technical descriptions, ordering and CAD data into the "Material Data Manager".

- Plant operators define material approval lists with device, component and system data in the "Material Data Manager" for their suppliers. Material approval lists can be assigned to elements of the project structure.
- Suppliers that build and deliver plant, machines, etc. for the plant operators must register in the "Material Data Manager". After successful login to the "Materials Data Manager," the device, component and system data itemized in the materials approval lists are made available to the suppliers.

### **1.2 Definition device, component and system record/record**

A record in the MDM is a device or order unit with a unique order or article number and the corresponding description.

### **1.3 VESCON services**

VESCON takes on the operation, further development and support of the software "Material Data Management" solution, incl. plant operator-defined interfaces with the data processing systems and user administration.

In case of transfer of software, this is made available as a download in machine readable form. There is no requirement to publish the source text. The transferred software is not meant for disclosure to third parties or resale. VESCON has the right to assign its services to third parties.

### **1.4 Assistance and support**

VESCON ensures that the hotline is available as follows:

Monday – Thursday: 9:00 am – 5:00 pm

Friday: 9:00 am – 3:00 pm

These fixed times refer to working days in Frankenthal, Germany.

### **1.5 Disclaimer of warranty**

VESCON takes no responsibility for correctness, completeness or currency of content or the contents of the device, component and system data in the "Material Data Manager".

VESCON takes no responsibility for possible misuse of these data by third parties.

VESCON makes every effort to provide access to the website and all databases controlled by the website in timely fashion to the extent this is technically possible. However, for technical reasons, there is no claim that the services offered by VESCON are available at all times. In particular, VESCON retains the right to announce access times and modify them at short notice or to limit access to certain services or to limit or modify the offered services overall.

Liability claims against VESCON related to material or conceptual damages caused by the use, misuse or non-use of the services offered or caused by the use of erroneous and incomplete information, especially by erroneous or incomplete plant documentation and CAD data, are definitely excluded, to the extent that there is no proof of deliberate or negligent fault on the part of VESCON.

The "Material Data Manager" can contain hyperlinks to third-party websites. VESCON takes no responsibility for the contents of these websites and does not appropriate these websites and their contents, since VESCON does not control this linked information and is not responsible for the content and information to be found there. They are utilized at the user's risk.

VESCON takes appropriate security measures, in accordance with the latest state of technology, to keep the VESCON website free of viruses, worms and Trojans. Before downloading information, software and documentation, the user will make provisions for appropriate security measures and virus scanners for its own protection and in order to avoid introducing viruses onto the VESCON website.

### **1.6 Login and locking**

Use of the "Material Data Manager" requires login and registration as user. Login is only permitted for legal entities and natural persons with unrestricted legal competence. The data requested by VESCON at login must be given completely. VESCON reserves the right to verify the login data. If it should happen that login data entered are erroneous or incomplete, the user concerned can be blocked.

When logging in the user acknowledges the existing conditions for use and agrees not to enter any obscene, extremist or insulting content into the Material Data Manager, as well as content that could be chargeable for other reasons. In case of infringement as well as of intentional illegal manipulation of data, VESCON reserves the right to communicate user and connection data to the prosecuting authorities.

VESCON has the right to block access to a user who uses the system illegally and/or in contravention of the responsibilities set forth in these conditions of use.

### **1.7 Data protection**

An integral functionality of the Material Data Manager is collective access to stored data. At the request of manufacturers and operators, beginning with version 1.0, responsible persons or contact persons are assigned to materials approval lists and individual records. For this purpose, the personal data of these individuals are required. They are entered and modified in the Material Data Manager by these persons themselves, via the menu "Extras / Settings" and assigned to records by VESCON using User Administration and then made available in the Material Data Manager. These data, originating from generally accessible sources, are:

a) a statement that the individual in question belongs in this group of persons,

b) Occupation, industry or business identifier,

c) Name,

d) Title,

e) Academic degrees,

f) Address and e-mail address

and in addition:

g) phone and fax numbers

VESCON points out explicitly that all users of the Material Data Manager with automatic retrieval processes can only process or use these data to operate the Material Data Manager and the workflows integrated into it. The acquisition of a record as well as any change is logged and can also be monitored at any time on the basis of the person making changes.

If a registered user of the Material Data Manager disagrees with these regulations, vital for proper workflow and integrity of the entered data, he can communicate the disagreement to VESCON GmbH, operator of the Material Data Manager, in writing.

From the moment the notice of disagreement is received, his data are no longer logged in the device process, since access to the Materials Data Manager is reset to "Guest" status (read only).

The personal and company-specific data entered are treated with strict confidentiality by VESCON and used only in the course of evaluations such as parts lists, records used and statistics, that are also accessible to manufacturers and the plant operator.

Other users of the "Material Data Manager" and third persons and companies have no access to these personal and company-specific data. Disclosure of personal and company-specific data is also prohibited.

### **1.8 Changes in the conditions of use**

VESCON reserves the right to change the conditions of use at any time with an appropriate notice period.

If there are changes, VESCON informs all active users of the "Material Data Manager" and publishes the changes in these conditions of use at [www.materialdatenmanager.de](http://www.materialdatenmanager.de).

If the user does not agree with the change or addition, he must disagree in writing within 30 days after receipt of the communication. If the user does not disagree with the modified conditions by the deadline, the changes go into effect, as announced in the notification.

If the changes or additions are imperative for VESCON for cogent legal reasons, the obligation of notice and the user's right to disagree do not apply. Changes and additions undertaken for such cogent legal reasons do not constitute grounds for a claim for compensation against VESCON.

Users have the right to disagree with these changes within 30 days. In this case, VESCON can cancel the contract with a notice period of 30 days.

### **1.9 Final provisions / severability clause**

Exclusive competent court for all disputes resulting from the contractual relationship is Frankenthal.

The valid law is exclusively the law of the Federal Republic of Germany. This is also the case if a foreign-language version of the Material Data Manager is used with the corresponding operating manual and other documentation.

If a clause of the contract should be invalid or become invalid or should the contract be incomplete, the remaining content of the contract is not affected. The invalid clause must be replaced by a clause that legally resembles the invalid clause as closely as possible in sense and purpose. The same is true for possible gaps in the contract.

## **2. Additional conditions of use for manufacturers**

### **2.1 Object of use**

With the Material Data Manager, VESCON provides manufacturers with a software solution in which manufacturers, plant operators and suppliers can define device, component and system data. These data are available in the data processing system for plant operators to define material approval lists and for their suppliers for planning and ordering purposes.

### **2.2 Obligation to cooperate**

Manufacturers enter their device, component and system data with technical descriptions, as well as ordering and CAD data into the "Material Data Manager".

### **2.3 Utilization costs and accounting**

Extended use of the Material Data Manager by manufacturers is subject to a charge.

## **3. Additional conditions of use for plant operators**

### **3.1 Object of use**



With the Material Data Manager, VESCON provides manufacturers with a software solution in which manufacturers, plant operators and suppliers can define device, component and system data. These data are available in the data processing system for plant operators to define material approval lists and for their suppliers for planning and ordering purposes. The prerequisite for setting up new records and modification of existing records for a manufacturer is the existence of a contractual relationship between VESCON and this manufacturer.

### **3.2 Obligation to cooperate**

Plant operators define materials approval lists with device, component and system data in the "Material Data Manager" and make these available to their suppliers in the data processing system.

New device, component and system records for a materials approval list must be promptly published by the plant operator after successful proofing.

### **3.3 Utilization costs and accounting**

Use of the Material Data Manager by a plant operator requires a separate contractual relationship with VESCON.

## **4. Additional conditions of use for suppliers**

### **4.1 Object of use**

With the Material Data Manager, VESCON provides manufacturers with a software solution in which manufacturers, plant operators and suppliers can define device, component and system data. After login to "Material Data Manager," suppliers can use the device, component and system data posted for them by the plant operator.

Disclosure to third parties of the data in the "Material Data Manager" is prohibited.

### **4.2 Obligation to cooperate**

If a supplier determines that a record in the "Material Data Manager" is erroneous or incomplete, this record should be corrected by the supplier or reported to VESCON or the manufacturer. If a record required for the planning process is missing, it can be requested by the workflow "request for new device". This requested devices has the state "temporary". The recipient can set the state of the device to "active" or can delete it.

Records from manufacturers with no contractual relationship with VESCON are excluded.

### **4.3 Utilization costs and accounting**



Use by the supplier of the basic module in the Material Data Manager and the device, article and material data published by the plant operator in the "Material Data Manager" is free of charge.

This free utilization includes defined and published interfaces to the CAD systems and depends on the separate terms of use by the CAD systems manufacturers.

## 1.2 Legal Notice / Company Details

All brand names and product names mentioned in this online help are copyrighted and subject to the rights of the respective manufacturing companies, even if these are not explicitly named or indicated. Brand names and product names merely serve the purpose of illustrating or supporting the understanding of products.

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### **Liability for links:**

The following disclaimer applies for the website at this domain:

In the court decision of May 12, 1998 „Liability for links“ (312 O 85/98) the Hamburg Regional Court unequivocally states that the one who inserts a link automatically shares responsibility for the

contents of the linked page and may thus be made liable; this can only be evaded by explicitly dissociating oneself from the contents of the linked pages.

VESCON GmbH herewith explicitly dissociates itself from the complete contents of all linked pages at [www.vescon.com](http://www.vescon.com) and [www.materialdatenmanager.de](http://www.materialdatenmanager.de) and indicates that it has neither influence on the form and contents of the linked pages nor appropriates their contents.

## 1.3 What's New

Updates which include only bugfixing but no new features or performances are not scheduled here.

### **Version 2.1.012.x 08/2017**

- Betreiberspezifische Felder für Bauteilehersteller
- In Universal freigaben können jetzt auch Dokumente hinzugefügt werden
- Löschen einer Universal freigabe, welche als Referenzdatensatz verwendet wurde, löscht auch alle Zieldatensätze

### **Version 2.1.011.x 07/2017**

- Performanceoptimierungen Prüfung auf doppelte Bauteile, Stücklistenimport, Suchen nach Bauteilen)

### **Version 2.1.010.x 07/2017**

- Performanceoptimierungen (Speichern Bauteile, Bauteilecache)

### **Version 2.1.009.x 07/2017**

- Maximale PDF-Stromlaufplan Upload auf 100MB erhöht

### **Version 2.1.008.x 05/2017**

- Performance optimization in structure
- Release Eplan Interface for Eplan 2.6
- Filter in structure nodes without \* like same way than devices grid

### **Version 2.1.007.x 02/2017**

- Improvement of usability in the dialogue for structure element selection
- First performance optimization in bigger device lists and structure

**Version 2.1.006.x 01/2017**

- Tasks "additional recipients" have the same rights as "standard recipients"
- Sorting of the column "Position" in parts list is numeric if possible
- Column settings improved

**Version 2.1.005.x 12/2016**

- Tasks: when adding or removing recipients it is possible to attach remarks

**Version 2.1.004.x 11/2016**

- Task list: removing himself by mass data processing
- Excel parts list template: all fields formatted as text fields

**Version 2.1.003.x 11/2016**

- Tasks: adding of additional users also possible in the task list
- Editing the tasks "New device" - function "record / task history"
- Quality check tasks were not correctly generated - only if "manufacturer" and / or "order number" were changed

**Version 2.1.002.x 11/2016**

- Tasks: marked as read / unread
- New task "Inquiry task"
- Adding or removing of additional recipients in tasks
- Removing of himself as recipient in a task
- Eskalation management in tasks: access by filtering structure elements
- Performance optimization: device lists, device detail view, task detail view
- Task status "finished" cancelled

**Version 2.1.001.x 10/2016**

- Changed workflow for request for "New device"
- New function in tasks "Send back to sender"
- During mass data processing in tasks comments can be entered in the protocol

**Version 2.0.103.x 09/2016**

- Universal approvals: checking against parts list entries and catalogue data
- New field in record data: "Manufacturer supplement""
- Logbook: displaying of all entries concerning myself"
- New property: "Multiplier for parts lists"

**Version 2.0.102.x 09/2016**

- Saving of extended filter settings

**Version 2.0.101.x 09/2016**

- Modifications of universal approval devices
- MFL history also displays universal approvals
- History of special approvals on project level
- "Extended filter" settings for all tables
- Automatically tracking for universal approvals
- New column "Device status at order date" in parts lists

**Version 2.0.98.x 08/2016**

- EPLAN P8 interface 1 support is abandoned
- Not approved components are displayed generally italicized
- Universal Approvals: "Technical Description" is eliminated from the masked block
- Universal Approvals: Input of special characters in the mask is permitted but will be ignored during check
- Refined "assignment informations" and und "result part list check" during parts list check
- Additional information in parts liste (e.g. : sum different devices, sum of unknown manufacturers, etc.)
- New columns for partslist import and consolidated manufacturer and article number

**Version 2.0.94.x 10/2015**

- Catalogue articles: separate field definitions

**Version 2.0.92.x 10/2015**

- Catalogue articles for manufacturers (when creating a new device it is checked if corresponding catalogue articles exist. If it is so, these data will be taken over to the MDM)
- Favourites in structure elements
- Data export (XML and Excel) from quick administration

### **Version 2.0.90.x 07/2015**

- Navigation in structure elements shows the assigned projects and MFL
- Id for universal approvals
- Request for "New device" and "Project approval" checks if the device is already approved in an universal approval in the concerning structure element

### **Version 2.0.88.x 07/2015**

- New EXCEL template for parts lists import (with parameter sheet)
- Advice mail after parts lists import contains a link for creating a parts lists advice task to the node manager
- Enhanced systematic for searching components by manufacturer, order number and article type (mapping in EPLAN interface 2 and searching the MDM Id on parts lists import)
- MDM mails will be send in the receivers language
- Report "parts lists entries" now with information about parts lists type (EPLAN, EXCEL, RUPLAN) and electric, fluidic, mechanic
- In the quick administration the complete path of the structure element is displayed

### **Version 2.0.87.x 06/2015**

- Immediate approval check during parts list import
- Notification mail after parts lists import by EXCEL, RUPLAN and EPLAN with enhanced information
- During parts list import the number and Mdm-Id of devices is checked separately
- Display of approval information directly in the parts list chart
- In order to display the parts lists entries a separat button must be clicked
- EPLAN interface 2: labels in dialogues are optimized
- Report "state of parts lists" the number of approvals is displayed

### **Version 2.0.85.x 06/2015**

- Report "parts lists entries": XML export by server now with more than 200,000 records

- Limitation of data quantity: Excel export up to 100,000 records, display in dialogues up to 200,000 records
- New separator in structure view: <blank>|<blank> "

#### **Version 2.0.84.x 05/2015**

- New reports "parts lists entries" and "number of parts lists"
- New report "state of parts lists"
- New property "name" for devices and device groups
- Universal approval: searching also in "name" and "technical description"

#### **Version 2.0.81.x 04/2015**

- Excel import: modification of data fields which are not blank is possible (for selected manufacturers)
- Multiple selection in the dialogue "select structure element" concerning "structure view / assigned MFL's" and also in the requests "MFL approval" and "project approval"

#### **Version 2.0.80.x 03/2015**

- EPLAN interface 2: enhanced automatic mapping of manufacturers long- and shortname. Writing back of MDM data is configurable. Variants of manufacturer notations are parametrable in EPLAN

#### **Version 2.0.78.x 01/2015**

- New data fields "order number of supplier" and "quantity unit" for parts list import

#### **Version 2.0.75.x 12/2014**

- Device groups.

#### **Version 2.0.73.x 11/2014**

- EPLAN 2.4 64 bit interface

#### **Version 2.0.66.x 09/2014**

- New features in module universal approval: for example Regex
- New properties at partslists: position and standard

**• Version 2.0.62.x 09/2014**

- Module: Universal approval
- New device status "erroneous"
- Ignore special characters at manufacturer variants
- OEM can define OEM device properties
- New EPLAN P8 interface (interface 2)
- New "Quick Filter" to filter kind and status of dataset

**Version 2.0.60.x 07/2014**

- Now you can use clipboard also in the result lists of the reports
- XML-Export from device lists
- You can save device lists as partslist import format
- Checking of partslist wor continuous at the server
- Partslists view: Two kinds of view are possible -order list and partslist
- Reports "Approved devices" at MFL`s now works with MFL and special approval
- Move documents from one to another manufacturer
- Excel export: Automatic correction of not allowed characters
- Excel import of partslists now works also with column heads without (import)

**• Version 2.0.58.x 05/2014**

- Module Cart

**Version 2.0.54.x 05/2014**

- Check during the update process, if writing permission on the MDM directory exists
- Parts lists: the "Last Id assignment on" and the "Last Id assignment from" is displayed

**Version 2.0.53.x 04/2014**

- MDM info flyer: from time to time MDM users will be informed about news and new features in the MDM
- Mass data processing - "clear up": new feature "delete more than 3 blanks in a row"
- Most of dialogues are now "not modal"
- New mandatory fields in the request "new manufacturer"
- View "All devices" / "Search": if only locked records are found they will be displayed automatically



- Dialogue "Select structure node": only those structure elements are displayed the user has rights on

**Version 2.0.47.x 03/2014**

- Performance enhancement while requesting large device lists from the server (local device cache)

**Version 2.0.44.x 02/2014**

- Improvement of parts list import
- MultiSelect in dialog "Column settings" (columns visible / invisible)
- Grouping in tables - the number of elements is displayed in the group header
- Mass data processing: the name of the selected column is displayed in the status bar of the dialogue
- Request for a new device: it is not possible to make an application for duplicated devices (data records of the same manufacturer with identical order numbers)
- 

**Version 2.0.41.x 01/2014**

- Circuit diagrams for parts lists: limitation of file size enlarged from 5 to 30 MB
- The (global) search of components is relocated in the component view
- Mass data processing: additional columns, new function "Delete value" under the function "Set value"
- Complete chapter numbers in the navigation

**Version 2.0.38.x 12/2013**

- Scrolling in the detail view of components
- Adding of documents in the request for new devices
- New fields in components: "Performance level" and "List price"
- New typ of structure elements: "Subsystem"
- New report for components: "Document/URL check"
- New statistic request "Request for new devices"
- Additional filter for structure element in several reports
- Forwarding of token by a task
- RTF export from MFL structure
- Checkbox "Special approval" is separated in "Request new device allowed" and "Request device approval allowed"

**• Version 2.0.37.x 11/2013**

- Multilingual entries in the detail view of structural elements
- In a task window structural elements can be marked and via the context menu the standard functions "detail view", "contact person" and "navigate to" are available
- "Temporary" parts can be edited by the creator
- It is possible to attach circuit diagrams (PDF) to the parts lists
- New fields (+, =, -, E/V) in parts list relevant for Excel import
- Partial Excel import is an independent view (no more a modal dialog box)
- By the keystroke combination <Ctrl> + <Alt> + <C> the marked entry of a table can be copied into the clipboard (in case of multilingual entries the displayed text is copied)

**Version 2.0.36.x 09/2013**

- Excel Partslists Import is done on the server, user will receive a notification via email after import

**Version 2.0.35.x 08/2013**

- Progress bar during mass data processing

**Version 2.0.27.x 06/2013**

- View "parts lists": multiple selection of parts lists makes the addition of devices more flexible.
- Context menu in structure view, navigation and structure elements in the task view.
- Detail view for structure elements.
- Additional features in the detail view of devices.
- Task view: additional to "Forward" (to structure element) it is possible to forward to "More recipients".
- Detail view for logbook entries.
- Drag & Drop of devices into the task view.

**Version 2.0.25.x 05/2013**

- View "parts lists / devices": workflow "new devices" can be started directly from here.
- Context menus in grid views.
- Functions Copy & Paste and Drag & Drop available in the views "parts lists", "stored statuses" and "parts lists comparison".

**Version 2.0.22.x 04/2013**

- Interrupted connection to the MDM-Server: if the connection between client and server goes down a corresponding error message is displayed.

**Version 2.0.16.x 03/2013**

- Revision of workflow and task view.

**Version 2.0.14.x 03/2013**

- Launching the MDM it is checked, if there are tasks or requests with the status "in progress" - if true, the view "Tasks" is displayed first and not the structure view.

**Version 2.0.9.x 03/2013**

- Mass data processing for tasks is only possible if the type of selected tasks is identical.
- Structural elements can be deleted even if devices are assigned.
- In structural elements "Equipment" the control box "Special approval allowed" is always marked - this setting can not be changed.
- New feature in the attributes of MFLs and Projects: "CAD assignment allowed".

**Version 2.0.8.x 03/2013**

- "Navigation View" now also shows the partslists in which the device was used
- New Reports: "No links to chapters" and "No approvals"
- Personal Grid settings in the structure view for chapters, MFL and projects
- Devices with the status "temporary" can not be assigned to chapters or approved in MFL and projects
- Performance enhancement: expanding of elements in the structure view.

**Version 2.0.5.x 02/2013**

- Cutting, copying and pasting via keys, icons or drag & drop available for devices and structural elements.

**Version 2.0.3.x 01/2013**

- Bugfixing.
- Revision of online help.

### **Version 2.0.2.x 01/2013**

- Definition of successor: If a successor for a component with MFL approvals is defined, requests for MFL approval can automatically be made for the successor.
- Request for a new manufacturer: additional fields.
- While creating or duplicating a new component editing of documents is immediately possible.

### **Version 2.0.1.x 01/2013**

- Feature "Go to MDM Id" is available in all device views.
- Mandatory fields and fields with defined entries are marked universally.
- After a MDM update no password entry is requested repeatedly (available with the next update).
- New address fields for manufacturers are available.
- In the CAD assignment mask a direct access to the device detail view is possible.

## **1.4 Online Help as PDF**

Via this [Link](#) you may obtain the online help as a pdf document.

Most browsers allow storing the pdf document as a file via "right mouse button / save as" .

Please mind that this pdf is not necessarily up to date.

## **1.5 Hotline**

### **Hotline - assistance and support**

You can contact us via:

Phone: +49 6233 6000 999  
Mail: [mdm@vescon.com](mailto:mdm@vescon.com)

Our Hotline is available at working days (Frankenthal, Germany (MEZ)) as following:

Monday – Thursday: 9:00 am – 5:00 pm  
Friday: 9:00 am – 3:00 pm

## **2 Structure view**

In the structure view the main structural elements Chapter, Material approval lists and Projects are represented below the operator with their subordinated structural elements.

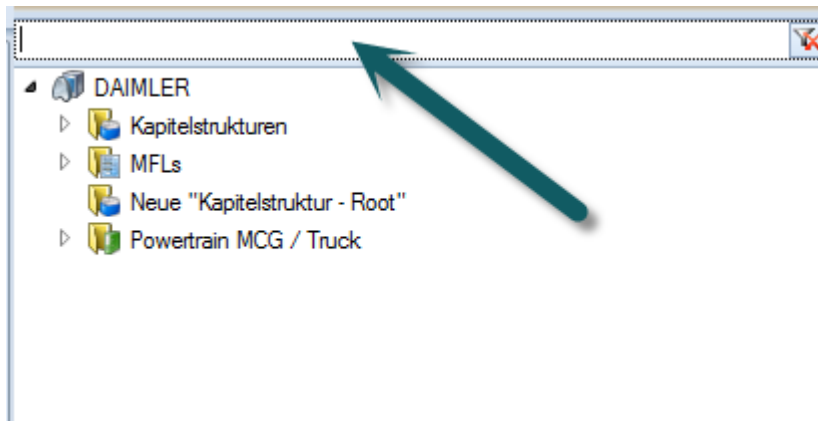
The following element types can be used in the respective structure:

Chapter structure	MFL structure	Project structure
Root – chapter structure	Root - MFL	Root – project structure
Chapter structure	Directory	Directory
Chapter	Plant	Plant
	MFL	Project
		Order
		Equipment No. (==)
		Subsystem

**Search for structural elements:**

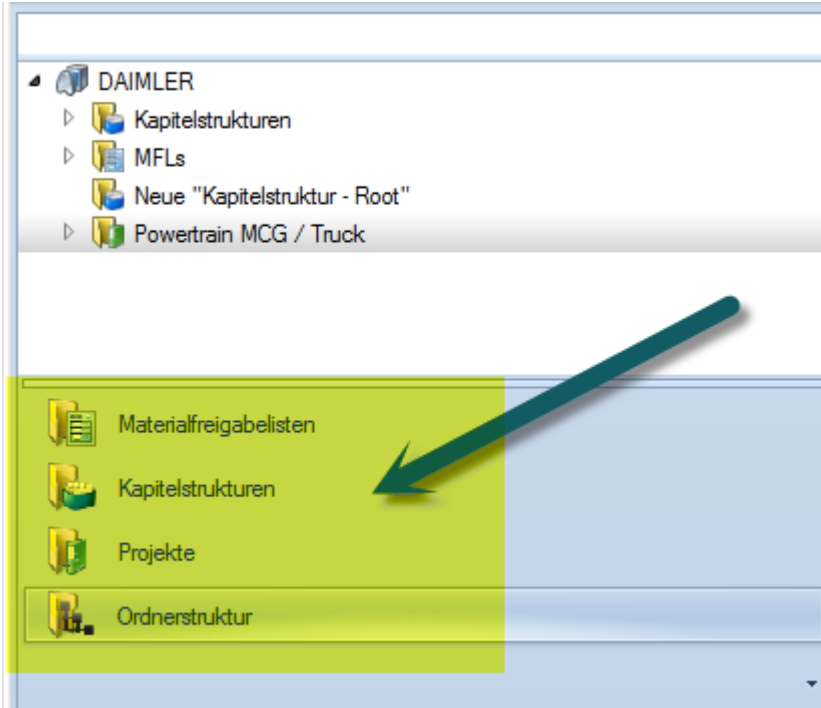
In the input field directly above the project structure a search item or a part of a search item can be entered beginning and ending with the special character \*; the search is not case sensitive.

Example: the entry \*OR\* would find "Worms" and "Gleisdorf".



**Structural elements – type selection:**

If nothing but "Material approval lists", "Chapter structures" or "Projects" are supposed to be displayed, the selection button in the lower part of the structure tree has to be activated. Via "Folder structure" all elements of the structure tree will be displayed.



## 2.1 Attributes

The structural elements can be described by the following attributes:

- **Name:**

Name of the structure element as represented in the project tree. By a click on the button “Name” various translations can be entered.

- **Long text:**

Any explanatory text. Via a click on the button “Long text” various translations can be entered.

- **Globally visible: Yes / No**

If a structural element is set to “globally visible”, the tab “Attributes” will be visible to all users displaying the information

- Name
- Long text
- Responsible operators.

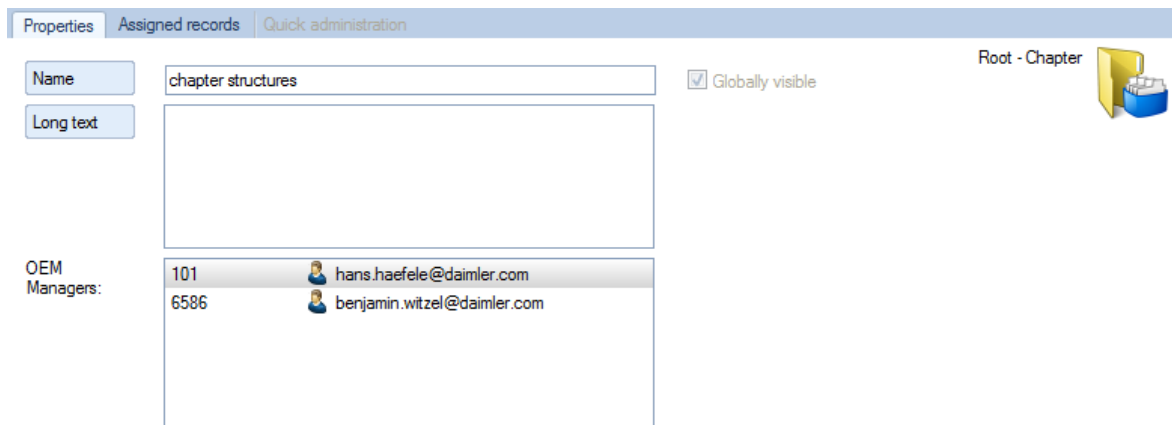
Structure elements not set to “globally visible” will not be visible to users without the respective authorization.

- **OEM Managers:**

In the field “OEM Managers” the OEM Managers are listed. By a double click on the mail address

the window with the contact details is opened.

An allocation is carried out via the register “Quick administration”.





Properties Assigned records Quick administration

Name: chapter structures  Globally visible Root - Chapter

Long text: [Empty text area]

OEM Managers:

101	 hans.haeefe@daimler.com
6586	 benjamin.witzel@daimler.com

### Structure element properties

## 2.2 OEM

The OEM is a superior structure element.

Beneath this superior structure element the corresponding structure elements chapters, MFLs and projects are assigned.

The OEM can be changed by the ribbon <File><Administration><Change OEM>.

### 2.2.1 Attributes (OEM)

The structural element OEM can be described by the following attributes:

- **Name:**

Name of the OEM. By a click on the button “Name” various translations can be entered.

- **Long text:**

Any explanatory text. Via a click on the button “Long text” various translations can be entered.

- **Globally visible: Yes / No**

If a structural element is set to “globally visible”, the tab “Attributes” will be visible to all users displaying the information



- Name
- Long text
- Responsible operators.

Structural elements not set to “globally visible” will not be visible to users without the respective authorization.

• **Responsible operators:**

In the field “Responsible operators” the operator users responsible for the respective structural element are listed. By a double click on the mail address the window with the contact details is opened.

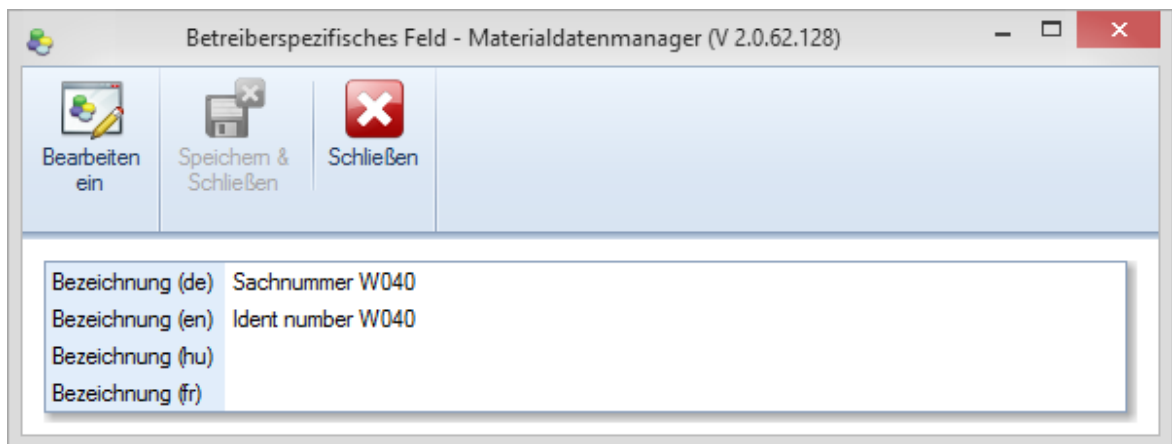
An allocation is carried out via the register “Quick administration”.

### 2.2.2 Betreiberspezifische Felder für Bauteile

Hier kann der Betreiber seine einem Bauteil zugehörigen Felder definieren. Normalerweise werden hier die Sachnummern / Lagernummern der einzelnen Bereiche definiert. Der Inhalt dieser Felder kann in die CAD Stückliste übernommen werden.

	Eigenschaften	Betreiberspezifische Felder	Schnelladministration	Bezeichnung (en)	Bezeichnung (fr)	Bezeichnung (hu)
MDM	Bezeichnung (de)					
BMW						
DAMMLER						
BOF - Beltek	Sachnummer	SRM-Ident number		Ident number W050		
Kapitelstrukturen	Sachnummer W054			Ident number W054		
Materialfreigabelisten ...	Sachnummer W060			Ident number W060		
Materialfreigabelisten ...	Sachnummer W067			Ident number W067		
MFL - Entwurf Truck	Sachnummer W175			Ident number W175		
Projektstruktur	Sachnummer W010			Ident number W010		
YESCON	Sachnummer W020			Ident number W020		
ZF Lenksysteme	Sachnummer W040			Ident number W040		
	Sachnummer W037			Ident number W037		
	Sachnummer W065			Ident number W065		
	Sachnummer W069			Ident number W069		
	Sachnummer W068			Ident number W068		
	Sachnummer W371			Ident number W371		
	Sachnummer W117			Ident number W117		
	Sachnummer W030			Ident number W030		
	Sachnummer W034			Ident number W034		
	Sachnummer W138			Ident number W138		
	Sachnummer W054			Ident number W054		abc
	Sachnummer W054			Ident number W054	def	abc

Betreiberspezifische\_Felder\_1



Betreiberspezifische\_Felder\_2



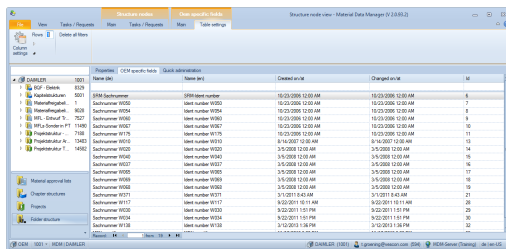
## 2.2.3 Betreiberspezifische Felder für Bauteilehersteller

Hier kann der Betreiber seine dem Bauteilehersteller zugehörigen Felder definieren. Dies könnte beispielhaft eine eigene Lieferantenummer sein.

Die Felder können dann in der Ansicht "Bauteilehersteller ink. zugehöriger Daten" im Tab "Betreiberspezifische Felder" bearbeitet werden.

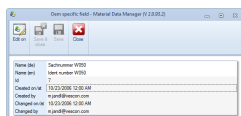
## 2.2.4 OEM specific fields

Here the OEM can define ident numbers or SRM ident numbers for devices. The entries of these fields can be copied by the CAD interfaces.



Name (de)	Name (en)	Created on	Changed on	ID
1   Root				1
1   Bauteilehersteller				2
1   Bauteilehersteller - 001	SRM Bauteilnummer	15-03-2008 12:30 AM	15-03-2008 12:30 AM	3
1   Bauteilehersteller - 002	Sachnummer W000	15-03-2008 12:30 AM	15-03-2008 12:30 AM	4
1   Bauteilehersteller - 003	Sachnummer W001	15-03-2008 12:30 AM	15-03-2008 12:30 AM	5
1   Bauteilehersteller - 004	Sachnummer W002	15-03-2008 12:30 AM	15-03-2008 12:30 AM	6
1   Bauteilehersteller - 005	Sachnummer W003	15-03-2008 12:30 AM	15-03-2008 12:30 AM	7
1   Bauteilehersteller - 006	Sachnummer W004	15-03-2008 12:30 AM	15-03-2008 12:30 AM	8
1   Bauteilehersteller - 007	Sachnummer W005	15-03-2008 12:30 AM	15-03-2008 12:30 AM	9
1   Bauteilehersteller - 008	Sachnummer W006	15-03-2008 12:30 AM	15-03-2008 12:30 AM	10
1   Bauteilehersteller - 009	Sachnummer W007	15-03-2008 12:30 AM	15-03-2008 12:30 AM	11
1   Bauteilehersteller - 010	Sachnummer W008	15-03-2008 12:30 AM	15-03-2008 12:30 AM	12
1   Bauteilehersteller - 011	Sachnummer W009	15-03-2008 12:30 AM	15-03-2008 12:30 AM	13
1   Bauteilehersteller - 012	Sachnummer W010	15-03-2008 12:30 AM	15-03-2008 12:30 AM	14
1   Bauteilehersteller - 013	Sachnummer W011	15-03-2008 12:30 AM	15-03-2008 12:30 AM	15
1   Bauteilehersteller - 014	Sachnummer W012	15-03-2008 12:30 AM	15-03-2008 12:30 AM	16
1   Bauteilehersteller - 015	Sachnummer W013	15-03-2008 12:30 AM	15-03-2008 12:30 AM	17
1   Bauteilehersteller - 016	Sachnummer W014	15-03-2008 12:30 AM	15-03-2008 12:30 AM	18
1   Bauteilehersteller - 017	Sachnummer W015	15-03-2008 12:30 AM	15-03-2008 12:30 AM	19
1   Bauteilehersteller - 018	Sachnummer W016	15-03-2008 12:30 AM	15-03-2008 12:30 AM	20
1   Bauteilehersteller - 019	Sachnummer W017	15-03-2008 12:30 AM	15-03-2008 12:30 AM	21
1   Bauteilehersteller - 020	Sachnummer W018	15-03-2008 12:30 AM	15-03-2008 12:30 AM	22
1   Bauteilehersteller - 021	Sachnummer W019	15-03-2008 12:30 AM	15-03-2008 12:30 AM	23
1   Bauteilehersteller - 022	Sachnummer W020	15-03-2008 12:30 AM	15-03-2008 12:30 AM	24
1   Bauteilehersteller - 023	Sachnummer W021	15-03-2008 12:30 AM	15-03-2008 12:30 AM	25
1   Bauteilehersteller - 024	Sachnummer W022	15-03-2008 12:30 AM	15-03-2008 12:30 AM	26
1   Bauteilehersteller - 025	Sachnummer W023	15-03-2008 12:30 AM	15-03-2008 12:30 AM	27
1   Bauteilehersteller - 026	Sachnummer W024	15-03-2008 12:30 AM	15-03-2008 12:30 AM	28
1   Bauteilehersteller - 027	Sachnummer W025	15-03-2008 12:30 AM	15-03-2008 12:30 AM	29
1   Bauteilehersteller - 028	Sachnummer W026	15-03-2008 12:30 AM	15-03-2008 12:30 AM	30
1   Bauteilehersteller - 029	Sachnummer W027	15-03-2008 12:30 AM	15-03-2008 12:30 AM	31
1   Bauteilehersteller - 030	Sachnummer W028	15-03-2008 12:30 AM	15-03-2008 12:30 AM	32

OEM-specific\_fields\_1.png



Name (de)	Name (en)	Created on	Changed on	Changed by
Sachnummer W000	Sachnummer W000	15-03-2008 12:30 AM	15-03-2008 12:30 AM	ip@vescon.com
Sachnummer W001	Sachnummer W001	15-03-2008 12:30 AM	15-03-2008 12:30 AM	ip@vescon.com

OEM-specific\_fields\_2.png

## 2.3 Chapter structure

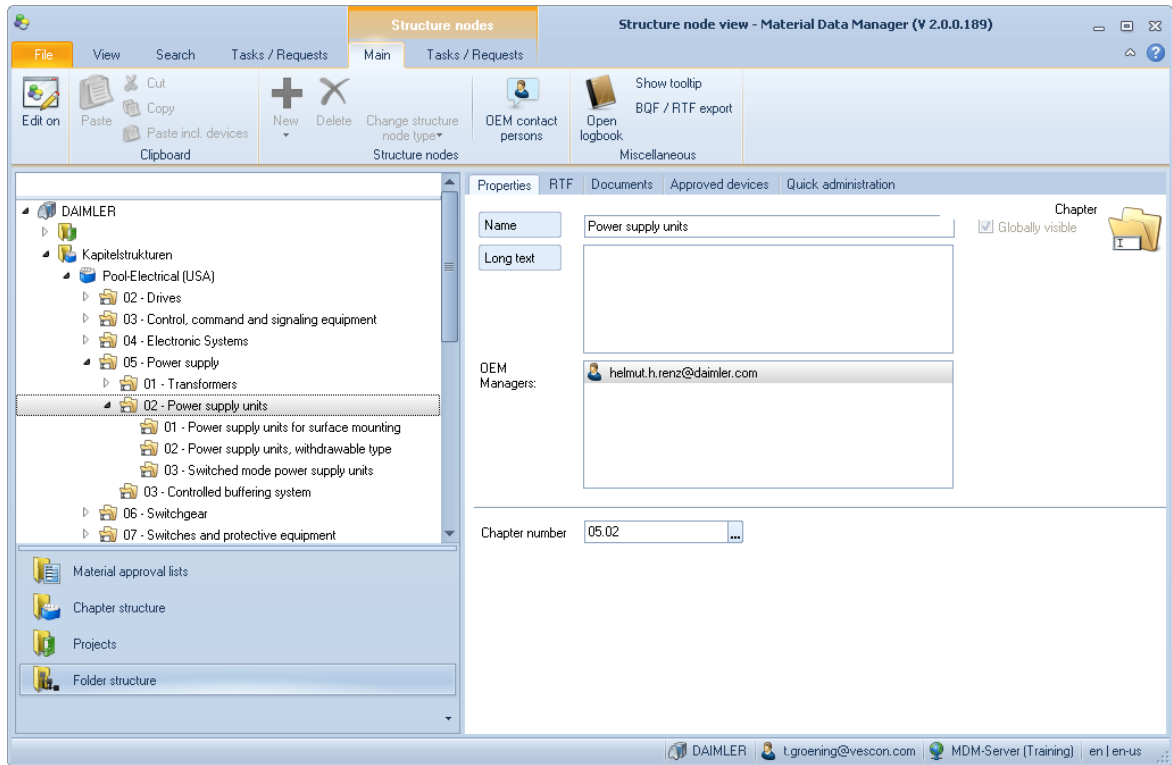
The chapter structure serves an operator-specific classification of components. Via the tabs "Attributes", "RTF" and "Documents" information on the selected chapter can be displayed.

The tab "Approved components" represents the approved components directly assigned to the chapter and its subchapters.

The tab "Quick administration" is used for the operator's own administration.

The following structural elements are available:

- Root – chapter structure
- Chapter structure
- Chapter



Chapter structure

### 2.3.1 Attributes (structural elements of a chapter)

The structural elements of the chapter structure can be described by the following attributes:

- **Name:**  
Name of the structural element as represented in the project tree. By a click on the button “Name” various translations can be entered.
- **Long text:**  
Any explanatory text. Via a click on the button “Long text” various translations can be entered.
- **Globally visible: Yes / No**  
If a structural element is set to “globally visible”, the tab “Attributes” will be visible to all users displaying the information
  - Name
  - Long text
  - Responsible operators.

Structural elements not set to “globally visible” will not be visible to users without the respective authorization.

- **Responsible operators:**

In the field “Responsible operators” the operator users responsible for the respective structural element are listed. By a double click on the mail address the window with the contact details is opened.

An allocation is carried out via the register “Quick administration”.

**Chapter number (with chapters only):**

If the selected structural element belongs to the type “Chapter”, a respective number can be entered to improve the structuring (sorting).

### 2.3.2 RTF (structural elements of a chapter)

See [RTF](#) (structural elements of a project)

For chapter structures a specific "BQF / RTF Export" is available. For this you need special authorizations.

### 2.3.3 Documents (structural elements of a chapter)

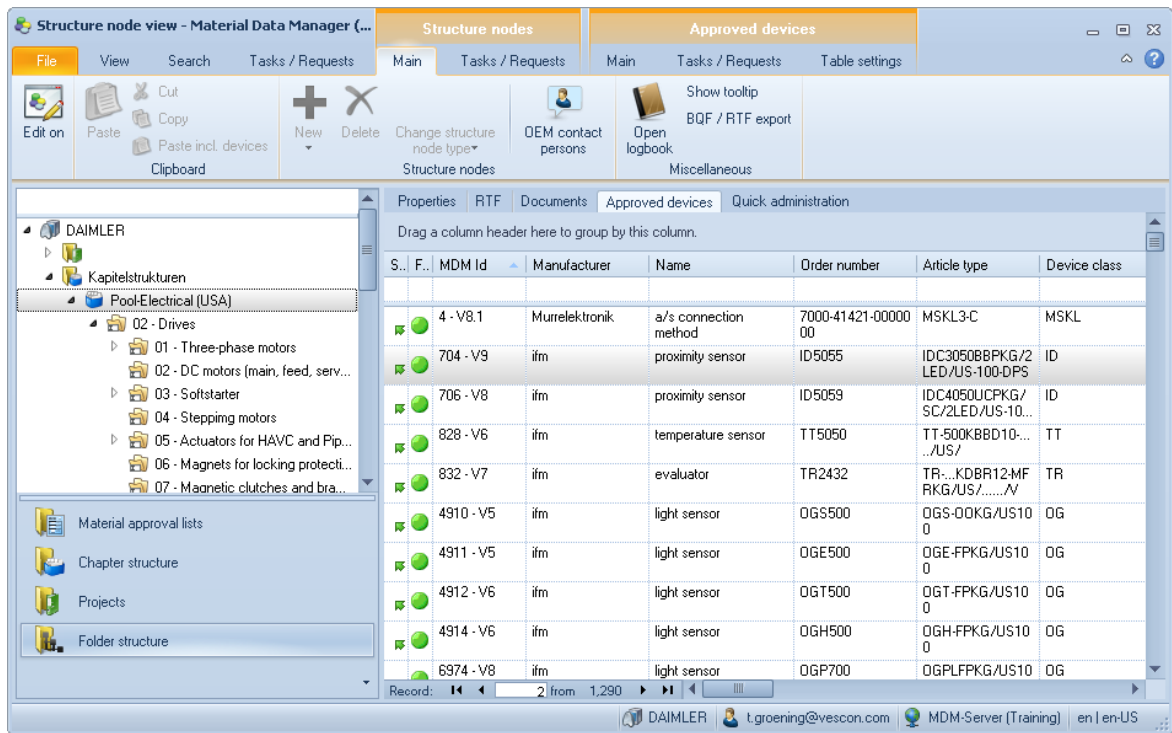
See [Documents](#) (structural elements of a project)

### 2.3.4 Assigned devices (structural elements of a chapter)

Here all components are listed that are assigned to the structural element or approved there. Blocked components will be listed only if this option has been selected via the ribbon tab „Components – show blocked components”.

Via the function “Show all components” (ribbon tab "Diverse") all components existing in the MDM are shown. Components not approved in this structural element (or in the subordinated elements) are represented in *italics*.

Caution! This function may require a long response time due to the large amount of data records.



Approved components

The Historie of this structure element (added or removed devices) can be displayed by clicking on the Ribbon Button "History" (Total / Only selected records)

Further information you will find [here](#).

### 2.3.4.1 chapter\_history

Further information you will find [here](#).

### 2.3.5 Quick administration (structural elements of a chapter)

see [Quick administration](#) (for structural elements of a project)

## 2.4 Material approval lists (MFLs)

In a material approval list (**MFL**: the German abbreviation for “**MaterialFreigabeListe**”) plant operators define and list the devices, components and systems which the suppliers are allowed to use for the plants and machines to be delivered.

All elements with the exception of the element “MFL” can be structured freely. Below an MFL no further structural elements can be placed.

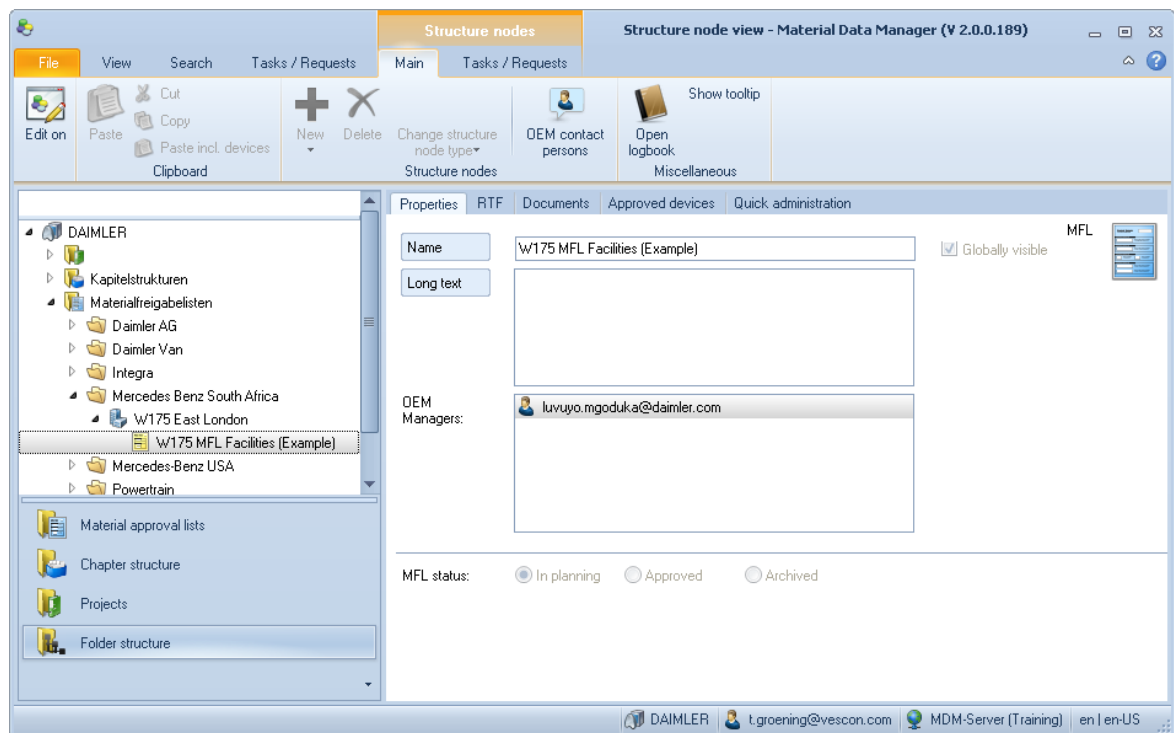
Via the tabs “Attributes”, “RTF”, “Documents” information related to the respective structural element can be shown.

In the tab “Approved components” those components are listed that are approved in the respective structural element and its subordinated elements.

The tab “Quick administration” is used for the operator’s own administration.

The following structural elements are available:

- Root - MFL
- Directory
- Plant
- MFL



**Material approval lists (MFLs)**

### 2.4.1 Attributes (MFL structural elements)

The structural elements of the MFL structure can be described by the following attributes:

- **Name:**  
Name of the structural element as represented in the project tree. By a click on the button “Name”

various translations can be entered.

- **Long text:**

Any explanatory text. Via a click on the button “Long text” various translations can be entered.

- **Globally visible: Yes / No**

If a structural element is set to “globally visible”, the tab “Attributes” will be visible to all users displaying the information

- Name
- Long text
- Responsible operators.

Structural elements not set to “globally visible” will not be visible to users without the respective authorization.

- **Responsible operators:**




In the field “Responsible operators” the operator users responsible for the respective structural element are listed. By a double click on the mail address the window with the contact details is opened.


An allocation is carried out via the register “Quick administration”.

- **MFL status (with MFL only):**

If the selected structural element belongs to the type “MFL”, a status can be given. The status is used to define the present state of the material approval list.

The colours of the icons reflect the status of the MLF and have the following meanings:

Icon	Colour	Status	Description
	Yellow	1. - In planning	MFL is in the planning stage at the operator's
	Green	2. - Approved	MFL is approved for use by suppliers
	Red	3. – Archived	Changes are no longer possible.

 The MLF status can be changed **only in the order represented above**. The status cannot be reversed.

- **CAD assignment / parts list import allowed:**

This setting manages the selection of structural elements for the CAD interfaces. Only elements with an activated control box can be selected in the CAD systems.

In structural elements "MFL" the control box "CAD assignment allowed" is always marked - this setting can not be changed.

## **2.4.2 RTF (MFL structural elements)**

See [RTF](#) (structural elements of a project)

For MFL structure elements a special "BQF / RTF Export" is available (depending on the users rights).

## **2.4.3 Documents**

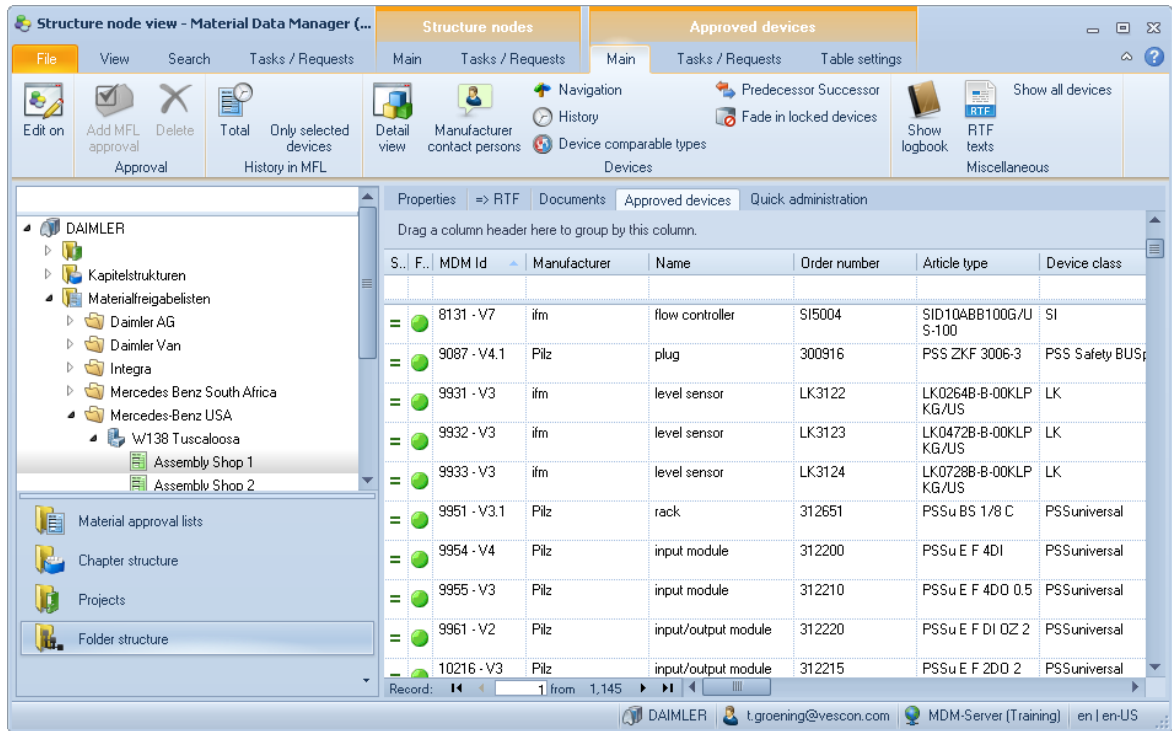
See [Documents](#) (structural elements of a project)

## **2.4.4 Approved devices (MFL structural elements)**

Here all components are listed that are approved in this (MFL structural element) . Blocked components will be listed only if this option has been selected via the ribbon tab „Components – show blocked components“.

Via the function “Show all components” (ribbon tab "Diverse") all components existing in the MDM are shown. Components not approved in this structural element (or in the subordinated elements) are represented in *italics*.

Caution! This function may require a long response time due to the large amount of data records.



Approved components (MFL structural elements)

The Historie of this structure element (added or removed devices) can be displayed by clicking on the Ribbon Button "History" (Total / Only selected records)

Further information you will find [here](#).

#### 2.4.4.1 MFL history

Further information you will find [here](#).

#### 2.4.5 Quick administration (structural elements of a

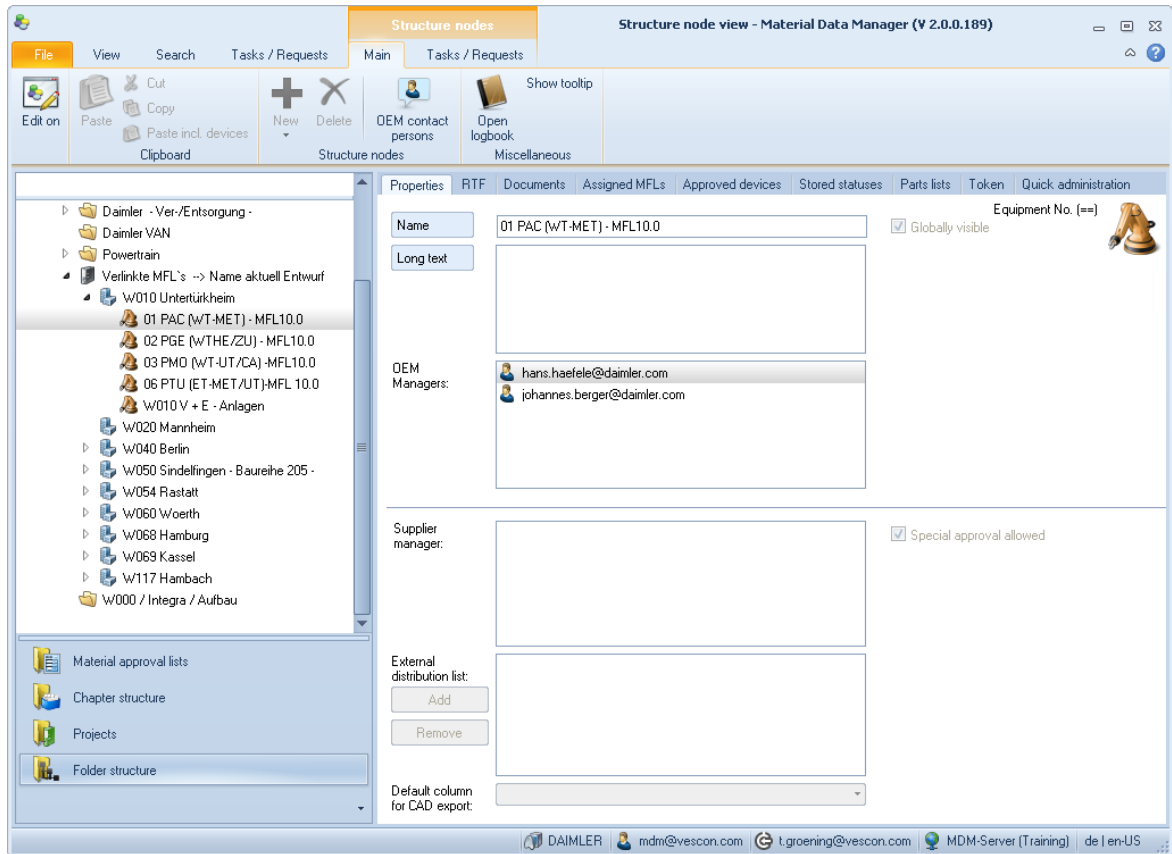
see [Quick administration](#) (for structural elements of a project)

### 2.5 Project structure

This structure view is used to create a project hierarchy. All elements can be structured freely.









Exception: It is exclusively more elements of the type "Inventory number" than can be assigned to an inventory number.





Project structure

The following structural elements are available:

-  Folder
-  Operator
-  Plant
-  Project
-  Order
-  Sub section
-  Inventory number (==)
-  Subsystem

### 2.5.1 Attributes of the structural elements of a project

The structural elements of the project structure can be described by the following attributes:

- **Name:**  
Name of the structural element as represented in the project tree. By a click on the button “Name” various translations can be entered.



- **Description:**

Any explanatory text. Via a click on the button “Long text” various translations can be entered.

- **Globally visible: Yes / No**

If a structural element is set to “globally visible”, the tab “Attributes” will be visible to all users displaying the information

- Name
- Long text
- Responsible operators.

Structural elements not set to “globally visible” will not be visible to users without the respective authorization. (for example via the tab “Quick administration”)

- **Responsible operators:**

In the field “Responsible operators” the operator users responsible for this structural element are listed. By a double click on a mail address the window with the respective contact details is opened.

An allocation is carried out via the register “Quick administration”.

- **Responsible suppliers:**

In the field “Responsible suppliers” the supplier users responsible for this structural element are listed. By a double click on a mail address the window with the respective contact details is opened.

An allocation is carried out via the register “Quick administration”.

- **Distribution list external:**

In the field „Distribution list external“ mail addresses can be entered manually. If a special approval has been issued for this project element or any of the subordinated elements, the persons on this list will get an e-mail.

- **Standard column for CAD export:**

In this field a structural element can be assigned to a data field of the „Daimler-specific fields“. As a rule, this is a column for entering the components’ part and stock numbers in a plant. As a result these plant-specific component data are written into the CAD list of items via the CAD interface.

- **Allocation / Order date**

Here the order date of the equipment can be entered. In the parts lists entries the status of the devices is displayed in relationship to this date.

- **Multiplier for parts lists**

This field is only available for equipment and subsystems. If here a value is entered in all parts lists allocated to this structure element the number (total) is multiplied with this value. t.

- **CAD assignment / parts list import allowed: Yes / No:**

This setting manages the selection of structural elements for the CAD interfaces. Only elements with an activated control box can be selected in the CAD systems.

In structural elements "Equipment" the control box "CAD assignment allowed" is always marked - this setting can not be changed.

- In structural elements "MFL" the control box "CAD assignment allowed" is always marked - this setting can not be changed.

- **Request new device allowed:**

This setting manages if for this structure element a request for a new device is allowed. The recipient gets the request depending on his rights of the structure elements.

- **Request device approval allowed:**

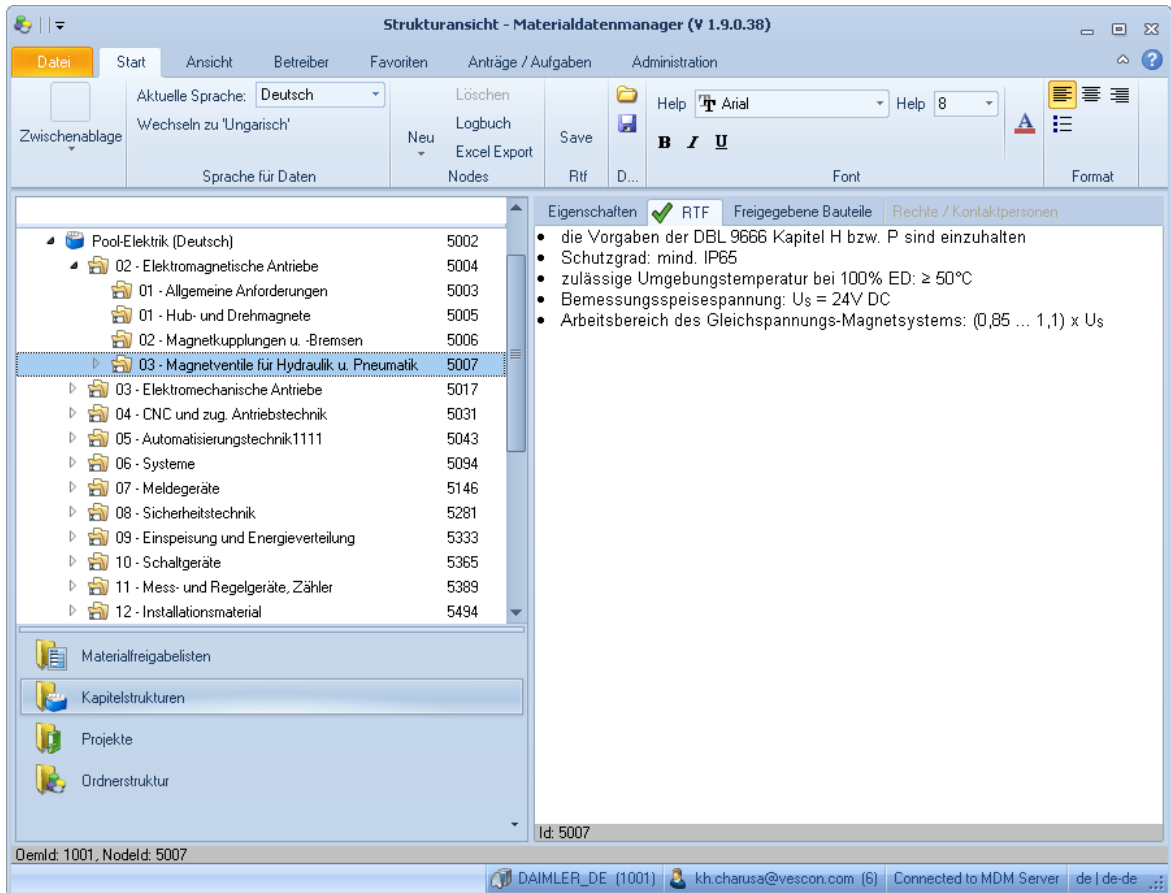
This setting manages if for this structure element a request for a MFL approval / special approval is allowed. The recipient gets the request depending on his rights of the structure elements.

## 2.5.2 RTF

In the tab "RTF" (Rich Text Format) further explanatory texts referring to a structural element can be entered and the contents of other RTF documents can be copied in.

The standard functions of a text editor – selection of the font type, font style, size, emphasis and paragraph format – are available.

Structural elements with defined RTF texts are marked by "=> RTF".



RTF

### 2.5.3 Documents

To each individual structural element any number of documents in all standard file formats (.txt, .pdf, .doc, .xls, .jpg, .bmp, .tif, .gif, ppt.) can be assigned.

If possible, exclusively pdf-files should be used for the sake of file size and universal readability.

Attention! Please notice that the maximum file size is 5 MB!

### 2.5.4 Assigned MFLs

This tab is only available in the structural elements of the project. Here it is shown which material approval lists (MFLs) are linked to the structural element. As a rule, the MFL assigned to an element applies to all other subordinated project elements ( see also type "Replaces superordinated"). The contents of the columns has the following meaning:

- **Levels display:**

[Level indicator](#)

- **Type:**

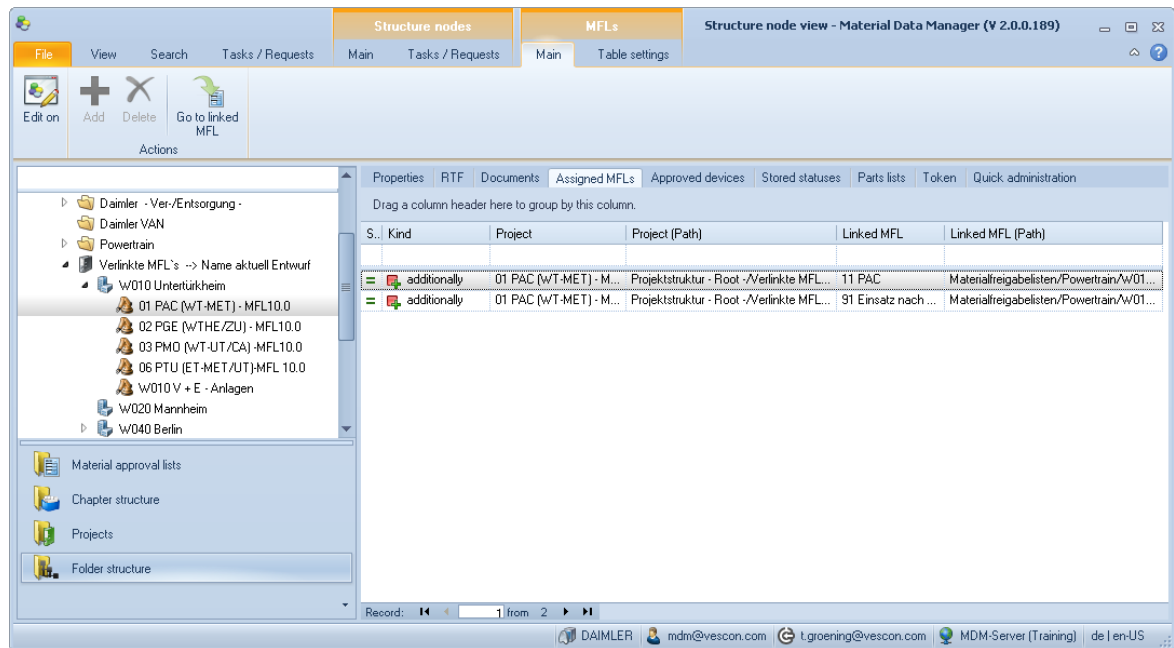
Additional:

the assigned MFL has an additive effect. This means that the components approved in the MFL are added to the approved components which may already be existing.

Replaces superordinated:

the allocated MFL replaces all MFLs which have been assigned to a superordinated level.

A double click on the MFL opens the detail window. There the attribute “Type” can be edited.



**Assigned MFLs**

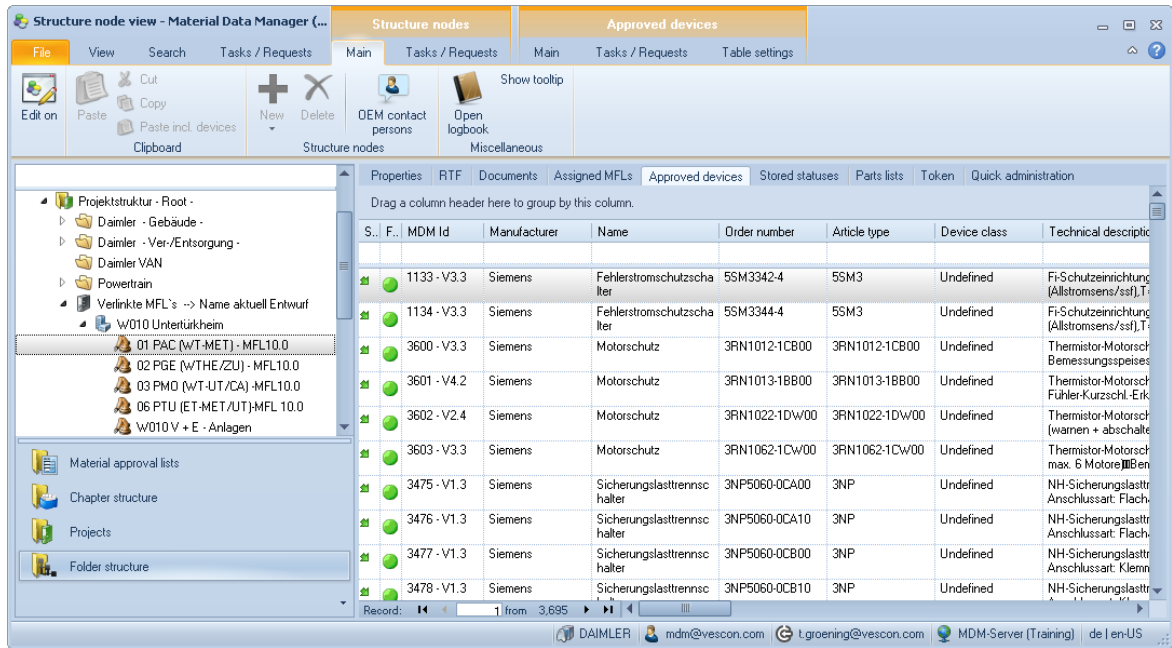
## 2.5.5 Approved devices (project structure)

Here the components of the assigned MFLs and the special approvals are displayed. Blocked components are not listed unless the respective option has been selected via the ribbon tab “Components – show blocked components”.

In the data record list on the far right it is shown whether the component has been approved via an MFL and/or via a special approval.

Via the function “Show all components” (ribbon tab "Diverse") all components existing in the MDM are shown. Components not approved in this structural element (or in the subordinated elements) are represented in *italics*.

Caution! This function may require a long response time due to the large amount of data records.



Approved components (project structure)

The Historie of this structure element (added or removed devices) can be displayed by clicking on the Ribbon Burttton "History" (Total / Only selected records)

Further information you will find [here](#).

### 2.5.5.1 History

If an MFL has been marked in the structure view and the approved components are listed, you can view the history of the MFL via the context-related ribbon tab „Approved components / Main“; i.e. you can see which data records were added to the MFL or removed, when and by whom.

All:

By a click on this tab any changes referring to the existing data records will be indicated.



The screenshot shows the 'Structure view - Material Data Manager (V 2.1.7.49)' interface. The top toolbar contains several tabs: 'Structure nodes', 'Approved records', and 'History'. The 'History' tab is highlighted with a red box. Below the toolbar, there are several sub-tabs: 'Properties', 'RTF', 'Documents', 'Assigned MFLs', 'Approvals', 'Stored statuses', 'Parts lists', 'Token', and 'Quick administration'. The main area is divided into a left sidebar with a tree view and a right pane with a table. The tree view shows a hierarchy of folders and components, including 'MDM', 'Bosch Automotive Steering GmbH', 'DAIMLER', 'MAN Truck & Bus', 'VESCON', and 'Projektstruktur - Root'. The table displays material data with columns: 'MDM Id', 'Manufacturer', 'Order number', 'Article type', 'Certificate CCC', 'Certificate CE', 'Certificate CSA', and 'Certificate CE'. The table contains multiple rows of data, including entries for manufacturers like 'ifm', 'Wenglor sensoric', 'ABB Jokab Safety', and 'Sick'.

### MFL history

Only marked components:

By a click on this tab any changes referring to the marked components only will be indicated.



MFL history - Material Data Manager (V 2.0.0.189)

Main Tasks / Requests Table settings

Detail view Manufacturer contact persons Navigation Predecessor Successor Fade out locked devices Show logbook RTF texts Close

Drag a column header here to group by this column.

Changed on/at	Changed by	Type of change	Order number	Article type	Certificate CCC	Certificate CE	Certificate CSA	Certificate U
11/12/2008 3:5...	gerhard.weinmann@daimler.com	Added	20BD2P1A3AYN...		N/A	Ja	N/A	N/A
11/12/2008 3:5...	gerhard.weinmann@daimler.com	Deleted	20BD2P1A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:05 PM	jochen.w.weber@daimler.com	Added	20BD3P4A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:05 PM	jochen.w.weber@daimler.com	Deleted	20BD3P4A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:05 PM	jochen.w.weber@daimler.com	Deleted	20BD2P1A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:05 PM	jochen.w.weber@daimler.com	Added	20BD8P0A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:05 PM	jochen.w.weber@daimler.com	Deleted	20BD8P0A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:05 PM	jochen.w.weber@daimler.com	Added	20BD011A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:05 PM	jochen.w.weber@daimler.com	Deleted	20BD011A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:05 PM	jochen.w.weber@daimler.com	Added	20BD014A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:05 PM	jochen.w.weber@daimler.com	Deleted	20BD014A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Added	20BD027A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Deleted	20BD027A3AYN...		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Added	1756-L63		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Deleted	1756-L63		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Added	1769-0W8		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Deleted	1769-0W8		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Added	1769-0B16P		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Deleted	1769-0B16P		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Added	1769-IQ16		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Deleted	1769-IQ16		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Added	1769ECR		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Deleted	1769ECR		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Added	1769ECL		N/A	Ja	N/A	N/A
2/5/2009 1:06 PM	jochen.w.weber@daimler.com	Deleted	1769ECL		N/A	Ja	N/A	N/A

Record: 1 from 1,437

Materialfreigabelisten/Mercedes-Benz USA/W138 Tuscaloosa/Assembly Shop 1

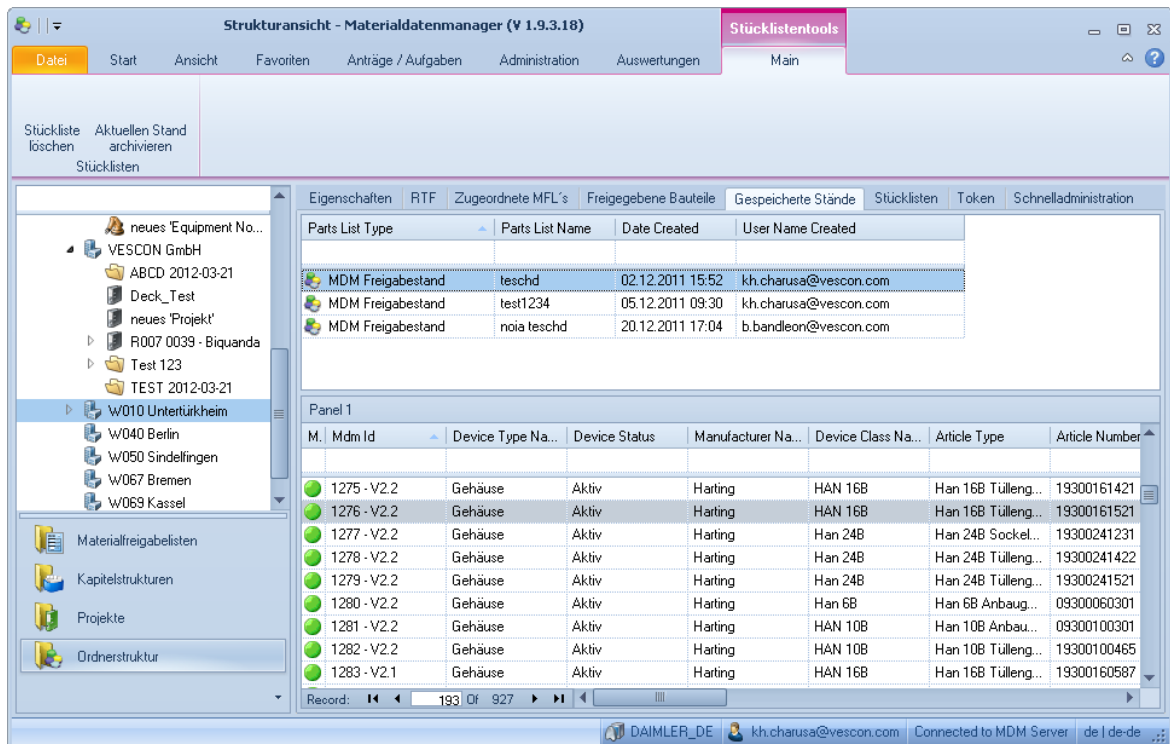
MFL history 2

### 2.5.6 Stored statuses

In this tab the stored statuses of approved components are displayed and the up-to-date component list (tab "Approved components") can be stored. Thus the approval status for an order, for example, can be archived.

The approval check of item lists can also be made against stored statuses.





Parts List Type	Parts List Name	Date Created	User Name Created
MDM Freigabestand	teschd	02.12.2011 15:52	kh.charusa@vescon.com
MDM Freigabestand	test1234	05.12.2011 09:30	kh.charusa@vescon.com
MDM Freigabestand	noia teschd	20.12.2011 17:04	b.bandleon@vescon.com

M. Mdm Id	Device Type Na...	Device Status	Manufacturer Na...	Device Class Na...	Article Type	Article Number
1275 - V2.2	Gehäuse	Aktiv	Harting	HAN 16B	Han 16B Tülleng...	19300161421
1276 - V2.2	Gehäuse	Aktiv	Harting	HAN 16B	Han 16B Tülleng...	19300161521
1277 - V2.2	Gehäuse	Aktiv	Harting	Han 24B	Han 24B Sockel...	19300241231
1278 - V2.2	Gehäuse	Aktiv	Harting	Han 24B	Han 24B Tülleng...	19300241422
1279 - V2.2	Gehäuse	Aktiv	Harting	Han 24B	Han 24B Tülleng...	19300241521
1280 - V2.2	Gehäuse	Aktiv	Harting	Han 6B	Han 6B Anbaug...	09300060301
1281 - V2.2	Gehäuse	Aktiv	Harting	HAN 10B	Han 10B Anbau...	09300100301
1282 - V2.2	Gehäuse	Aktiv	Harting	HAN 10B	Han 10B Tülleng...	19300100465
1283 - V2.1	Gehäuse	Aktiv	Harting	HAN 16B	Han 16B Tülleng...	19300160587

Stored statuses

## 2.5.7 Parts lists

In the MDM parts lists can be imported, displayed and edited from the following systems:

- RUPLAN 4
- EPLAN Electric P8
- Excel

In order to import parts lists from the CAD applications RUPLAN or Eplan it is necessary to activate the interface CAD - MDM. This import runs automaticly - excel parts list must be imported by hand.

After the import the parts list will be checked by MDM Id, manufacturer, order number and article / type - trying to find the corresponding MDM device (see also Assign MDM-ID in parts lists again ).

The user will be informed about the process of import of an excel parts list by e-mail. In case of an import from the CAD applications RUPLAN or Eplan no message will be generated.

After the import the assignment of the imported CAD devices to the MDM devices runs automatically - see also Assign MDM-ID in parts lists again. It is possible to start the assignment later again by hand.

The devices can be displayed as well as a parts list or as an order list.

An example file of an excel import can be called up by the button "Save import template".

The meanings of the entries in the column „Level display“ are described in: [Level indicator](#)

By double click the detail dialogue for editing the attributes of the parts list will be displayed.

Via the status “Valid” you can determine if the item list is supposed to be considered in the evaluations.

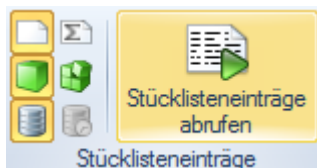
A "Frozen" parts list will not be overridden by a parts list which is more up to date.

By the attributes "name", "project", "project number", "factory", "plant number", "plant category" and "inventory number" the discription of the parts list will be generated.

The parts list can be also classified by the Options “Optional mechanic”, “Optional electric”, “Optional fluid”.

The following properties mean:

- # of entries: number of entries (rows) in the imported parts / order list
- $\Sigma$  devices: number of different devices (manufacturer / order number)
- # not approved: number of not approved entries (rows)
- $\Sigma$  not approved: number of different devices (manufacturer / order number) which are not approved
- # invalid count: number of entries (rows) containing an invalid count (import)
- # w/o assignment: number of entries (rows) without corresponding MDM Id
- $\Sigma$  unknown manufacturers: number of different manufacturers which are not found in MDM
- # empty order number: number of entries (rows) without order number (import)
- 



The imported item lists can be checked in the ribbon area “Item lists – Main“ via the functions “Compare with presently approved components“ and “Compare with stored status“. The results of the check are displayed in a result list. Data records not approved are specifically marked.

The device list can be displayed with standard or high resolution as well as parts list or as order list. If stored statuses exist approvals can be counter-checked. The parts lists entries can be recalled from the server by the button " parts lists entries recall".

Attention! In the Resolved view specific columns are no longer consistent represented. These are grayed out and the contents are empty. Column Consolidated manufacturers and ordernumber have no content at assembly positions.

An Excel template is available by the button "store template"

The status of approvals is displayed in a separate column.

For reading and editing the items lists specific authorizations are required.

### 2.5.7.1 Parts list check

Check a parts list after import (manual import for Excel files or automatic import using the CAD interfaces:

1.) Apply "Number (Import)" in "Number"

- (only whole / integer numbers).

2.) Search for the MDM-Id dependent on the imported file

- If the column "MDM-Id (Import)" exists and is not empty this entry is the the sole assignment information - all records will be assigned (it is also possible that thereby an other device is assigned).
- Search with the columns "manufacturer (import)", "order number (import)" and "article / type (import)" - here erroneous records will be ignored.

Information concerning the assignment of MDM Id you can find here: [Assign MDM-ID in parts lists again](#)



3.) Approval counter-check to the current status of device approvals and universal approvals:

Freigabepfung

### 2.5.7.2 Approval check

Imported parts list will be automatically matched against the actual status. The result is displayed in the parts lists entries - also by the function "Check parts list again".

The following information are available:

-  approved (by universal approval or device approval) or
-  not approved

The requirement for a device approval is a existing parts list entry of the device. When checking an universal approval the parts list entry is matched against the MDM device data or against the import



columns. If a parts list entry is marked "approved" by an universal approval an additional column "universal approval ID" is displayed. By clicking on the button "Show universal approval" the detail view of the universal approval is displayed.

The columns containing the result of the check are highlighted in red, also the results the MDM ID allocation and parts list check. The imported columns (CAD or Excel) are highlighted in blue.

Ziehen Sie die Spaltenüberschrift hierher um danach zu gruppieren.

MDM Id Zuordnungs Info	=> Freigegeben	Hersteller (Import)	Bestellnummer (I...)	Artikel-Typ (Import)	Technische Bes...	Anzahl (Import)	Anzahl	Bezeichnung (Im...	MDM Id (Import)	Position (Import)	Norm (Import)
	<input checked="" type="checkbox"/>	Bauteil	SIEMENS	3LD2504-0TK51		3P In=63A Ui=69...	1	1	Hauptschalter		
	<input checked="" type="checkbox"/>	Universalfrei...	SIEMENS	3LD9200-5B		1NO 1NC	1	1	Schaltenelement		
	<input checked="" type="checkbox"/>	Universalfrei...	SIEMENS	3LD9286-1A			1	1	Einlegeschild		
	<input checked="" type="checkbox"/>	-	EATON	259097	NZMH2-A63	3P; In=63A; 50-6...	1	1	Leistungsschalter		
	<input checked="" type="checkbox"/>	Bauteil	EATON	259832	NZM2-XR208-24...	208-240V; 50/60...	1	1	Antrieb		
	<input checked="" type="checkbox"/>	Bauteil	EATON	216376	M22-K10	1NO	2	2	Hilfsschalter		
	<input checked="" type="checkbox"/>	Bauteil	EATON	266777	NZM2-XIPK		1	1	Klemmenabdeck...		
	<input checked="" type="checkbox"/>	Bauteil	EATON	260038	NZM2-XKSA		1	1	Klemmenabdeck...		
	<input checked="" type="checkbox"/>	Bauteil	EATON	259501	NZM2/3-XU380...	380-440V; 50/60...	1	1	Unterspannungs...		
	<input checked="" type="checkbox"/>	Bauteil	MURR ELEKTR...	10575	MEF3/1	3x0-500V; 50/60...	1	1	Netztafelfilter		
	<input checked="" type="checkbox"/>	-	LAPP	4520006	H07V-K	GN/YE; 16mm²	1	1	Erdungsleitung		
	<input checked="" type="checkbox"/>	-	LAPP	4520006	H07V-K	GN/YE; 16mm²	1	1	Erdungsleitung		
	<input checked="" type="checkbox"/>	-	LAPP	4520006	H07V-K	GN/YE; 16mm²	1	1	Erdungsleitung		
	<input checked="" type="checkbox"/>	-	LAPP	4520006	H07V-K	GN/YE; 16mm²	1	1	Erdungsleitung		
	<input checked="" type="checkbox"/>	-	LAPP	4520006	H07V-K	GN/YE; 16mm²	1	1	Erdungsleitung		
	<input checked="" type="checkbox"/>	-	LAPP	4520006	H07V-K	GN/YE; 16mm²	1	1	Erdungsleitung		
	<input checked="" type="checkbox"/>	Bauteil	RITTAL	SZ4315 520		1NO 1NC	1	1	Positionsschalter		
	<input checked="" type="checkbox"/>	Bauteil	RITTAL	SZ4139 140		14W; 100-240V ...	1	1	Leuchte		
	<input checked="" type="checkbox"/>	Bauteil	SIEMENS	5SY4110-7		10A; 1P; C; 400...	1	1	Leitungsschutz...		
	<input checked="" type="checkbox"/>	Bauteil	SIEMENS	5ST3010		1NO 1NC	1	1	Hilfsschalter		
	<input checked="" type="checkbox"/>	Bauteil	RITTAL	SZ4315 100		3m	1	1	Anschlussleitung		
	<input checked="" type="checkbox"/>	-	MURR ELEKTR...	67900	MSVD	250V; 16A; GY	1	1	Steckdose		
	<input checked="" type="checkbox"/>	Bauteil	MURR ELEKTR...	4000-68000-014...		250V; 16A; OG; ...	1	1	Steckdose		
	<input checked="" type="checkbox"/>	Bauteil	MURR ELEKTR...	4000-68522-000...	MODLINK MSDD		1	1	Rahmen		
	<input checked="" type="checkbox"/>	-	MURR ELEKTR...	4000-68000-094...		RJ45; USB	1	1	Steckereinsatz		
	<input checked="" type="checkbox"/>	Bauteil	SIEMENS	5SY4106-7		6A; 1P; C; 400V...	1	1	Leitungsschutz...		
	<input checked="" type="checkbox"/>	Bauteil	SIEMENS	5ST3010		1NO 1NC	1	1	Hilfsschalter		
Bauteil nicht gefunden	<input checked="" type="checkbox"/>	-	LAPP	1119303	OLFLEX 110	PVC; 3G1,5mm²	1	1	Steuerleitung		
	<input checked="" type="checkbox"/>	Bauteil	SIEMENS	6KV1840-3AH10		PUR; 2x2x0,75m...	1	1	Datenleitung ges...		
	<input checked="" type="checkbox"/>	Bauteil	SIEMENS	6GK1901-1BB10...		RJ45	2	2	Steckverbinder ...		
	<input checked="" type="checkbox"/>	Bauteil	RITTAL	SK3375 910	SK3375 910/Dai...	230V; 50/60 Hz	1	1	Kühlgerät		
	<input checked="" type="checkbox"/>	Bauteil	SIEMENS	5SY4106-7		6A; 1P; C; 400V...	1	1	Leitungsschutz...		
	<input checked="" type="checkbox"/>	Bauteil	SIEMENS	5ST3010		1NO 1NC	1	1	Hilfsschalter		
	<input checked="" type="checkbox"/>	-	RITTAL	SZ4127 010		1NO 1NC	1	1	Positionsschalter		
	<input checked="" type="checkbox"/>	Bauteil	LAPP	1119852	OLFLEX 110	PVC; 2x1,0mm²	1	1	Steuerleitung		
	<input checked="" type="checkbox"/>	Bauteil	SIEMENS	3RV2011-1EA20		2,8-4A; 1,9kW	1	1	Motorschuttscha...		

Datensatz: 1 von 400

Imported Excel parts lists can contain deviant entries than defined in the MDM (e.g. "Technical description"). For this reason some columns are doubled - the header of imported columns is marked with "Import".

By clicking on the button "Compare to stored status" the parts list is matched against the stored status.

### 2.5.7.3 Circuit diagrams PDF

Circuit diagrams (PDF) up to 30 MB can be assigned to parts lists. Already existing documents can be displayed or deleted.

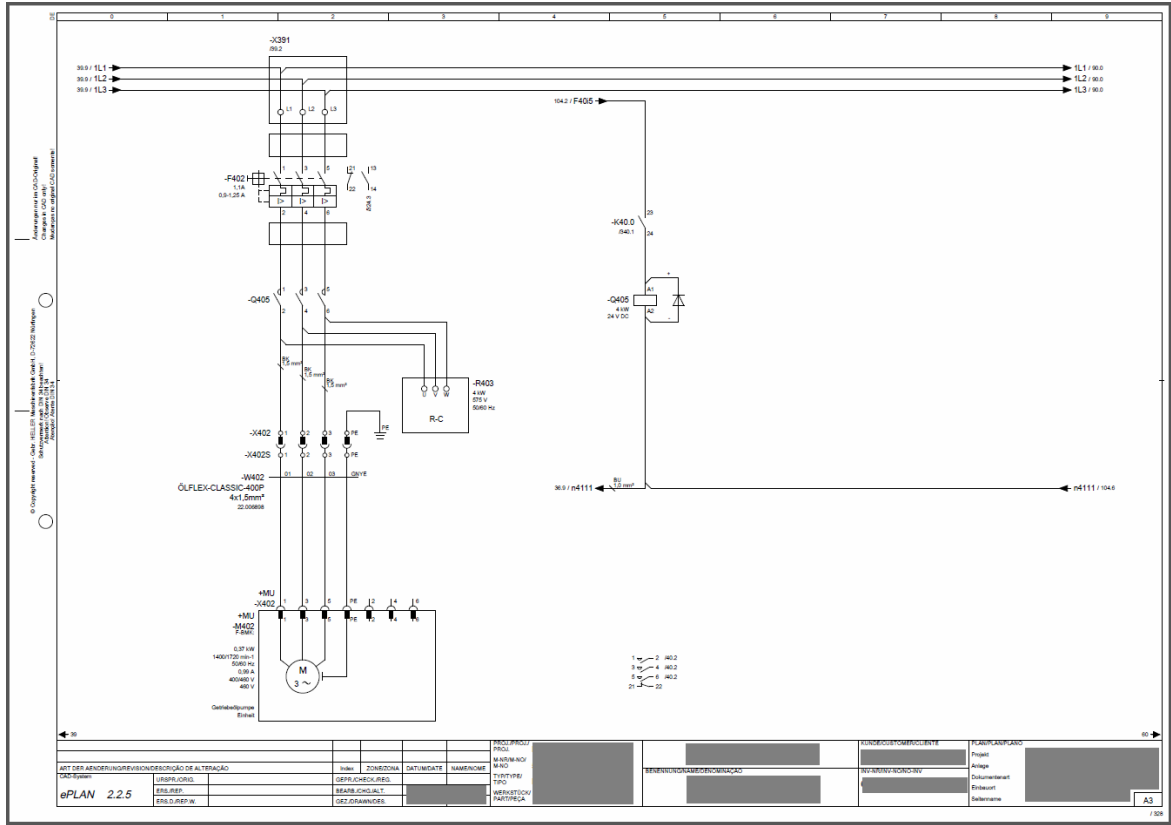


The screenshot shows the VESCON MDM (Materialdatenmanager) software interface. The main window displays a list of parts with columns for 'Eigenschaften', 'RTF', 'Dokumente', 'Zugeordnete MFL's', 'Freigegebene Bauteile', 'Gespeicherte Stände', 'Stücklisten', and 'Token'. A table below shows a list of parts with columns for 'Anzahl (Import)', 'Hersteller (Import)', 'Bestellnummer (Import)', 'Typ (Import)', 'Technische Beschreibu...', 'Bezeichnung (Import)', and 'MDM Id (Import)'. The table contains 12 rows of data, including parts from Balluff GmbH and Bosch Rexroth AG.

Anzahl (Import)	Hersteller (Import)	Bestellnummer (Import)	Typ (Import)	Technische Beschreibu...	Bezeichnung (Import)	MDM Id (Import)
1	Balluff GmbH	BES M12MI-PSC20...	BES M12MI-PSC...		Näherungschalter	
1	Balluff GmbH	BIP AD2-8040-02-S4	BIP AD2-8040-0...		Induktives Positionie...	
1	Balluff GmbH	BIP AD2-8040-02-S4	BIP AD2-8040-0...		Induktives Positionie...	
1	Balluff GmbH	BIP AD2-8040-02-S4	BIP AD2-8040-0...		Induktives Positionie...	
1	Bosch Rexroth AG	R911296958	PFM02.1-016-FW		MMC-Speicherkarte	
1	Bosch Rexroth AG	R911296958	PFM02.1-016-FW		MMC-Speicherkarte	
1	Bosch Rexroth AG	R911296958	PFM02.1-016-FW		MMC-Speicherkarte	
1	Bosch Rexroth AG	R911296958	PFM02.1-016-FW		MMC-Speicherkarte	
1	Bosch Rexroth AG	R911296958	PFM02.1-016-FW		MMC-Speicherkarte	
1	Bosch Rexroth AG	R911296958	PFM02.1-016-FW		MMC-Speicherkarte	
1	Bosch Rexroth AG	R911298374	HCS02.1E-W00...		IndraDrive Kompakt...	
1	Bosch Rexroth AG	R911298374	HCS02.1E-W00...		IndraDrive Kompakt...	
1	Bosch Rexroth AG	R911298374	HCS02.1E-W00...		IndraDrive Kompakt...	
1	Bosch Rexroth AG	R911298374	HCS02.1E-W00...		IndraDrive Kompakt...	
1	Bosch Rexroth AG	R911298374	HCS02.1E-W00...		IndraDrive Kompakt...	
1	Bosch Rexroth AG	R911306007	HAS01.1-065-N...		Grundzubehör Indra...	
1	Bosch Rexroth AG	R911306007	HAS01.1-065-N...		Grundzubehör Indra...	
1	Bosch Rexroth AG	R911306007	HAS01.1-065-N...		Grundzubehör Indra...	
1	Bosch Rexroth AG	R911306007	HAS01.1-065-N...		Grundzubehör Indra...	
1	Bosch Rexroth AG	R911306007	HAS01.1-065-N...		Grundzubehör Indra...	

**Stromlaufpläne**

If you use the EPLAN plugin version 2 the diagrams will automatic transferred to MDM. With the older EPLAN plugin, RUPLAN or EXCEL you must do a manual import of the digrams.

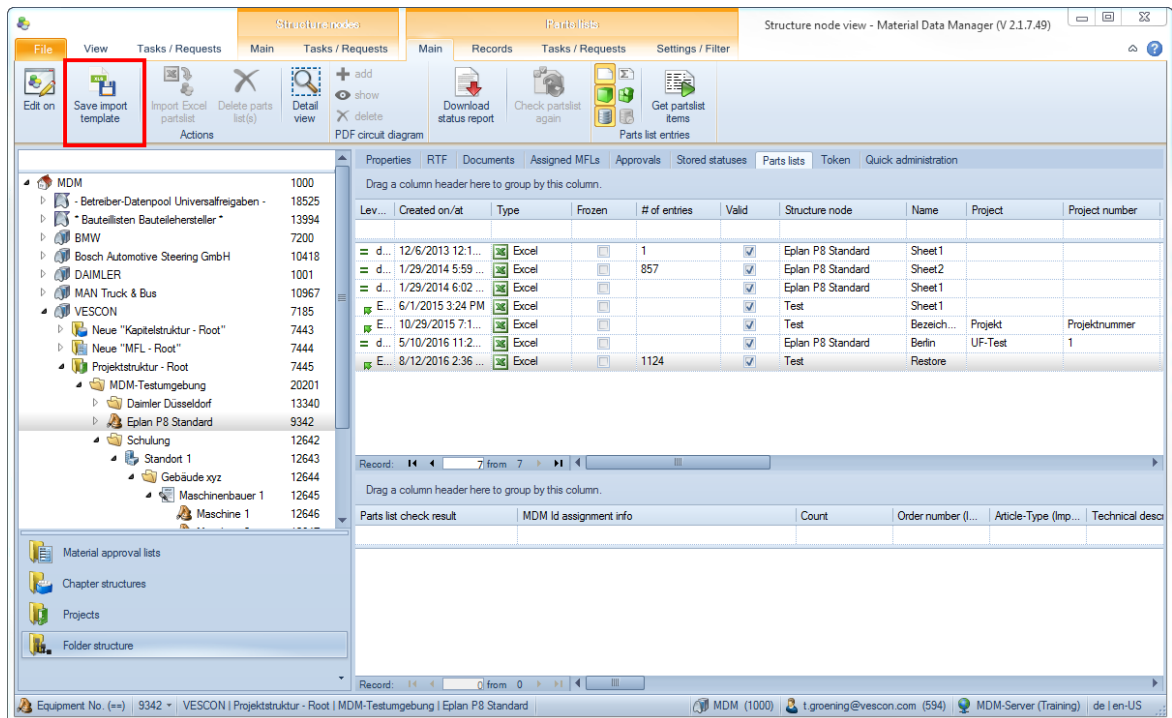


Example circuit diagram EPLAN

### 2.5.7.4 Excel parts lists import

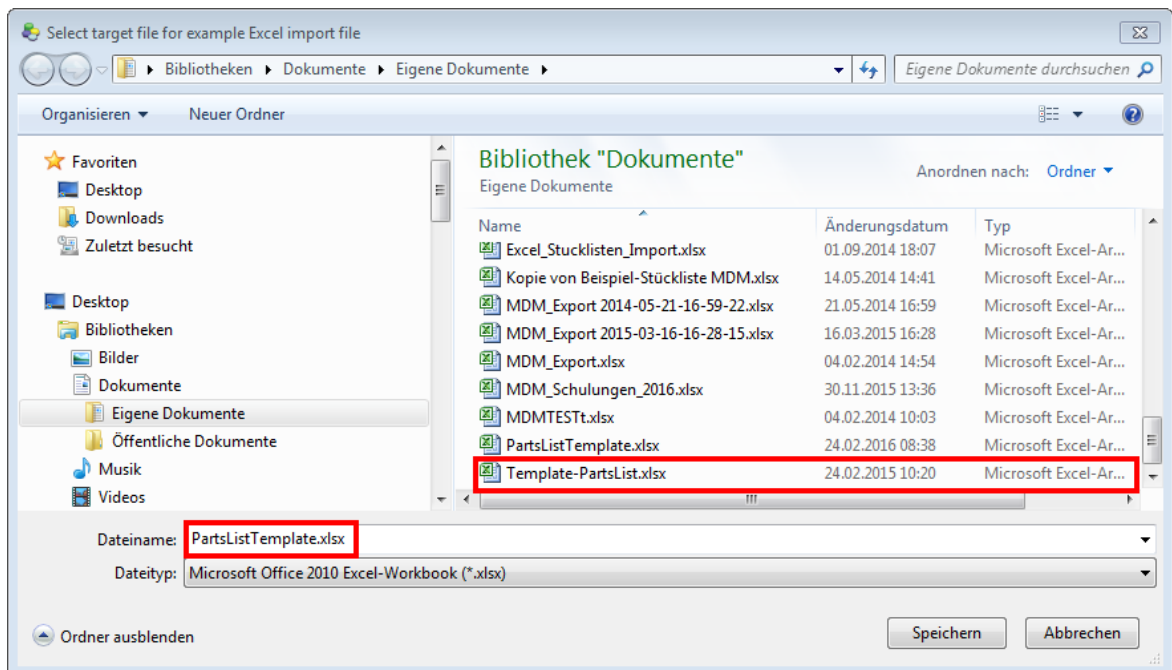
In addition to the automatically generated CAD parts lists also Excel parts lists can be generated and imported. To do so please proceed as follows:

- Select the project in the structure view and click on the tab "parts lists", click in the opened window and on the button "save import template"



Excel\_parts\_list\_import\_1.png

- Open here an existing parts lists or the (empty) "Template-PartsList.xlsx".

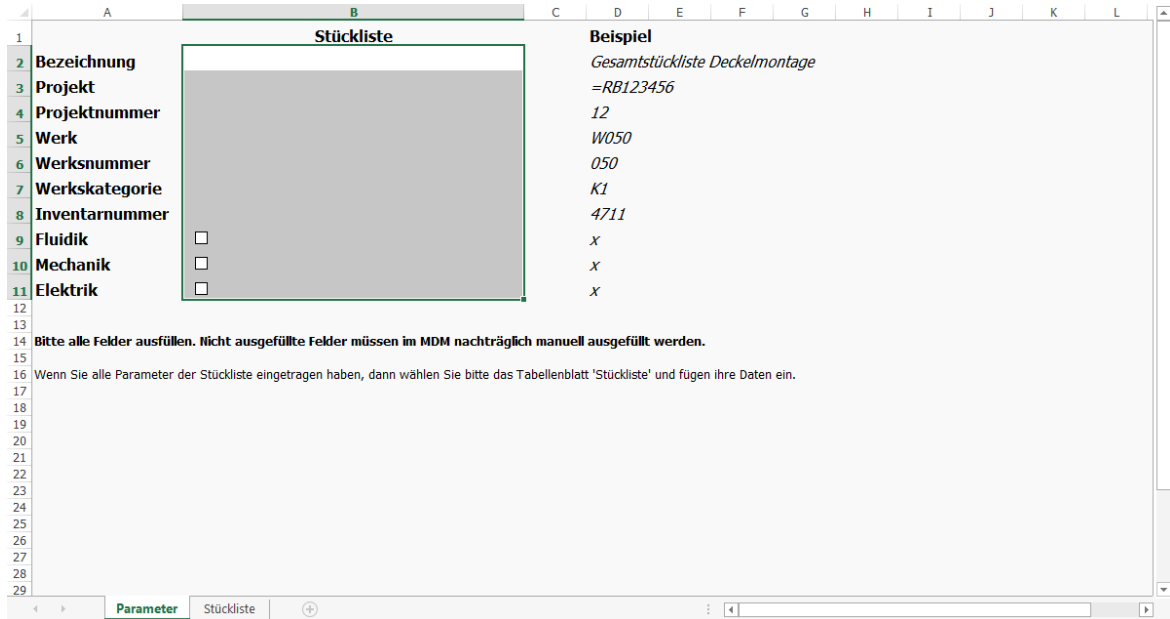


Excel\_parts\_list\_import\_2

- Complete the Excel file - mandatory fields are:
  - manufacturer
  - order number
  - count

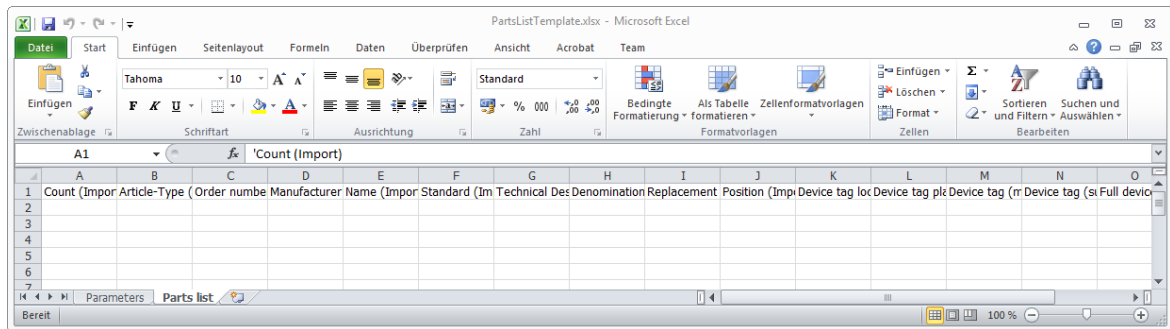


- Fill out the parameter sheet completely



Parameter sheet

- To import a parts list please click on the buttons "Edit on" and "Import Excel parts lists"



Excel\_parts\_list\_import\_3

- The window with the detail informations can be opened by a double click on the parts list

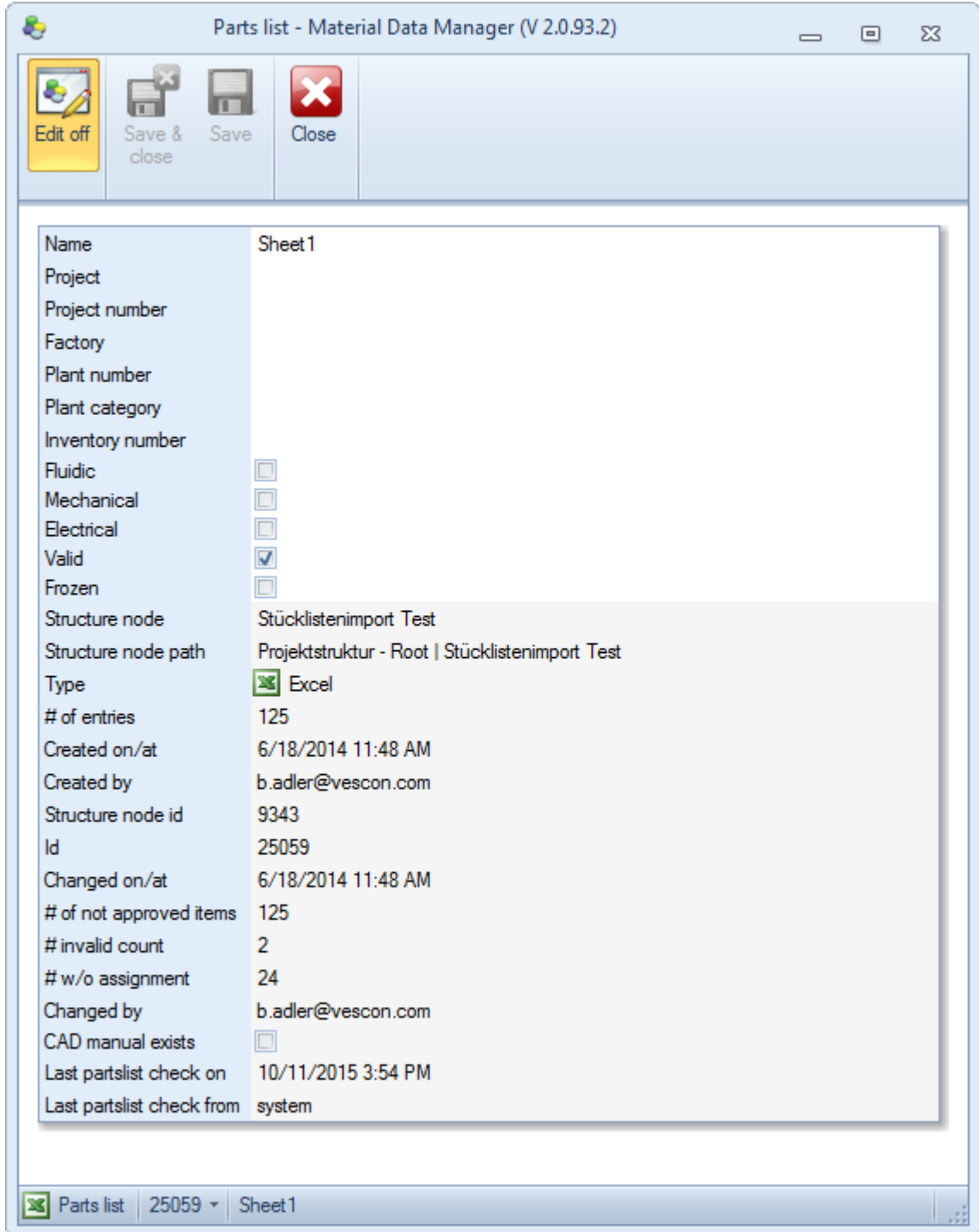




The screenshot shows the VESCON software interface with the 'Structure nodes' and 'Parts lists' tabs active. The 'Import Excel partlist' button in the 'Parts lists' tab is highlighted with a red box. Below the main interface, a table of MDM Id assignment info is displayed.

MDM Id assignment info	Count	Order number (I...	Article-Type (Imp...	Technical desc...	Count (Import)	Name (Import)	Manufacturer (Im...	MDM Id (Import)	Position (Import)
	8	R1331-625-00	-		8	Dichtung	Bosch Rexroth		
	8	R0901-077-00	-		8	Metallkapsel	Bosch Rexroth		
	2	R2045 704 31	-		2	Führungsschiene	Bosch Rexroth		
	2	R2045 704 31	-		2	Führungsschiene	Bosch Rexroth		
	2	R2001 794 04	-		2	Führungswagen	Bosch Rexroth		
	2	R2001 794 04	-		2	Führungswagen	Bosch Rexroth		
Manufacturer not found	2	R2001 794 04	-		2	Führungswagen	Bosch Rexroth		
Device not found	1	R2045 737 31	-		1	Führungsschiene	Bosch Rexroth		
	1	R2002 793 30	-		1	Führungswagen	Bosch Rexroth		
	1	R1673 503 41	-		1	Führungsschiene	Bosch Rexroth		
	1	R1671 593 70	-		1	Führungswagen	Bosch Rexroth		
	2	R114026010	-		2	Lineartisch	Bosch Rexroth		
	1	R146040500	-		1	Lineartisch	Bosch Rexroth		
Manufacturer not found	1	063 003354	-		1	Magnetventil	BUSCHUOST		
	6	786010-45	-		6	Maschinenfuß	Continental		
Device not found	8	786100	-		8	Megi-Maschinenf...	Continental		
	1	536237	-		1	Zylinder	Festo		
	1	536237	-		1	Normzylinder	Festo		

Excel\_parts\_list\_import\_4



Excel\_parts\_list\_import\_5

Possible errors during the Excel import you can find here: [Error in search of the MDM\\_Id](#) Fehler beim Sror\_in\_search\_of\_the\_MDM\_Id\_uhen der MDM-Id (Zuordnungsinfo)

### 2.5.7.5 MDM Id assignment information

While searching the MDM-Id based on the imported data the following errors may occur. They are displayed int the column "MDM Id assignment Info":

- **Invalid MDM Id**

If the "MDM-Id (import)" is not empty but not exists in the MDM.

- **Manufacturer not found**

In "manufacturer (import)" a manufacturer is listed not existing in the MDM. (The spelling of the manufacturer is regarded).

- **Article number missing**

"Order number (Import)" is empty.

- **Device not found**

In the MDM no device could be found with corresponding information "manufacturer (import)", "order number (import)" and "article / type (import)"

- **Device not unique in MDM**

Devices in the MDM were found but not decidedly - an assignement was not possible.

If the search was successful the reason for this will be displayed as follows:

- **found if: Order number (import) = order number**

The device was found based on the order number.

- **found if: Order number (import) = article / type**

The device was found because the imported order number was found clearly recognizable in a MDM device in the column "article / type".

- **found if: Article / type (import) = order number**

The device was found because the imported article / type was found clearly recognizable in a MDM device in the column "order number".

Please note that always only one error message is displayed although several errors occurs.

## 2.5.8 Tokens

Before placement of the project order the corresponding users (suppliers) may be granted access to the approved components of a project structure via a specific authorization key (token). This access can be used, for example, to work out an offer. Tokens are time-limited permissions to access component data of a project structure that are normally not accessible for these users on the basis of the authorization system.

Via the ribbon tab „View“ and the selection of the corresponding structural elements in the project structure existing tokens and a list of the tokens' addressees can be displayed after activation of the tab „Token“. The buttons in the ribbon tab “Actions” can be used to generate new tokens, delete tokens or copy them to the clipboard. From the clipboard the tokens can, for example, be inserted in an e-mail programme and sent.



**2.5.8.1 Token detailed view**

By double-clicking on the individual tokens you can open the detailed views where you can edit the entries for the columns “Description (multilingual)”, “Designation”, “Valid to”, “Is expired” and “Is inactive”.

The entries for the columns “Created on/at”, “Created by” and “Token” are generated by the system. The entry in the column Token (e.g. 5a608882-2c04-4d94-891f-28eaab37c1c6) can be copied to the clipboard via the respective ribbon and then sent to the addressee by e-mail.

**2.5.8.2 Display components assigned to token**

As soon as the addressee has received a token (e.g. 5a608882-2c04-4d94-891f-28eaab37c1c6), he can via the menue “View – display components assigned to token”, copy this entry into the field “Token” and have the components assigned to the token displayed.

In the field "Token" a list of already existing token is displayed. The token are displayed while they are expired or set on the status "inactive".

In addition, the name and the long text referring to a token are displayed in the ribbon area.

**2.5.9 Quick administration (structural elements of a project)**

Via “Quick administration” authorizations can be granted for this structural element. The following authorization roles are available for this purpose:

- Operator roles
  - Node Manager
  - User - Read Only- user
  - Read / Write
  
- Supplier roles
  - Supplier Manager
  - User - Read Only- user
  - Read / Write

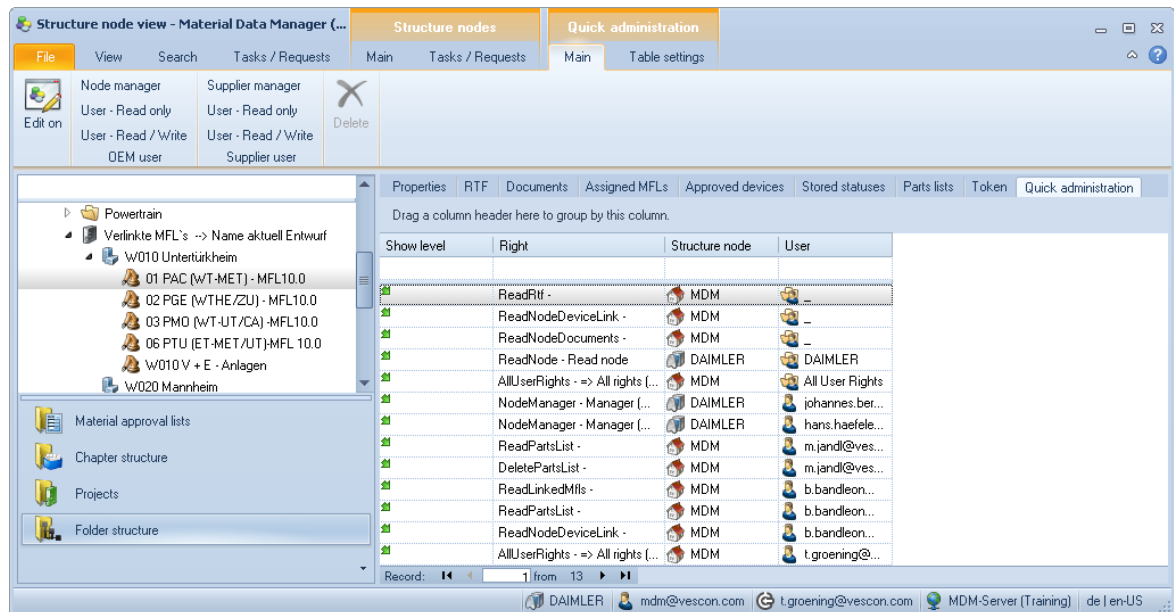
	<b>OEM - ReadOnly</b>	<b>OEM - ReadWrite</b>	<b>OEM - NodeManager</b>	<b>Supplier - ReadOnly</b>	<b>Supplier - ReadWrite</b>	<b>Supplier - Manager</b>
<b>Properties</b>	Read	Read / Write	Read / Write	Read	Read	Read
<b>Properties (Enhanced Area)</b>	Read	Read / Write	Read / Write	Read	Read	Read



RTF	Read	Read / Write	Read / Write	Read	Read	Read
Documents	Read	Read / Write	Read / Write	Read	Read	Read
Assigned MFLs	Read	Read / Write	Read / Write			
Approved devices	Read	Read / Write	Read / Write	Read	Read	Read
Stored statuses	Read	Read / Write	Read / Write	Read	Read	Read
Parts lists	Read	Read / Write	Read / Write	Read	Read / Write	Read / Write
Token			Read / Write			
Quick administration			Read / Write			Read / Write

The write permission does not refer to the component data, but to the respective project structure and its tabs. A manager is authorized, for example, to add more users via the quick administration or to delete existing users.

To each role several individual permissions are assigned.



Quick administration



## 2.6 Structure element detail view

In this form the attributes of a structure element are displayed.

This attributes can be edited depending on the users rights.

Grayed out attributes can not be edited.

## 2.7 Favorits

Favourites can be defined in the Structure view / tab "main" / group "favourites". The following features are available:

- **Add**

The currently marked structure element is added to the favourites list.

- **Delete**

The currently marked structure element is deleted from the favourites list.

- **Favourites filter**

By the favourites filter the structure view displays only favourites - this feature is also available in other windows concerning the structure view.

- **Display**

A list of the favourites is displayed.

## 3 Components

In the view "Components" all component data records existing in the MDM can be listed.


To avoid long response times, the desired manufacturer should be selected in the ribbon tab "Search manufacturer". Via the function "Display" the component data of the selected manufacturer are displayed. The component data of all manufacturers are listed by a click on "Display all components".

Via "Search for MdmId" component data records can be searched for with the help of their MdmId, i.e. the data record number which the system automatically assigns to a newly created entry. If several data records are searched for, the different MdmIds can be separated by ",", e.g. 3,12,2065. Through activation of the function "Display" the component data are displayed.

By a double-click on a component data record or a click on the button „Details“ a detailed view can be opened.

### 3.1 Components / data record description

A data record in the MDM is a component or an order unit with a distinct order or article number and a corresponding description. In the MDM each data record exists only once.

	<p><b>Attention!</b></p> <p>Users are exclusively responsible for content and technical correctness of the records!</p>
---	---

If in the following activities are described that are relevant for data consistency and safety, this attention signal will alert the user to it.



In all structure views the data records assigned to the respective structure elements are listed in a table via the tab “Approved components“. The lines contain one complete data record each and the columns the corresponding data fields. The columns can be edited according to the well-known Excel functionality, data records can be sorted, selected and grouped via the data fields.

If a selection arrow appears at the right end of the field, the field contents can be viewed in a table stored there.

The field names for “Designation“, “Technical description“ and “Comments“ are highlighted selection buttons; a mouse-click on these buttons opens a window with entries in the selectable languages German, English, French and Hungarian.

The contentwise related data fields are summed up in the window „Component details“ in the individual tabs. The register contains the following data:

**General attributes:**


Field name	Contents	Example	Mandatory field
Manufacturer	Component manufacturers of devices or materials who are managed in an independent table. The contents is displayed in CAD evaluations (e.g. device lists). On the left in front of the manufacturer’s name a symbol with the following meaning is displayed:	Siemens	yes
Manufacturer supplement	A manufacturer can give further information		
Range of functions	Range of functions Premium, Limited or Undefined. see also range of functions	 Premium	
Order number	Order number of a device or materials which, depending on the manufacturer, may be identical with the type name.  	XCKJ110513H 29	yes



	Changes of the order numbers may have direct effects on the existing order processes! New components must never be created by changing the order number! (see also Predecessor / Successor) Contents is displayed in CAD evaluations (e.g. device lists).		
Type of article	Type number of device or material which may be identical with the order number depending on the manufacturer. Contents is displayed in CAD evaluations (e.g. device lists).	XCKJ	
Type/series	Definition of series. Thus associated components can be grouped manufacturer-specifically in tables.	Harmony style 4/5	
Designation	Designation of devices and materials managed in independent tables and serving as an additional structure. Also selectable in English, French and Hungarian!	Limit switch	
Status	Status of the data record: Active, Temporary (if in workflow " Apply for new device" still in process), Blocked (see below field Note) or Erroneous	active	
Length	Length of a cable or a pipe in m	10	
Width	Width of the device or material in mm	20	
Diameter	Diameter of the device or material or the bore hole in mm	30	
Height	Hight of the device or material in mm	40	
Packing unit	Number of devices / materials per order/packing unit	50	
Depth	Depth of the device or material in mm	60	
Certificate CSA	CSA/CSA-NRTL approval (Canadian Standard Association) Certification procedure according to North American standards for electrotechnical products.	Yes (default); No; N/A, not needed	
Certificate CCC	CCC-approval (China Compulsory Certification) The CCC-certificate is the Chinese compulsory certificate for various groups of products, in particular technical and electronical products and products in the automobile industry.	Yes (default); No; N/A, not needed	
Certificate UL	UL/C-UL approval (Underwriters Laboratories)	Yes (default); No;	





	Certification procedure according to North American standards for electrotechnical products.	N/A, not needed	
Certificate CE	CE marking („Communautés Européennes“) Signifies that a product complies with the requirements of the European Union imposed on the manufacturer.	Yes (default); No; N/A, not needed	
Standard	Standard concerning the device	ISO adc 123	
Denomination	Denomination from the manufacturers catalogue	special equipment abc	
Performance level	This terms is defined in the norm (DIN EN ISO 13849) and means "probability of a dangerous failure in hours.		
List price	List price in germany in Euro.		
Technical description	Description of devices and materials with their technical specifications. This field contains all major attributes ; as a rule, the basis for the description is the manufacturer's catalogue. Syntax rule: the technical description always starts with the correct order name of the component. Word-wrapping and blank lines are not allowed to avoid excessive field lengths, abbreviations are not allowed to guarantee better readability and clarity. Contents is displayed in CAD evaluations (e.g. device lists). Also selectable in English, French and Hungarian!	Circuit breaker yes for motor protection Size S2; 16A; 50kA Rated operating current [A]: 16 Rated operating power [kW]: 7,5 Setting range [A]: 11-16 Size: S2	
Note	Notes on the data record management, e.g. reasons for blocking a data record.	***Block DS*** Successor defined	
Comment	Comments on the component not belonging to the technical description. Also selectable in English, French and Hungarian!	At the moment instructions for use are available	
Documents	Documents or internet links with additional information. 	XCKJ.2pdf  <a href="http://www.vescon.com">www.vescon.com</a>	



	When using internet links the users have to update any change in the data structure in order to be still able to access the stored information any time!		
--	--	--	--

**Life cycle data**

**These data fields are subject to specific read and write permissions!**

Field name	Contents	Example	Mandatory field
Availability of spare parts	How long will the component still be available as a part (spare part) after “End of active sales“? The time value of the availability of spare parts after termination of active sales. For PC components this can be 5 years, for the current standard 10 years and for an increased supply reliability 20 years.	5, 10, 20 years	
Service life	The period of time when the component has not yet reached the wearout phase with a strongly increasing failure rate – it has to be indicated for all safety-relevant components. Quotation: DIN EN 13849-1: 3.1.28 (service life = TM) ... period of time that covers the designated usage of a safety-relevant part of control systems. ...	20 years	
Repair code	Is the part currently still available? Is the part still available as a spare part? Is the part available as a spare part only in exchange? Is the part only repairable? (no exchange part available)		
Start of sales	Point of time when the component started to be sold		
Invitation for a last-time buy	The manufacturer foresees that the component will shortly be available only as a spare part and offers the customer to take spare parts on stock. In addition, it is indicated that the component is no longer supposed to be used for new projects.		



	As a rule, the successor product is already on the market.		
End of active sales	The component is only available as a spare part, in case a spare part is needed.		
End of spare part sales	The part can no longer be repaired.		

**CAE**

Field name	Contents	Example	Mandatory field
TD1	Placeholder 1 for technical data for entry in the documentation The contents of this column is transferred to specific text placeholders in the CAD (for terminals also as an entry in the terminal diagram).	bl	
TD2	Placeholder 2 for technical data for entry in the documentation The contents of this column is transferred to specific text placeholders in the CAD.		
TG1	Address of the functional object in the CAD system RUPLAN (Mapping of the data record in the CAD system)	H11502A0	
TG2	Alternative address of the functional object in the CAD system RUPLAN (Mapping of the data record in the CAD system)		
TG3	Alternative address of the functional object in the CAD system RUPLAN (Mapping of the data record in the CAD system)		

**DAIMLER-specific fields**

**These data fields are subject to specific read and write permissions!**



Field name	Contents	Example	Mandatory field
Item number W010 - W371	Data fields for operator-specific information (e.g. plant-specific or cross-plant stock numbers)	Y700009461993	
SRM-Item number	Data fields for operator-specific information (e.g. plant-specific or cross-plant stock numbers)	QEV111ABAB GY	

### Data record informationen

Field name	Contents	Example	Mandatory field
Created on/at	Date and time of creation of the data record	26.04.2007 14:34	
Created by	User who created the data record	mdm@vescom. com	
Changed on/at	Date and time of change to the data record	26.04.2007 14:34	
Changed by	User who changed the data record	mdm@vescom. com	
MDM-ID	Internal data record number for unequivocal identification of the data record. Corresponds to the assigned address in the CAD/CAE. After the minus the current version number follows. After positive QS check by VESCON in whole numbers.	5421 - V0.2	

### Tab "Consists of" in detail view of device groups

In this device list parts from the MDM and also parts not listed in the MDM can be added. The columns "E/V" and "Count" can be edited.

### Level of data detail

In the field of electrical engineering all components that are evaluated in an item, device or cable list of the CAD-/CAE system have to be entered with all details including order number. For all other components a superordinated entry (e.g. Type) can be made instead, with the individual order numbers having to be listed in the field "Documents" or stored as a data attachment.

## 3.2 Usage of components

Several fields are used for the CAD interfaces:



**Eplan P8:**

**Schnittstellenbeschreibung Eplan P8 - MDM-Schnittstelle /Version 1**

CAD-Geräteliste	MDM-Datenfeld	Eplan P8	Eplan P8 Property	
			Field	Description
Technische Beschreibung	Technische Beschreibung	Projekt-Artikel / freie Eigenschaft 95	22147_[95]	Mdm.Description
	MDM-ID + Freigabeinformation	Projekt-Artikel / freie Eigenschaft 89	22147_[89]	Mdm.Description2
	(Nachfolger MDM-ID)	Projekt-Artikel / freie Eigenschaft 81	22147_[81]	Mdm.Successor.Description
	Bezeichnung (bei Neutralisierung)	Projekt-Artikel / freie Eigenschaft 96	22147_[96]	Mdm.DeviceType
	herstellernerutral (bei Neutralis.)	Artikelreferenz / Ben.Zusatz.Feld 1	31070	Mdm.herstellernerutral
	Text für Beistellungen	Artikelreferenz / Beschaffung	20911	
	(Flag für Beistellungen)	Artikelreferenz / Ben.Zusatz.Feld 4	31073	Mdm.Beistellung
	(Optionen für Neutralisierung)	Artikelreferenz / Ben.Zusatz.Feld 5	31074	Mdm.Neutralisierung
	Status (aktiv/gesperrt/fehlerhaft)	Projekt-Artikel / freie Eigenschaft 98	22147_[98]	Mdm.Status
	(Flag keine Freigabe)	Projekt-Artikel / freie Eigenschaft 86	22147_[86]	Mdm.IsNotApproved
Hersteller	Hersteller	Projekt-Artikel / freie Eigenschaft 92	22147_[92]	Mdm.Manufacturer
	(Nachfolger Bestellnummer)	Projekt-Artikel / freie Eigenschaft 82	22147_[92]	Mdm.Successor.Manufacturer
Typ	Artikel-Typ	Projekt-Artikel / freie Eigenschaft 94	22147_[94]	Mdm.Type
	(Nachfolger Typ)	Projekt-Artikel / freie Eigenschaft 84	22147_[84]	Mdm.Successor.Type
Bestellnummer	Bestellnummer	Projekt-Artikel / freie Eigenschaft 93	22147_[93]	Mdm.ArticleNumber
	(Nachfolger Bestellnummer)	Projekt-Artikel / freie Eigenschaft 83	22147_[93]	Mdm.Successor.ArticleNumber
Identnummer	Werkspez. Sachnummer	Projekt-Artikel / freie Eigenschaft 87	22147_[87]	Mdm.IdentNumber
	MDM-ID (Mapping)	Projekt-Artikel / freie Eigenschaft 91	22147_[91]	Mdm.DeviceId
	TD1	Artikelreferenz / technische Kenngr.	20027	
CAD-Projekt	MDM-Datenfeld	Eplan P8	Eplan P8 Property	
			Field	Description
	(eingest. Sprache Techn. Beschr.)	Benutzer Zusatzfeld 90	40090	Mdm.Language
	(eingest. Identnummer)	Benutzer Zusatzfeld 98	40098	Mdm.IdentField
	(MFL-Name)	Benutzer Zusatzfeld 99	40099	Mdm.MflName
	(MFL-ID)	Benutzer Zusatzfeld 100	40100	Mdm.MflKey

**Schnittstellenbeschreibung\_Version\_1**

**Schnittstellenbeschreibung Eplan P8 - MDM-Schnittstelle /Version 2**

CAD-Geräteliste	MDM-Datenfeld	Eplan P8	Eplan P8 Property	
			Field	Description
Technische Beschreibung	Technische Beschreibung	Projekt-Artikel / Beschreibung	22009	
	MDM-ID + Freigabeinformation	Projekt-Artikel / Beschreibung	22009	
	Bezeichnung (bei Neutralisierung)	Projekt-Artikel / Bezeichnung 1	22004	
	Text für Beistellungen	Artikelreferenz / Ben.Zusatz.Feld 3	31072	MDM.ATTRIBUTE_SUPPLIER
	(Flag für Beistellungen)	Artikelreferenz / Ben.Zusatz.Feld 2	31071	MDM.ATTRIBUTE_MANUFACTOR_NEUTRAL
	Status (aktiv/gesperrt/fehlerhaft)	Projekt-Artikel / freie Eigenschaft 93	22147_[93]	MDM.BLOCKSTATE
	(Flag keine Freigabe)	Projekt-Artikel / freie Eigenschaft 86	22147_[86]	MDM.APPROVED
Hersteller	Hersteller	Projekt-Artikel / Hersteller	22007	
Typ	Artikel-Typ	Projekt-Artikel / Typenbezeichnung	22002	Mdm.Type
Bestellnummer	Bestellnummer	Projekt-Artikel / Bestellnummer	22003	Mdm.ArticleNumber
Identnummer	Werkspez. Sachnummer	Projekt-Artikel / freie Eigenschaft 94	22147_[94]	MDM.IDENTNUMBER
	MDM-ID (Mapping)	Projekt-Artikel / freie Eigenschaft 91	22147_[91]	MdmId
		Artikelnummer	22001	
	Höhe	Projekt-Artikel / Höhe	22012	
	Breite	Projekt-Artikel / Breite	22013	
	Tiefe	Projekt-Artikel / Tiefe	22014	
	TD1	Projekt-Artikel / technische Kenngr.	22017	
	Typ/Baureihe	Projekt-Artikel / Funktionsgruppe	22026	
	Dokumente	Projekt-Artikel / Ext. Dokument 1	22149	
	Aktualisiert am	Projekt-Artikel / letzte Änderung	22901	
CAD-Projekt	MDM-Datenfeld	Eplan P8	Eplan P8 Property	
			Field	Description
	(eingest. Sprache Techn. Beschr.)	Benutzer Zusatzfeld 90	40090	Mdm.Language
	(eingest. Identnummer)	Benutzer Zusatzfeld 98	40098	Mdm.IdentField
	(MFL-Name)	Benutzer Zusatzfeld 99	40099	Mdm.MflName
	(MFL-ID)	Benutzer Zusatzfeld 100	40100	Mdm.MflKey

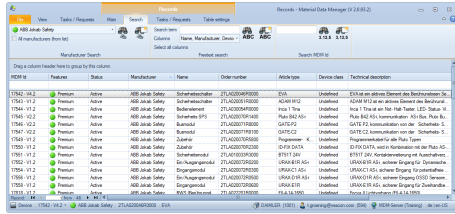
**Schnittstellenbeschreibung\_Version\_2**

**RUPLAN:**



### 3.3 Search

By clicking on "View" - "All devices" first the Ribbon Tab "Search" is displayed, where you can search components in three groups:



search

- **Search manufacturer**

components of one manufacturer or components of all manufactures

- **Free text search**

here, the text that has been entered is searched for in the selected columns and the retrieved devices will be displayed in a list. At least three characters are requested!

- **Search MDM-ID**

here, you can directly search for devices by entering one or several different MdmIds, separated by “,”. The retrieved devices will be displayed in a list.

A new separate window can be displayed while pressing <Ctrl> when starting a new search.

**Attention!** The search refers to all components listed in the MDM and not only to components with approvals in certain structure elements!

### 3.4 Functions / Features

#### 3.4.1 Create new component

For creating a new component directly in the MDM special permissions are required.

New components can be created in the view “Components” or “Manufacturers components” via the command “New component“. In addition, it is possible to duplicate a component which has been opened in the detailed view.

#### 3.4.2 Change device in device group

With this feature a device can be transformed in a device group or

a device group can be transformed in a device. Attention! By doing so the device list "Consists of" gets lost!

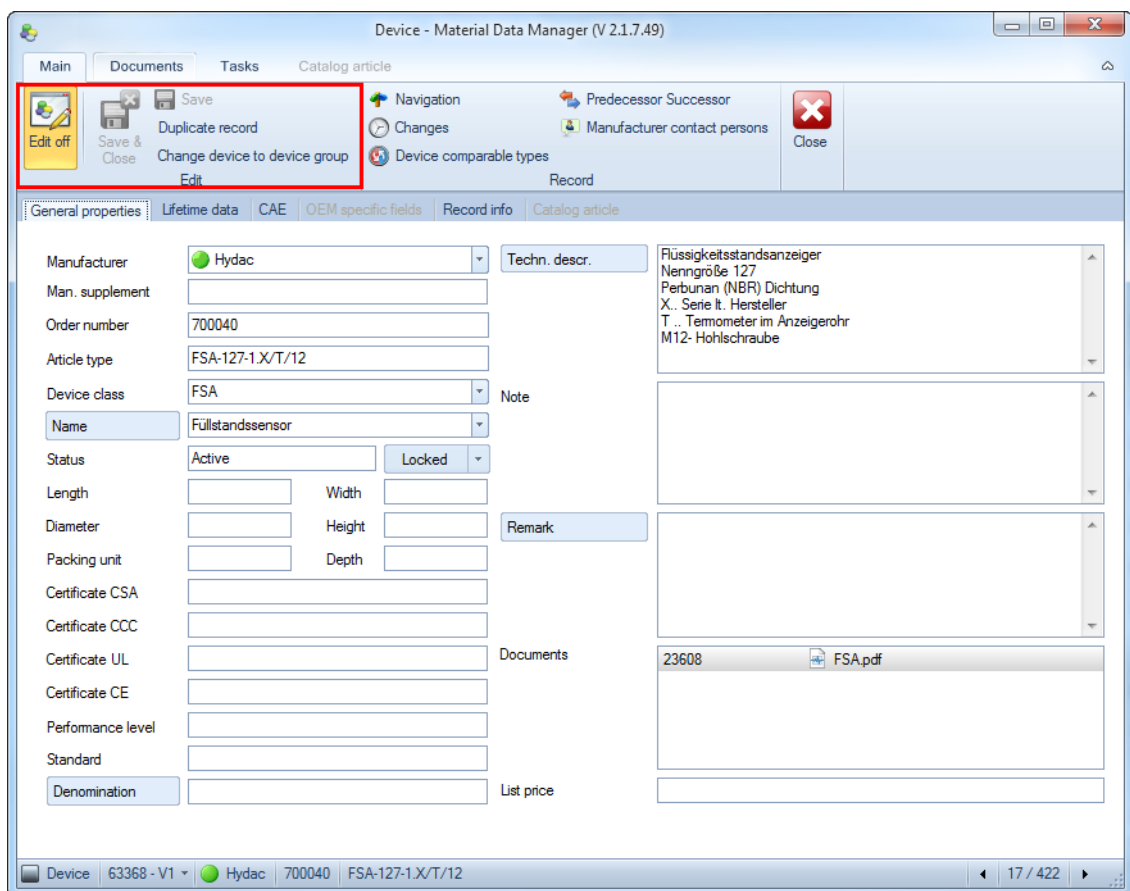
Creating a device group means that it's possible to assign to the (major-) device other MDM devices or free edited devices.

Functions and features of device groups are identically equal to devices (excepting requests / workflow).

Device groups can be displayed in MDM parts lists resolved into their components.

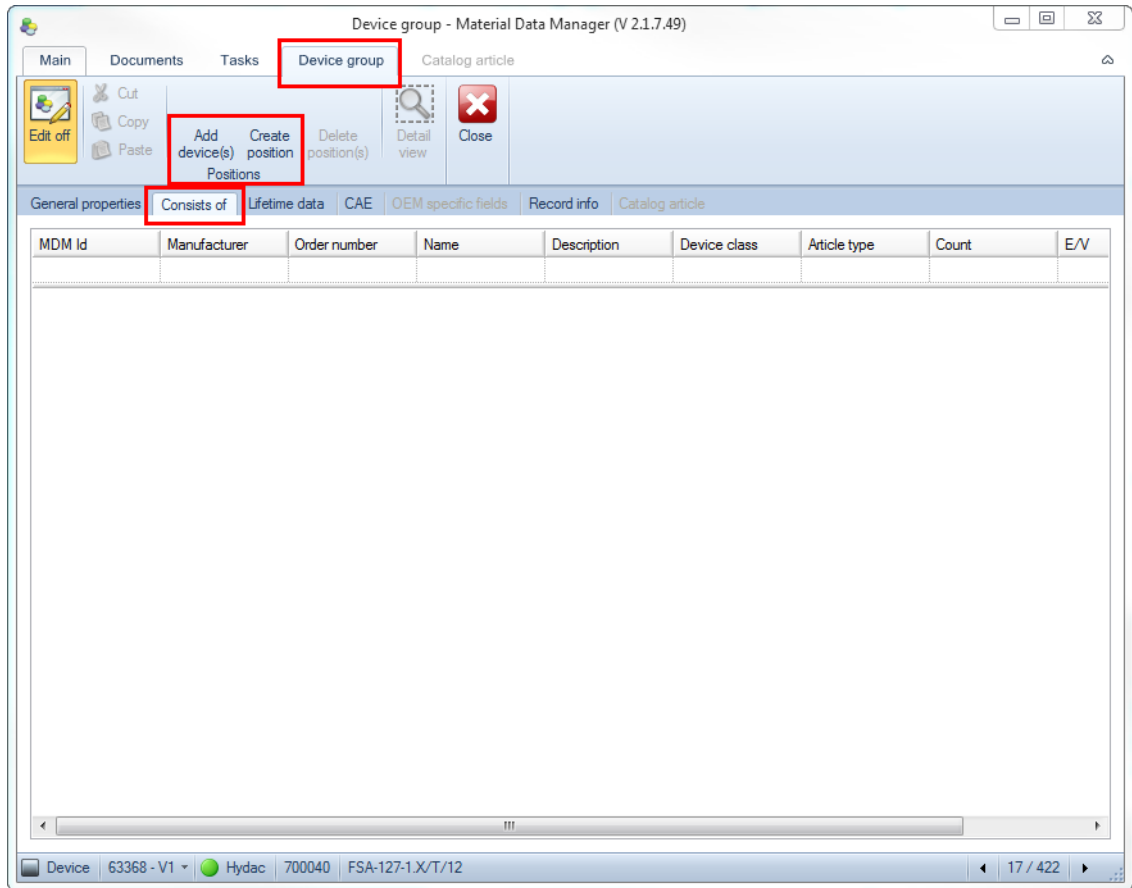
### Transforming devices into device groups:

1. Open the device by double click and click on the buttons "Edit on" and "Change device into device group"



Device\_Device\_Group\_1.png

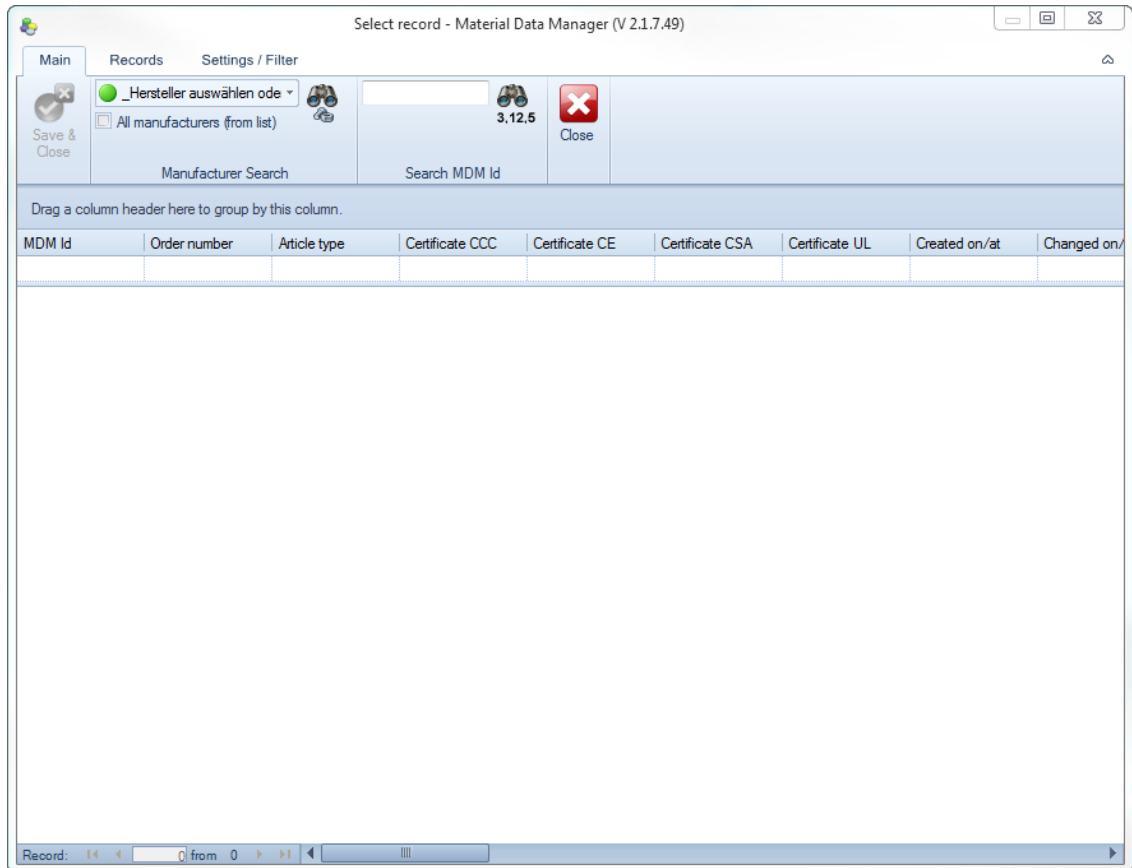
2. Click on the registers "Consists of" and "Device group" and the buttons "Edit on" and "Add device" or "Create position"



Device\_Device\_Group\_2.png

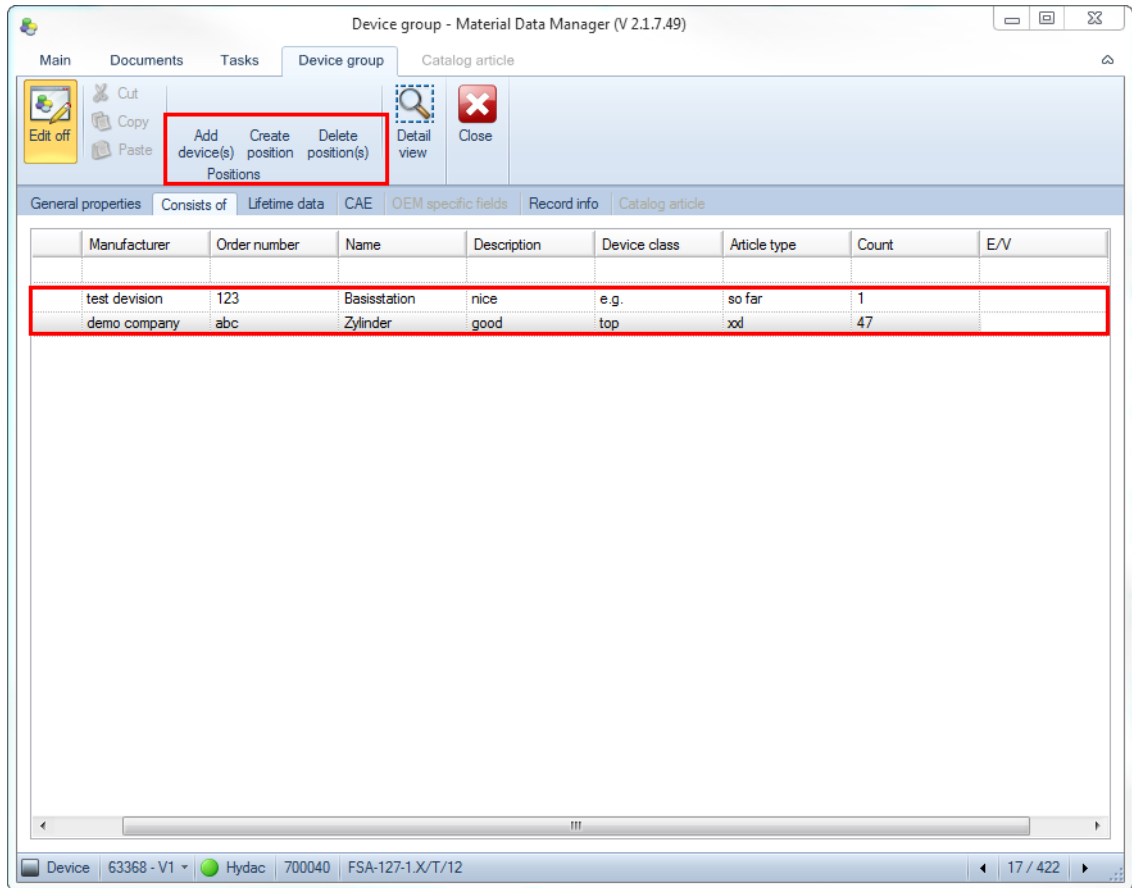
"Add device" opens the selection dialogue for MDM devices as usual





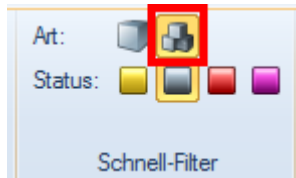
Device\_Device\_Group\_3.png

"Create position" opens new table rows which allow to create new unrestricted positions / components / devices (not yet present in the MDM) Attention! Device groups must contain at least two components!



Device\_Device\_Group\_4.png

3. Confirm all dialogues "Save changes". Advice: By the quick filter "Filter device group"



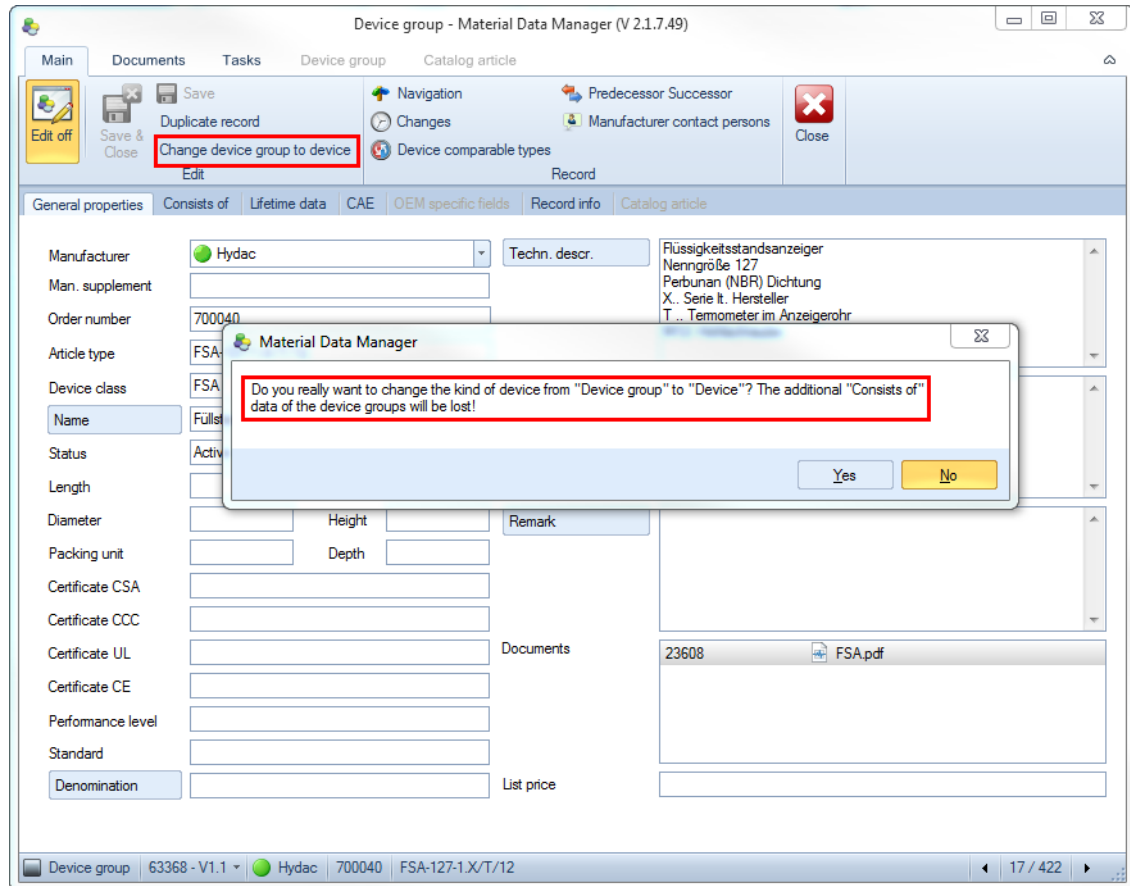
uteil\_Baugruppe\_Schnellfilt

device groups can be masked in or out.

**Change device group into device:**

**Attention!** By doing so the device list "Consists of" gets lost

1. Open the device by double click and click on the buttons "Edit on" and "Change device into device group"



Device\_Device\_Group\_5.png

2. Confirm the message.

### 3.4.3 Detailed view

In a component list the "Detailed view" of a component is opened via the icon in the ribbon or by a double click.

Depending on permission or work step the data are either displayed or can be edited. The data are entered in the fields or selected from the list fields; by a click on the buttons entries can be collected or selected in several different languages.

- General attributes:

In the area "General attributes" general data and information referring to a component are collected and displayed. The contents referring to the fields "Manufacturer", "Designation" and "Type/series" are selected from lists.

The data contents referring to the fields "Technical description" and "Comments" can be entered in different languages after a click on the coloured field name.

The data in the tab "General attributes" are readable for all users.



- Life cycle data:  
In the tab "Life cycle data" specific information on the obsolescence management are stored, for example availability of spare parts or end of spare part sales. These data fields are only visible to the respective component manufacturer and the operator.  
See also: <http://de.wikipedia.org/wiki/Obsoleszenz>
- CAE:  
The tab "CAE" provides data that are used via the CAD interface. Entries in the fields "TD1" and "TD2", for example, are written at icons in the circuit diagrams. These are, for example, performance values of motors or the amperage of protective devices (fuses).
- DAIMLER-specific fields  
In this tab operator-specific data are stored. These are normally stock numbers referring to components in the individual plants/locations.
- Data record information  
In the tab "Data record info" the creator of the respective data record, the date of creation and the last editor with the date of update are displayed.

Scrolling in the detail view of components is possible without closing of the detail view.

### 3.4.4 Navigation

When in the ribbon the icon "Navigation " is activated for a component in a component list, a window will open displaying the following information on this data record.

- Assigned chapters
- MFL approvals
- Predecessor / successor
- Comparison types
- Valid parts lists

If you click on the icon "Go to ...", a new window will open displaying the structure view of the corresponding structure element or parts list.

- Via "Structure node" you will get directly to the structure element
- Via "Structure node / device" you will get directly into the tab "Approved components" in the respective structural element and find the selected component
- Via "Parts list" you will get directly into the tab "parts lists" of the corresponding project structural element.

By clicking on the button "Detail view" the detail view of the structure element is displayed.

### 3.4.5 Changes

When in the ribbon the icon „Changes“ is activated for a component in a component list, a window will open displaying the change history of this data record. Changed data fields are marked yellow. It is also possible, however, to have only those marked data fields displayed that have been changed.

By a click on the icon “Detailed view (changes)” the detailed view of the component or the universal approval is displayed. The data record cannot be edited here.

#### **Caution!**

As this function will store further data as from MDM version 2.x, it may happen that changes of a data record made before this point in time will not be displayed completely. It is also possible that you do not have all the permissions required to view the whole data content and thus will not be able to view its changes either.

### 3.4.6 Predecessor / Successor

As a result of the technical development or modification of devices or materials existing components are constantly replaced by new ones. The definition of predecessors and successors through the users is only possible for premium data records. These predecessor / successor relations are represented in the MDM as follows:

Predecessor – Successor

For the device of a component manufacturer a successor is supposed to be defined. This is done by marking the respective component and selecting the function “Predecessor / successor”. In the window that follows the window “Select component ...“ is opened by a click on the button “Add successor...” and the successor is selected.

If a successor for a component with MFL approvals is defined, applications for approval will automatically be made for the successor - only for MFLs with the status "approved".

If the control boxes mentioned below have been ticked, this means:

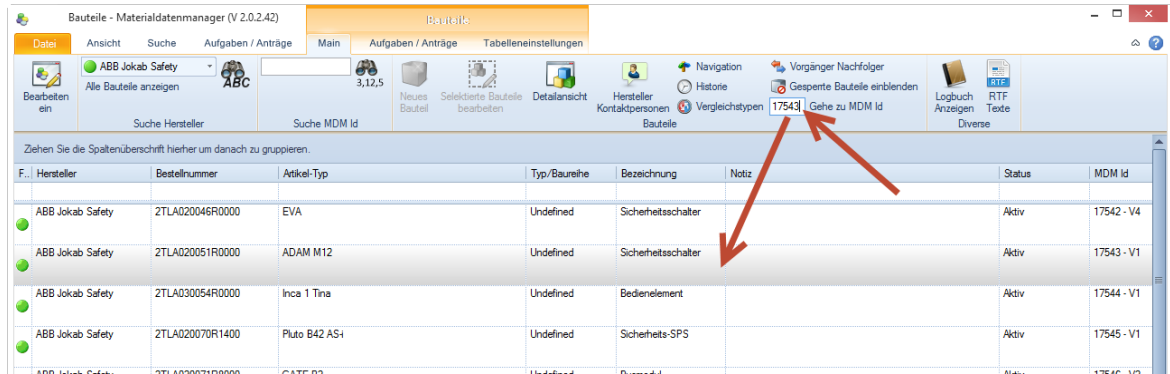
- Mechanical interface  
Installation position, external dimensions,... are the same as the predecessor's
- Electrical interface  
The electrical connections, the signals, the connector face, ... are the same as the predecessor's



- Software interface  
The software that has been used up to now, parameter list, ... are the same as the predecessor's
- User interface  
The device is operated in the same way as the predecessor.

### 3.4.7 Go to MDM Id

Marks in device lists the record assigned to the MDM Id.



Go to MDM Id

### 3.4.8 Comparison types

Up to now, comparison types have been defined for terminals only.

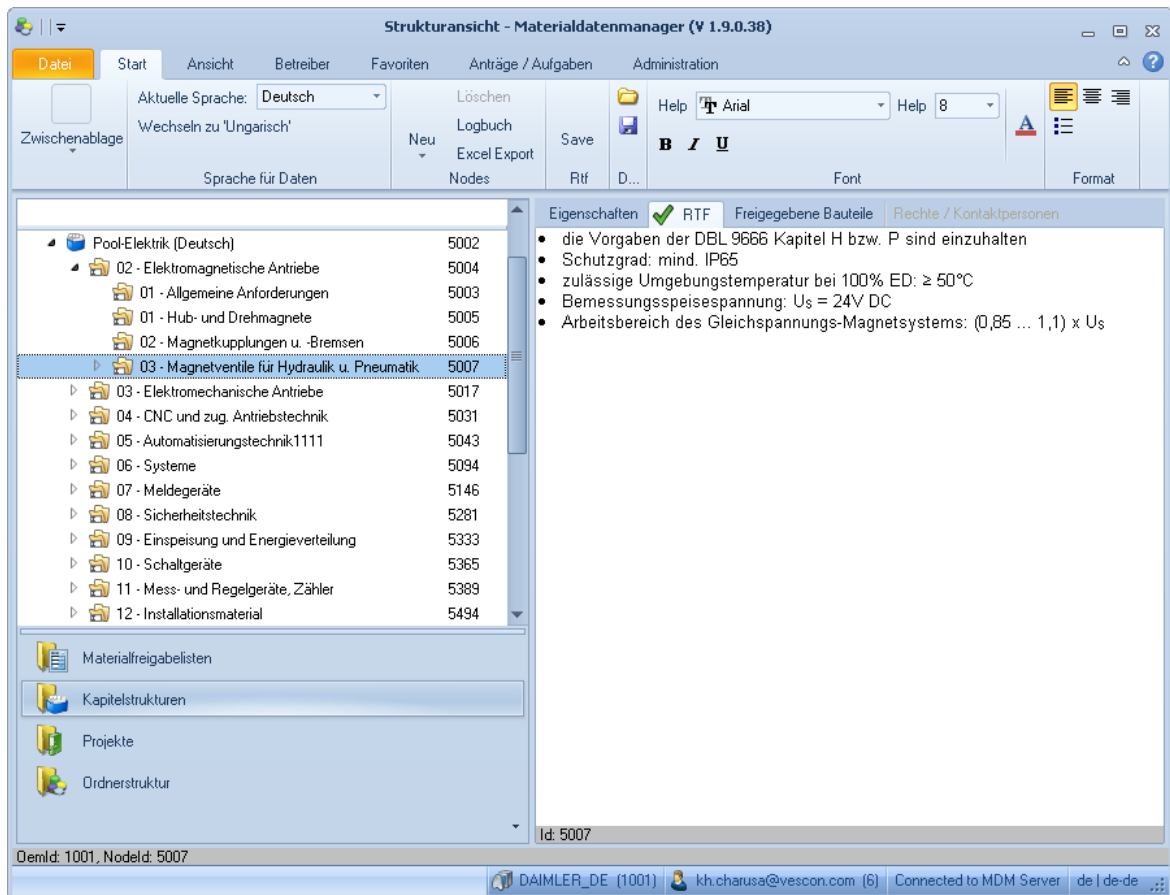
If data records have been defined for comparison types, the components defined in this comparison type will be displayed in item list evaluations as a consequence.

### 3.4.9 RTF

In the tab "RTF" (Rich Text Format) further explanatory texts referring to a structural element can be entered and the contents of other RTF documents can be copied in.

The standard functions of a text editor – selection of the font type, font style, size, emphasis and paragraph format – are available.

Structural elements with defined RTF texts are marked by "=> RTF".



RTF

### 3.4.10 Logbook

The logbook is used to store information on a structure node or a device. This information is stored as an RTF text.

As a rule, it is only the creator who can see this information, but he may also authorize other users via the function “Rights for entry” in the tab “Rights”. In addition, the creator has the option to generally grant other users the rights for any structure nodes, devices and entries for which he himself is authorized via the function “Default rights” in the tab “Rights”.

All own and all assigned entries can be displayed by a function in the ribbon “Logbook”.

### 3.4.11 Mass data processing

For processing huge amounts of data records quickly, effectively and, what is most important, according to the conventions the MDM provides various tools. These functions can only be accessed in the view “Components”.



In order to be able to edit several components via the mass data processing function, you have to select the components in the components view and open the window for the mass data processing via “Edit selected components“. There you can select the corresponding function for the mass data processing.

The functions for the mass data processing always refer to only one column and only to the selected data records.

#### **3.4.11.1 Mass data – set value**

Via the function “Set value” you can set an identical value in one/a column of all selected data records.

This function is available for all pure text fields and in the list fields (e.g. “Manufacturer”, “Type/series”) in the component data record.

As to the column “Manufacturer” you have to consider that only the new value for a premium manufacturer can be changed.

As to the column “Type/series” you have to consider that only components of identical manufacturers can be marked, as entries in this column are always assigned to one and the same manufacturer.

Via the checkbox in the first column you can deselect those data records which are not supposed to be changed by this function.

The value of the column before execution of the function is displayed in “Original value“. The “New value” is represented in the column of the same name. The lines which have been changed by the function are marked red.

#### **3.4.11.2 Mass data – clear-up**

With the help of this function you can clear up undesired formattings.

The following functions are available:

- Delete word-wraps at the beginning
- Delete word-wraps at the end
- Replace CR by CRLF
- Delete more than 3 blanks in a row



- Delete blank at the beginning
- Delete blank at the end
- Replace CR / LF / CRLF by a selectable text

These functions are available for pure text columns only.

Via the checkbox in the first column data records which are not supposed to be changed by this function can be deselected.

The value of the column before execution of the function is displayed in “Original value“. The “New value“ is represented in the column of the same name. The lines which have been changed by the function are marked red.

#### **3.4.11.3 Mass data – add value**

With the help of this function you can add any text in several data records at the beginning or the end of a column – with or without word-wrap.

This function is available in pure text columns only.

Via the checkbox in the first column data records which are not supposed to be changed by this function can be deselected.

The value of the column before execution of the function is displayed in “Original value“. The “New value“ is represented in the column of the same name. The lines which have been changed by the function are marked red.

#### **3.4.11.4 Mass data – search and replace**

The command „Search and replace“ is used to search for identical items in selected data records and replace them.

This function is available in pure text columns only.

Via the checkbox in the first column data records which are not supposed to be changed by this function can be deselected.



The value of the column before execution of the function is displayed in “Original value“. The “New value” is represented in the column of the same name. The lines which have been changed by the function are marked red.

### 3.4.11.5 Mass data – spacing

This function allows the uniform formatting of data. This can be particularly helpful for written order numbers which have to be formatted consistently.

The function considers only numbers and letters of the original values. This means, for example, that out of ABC-123+A only ABC123A is used as an initial value. The original “pure” text (letters and numbers) is linked by the following functional characters.

Possible characters serving as functions are:

- \*: All characters following the \* are transferred
- #: Placeholder for a character
- \$: The character in this place will be replaced by the character entered next.

All other characters are transferred directly.

Here are some examples for illustration:

The following examples are based on the original text ABC-123+A.

After internal clear-up the text ABC123A remains.

This text will be transferred to a new value depending on the function:

Original	Function	Result	Comment
ABC123A	###-##/*	ABC--12/3A	
ABC123A	No: *	No: ABC123A	The No. is transferred from the function. Then the * follows which means that all characters from the original text are transferred.
ABC123A	No: ##-*	No: AB-C123A	The No. is transferred from the function. Then it is determined by ## that the first two characters are supposed to be transferred. Then a fixed character is transferred into the result by - and finally all remaining untransferred characters are transferred.

This function is available in pure text columns only.

Via the checkbox in the first column data records which are not supposed to be changed by this function can be deselected.

The value of the column before execution of the function is displayed in "Original value". The "New value" is represented in the column of the same name. The lines which have been changed by the function are marked red.

#### **3.4.11.6 Mass data – upper and lower case letters**

With the help of this function you can revise a text in terms of upper case or lower case letters.

This function is available in pure text columns only.

This is the way it works:

- The words are filtered out of all existing texts. This is done with the help of specific separators. By default the line break and the space character are used as separators, but you may as well determine one or several other separators of your own.
- You can then apply the actual functions to the selected columns of the resulting word list (checkbox in the first column).
- Via "Display in result list" the modified words are transferred into the result list. Here the individual lines can be checked before the actual transfer is executed.

Via the checkbox in the first column data records which are not supposed to be changed by this function can be deselected.

The value of the column before execution of the function is displayed in "Original value". The "New value" is represented in the column of the same name. The lines which have been changed by the function are marked red.

#### **3.4.12 Designation of components**

In the view „Designation for components“ you can define standard terms for identical component types which are then selectable via list fields. The terms can be entered in several different languages. These predefined designations are assigned to a component in the detailed component mask.

### **3.5 Description of components**

In the view „Designation for components“ you can define standard terms for identical component types which can be chosen via list fields. The terms can be entered in several different languages. These predefined designations are assigned to a component in the detailed component mask.



## 3.6 Status of components

Every data record (components, universal approvals, device group) has a specific status. By the status different features in the MDM are managed.

The following status are defined:

- temporary
- active
- blocked
- erroneous

### **Status "temporary"**

The status "temporary" appears, if components or device groups are requested during the workflow "request new device". The component or device group is "temporary" until the node manager approves it.

Attention! If the component or device group will not be approved, it will be purged in the MDM.

### **Status "active"**

"Active" is the normal status of a record or device group. "Active" components or device groups have the full functionality in the MDM.

### **Status "blocked"**

Records or device groups are usually blocked if the device or device group is not longer available or a successor is defined.

### **Status "erroneous"**

"Erroneous" components or device groups are ignored in the MDM. They cannot be approved in projects or MFLs and cannot be assigned in the CAD systems, whereby they are not considered in reports. Therefore it is only allowed to tag components or device groups as "erroneous", if it's necessary such as they are duplicated devices. If components or device groups were entered by mistake, they should be tagged as "blocked" and just not as "erroneous".

Certain features in the MDM are not available for "blocked" or "erroneous" records or device groups.

## 4 Universal approvals

Instead of MFL- or special approvals in projects for particular devices universal approvals can be defined by this feature in the MFL- or project structures.

The data fields are separated in two sections:

- Masking section: here the masking for the universal approval must be defined - no concrete data, but a masking in the fields "order number" and "article / type".  
Example: manufacturer = "Siemens", order number = "6ES7\*", article / type "\*" means: all Siemens devices beginning with the character string 6ES/.
- Describing section: here additional information can be entered.

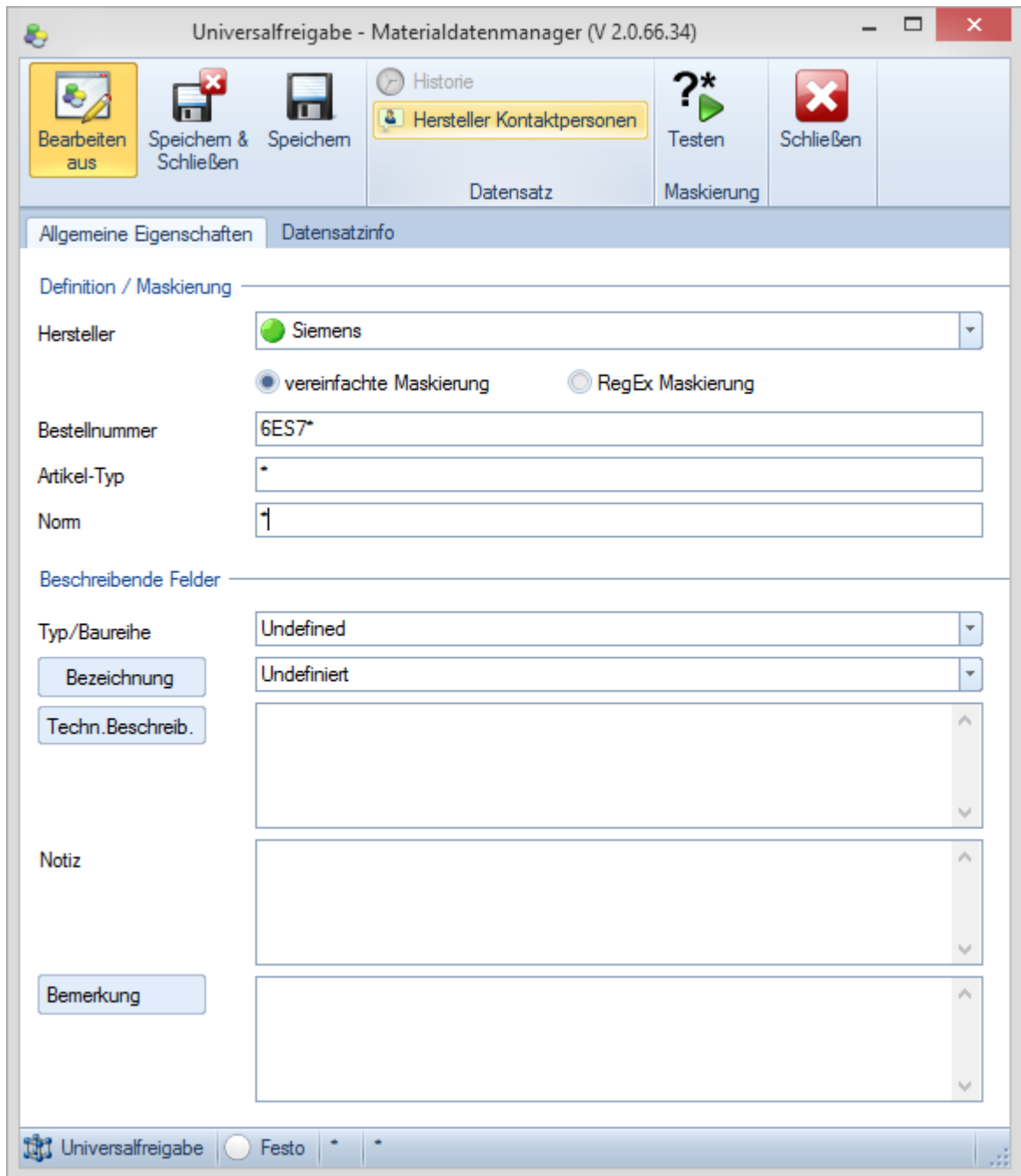
During the parts lists check as well the device approvals as the universal approvals are checked.

Creating and editing of universal approvals is only possible for plant operators.

## 4.1 Creating universal approvals

Universal approvals are created in the MFL- or project structure. In order to do so mark the MFL or the project and click on the register "Approvals" and the button "Add universal approval".

The fields in the dialogue must be filled out by a certain masking described [hier](#). This universal approval is valid only for the marked structure element.



Universal freigabe

## 4.2 Copying universal approvals

If an universal approval is copied (Copy & Paste or Drag & Drop) it must be decided, if this copy should be pasted in the structure element with or without a reference. "With reference" means:

- If the universal approval is a target data record (a link to the reference data is defined) the target data record can not be changed or edited. All changes of the reference data record will be transferred automatically to the target data record.
- If a reference data record is deleted all links to the target data records will be deleted - they are separate.

- A target data record can not be changed into a reference data record.
- It is not possible to delete a link between target and reference data record.

Will man eine Universal freigabe kopieren (Copy & Paste oder per Drag & Drop) wird beim Einfügen in das Strukturelement die Frage gestellt ob man den/die Universal freigaben mit oder ohne Referenz kopieren will

Mit Referenz bedeutet:

- Handelt es sich bei der Universal freigabe um einen Zieldatensatz (also es besteht eine Verknüpfung zu einem Referenzdatensatz) so kann der Zieldatensatz nicht geändert werden. Alle Änderungen am Referenzdatensatz werden automatisch auf den Zieldatensatz übertragen.
- Achtung! Wird ein Referenzdatensatz gelöscht werden alle Zieldatensätze auch gelöscht.
- Ein Zieldatensatz (Datensatz welcher bereits in Beziehung zu einem Referenzdatensatz steht) kann nicht als Referenzdatensatz herangezogen werden.
- Das Löschen der Verknüpfung vom Zieldatensatz zum Referenzdatensatz ist nicht möglich.

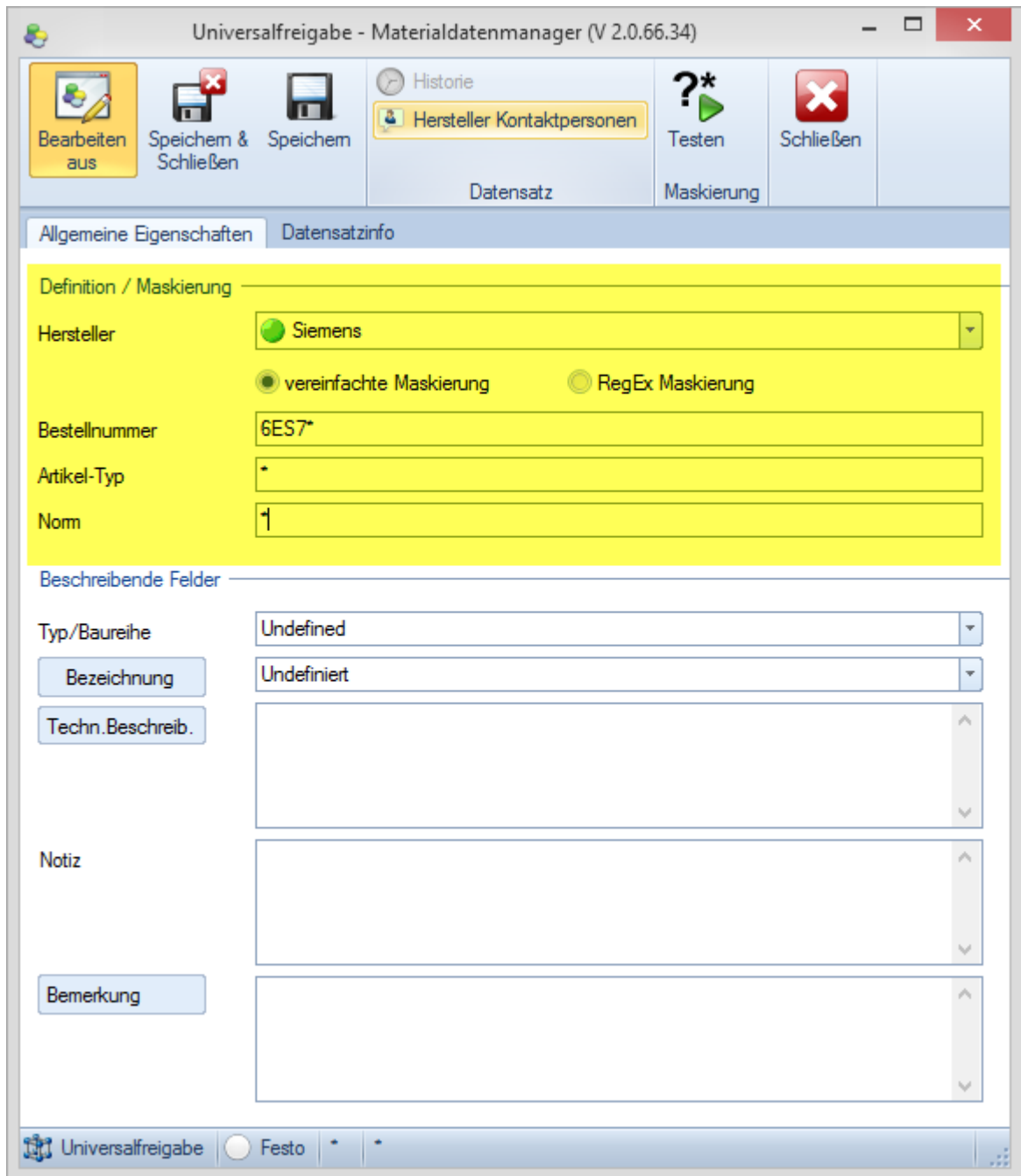
### 4.3 Deleting universal approvals

Wird eine Universal freigabe gelöscht, auf deren Definitionen Bauteile in Stücklisten freigegeben sind ist folgendes zu beachten:

- Die ID der Universal freigabe wird aus der Bauteilliste der betreffenden Stücklisten gelöscht
- Die Bauteile, die durch die gelöschte Universal freigabe freigegeben waren, haben noch immer den Status „freigegeben“
- Erst wenn die Stückliste erneut geprüft wird, sind die betreffenden Bauteile durch die gelöschte Universal freigabe nicht mehr freigegeben.

### 4.4 Masking

The mandatory fields "manufacturer", "order number", "article / type", "denomination" and "standard" must be filled out by masking.



**Maskierung der Universalfreigabe**

In the field "manufacturer" a certain manufacturer or the entry "manufacturer without indication of corporation" must be entered.

The masking of the fields "manufacturer", "order number", "article / type", "denomination" and "standard" offers two possibilities:

- simple masking
- RegEx masking





Usually the simple masking is sufficient. Tricky masking can be described by regular expressions (= RegEx; please find further information on the web <http://www.regexpr.com> ).

Simple masking:

The following wildcards are permitted:

- "\*" for any number of characters
- "?" for one character

Special characters are allowed but not relevant for checkings.

RegEx masking:

In the masking for "manufacturer", "order number", "article / type" and "denomination" only regular expressions are allowed. Please find further information on the web <http://www.regexpr.com> .

Example: any number of characters: "\*"

Attention! Special characters are not eliminated before checkings.

#### 4.4.1 Examples for Maskings

Please find here some examples for maskings:

Simple masking:

Data content	Masking	Match	Remark
"ABC\r\nDEF	*	x	* ... any number of characters
a	?	x	? ... one character
-	?		No match because the special characters are eliminated before checking so that the record is empty
-ABCDEF	ABCDEF	x	
-ABCDEF	*ABEF*		After elimination of the special characters ABCDEF remains. Since the masking starts with * characters are expected at the beginning of the string.
! -A-BCD.,EF	ABCDEF	x	

RegEx masking:

Data content	Masking	Match	Remark
ABCDEF	.*	x	* ... any number of characters
-ABCDEF#	.*	x	one character
-ABCDEF	ABC.EF	x	
-	.	x	
AbCdEf	(?i)aBc.eF	x	
AbCdEf	aBc.eF		
_ABCDEF	ABCDEF	x	
_ABCDEF	^ABCDEF\$		^\$ for exact match



AbCdEf	(?i)^aBc.eF\$	x	(\$i) for ignore case sensitive
xxABCDEF	^ABC.EF\$		
xxABCDEF	ABC.EF		x

## 4.5 Testing of maskings

In the universal approval dialogue the masking can be tested by clicking on the button "Test masking" in a separate window.

The masking can be checked against:

- devices
- catalogue articles of the manufacturer selected in the universal approval
- parts list entries Stücklisteneinträge in equipments or sub systems
- free data

The masking can be edited in this windows without consequences for the defined masking - it is only for testing.

Attention! during the masking check against parts lists the import columns are checked if no MDM devices could be found.

## 5 Component manufacturers and corresponding data

In the view "Component manufacturer" all manufacturers existing in the material data manager are listed including the corresponding data. New manufacturers are created by VESCON and can be proposed via the workflow "Apply for new manufacturers".

The data related to the manufacturer are available in the following tabs:

- Attributes
- Type / series
- Documents
- Components

In der Ansicht "Bauteilehersteller" werden alle im Materialdatenmanager vorhandenen Hersteller mit den zugehörigen Daten aufgelistet. Neue Hersteller werden durch VESCON angelegt und können durch den Workflow "Neuen Hersteller beantragen" vorgeschlagen werden.

Die zum Hersteller gehörenden Daten sind in den folgende Tabs verfügbar:

- Eigenschaften
- Betreiberspezifische Felder
- Typ / Baureihe
- Dokumente
- Bauteile

Mit der Funktion "Hersteller inkl. Daten exportieren" können einem Bauteilehersteller zugehörige Informationen in einer XML Struktur exportiert werden. Dies sind:

- Herstellernamen und Adresse
- Liste der Herstellerverantwortlichen (Name und Mailadresse)
- Liste der Betreiberspezifischen Felder mit Inhalt

### 5.1 Attributes (component manufacturer)

- Name:

Name of the manufacturer without indication of corporate form

- Range of functions:

The range of functions is indicated by different icons at the component data.

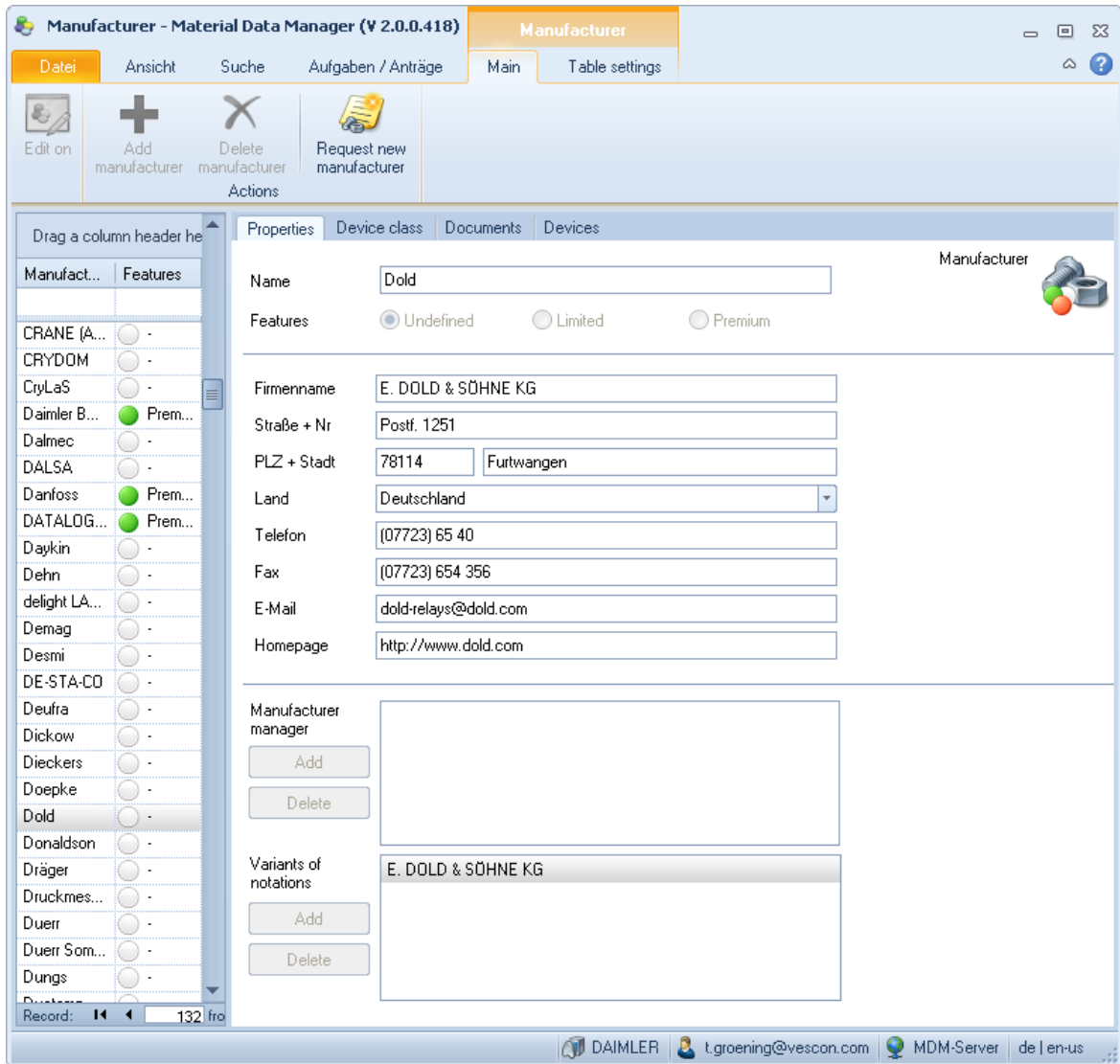
- Green dot: premium. To the components of this manufacturer or rather to the manufacturer himself any functions are available (e.g. applications, evaluations). As a rule, the data of these components are managed by the manufacturer himself. In the material data manager contact persons for further inquiries are defined and available.

- White dot: undefined. Limited range of services (e.g. no workflow functions), authorized users may modify data or enter new data. No persons defined that can be contacted concerning the data records.

- Red dot: limited. Component data with the status "limited" cannot be changed and no further data related to this manufacturer can be entered. Only very limited functions are available for these component data.

The definition of the range of functions is administered by VESCON.

- Adress- / contactdata of the company (not referred to persons)



Companies data

- Responsible manufacturers:  
In the field "Responsible manufacturers" the users responsible for this component manufacturer are listed. The contact details window is opened by a double click on a mail address. The persons displayed here can be contacted in case of further questions concerning a component.
- Variants of spellings:  
In this field different spellings can be defined for the component manufacturer. This allows the execution of an Excel item list import without reworking in Excel, even if the spellings are different. In the field "Variants of spellings" the alternative spelling from Excel is entered manually by the user. Each created variant must not appear more than once in the material data manager. The administration of these variants is done by VESCON.

## 5.2 Betreiberspezifische Felder

In den Betreiberspezifischen Feldern kann der Betreiber Daten zu einem Bauteilehersteller hinterlegen. Diese Felder unterliegen besonderen Lese- und Schreibberechtigungen.

Definiert werden die Felder in der Strukturansicht unter dem entsprechenden Betreiber.

### 5.3 Type / series (component manufacturer)

In the tab "Type/series" you can define manufacturer-specific designations related to the component data. These can be, for example, names of product groups or superordinated type names.

These terms can be searched for, filtered or grouped in the component view.

### 5.4 Documents (Component manufacturer)

In the tab "Documents" any documents and linkings to a component manufacturer are listed.

In the column "Number used" it is indicated how many component data records the respective document has been assigned to. In the table "Documents used in..." the respective component data records of the marked document or linking are listed.

### 5.5 Components (component manufacturer)

In the tab "Components" all components and device groups related to the selected component manufacturer are listed.

The functions available here are identical to the functions of the components view.

### 5.6 Catalogue articles

Open the register "Catalogue article" in the view "View / Component manufacturers and corresponding data" and select the wanted manufacturer.

**Catalogue articles are not MDM devices and so they cannot be approved in projects or MFL!  
Catalogue articles can be used for the request "new device" in order to create a new MDM device.**

Catalogue articles are organized by the column "type / series", additional columns can be created corresponding to "type / series" in order to give further information to the catalogue article.



The screenshot shows the 'Manufacturer - Material Data Manager (V 2.0.93.2)' application window. The main area displays a table of catalog articles. The table has the following columns: MDM Id, Order number, Device class, Technical description (de), Name, List price Germany, Material (de), Material (en), Material (fr), and Material. The data rows show various 'Enzelschild' items with their respective MDM IDs, order numbers, and materials.


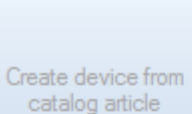



MDM Id	Order number	Device class	Technical description (de)	Name	List price Germany	Material (de)	Material (en)	Material (fr)	Material
		<without / unknown>							
	2655	Enzelschild		Schild	2.39	VE, Edelstahl	VE, stainless steel		
	2656	Enzelschild		Schild	3.565	VE, Edelstahl	VE, stainless steel		
	2657	Enzelschild		Schild	3.49	VE, Edelstahl	VE, stainless steel		
	2658	Enzelschild		Schild	2.54	ASE, Aluminium...	ASE, Aluminium ...		
	2659	Enzelschild		Schild	4.45	PD, Polyesterde...	PD, Polyester de...		
	2660	Enzelschild		Schild	2.68	ASE, Aluminium...	ASE, Aluminium ...		
	2661	Enzelschild		Schild	2.02	ASE, Aluminium...	ASE, Aluminium ...		
	2662	Enzelschild		Schild	1.85	ASE, Aluminium...	ASE, Aluminium ...		
	2663	Enzelschild		Schild	3.8	PD, Polyesterde...	PD, Polyester de...		
	2664	Enzelschild		Schild	1.69	AE, Aluminium	AE, Aluminium		
	2665	Enzelschild		Schild	2.47	AE, Aluminium	AE, Aluminium		
	2731	Enzelschild		Schild	5.85	PD, Polyesterde...	PD, Polyester de...		
	2770	Enzelschild		Schild	5.85	PD, Polyesterde...	PD, Polyester de...		
	2808	Enzelschild		Schild	5.4	VE, Edelstahl	VE, stainless steel		
	3111	Enzelschild		Schild	2.7	AE, Aluminium	AE, Aluminium		
	3112	Enzelschild		Schild	2.7	AE, Aluminium	AE, Aluminium		
	3113	Enzelschild		Schild	3.09	AE, Aluminium	AE, Aluminium		
	3114	Enzelschild		Schild	3.09	AE, Aluminium	AE, Aluminium		

catalogue\_data\_1

If an entry exist in the column "MDM Id" a corresponding MDM device is available - displayed by a click on the button "Show MDM device". The detail view is opened by click on the button or by double click on the catalogue article.

Catalog article - Material Data Manager (V 2.0.93.2)

Main Documents

 Edit on    
  Create device from catalog article    
  Save & close    
  Save    
  Close

Actions

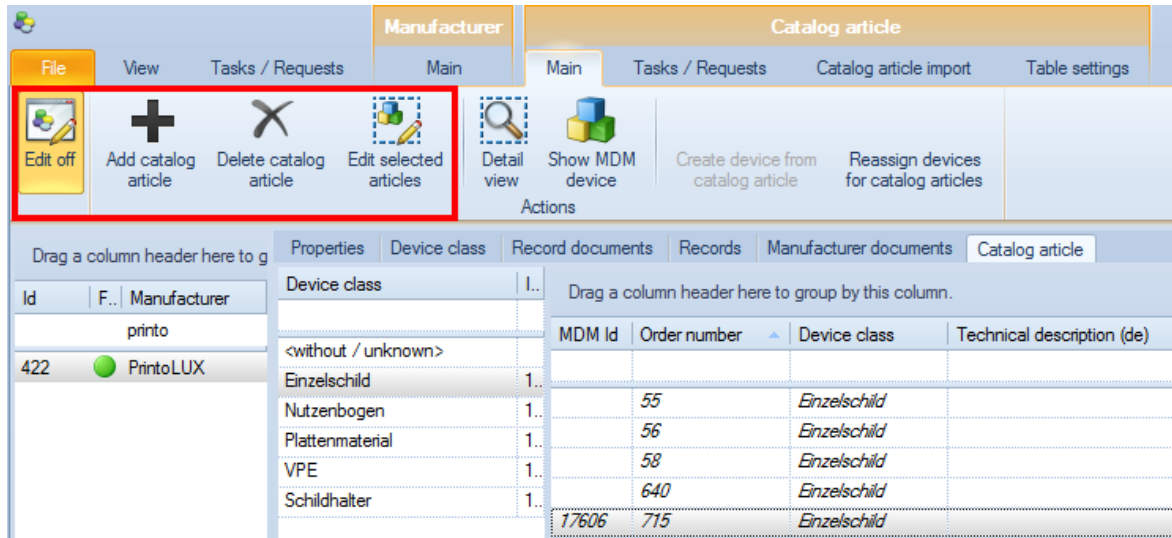
Catalog article Documents

Id	2442
MDM Id	17606
Order number	715
Article type	
Standard	
Certificate CCC	
Certificate CE	
Certificate CSA	
Certificate UL	
Depth [mm]	0.4
Technical description (de)	
Technical description (en)	
Technical description (fr)	
Technical description (hu)	
Denomination (de)	
Denomination (en)	
Denomination (fr)	
Denomination (hu)	
Device class	Einzenschild
Name	Schild
Diameter [mm]	
Height [mm]	250
Length [m]	
Note	
Packing unit	
Performance level	
Remark (de)	
Remark (en)	
Remark (fr)	
Remark (hu)	
Width [mm]	19
List price Germany	1.81
Created on/at	10/9/2015 7:40 AM
Created by	kh.charusa@vescon.com
Changed on/at	10/9/2015 7:40 AM
Changed by	kh.charusa@vescon.com
Material (de)	PD, Polyesterdekorfolie
Material (en)	PD, Polyester decorative film
Material (fr)	
Material (hu)	
Farbe (de)	si/ma
Farbe (en)	si/ma

Catalog article 2442     PrintoLUX 715     6 / 145



By clicking on the button "Edit on" and afterwards on



- "Add catalogue article" additional articles can be created manually
- "Delete catalogue article" articles can be deleted
- "Edit selected article" article can be edited.

Editing is also possible in the MDM.

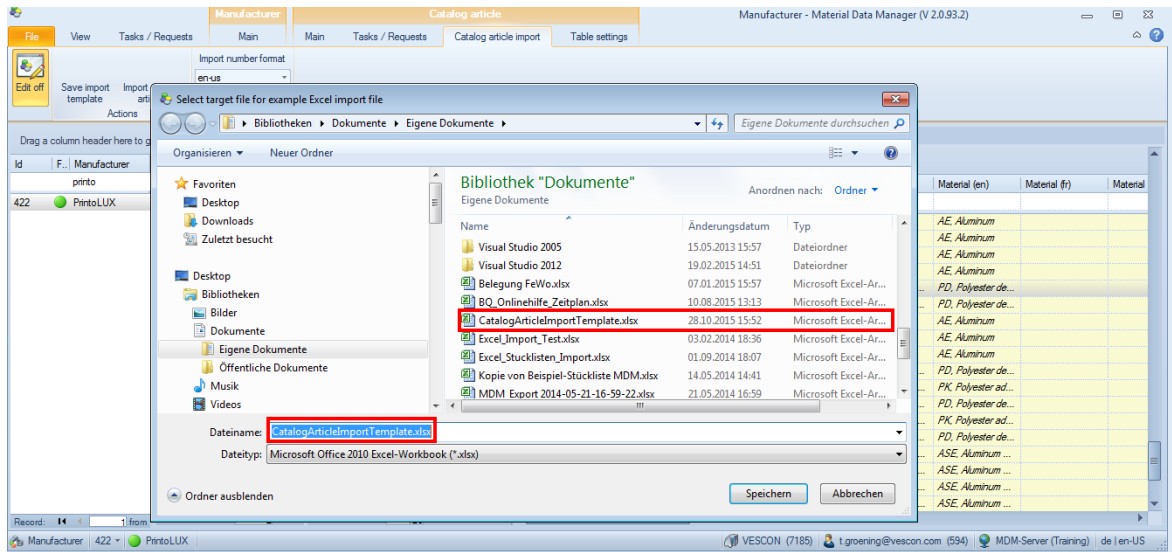
### Catalogue article import by Excel

Open the register "Catalogue article import" on the tab "Catalogue article" and click on the button "Save import template". Select in the following dialogue the target folder for the file "CatalogArticleImportTemplate.xlsx".



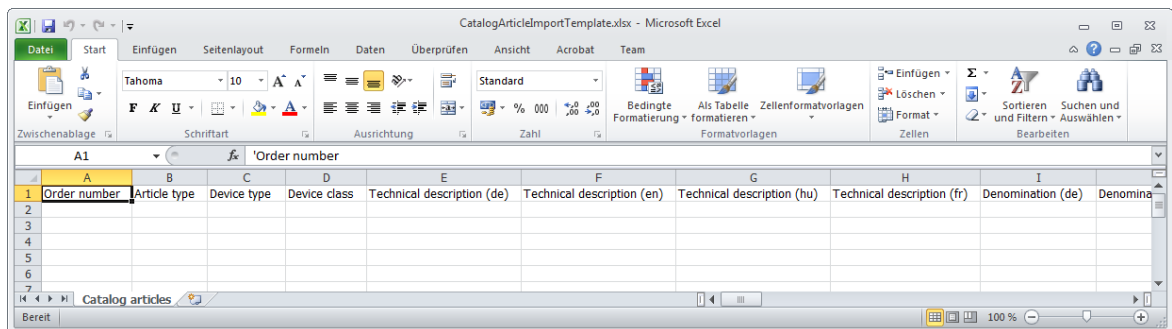


# Component manufacturers and corresponding data



catalogue\_data\_4

The Excel file is opened and is to be edited as usual.



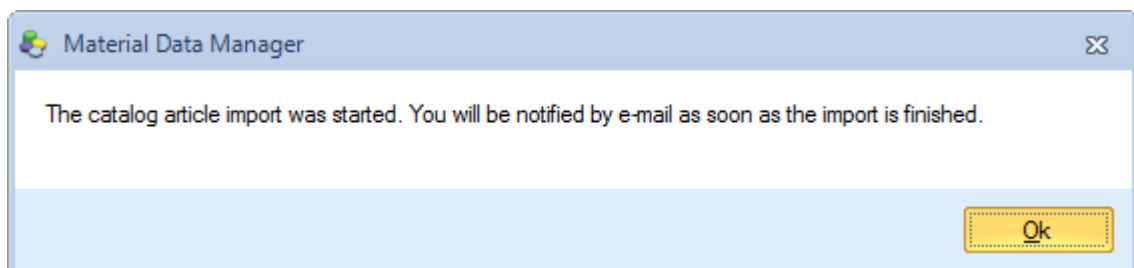
catalogue\_data\_5

By clicking on the button "Import catalogue articles" the import starts displaying the following message:



catalogue\_data\_6

and is completed successfully:

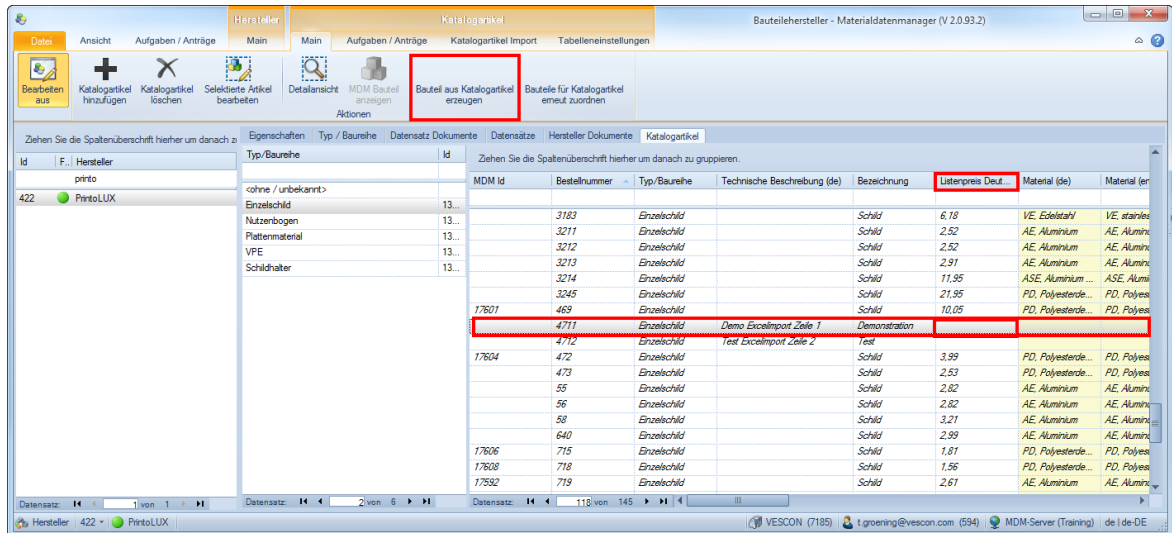


catalogue\_data\_6



### Create device out of a catalogue article

By clicking on the button "Create device from catalogue article" a MDM device will be created. The data from the catalogue article will be transferred to the MDM device.



catalogue\_data\_7

The detail view is opened. By clicking on "Edit on", the entering of data and clicking on "Save and close" the MDM device is created.



# Component manufacturers and corresponding data

Hersteller: PintoLUX  
Bestellnummer: 4712  
Artikel-Typ: [ ]  
Typ/Baureihe: Einzelschild  
Bezeichnung: undefiniert  
Status: Aktiv  
Länge: [ ] Breite: [ ]  
Durchmesser: [ ] Höhe: [ ]  
Verpackungseinheit: [ ] Tiefe: [ ]  
Zertifikat CSA: [ ]  
Zertifikat CCC: [ ]  
Zertifikat UL: [ ]  
Zertifikat CE: [ ]  
Performance level: [ ]  
Norm: [ ]  
Benennung: [ ]  
Listenpreis Deutschland: 99,99

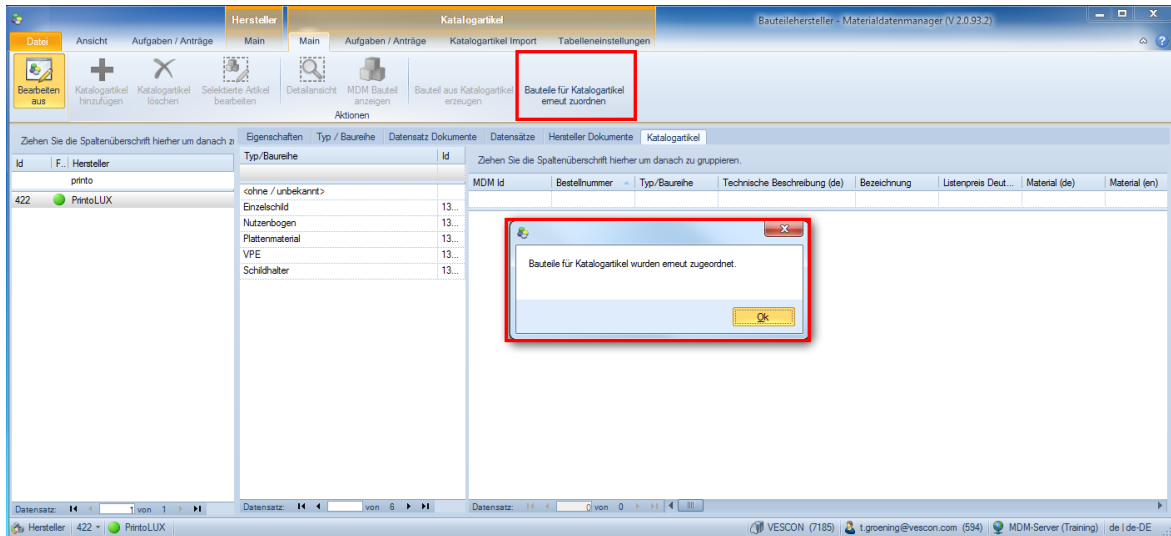
catalogue\_data\_8

MDM Id	Status	Bezeichnung	Bestellnummer	Artikel-Typ	Typ/Baureihe	Technische Beschreibung	Listenpreis Deut.	Bemerk
18922 - V1.3	Aktiv	Schild	2130		Undefiniert	Kennzeichnungsschild für Bedienpult, Polyesterklebefolie 15 x 250 mm, Mater...		Anforde beachte
18923 - V1.3	Aktiv	Schild	2131		Undefiniert	Kennzeichnungsschild für Bedienpult, Polyesterklebefolie 15 x 250 mm, Mater...		Anforde beachte
18924 - V1.3	Aktiv	Schild	2132		Undefiniert	Kennzeichnungsschild Signalleuchte, Polyesterklebefolie 54 x 125 mm, Mater...		Anforde beachte
18925 - V2.3	Aktiv	Schild	2133		Undefiniert	Bezeichnungsschild ET 200PRO-E/A-Modul, Polyesterklebef...		Anforde beachte
18926 - V2.3	Aktiv	Schild	2134		Undefiniert	Kennzeichnungsschild am Einbaut, Polyesterdekorfolie 18 x 52 mm, Mater...		Anforde beachte
18927 - V1.3	Aktiv	Schild	2135		Undefiniert	Kennzeichnungsschild für elektro-pneumatische Betriebsmittel, P...		Anforde beachte
18928 - V1.3	Aktiv	Schild	2137		Undefiniert	Kennzeichnungsschild für elektro-pneumatische Betriebsmittel, P...		Anforde beachte
18929 - V1.3	Aktiv	Schild	2128		Undefiniert	Kennzeichnungsschild für Technologierechner, Polyesterklebef...		Anforde beachte
18957 - V2.2	Aktiv	Schild	1499	Schild	Undefiniert	Kennzeichnungsschild Norius. 100 x 20 x 0.5 mm. Der bedruckte Satz bestehe...		Anforde beachte
41272 - V0.1	Aktiv	undefiniert	4711		Einzelschild	Demo Excelimport Zeile 1	99,99	
41273 - V0.1	Aktiv	undefiniert	4712		Einzelschild	Test Excelimport Zeile 2	99,99	

catalogue\_data\_9

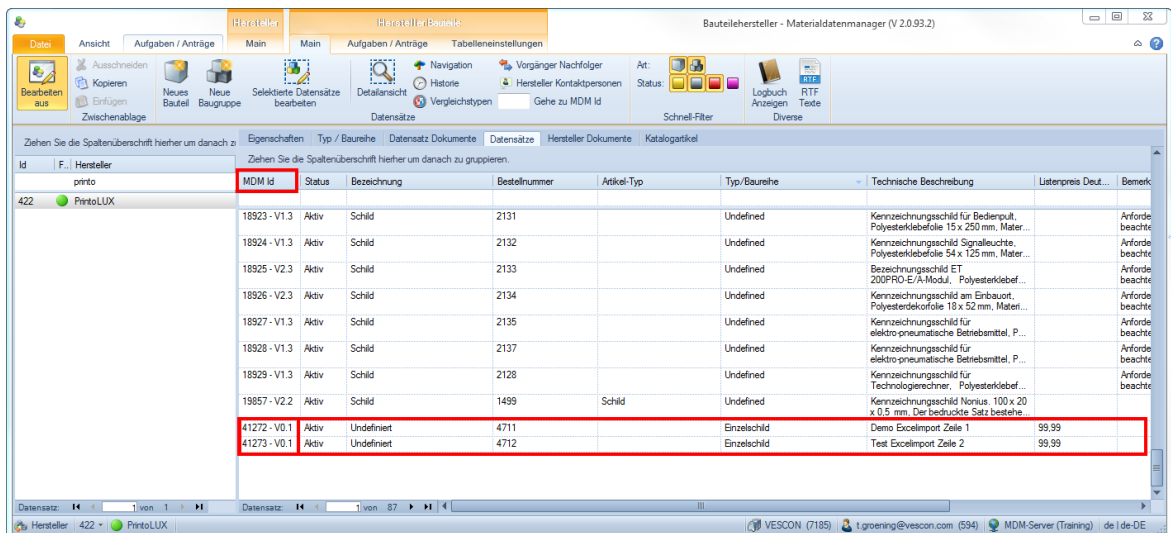
## Assign devices to catalogue articles again

By clicking on the button "Reassign devices for catalogue article" the search for MDM devices corresponding to the catalogue articles of a certain manufacturer starts again.



catalogue\_data\_10

In the list of MDM devices the former catalogue articles are displayed with their MDM Id.




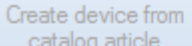



catalogue\_article\_11

### 5.6.1 Catalogue article detail view

In this window the properties of the catalogue article is displayed - they can be edited if the user has the required rights.

Catalog article - Material Data Manager (V 2.0.93.2)

Main Documents

 Edit on   
  Create device from catalog article   
  Save & close   
  Save   
  Close

Actions

Catalog article Documents

Id	2442
MDM Id	17606
Order number	715
Article type	
Standard	
Certificate CCC	
Certificate CE	
Certificate CSA	
Certificate UL	
Depth [mm]	0.4
Technical description (de)	
Technical description (en)	
Technical description (fr)	
Technical description (hu)	
Denomination (de)	
Denomination (en)	
Denomination (fr)	
Denomination (hu)	
Device class	Einzenschild
Name	Schild
Diameter [mm]	
Height [mm]	250
Length [m]	
Note	
Packing unit	
Performance level	
Remark (de)	
Remark (en)	
Remark (fr)	
Remark (hu)	
Width [mm]	19
List price Germany	1.81
Created on/at	10/9/2015 7:40 AM
Created by	kh.charusa@vescon.com
Changed on/at	10/9/2015 7:40 AM
Changed by	kh.charusa@vescon.com
Material (de)	PD, Polyesterdekorfolie
Material (en)	PD, Polyester decorative film
Material (fr)	
Material (hu)	
Farbe (de)	si/ma
Farbe (en)	si/ma

Catalog article 2442    PrintoLUX 715    6 / 145

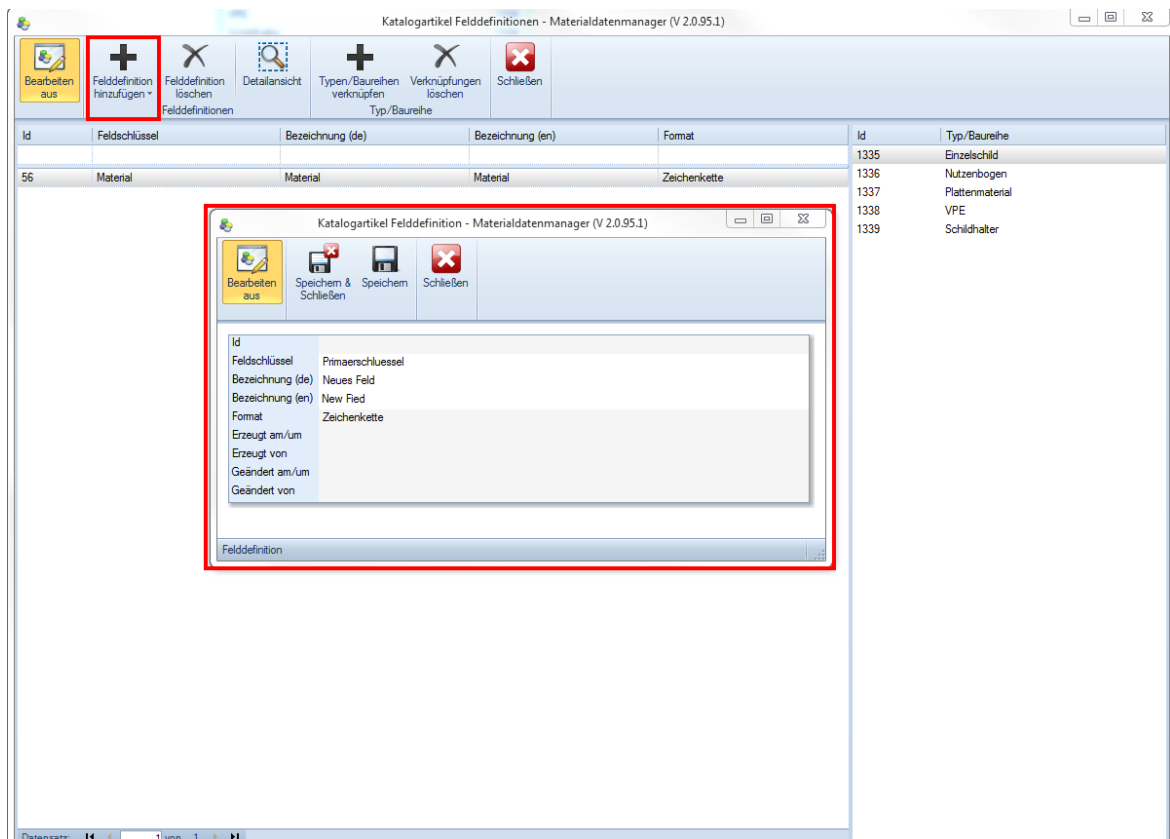
Properties shaded in grey can not be edited. Properties shaded in yellow are free determined ( see the following topic .

### 5.6.2 Field definition administration

It is possible to define specific fields for catalogue articles. These fields are defined for a certain manufacturer and will be assigned by "Type /series". To do so click on the tab "catalogue articles", on the register "catalogue article import" and on the button "Field definition administration". After the selection of a certain format the following dialogue is opened:

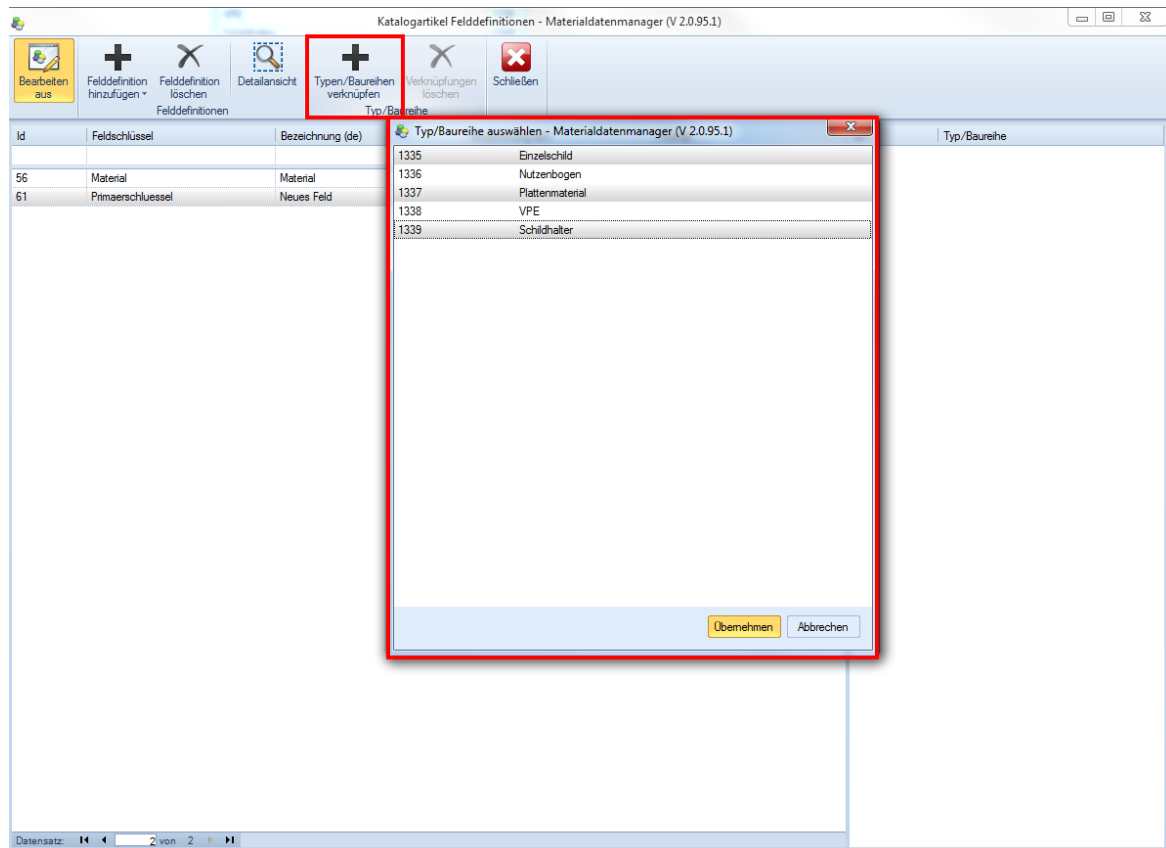
#### Formats:

Numbers, strings and virtual fields are available. Strings are always multilingual. Virtual fields are intended only for representation. E.g. scale units for numbers can be displayed or combinations of two fields ("Length" and "Width" -> "Length x Width in inches").



catalogue\_article\_fields\_1

After the definition of fields "Types / series" will be assigned by clicking on the button "Assign types / series".



catalogue\_article\_fields\_2

## 6 Reports

Via “Reports” the device manufacturers can obtain a detailed view of the use and the history of individual devices or components for their own data records and those of the OEMs.

These predefined selections complete and simplify the MDM standard search and filter processes and serve the manufacturers above all as a means of sales support: where and how often, for example, have the stored devices and components been approved? Could this result in a change of marketing strategies? Reports are displayed in device data record tables which can be exported to Excel.

You can find the reports via “View – reports”.

### 6.1 Duplicate devices

It shouldn't happen – but it may happen that different data records of the same manufacturer have identical order numbers which may have an immediate effect on processes outside the MDM. In this case, the respective data records should be marked as "Erroneous".



In the area "OEM" user with according rights (e.g. "premium" manufacturers) can select an OEM. The result will be the display of the OEM specific files of the device.

In the area "Manufacturer" the device manufacturers can filter by manufacturer for their own data records and those of the OEMs.

In the area "Ignore in reports" devices can be excluded from the report via the control boxes "Locked devices" and "Empty order numbers".

The report result is displayed in a data record list.

## 6.2 Number of approvals

This report provides a quick overview of how often a device has been approved in MFLs, chapters or in projects by special approval.

In the area "Structure element" a restriction of structure elements (and the subordinated elements) can be defined.

In the area "Manufacturer" the device manufacturers can select their devices and the OEM can select the desired manufacturer.

In the device list the number of MFL, chapter and special approvals is displayed.

The report result is displayed in a device list.

In the device list the complete records of the selected manufacturer are displayed. In the columns "Number of MFL links", "Number of chapter links" and "Number of special approvals" the amount is displayed. Attention! If in the area "Structure element" a restriction of structure elements (and the subordinated elements) is defined, the amount of these columns can be zero.

## 6.3 No links to chapters

This report indicates devices which are approved in MFL or projects but not linked to a chapter.

In the area "OEM" user with according rights (e.g. "premium" manufacturers) can select one or the complete OEM.

In the area "Manufacturer" manufactures can select their own devices - OEM the devices of all manufacturers.



The report result is displayed in a device list.

## 6.4 No approvals

This report indicates devices which are linked to a chapter but not approved in MFL or projects.

In the area "OEM" user with according rights (e.g. "premium" manufacturers) can select one or the complete OEM.

In the area "Manufacturer" manufactures can select their own devices - OEM the devices of all manufacturers.

The report result is displayed in a device list.

### FAQ:

To withdraw a link to a chapter please click on the device an proceed as follows:

- start the [Navigation](#) and click on the chapter
- jump via icon "Go to approved device" to the chapter and click on the device again or  
jump via icon "Go to ..." to the chapter, open the register "Assigned devices" and click on the device again



Navigation

- withdraw the link via icon "Edit on" and "Delete".

## 6.5 Locked devices

This report indicates if any locked devices of a manufacturer have been approved.

In the area "Structure element" a restriction of structure elements (and the subordinated elements) can be defined.



In the area “Manufacturer” the device manufacturers can select their devices and the OEM can select the desired manufacturer.

In the area “Limit period of time” you can determine the period of time within which the devices are supposed to remain locked.

The report result is displayed in a device list.

## 6.6 MFL- and special approvals

This report indicates if any approvals are existing for a manufacturer and, if so, in which MFL, project or special approval.

In the area “Structure element” the structure element elements (and the subordinated elements) referring the report can be chosen.

In the area “Manufacturer” the device manufacturers can select their devices and the OEM can select the desired manufacturer.

In the area “Limit period of time” you can determine the period of time within which the devices are supposed to be approved.

The report result is displayed in a data record list.

## 6.7 MFL Approval history

Here, the change history of approvals (Add or Delete) within an MFL is represented for all devices of the selected manufacturer.

Attention! The creation of this report may take several minutes.

In the area “Structure element” a restriction of structure elements (and the subordinated elements) can be defined.

In the area “Manufacturer” the device manufacturers can select their devices and the OEM can select the desired manufacturer.

In the area “Limit period of time” you can determine the period of time within which the devices are supposed to be approved.

The report result is displayed in a device list.

## 6.8 Used devices

Here it is indicated how often devices are contained in the project structure in "valid" parts lists (CAD or Excel). Of course, only those devices are indicated which are existing as devices in the MDM. Devices imported via Excel parts lists, but not existing in the MDM, cannot be evaluated.

In the area "Structure element" a restriction of structure elements (and the subordinated elements) can be defined.

In the area "Manufacturer" the device manufacturers can select their devices and the OEM can select the desired manufacturer.

In the area "Limit period of time" you can determine the period of time within which the devices are supposed to be approved.

The report result is displayed in a device list.

## 6.9 Number of parts lists

This report provides the number of "valid" and "not valid" parts list for structure elements. All structure elements containing parts lists or with activated check box "CAD assignment / parts list import allowed" are regarded.

In the sector "structure element" the wanted structure element with subordinated elements can be defined.

In the sector "limit period of time" the time frame in which the parts lists were imported can be defined.

The result is displayed with the appendant information.

## 6.10 Parts lists entries

This report / export provides the parts lists entries concerning the selected description.

Attention! The limit of these entries is 200,000. If the result exceeds this limit an error message is displayed. For more entries a "Special export for large data" is available. Nearly unlimited numbers of data can so put out formatted as an order list in a XML file.

In the sector "structure element" the wanted structure element with subordinated elements can be defined.

In the sector "limit period of time" the time frame in which the parts lists were imported can be defined.

In the sector "Representation" the content of the result list can be defined. "Parts list" delivers the entries as imported (not possible for special export). "Order list" delivers all identical entries (manufacturer and order number). With "Resolved representation" device groups are displayed with their subordinated devices (not in the "standard" representation).

Attention! In the Resolved view specific columns are no longer consistent represented. These are grayed out and the contents are empty. Column Consolidated manufacturers and order number have no content at assembly positions.

The result is displayed with the corresponding information.

The result can be exported as an Excel or XML file (to be defined in "table settings").

## 6.11 **Statistic request - request for new devices**

This report displays a statistic of new devices. This report runs only once a day because it takes a lot of time. For this reason the report is just on a daily basis.

In the area "Structure element" a restriction of structure elements (and the subordinated elements) can be defined.

In the area "Manufacturer" manufactures can select their own devices - OEM the devices of all manufacturers.

In the area "Limit period of time" you can determine the period of time within the request was started.

The result is displayed in a list.

## 6.12 **Document / URL check**

This report displays devices without documents or with buggy URL. This report runs only once a day because it takes a lot of time. For this reason the report is just on a daily basis.

In the area "OEM" user with according rights (e.g. "premium" manufacturers) can select an OEM. The result will be the display of the OEM specific fields of the device.

In the area "Manufacturer" manufactures can select their own devices - OEM the devices of all manufacturers.

In the checkbox "Locked / Erroneous devices" locked or erroneous devices can be excluded from the report.

The result is displayed in a list.

## 7 Requests and tasks (workflow)

In the MDM "Tasks / requests" is used to carry out specific workflows automatically initiating processes and to document these processes and their results.

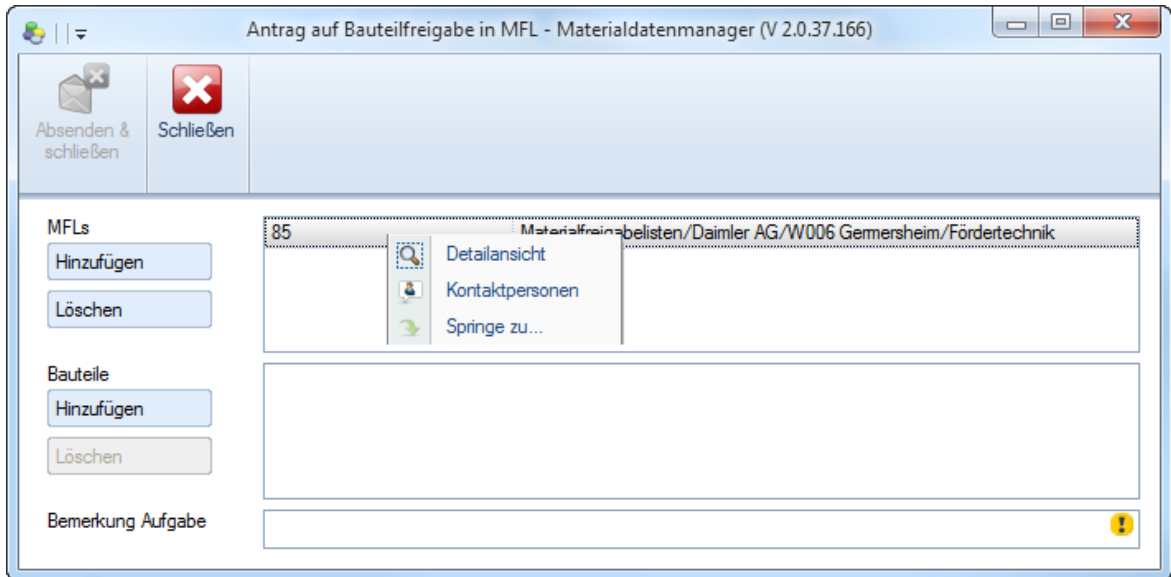
The following processes can be started via the integrated workflow:

- General task for a device
- Request for MFL approval for a device
- Request for project approval for a device
- Request a device not yet existing in the MDM
- Request for acceptance of a manufacturer not yet listed in the MDM
- Request for further rights
- Sended token
- Inquiry task

In the dialogues the standard functions concerning the marked structure element e.g. "Detail view", "Contact person" or "Go to ..." are available.

These requests can be initiated in various views depending on the user's right.

You can obtain a list of tasks referring to "me" as a user via "Ribbon / View / Tasks or Tasks / Requests / Display tasks".







Standardfunktionen Strukturelement

Attention! Certain features in the MDM are not available for all records (depending on status, kind of manufacturer and record).

### 7.1 General information on editing tasks

The following types of status information are available for editing tasks:

	Done	The task is marked as "Done" by the recipient
	Unresolved / Rejected	The task is marked as "Unresolved" by the recipient. The task will afterwards appear again in the sender's standard filter view.
	Cancel	The sender of the task has the option to cancel it as long as it is still in the editing process. The task will no longer be shown to the recipient then.
	An anderes Strukturelement weiterleiten	Darüber kann eine Aufgabe an einen weiteren dem Strukturelement zugeordneten Empfänger weitergeleitet werden. Die Empfänger aus dem ursprünglich zugeordneten Strukturelement werden gelöscht.
	Forward / more recipients	Via "Forward" a task can be forwarded to another recipient. Attention: additional recipients are allowed do manage the task separate from their rights on structure elements or devices. They can do the same actions as the original recipient.
	Remove additional recipients / himself	Additional recipients / himself can be removed from the recipients list.

	Back to sender	The task will be given back to the sender and will get the status "In process (sender)"
	Back to recipient	The task will be given back to the recipient and will get the status "In process (recipient)"
	Inquiry task	An inquiry task can be started
	Marked "unread"	A task is automatically marked "read" when opened. Here the task can be marked "unread" again.

### Information on the task:

From:	b.adler@vescon.com	(1)	Created:	3/19/2013 10:18 A
To:	t.groening@vescon.com	(1)	Status:	Rejected
Task				

For each task it is indicated in the ribbon when and by whom the task was created. In addition, the recipient and the status are displayed.

### Protocol:

Created on/at	Created by	Remark	Automaticall...
3/15/2013 12:26 PM	b.bandleon@vescon.com	Task was forwarded from node 'Neue "Equipment No. (==)'" to node 'Neue "Equipment No. (==)'".	<input checked="" type="checkbox"/>
3/15/2013 10:17 AM	b.bandleon@vescon.com	kk	<input type="checkbox"/>
3/15/2013 10:17 AM	b.bandleon@vescon.com	Task was forwarded from node 'Neues "Projekt"' to node 'Neue "Equipment No. (==)'".	<input checked="" type="checkbox"/>
3/15/2013 10:09 AM	b.bandleon@vescon.com	kk	<input type="checkbox"/>

In the editing mask additionally the comments of the recipients are displayed; the marked checkbox "Automatically" means that the task was created by the system (e.g. requests for approvals if a successor is defined).

## 7.2 List of tasks

In the view "Tasks" all tasks and requests are displayed to the respective editor.

There are the following types of tasks:

- QS check (to be edited by VESCON only)
- General task



- New device
- New manufacturer (to be edited by VESCON only)
- MFL approval
- Project approval
- Rights
- Inquiry Task
- Token

These tasks are sorted by type and listed in the corresponding tabs. In addition, all tasks are represented in the tab "All tasks".

There are two possibilities to get the tasks: Es gibt zwei Arten um auf Aufgaben zu kommen:

- My tasks - here I get my tasks as sender and recipient
- Structure related - here I can get also the tasks of other recipients (if I have rights on the concerned structure elements)

### 7.2.1 My tasks

In the tab "My tasks" you can open your personal tasks as well as sender and as recipient.

In this view all "open" tasks (tasks you will get daily by email) are listed.

Open tasks are:

- "In progress (sender and recipient)"
- "Done" and yet not read
- "Rejected" and yet not read"

To get other (not personal) tasks the button "Open tasks" must be deactivated. Afterwards all filters can be set.

**Attention:** after any changed filter setting the button "**Refreshed**" must be activated!

### 7.2.2 Structure related

In the tab "Structure related" - you can get also the tasks of other recipients (if you have rights on the concerned structure elements). The tab contains the following requests:



- Request for project approval
- Request for MFL approval
- Request for Permissions

Here first the structure element must be chosen and filters must be set for the status of task, read / unread and the type of task.

**Attention:** after any changed filter setting the button "**Refreshed**" must be activated!

## 7.3 General Task

Via "General Task" you can communicate with other MDM users on a device. You can use this task, for example, to make further inquiries on a device at the manufacturer or other users.

You can add several devices to a task. For each device, however, an independent task will be generated.

If the task is generated via the "Device-context" tab, all selected devices will be automatically added to the task.

The task can be sent to one or several different recipients. If several recipients have been selected, you can determine via the control box "One task per user" whether each single recipient is supposed to deal with the task (box ticked) or whether it is sufficient if only one of them deals with the task (box not ticked – default setting).

In the text field "Remark" you can enter what the recipients of the task are supposed to do. The remark can also be edited by the recipient.

**Attention:** not every record (status, manufacturer, kind of record) can be used in this task! Further information you can find here:

This type of task is also used to inform

- premium manufacturers for new devices with the request for correction or completing
- users for blocked devices used in their imported parts lists.



### 7.3.1 Edit general task

In order to edit a General task you have to open the function by a double click. General tasks always refer to a device data record.

In the field "Remark" the reason for setting the task is entered.

The editor can mark the task as "Done" or "Unresolved / Rejected". Moreover, he has the option to forward the task to another editor. Attention: The recipient of the forwarded task has to have the appropriate rights to handle the task.

More information for forwarding and selecting more recipients: [General information on editing tasks](#)

## 7.4 Rights

Registered users can request missing rights to a project structure via "Request for rights". For this you have to make a request for the respective node, visible to you or globally visible, of the structure node view adding for which task the rights are needed. The recipient of this request is the corresponding OEM node manager of this structure node.

In order to make sure that the request can be handled effectively, it is recommended to provide as much information as possible.

In the field "Client" the OEM expects the company name of the direct contractor. (GU: **General**Unternehmer = general contractor ).

In the area "Rights" you are supposed to define if read or write permissions are required.

Eq. No (==) means equipment number. Please, insert here the respective numbers referring to your order.

### 7.4.1 Edit request for rights

In order to edit a request for rights, please, open the function by a double click.

The editor assigns one of the respective roles to the requester. These can be:

- OEM roles
  - Responsible person/Node manager
  - User Read only
  - User Read / Write
  
- Supplier roles

- Responsible person/Supplier manager
- User Read only-
- User Read / Write

In the protocol all changes of the task are saved. By the button "Add" an other entry can be added to the protocol.

More information for forwarding and selecting more recipients: [General information on editing tasks](#)

## 7.5 Inquiry task

The inquiry task is used for the communication about a task- e.g. question concerning requests to other MDM users

This type of task is always refers to an other task. If this task is canceled, done or rejected the status of the inquiry task is set automatically to the same status.

In the field "Remarks" a comment to the task must be entered.

### 7.5.1 Editing an inquiry task

In order to edit a inquiry task you have to open the function by a double click. Inquiry tasks always refer to an other task displayed in this task

By clicking on the button "Done" this task is only marked as done - no other action will follow.

In the protocol all changes of the task are saved. By the button "Add" an other entry can be added to the protocol.

More information for forwarding and selecting more recipients: [General information on editing tasks](#)

## 7.6 New device

This task is used to request devices not existing in the MDM but needed for handling a project.

For this you have to fill in the request form as completely as possible, i.e. fill the device with all necessary data. Furthermore, the project(s) has (have) to be selected for which the device is needed. A remark stating the reason for a request, "Why, to what purpose etc.", has always proved helpful to the person responsible for dealing with the request. A project (marked as "Request new device allowed") must be entered in which the new device is needed

If entries in the fields "manufacturer" and "order number" still exists are the highlighted in red an this request is not possible

A requested device is marked as "Temporary" (status). This device may already be used, even though there is still the risk that in case of rejection it will be deleted from the MDM.

The request goes first to VESCON for the quality check of the entries and the status of the task is marked as "waiting" for the structure element manager. If the quality of the data is OK VESCON marks the task as "done". Afterwards the structure element manager can edit the task; if he marks the task as "done", the devices changes the status to "active" and the device is approved in the concerning structure element.

As mentioned above, the requested device will be deleted from the MDM in case of rejection.

**Attention: Temporary devices can not be changed into device groups! Device groups can not be requested!**

### 7.6.1 Edit request for new device

In order to edit a request for a new device, please, open the function by a double click.

Via the function "Done", the status of the device is changed to "Active" and it is transferred to the MDM.

Via the function "Unresolved / Rejected" the device is deleted from the MDM. The requester will receive a corresponding message via his task view.

You have the option to forward the task to another editor. Attention: The recipient of the forwarded task has to have the appropriate rights to handle the task.

In the protocol all changes of the task are saved. By the button "Add" an other entry can be added to the protocol.



More information for forwarding and selecting more recipients: [General information on editing tasks](#)

## 7.7 New manufacturer

If a manufacturer is not existing in the MDM, he can be requested via this workflow.

In "Remark" you are supposed to state the reason why the manufacturer is needed in the MDM and why he should be accepted. Please, enter any information on the manufacturer you know, such as phone numbers, contact persons etc. .

The following field are mandatory fields:

- Manufacturer
- Company name
- Street + Nr
- ZIP + City
- Homepage

The request goes to VESCON where it is checked. The request for a new manufacturer will either be accepted or rejected.



Hersteller	VESCON	
Firmenname	VESCON GmbH	
Straße + Nr	Dürkheimer Str. 130	
PLZ + Stadt	67227	Frankenthal
Land	Deutschland	
Telefon	+49 (06233) 60 00 - 0	
Fax	+49 (06233) 60 00 - 8 00	
E-Mail	mdm@vescon.com	
Homepage	www.vescon.com	
Bemerkung	Beantragt, weil ...	

Manufacturers Data

### 7.7.1 Edit request for new manufacturer

This type of task can be handled exclusively by VESCON.

In the protocol all changes of the task are saved. By the button "Add" an other entry can be added to the protocol.

More information for forwarding and selecting more recipients: [General information on editing tasks](#)

## 7.8 MFL approval

Via this menu point data records with the status "active" can be requested in an automated process for an MFL and its approval at the OEM. In case of a rejection the requester will be informed; it is also possible to cancel a request. The MFL must be marked as "Request new device allowed".

In the input mask several MFLs can be selected by <Control> + click or <Shift> + click. One request each per device and MFL is created and then approved or rejected separately.

Please, enter as much information as possible in the field „Remark“ stating the reasons why the device is needed. This facilitates the request for approval considerably.

Attention! Certain features in the MDM are not available for all records (depending on status, kind of manufacturer and record). Further information you find here:

### 7.8.1 Edit request for MFL approval

In order to edit a request for an MFL approval, please, open the function by a double click.

Via the function “Done“ the device is approved in the selected material approval list.

Via the function “Unresolved / Rejected“ the request is rejected.

Via the button “Approve in MFL...” the approval list can be modified.

You have the option to forward the task to another editor. Attention: The recipient of the forwarded task has to have the appropriate rights to handle the task.

In the protocol all changes of the task are saved. By the button "Add" an other entry can be added to the protocol.

More information for forwarding and selecting more recipients: [General information on editing tasks](#)

## 7.9 Project approval

If devices are existing in the MDM, but not in a corresponding project approval (tab “Approved devices“ in the project structure), you can request such an approval via the function “Request approval for project“. This request is only available for devices with the Status "active". The project must be marked as "Request new device allowed".

You can select several different projects in the input mask by <Control> + click or <Shift> + click. One request each per device and project is created and then approved or rejected separately.

The recipient, the person responsible for the project in the corresponding project structure, can then determine whether the device is supposed to be approved by special approval in a project or directly in an MFL.

At this point, it is important to make use of the field "Remark" to supply detailed information on the reasons why the device is needed to the person responsible for the project. This will facilitate the request for approval considerably.

Attention! Certain features in the MDM are not available for all records (depending on status, kind of manufacturer and record). Further information you find h

### 7.9.1 Edit request for project approval

In order to edit a request for project approval, please, open the function by a double click.

Via the function "Done" the device is approved in the selected project by special approval.

Via the function "Unresolved / Rejected" the request is rejected.

Via the button "Special approval in project ..." the project can be modified accordingly.

Via the button "Approve in MFL..." the device can be approved also in an approval list.

You have the option to forward the task to another editor. Attention: The recipient of the forwarded task has to have the appropriate rights to handle the task.

In the protocol all changes of the task are saved. By the button "Add" an other entry can be added to the protocol.

More information for forwarding and selecting more recipients: [General information on editing tasks](#)

## 7.10 Token

Token can be sendet to other MDM user by this task.

The tak list is generated from the tab "Token" in the structure element view.

### 7.10.1 Editing the token task

Open the task by a double click.

Click on the button "Select devices" to select the devices assigned to the token.

In the protocol all changes of the task are saved. By the button "Add" an other entry can be added to the protocol.

For forwarding or the selection of more recipients please click on [General information on editing tasks](#) .



## 7.11 Parts lists advice

This task is created automatically if this link is clicked in the notification mail after a parts list import.

By double click the editing window for this task is opened.

By the button "parts list recall" a separate window with the concerning parts list and their entries will be opened.

For forwarding the task or the selection of additional receivers please click on [General information on editing tasks](#) .

## 8 CAD interfaces

### Standard workflow and general information on the CAD interface

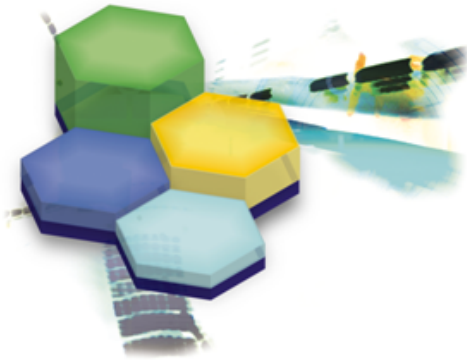
- The CAD interface allows the CAD programmes online access to the contents of the MDM data records for direct use in the device lists. Data records are assigned to the CAD icon via the function "Assign device".
- In the CAD cover sheet the material approval list (MFL) used or the respective MDM project is determined. By this you can see if non-approved articles have been used. It is always only one MDM project or one MFL that can be assigned to a CAD project.
- The CAD interface is available to registered users only.
- CAD records are always based on the current data from the database.
- Even users without write permission may create and request new devices via an MDM workflow. If these devices have not yet been approved in the workflow by the manufacturer or the MFL manager, they will have the status "Temporary".  
With this status they can already be assigned in the CAD applications!



Attention! "Temporary" data records may be deleted from the pool data even after being assigned! As a consequence, the assignment will get lost in the CAD systems which leads to error messages!

## 8.1 RUPLAN

### Interface to CAD system RUPLAN



## RUPLAN

On starting one of the reports mentioned below it is checked whether the material data manager is active, if not, it will be started automatically.

MDM data are not physically present in the CAD system RUPLAN; the connection is created by a link via the MDM-ID.

The interface to RUPLAN is based on the Standard Integra of Daimler AG. The RUPLAN reports needed for use are integrated in the respective RUPLAN data Integra and do not have to be installed separately. The RUPLAN master data are to be requested in the following way:

<b>Factory</b>	<b>Source/Hint</b>	<b>Contact person</b>
W010 Untertürkheim with the plants: - Mettingen, - Hedelfingen, - Untertürkheim, - Bad Cannstatt, - Zuffenhausen, - Sirmau, ...	The questionnaire described in attachment 2 of the specifications PPA part V has to be filled in for each order and forwarded to the contact person at Daimler's.  Then you will be sent the icon databases and their updates.	Specifications PPA part V  - List of contact persons in chapter 1.4 and - Attachment 1
W040 Berlin- Marienfelde	The questionnaire described in attachment 2 of the specifications PPA part V has to be filled in for each order and forwarded to the contact person at Daimler's.  Then you will be sent the icon databases and their updates.	Specifications PPA part V  - List of contact persons in chapter 1.4 and - Attachment 1
W050 Sindelfingen	The external user requests access to the ECM/PP. Then the project manager	Project manager

Factory	Source/Hint	Contact person
	<p>authorizes the user, so that the user can access any data. In case of updates, the ECM/PP will inform the user automatically via e-mail.</p>	
W054 Rastatt	<p>The external user requests access to the ECM/PP. Then the project manager authorizes the user, so that the user can access any data. In case of updates, the ECM/PP will inform the user automatically via e-mail.</p>	Project manager
W060 Wörth	<p>The external user requests access to the ECM/PP. Then the project manager authorizes the user, so that the user can access any data. In case of updates, the ECM/PP will inform the user automatically via e-mail.</p>	Project manager
W065 Düsseldorf	<p>The installation instructions "General part electrical engineering" mentioned in the specifications contain the regulations and the contact persons for the creation of the electrical documentation.</p>	Technical department
W068 Hamburg	<p>The questionnaire described in attachment 2 of the specifications PPA part V has to be filled in for each order and forwarded to the contact person at Daimler's.</p> <p>Then you will be sent the icon databases and their updates.</p>	Specifications PPA part V - List of contact persons in chapter 1.4 and - Attachment 1
W067 Bremen	<p>The external user requests access to the ECM/PP. Then the project manager authorizes the user, so that the user can access any data. In case of updates, the ECM/PP will inform the user automatically via e-mail.</p>	Project manager

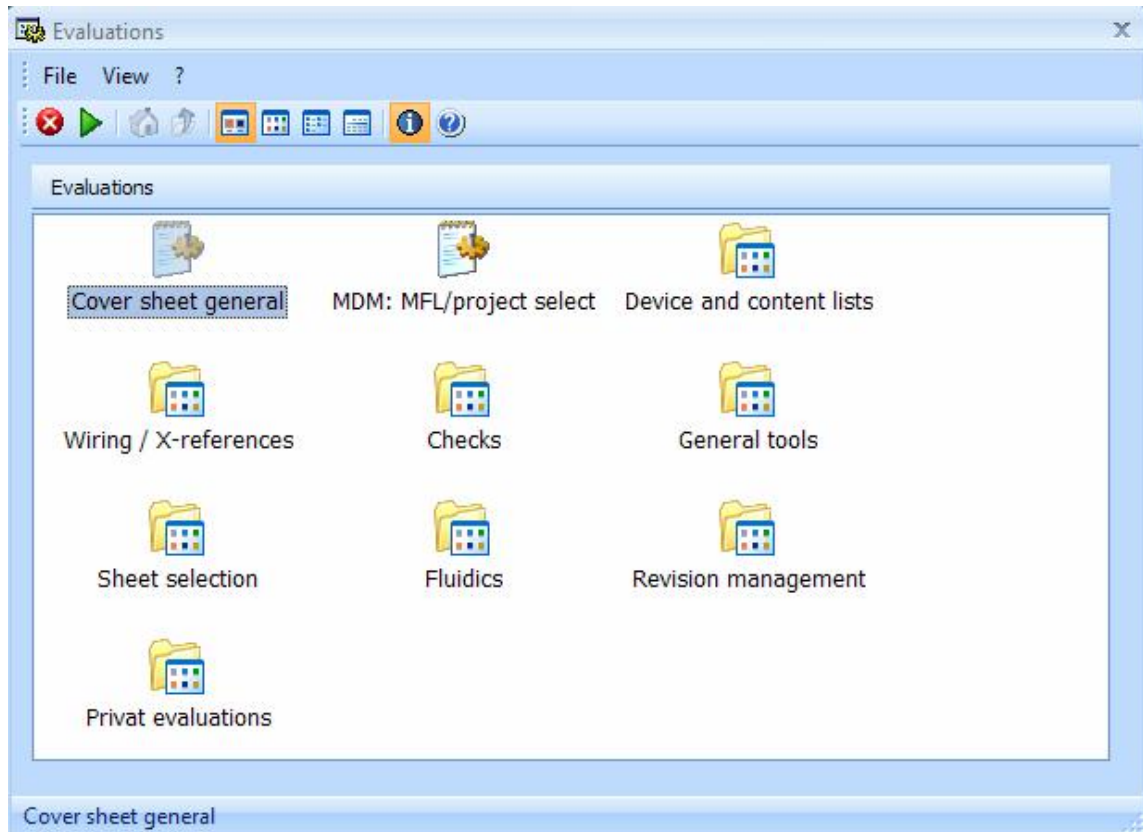
### 8.1.1 Selection of the MDM project or an MFL belonging to the RUPLAN project

The assignment of devices and the use of the reports in RUPLAN require an MDM project or an MFL being assigned to the RUPLAN project. Otherwise, the reports will not be executed. The following



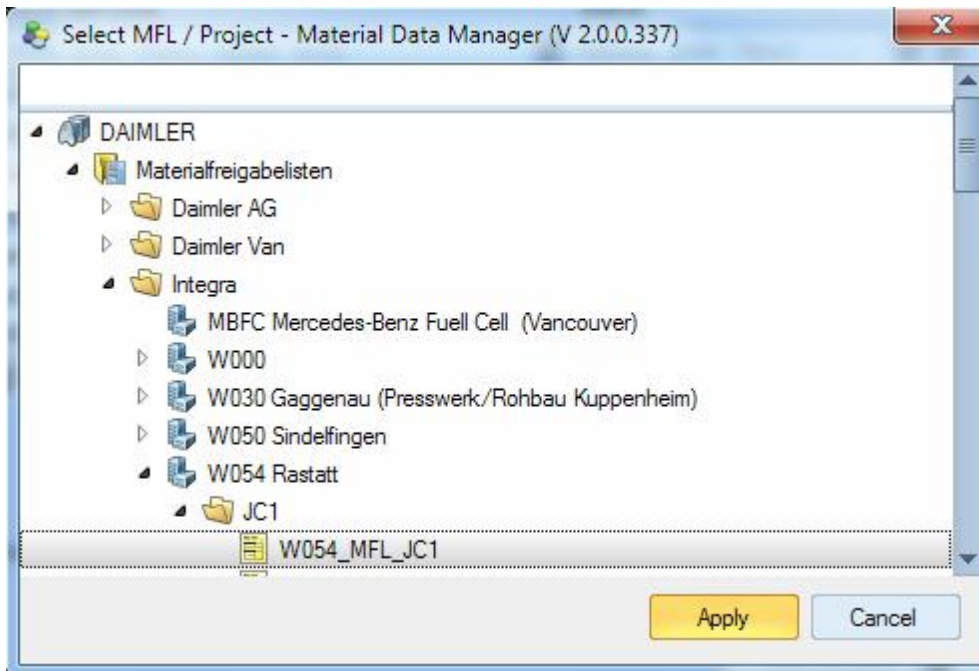
worksteps have to be carried out in order to assign an MDM project or an MFL:

- Start the menu “Reports” at any RUPLAN address in the first drawing database.
- Click on the icon “MDM: select project” in the window “Reports”.






**RUPLAN 1**

- Select the desired MDM or project in the material data manager.



Selection MFL / Project

- Click on the button “MFL / select project“ to transfer the marked MFL / project to the RUPLAN project. The selection is entered in the cover sheet.

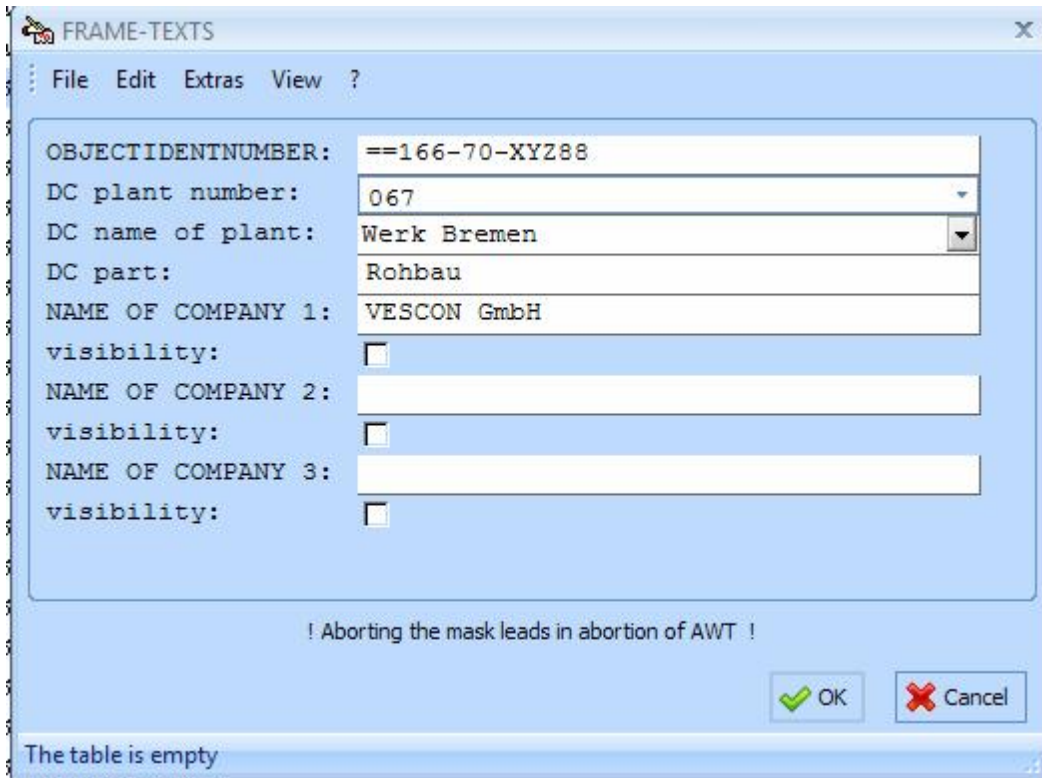
<h1 style="margin: 0;">Mercedes-Benz Werk Bremen</h1> <h2 style="margin: 0;">Standardvorlagen MRA</h2>																													
Description of plant: ==166-7-MP09 System description: Masterpiece Impact																													
Bill of materials: Integra W000 W000_VMFL_Rohbau_MRA Ruplan-project: 067_166-7-MP09																													
Inventory number: Supplier: Zulieferer Project manager:																													
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Date</td> <td>2012-03-22</td> <td rowspan="2" style="width: 15%; text-align: center;">  </td> <td style="width: 25%;">Name</td> <td>Mercedes-Benz</td> <td rowspan="2" style="width: 15%;">Deckblatt</td> <td rowspan="2" style="width: 10%;">Plant no.</td> <td rowspan="2" style="width: 10%;">067</td> <td rowspan="2" style="width: 10%;">Doc key</td> <td rowspan="2" style="width: 10%;">&amp;AAA</td> </tr> <tr> <td>Name</td> <td>VESCON</td> <td>Check</td> <td>Daimler</td> <td>Standardvorlagen MRA</td> </tr> <tr> <td>Status</td> <td>Change</td> <td>Date</td> <td>Name</td> <td>Stand</td> <td>Origin</td> <td>067_166-7-MP09_V010009_AA001</td> <td>Description of plant</td> <td>==166-7-MP09</td> <td>Sh. No.</td> <td>0000</td> <td>Sh.</td> <td>01 of 2</td> </tr> </table>		Date	2012-03-22		Name	Mercedes-Benz	Deckblatt	Plant no.	067	Doc key	&AAA	Name	VESCON	Check	Daimler	Standardvorlagen MRA	Status	Change	Date	Name	Stand	Origin	067_166-7-MP09_V010009_AA001	Description of plant	==166-7-MP09	Sh. No.	0000	Sh.	01 of 2
Date	2012-03-22		Name		Mercedes-Benz	Deckblatt						Plant no.	067	Doc key	&AAA														
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Status	Change	Date	Name	Stand	Origin	067_166-7-MP09_V010009_AA001	Description of plant	==166-7-MP09	Sh. No.	0000	Sh.	01 of 2																	

Cover sheet



### 8.1.2 Assignment of the plant number in the drawing frame

Via the plant number in the drawing frame the issue of the corresponding item code number in the device and order list is controlled. The selection is done via the report “Cover sheet in general”.

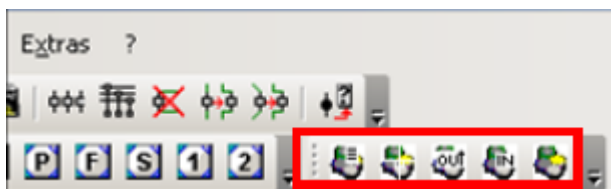


Plant number

### 8.1.3 Device assignment in the graphical drawing editing

#### Icons for device assignment

In the graphical drawing editing there are five icons in the icon bar of the default RUPLAN workplace / Integra to control the device assignment.

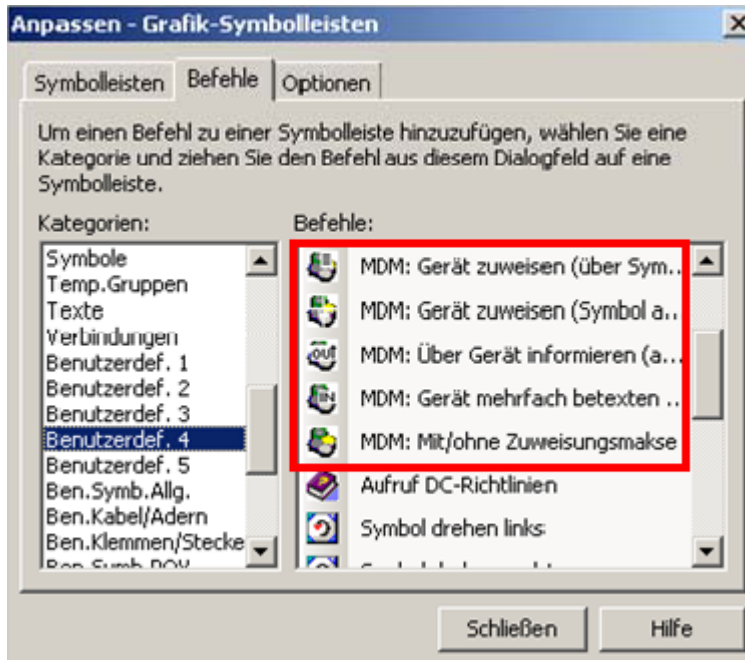


RUPLAN 3

If these icons are missing due to the individual design of the graphical user interface, they can be placed in the icon bar according to the WINDOWS standard practice. For this the following steps are needed:

- Select the menu point “Adapt“ in the menu “Extras” or right-click in the icon bar.

- As illustrated in the following screenshot, move to the tab “Orders“ and select the entry “User def. 4” in the list field “Categories”.
- Move the marked icon into the icon bar via the Drag & Drop function.




RUPLAN 4

Now the icon bar for the MDM complies with the standard represented above.

### Device assignment by icon

For assigning a device or a combination to a RUPLAN icon during the drawing editioning the following worksteps have to be carried out:


- Start the report via the icon “MDM: assign device (via icon)” .
- Use the left mouse button to identify the RUPLAN icon which a device or a combination is supposed to be assigned to.
- Select the data records that are supposed to be assigned either via the assignment mask (see device assignment via assignment mask) or directly via the MDM user interface (see device assignment without assignment mask). You will find detailed instructions under these references.

If a material approval list has not yet been assigned to the project, a respective message will appear on the screen and the device assignment will be canceled.

If the identified RUPLAN icon has already been jotted (under RUPLAN online control), it will be tried to repeat the jotting after the modification. Should the jotting prove to be impossible after entering the new data, a corresponding message will appear on the screen.

### Device assignment by attaching the icon to the crosshairs


For selecting a device or a combination with the RUPLAN icon defined in the respective TG1 (sub-function 50 or 51) during the drawing editioning, please, carry out the following steps:

- Start the report via the icon “MDM: assign device” (symbol attached to crosshairs) .
- Select the data records that are supposed to be assigned either via the assignment mask (see device assignment via assignment mask) or directly via the MDM user interface (see device assignment without assignment mask). You will find detailed instructions under these references. If no TG1, TG2 or TG3 has been entered in the selected data record or in the selected combination or if no TG1 has been entered manually in the device assignment mask, a respective warning message will pop up.
- Place the icon attached to the crosshairs in the desired position in the plan.

After placement the icon will be captioned with the assigned data in the corresponding text fields. If no material approval list has been assigned to the project yet, a respective message will appear on the screen and the device assignment will be canceled.


### Reading out the assigned data records from an icon

The device data assigned to an icon can be displayed. For this, the following worksteps have to be carried out:

- Start the report via the icon “MDM: inform about device (read out)” .
- Identify the icon from which the entered device assignment is supposed to be read out with the left mouse button.

### Multiple assignment of device information

The device assignment last selected or read out from the MDM can be entered at any number of icons via this function. For this, the following worksteps have to be carried out:

- Start the report via the icon “MDM: multiple captioning of device (read in)” .
- Identify the icon which the information last selected from the MDM or from an icon is supposed to be assigned to with the left mouse button.



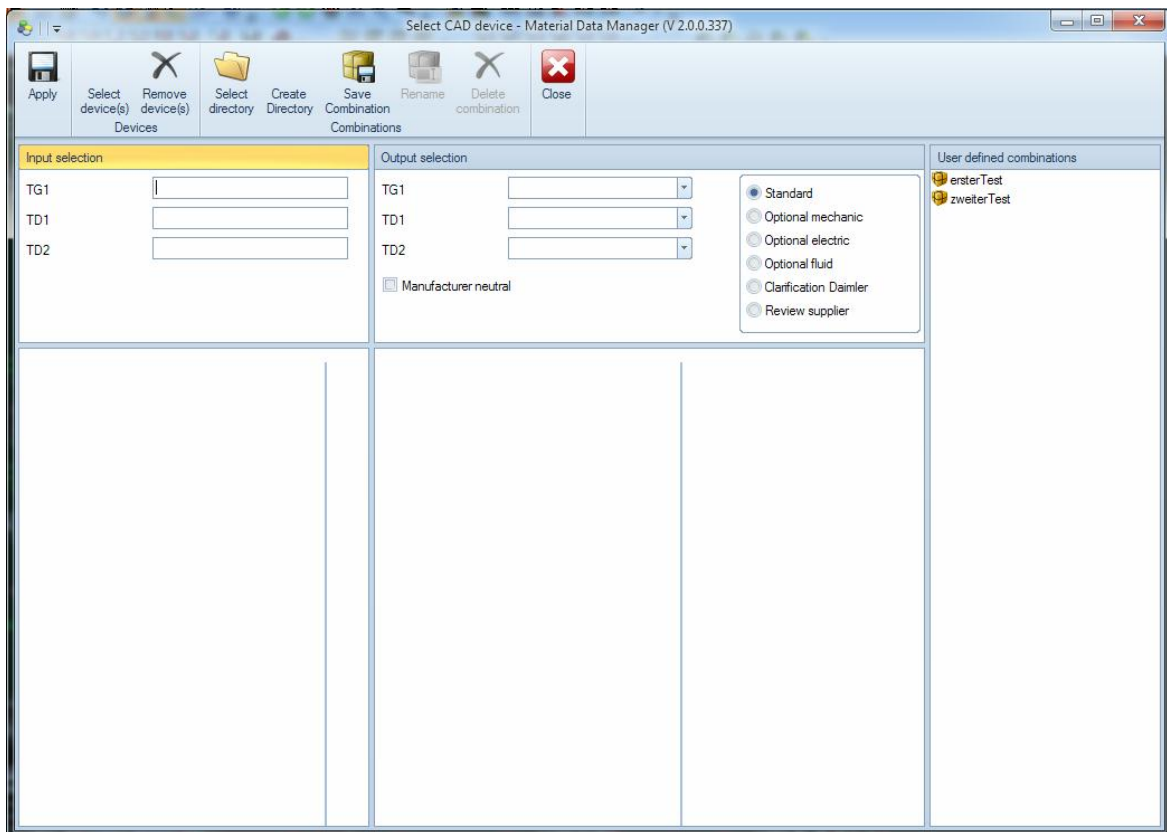
The data are entered at the identified icon; immediately afterwards you can identify another icon supposed to get an entry or you can cancel the assignment by selecting a new action.

### Activate / deactivate assignment mask

This function is no longer available. The assignment mask (Select CAD devices) cannot be deactivated.

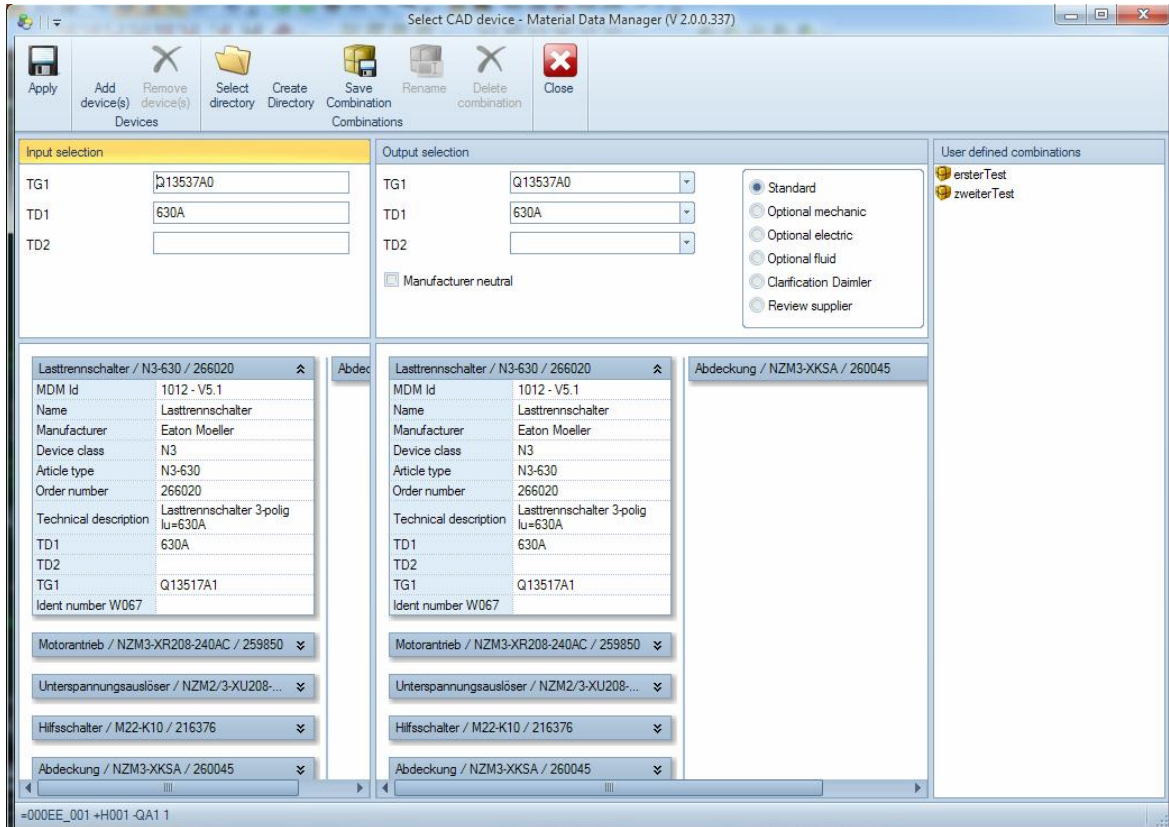
### Device assignment via assignment mask

The assignment mask and the material data manager are opened at the same time.



Assignment mask 1

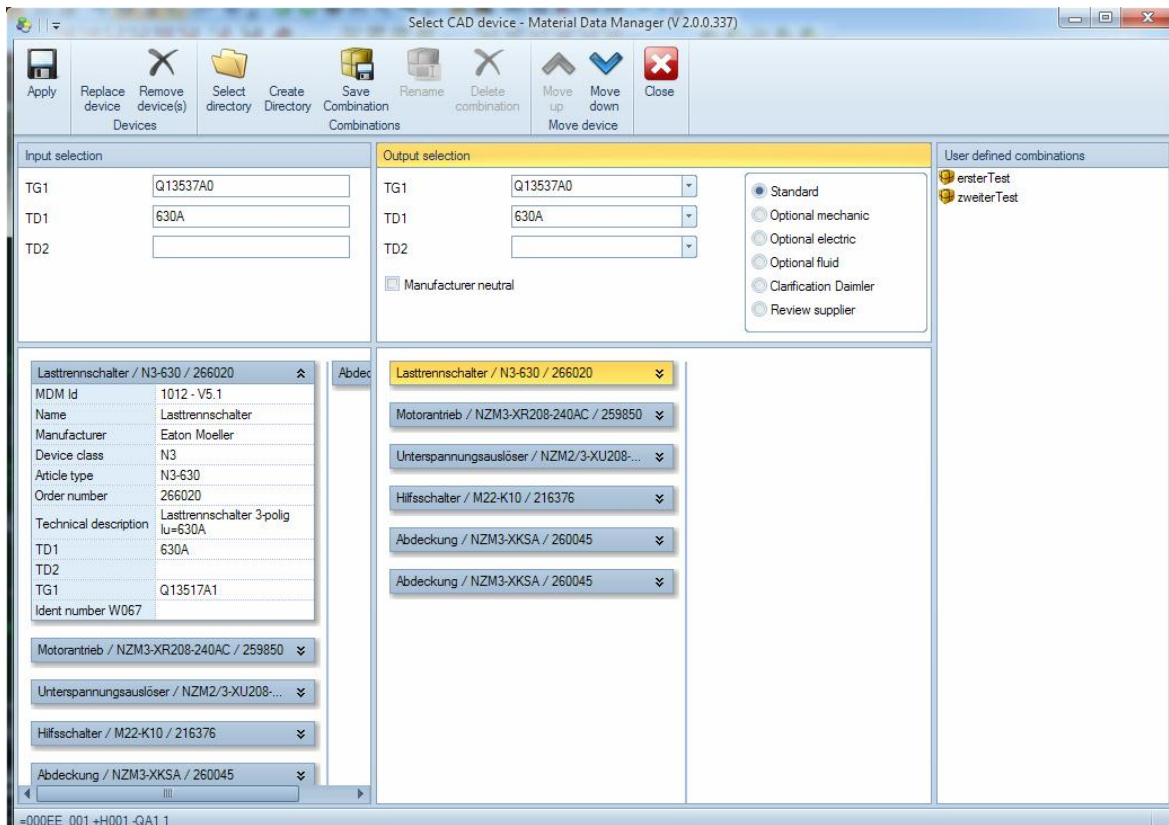
If device entries have already been assigned in RUPLAN, this data will be displayed in the windows "Input selection (from icon)" and "Output selection (in icon)"



**Assignment mask 2**

It is only the window “Output selection (in icon)” that can be edited. Each data record is displayed in its own list field (card), this applies not only to the individually selected data records, but also to combinations transferred from the MDM. Data records that are not listed, approved or active in the MFL transferred from RUPLAN are displayed with a red background as a warning. If an entry is transferred from the text field NO/NO (entry of device or MDM-ID ) which does not exist in the MDM, a warning message pops up.

The list fields (cards) of the individual data records can be opened or closed via the the double arrow.



**Assignment mask 3**

### Select data records

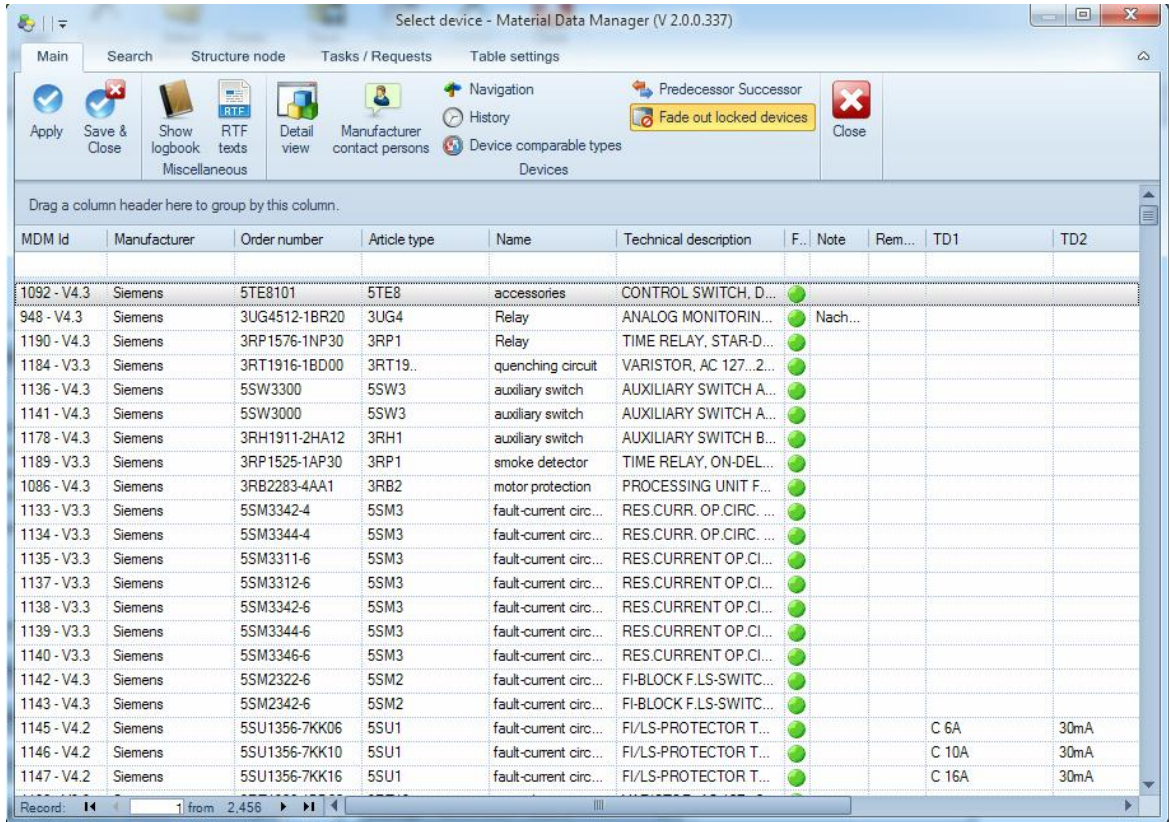
The data records or combinations are selected from the material data manager by the tabs "Add device(s)" or "Replace device(s)"



**Select data 1**

The tab "Replace device(s)" is available if in the area "Output selection" a device is marked. You can assign any number of data records.

When doing so, you can use any search and filter functions in the material data manager.



Select data 2

You can transfer the devices by the tabs "Apply" or "Save & close". Alternatively "drag & drop" the devices into the assignment mask.

**Delete data records**

Mark the respective data records and press the Del key.

**User-dependent combinations – Save**

The data records displayed in the window "Output selection (in icon)" can be saved as user-dependent combinations. You can manage the combinations by several tabs.



Combinations

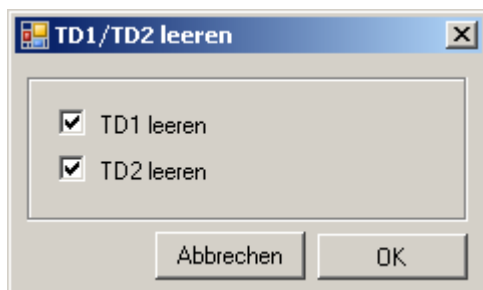
## Entries in TG1, TD1 and TD2

Entries existing in the data records are written into the corresponding list fields. It is the values from the topmost list entry that are transferred. If there are several different entries (e.g. entries in TG2, TG3 or in the case of device combinations several entries in TD1), the entries can be selected with the list arrow. Manual entries via the keyboard are also possible.

Entries existing in the window “Input selection (from icon)” can also be selected with the list arrow.

If the TG1 data in the window “Input selection (from icon)” are similar to entries in the field TGn of the newly selected device or the newly selected device combination, they will be transferred into the system. If the newly selected device or the newly selected device combination does not contain any entries in TGn, the existing data in the field TG1 in the window “Input selection (from icon)” will be transferred into the system. This data, as well, can be changed manually, as described above.

If data are existing in the fields TD1 or TD2 in the window “Input selection (from icon)” and the data fields in the window “Output selection (in icon)” are empty, a confirmation prompt will pop up and ask whether the text fields are really supposed to be emptied.



TD1 / TD 2 empty

When making manual entries, please, observe the existing conventions to avoid endangering the consistency of the data!

## Optional settings “Optional”, “Clarification”, “Neutralize manufacturer”

In the device assignment mask further options are available in the window “Output selection (in icon)”, with only one option each being activatable via the option fields. The topmost option “Standard (default)” sets back any options selected before.



Output selection

TG1 Q13537A0

TD1 630A

TD2

Manufacturer neutral

Standard

Optional mechanic

Optional electric

Optional fluid

Clarification Daimler

Review supplier

Optional settings

### Options “Optional mechanic”, “Optional electric”, “Optional fluid”

Via this option devices can be marked accordingly in the device list or the order list. Instead of the order number the entry “Optional...” is made in the lists.

“Optional electric” with circuit diagrams existing in the RUPLAN project and “Optional fluid” with fluidic diagrams existing in the RUPLAN project lead to error messages in the test record. Via the option field “Clarification D” you can mark devices whose use has to be clarified with Daimler.

“Clarification D” leads to the status message “D” in the test record. Via the option field “Review supplier” you can mark devices whose use has not been definitely clarified by the project engineer. The data of the devices thus marked must be corrected by all means before the desired acceptance test of the the circuit diagrams.

“Review supplier” leads to an error message in the test record. Activating the control field “Neutralize manufacturer” replaces the manufacturer’s name in device and order lists by the entry “Manufacturer neutral”. This option is automatically selected together with the above mentioned options, but can be separately deselected/selected (also valid for Standard).

“Neutralize manufacturers” causes warning or error messages in the test record. For cables and devices on site (+X) the number of each is determined and messages with the status “W” are created; this reminds you to check (each message appears cumulated without drawing, path and BTM). All other devices marked as manufacturer-neutral are reported as errors. Via the icon “Assign” the data records are transferred to RUPLAN.

## 8.1.4 Reports in RUPLAN

The RUPLAN reports “Terminal diagram”, “Cable list”, “Order list”, “Parts list” and partly the test runs obtain the device data they need from the material data manager. Therefore it is necessary that a connection to the material data manager is existing or can be established for the time these reports are running.



The reports are started via the RUPLAN dialogue, a separate operator guidance in the material data manager is not provided.

If the material data manager is not open when the reports are started, it will be opened automatically, if possible, at the start of the reports and a login prompt will appear.

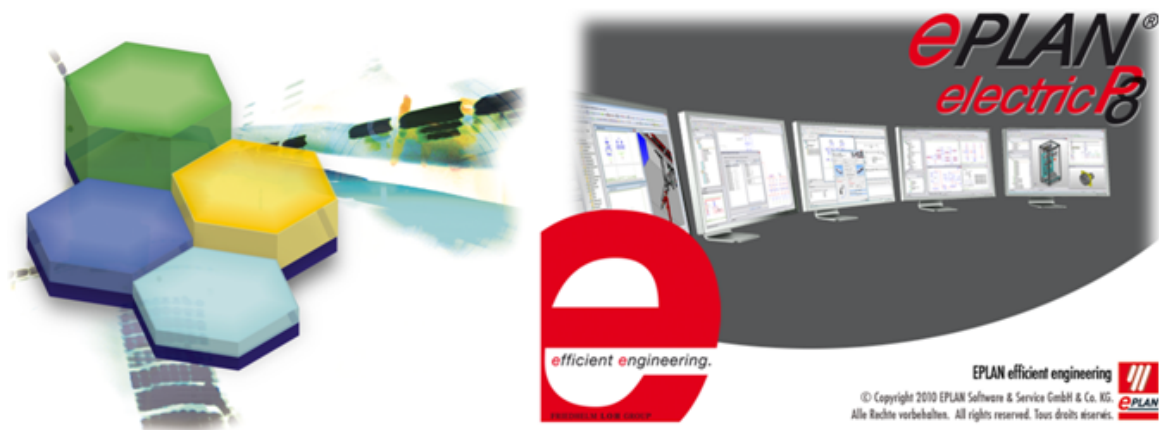
If the material data manager is not available, a corresponding message will pop up and the respective report will be canceled. In any case, the check is done immediately at the start of the report, so that the time-consuming processes of selecting the data from the plans will not be initiated in case of an error.

## 8.2 EPLAN Electric P8 / Interface 1 (cancelled)

The EPLAN interface version 1 is not longer supported since MDM version 0.98.

Only the version 2 performs.

## 8.3 EPLAN Electric P8 / Interface 2 Interface to CAD system EPLAN Electric P8



As from now a second EPLAN plugin is available in the MDM folder (...MDM\PlugIns\Eplan2).

Contrary to the first version of the interface (...MDM\PlugIns\Eplan) an enhanced integration in EPLAN had priority. As far as possible the standard operating principles of EPLAN were considered.

The most important topics are:

- Taking over the MDM contents into the EPLAN default property fields of the project article are configurable (default setting: only the MDM Id and the plug in version are written into the "free attributes" of the EPLAN Electric P8 article).
- "Look & Feel" of dialogues and handling in the line with EPLAN
- Optimized automatic mapping EPLAN article <-> MDM device
- Writing back of complete parts lists into the MDM

- Automatic deployment of the EPLAN project (PDF file) in the MDM
- Generating of an article preselection scheme according to the assigned MFL or project
- Automatic generating of articles

#### **Data management - principle functionality**

In principle, the data exchange between MDM and EPLAN Electric P8 works as follows:

- EPLAN articles can be linked with a MDM device (only in the project) by writing the MDM Id into the property 91 (Property 22147\_[91]). This linking operates automatically if the order number and the manufacturer (as well as the alternative spellings of manufacturers defined in the MDM) are identical. Notations defined by the user are configurable and can be saved locally.
- The contents of an MDM record needed for parts lists can be entered into the EPLAN article (only in the project- depending on the configuration). The EPLAN article master data will not be modified!
- With intent to check the material approvals a MDM structure element is assigned to the EPLAN project. This assignment is saved in the EPLAN project properties and will be displayed on the cover sheet.
- An article preselection scheme is generated automatically (approved articles).
- Before running reports EPLAN articles can be matched anew with the MDM with intent to apply any changes of MDM data automatically.
- The steps of generating a parts list are the following:
  - matching of data
  - generating the graphical parts list in EPLAN
  - writing back of the complete parts list into the MDM
  - deployment of the EPLAN project (PDF file) in the MDM

#### **Requirements:**

- Installation/Setup (Functionality available in versions 2.3, 2.4 (32bit + 64bit) ,2.5, 2.6 and 2.7)
- Parts list form VES002.f01
- Licence EADN: Application 0068 for EPLAN Electric P8 (MDM interface)

### **8.3.1 Request unlock key / Interface 2**

In order to be allowed to use the interface to EPLAN Electric P8, you have to apply for an unlock key at VESCON. Suppliers request the unlock code at VESCON. Please, proceed as follows:

- Go to <http://www.materialdatenmanager.de/> on the internet and there to the link “Interfaces” and there to “Form” or “Unlock form”.
- Enter the data and click on the button “Send”.



## Clearing for the EPLAN P8 Interface

Please fill out the form to activate the interface. Required fields are marked with \*.

Please note that no "foreign" License will be activated through EPLAN.

The Description for the interface to EPLAN P8 is available in Online Help. The required EPLAN Master data forms are available for download on our website.

The free use of the interface is valid until recalled.

company\*:

title:  Ms.  
 Mr.

given name contact person\*:

surname contact person\*:

email-address\*:

telephone number\*:

facsimile number:

mobil phone number:

street\*:

postcode\*:

city\*:

state\*:

EPLAN-version:

EPLAN-customer ID:\*

number of licenses:\*

Your dongle-number for the licenses (1-n dongelnumbers)\*:

SWART-number:

notes:

**Request unlock key**

### [Request unlock key](#)

- After that you will receive a zip-file with an example project and forms as well a an e-mail directly from Eplan Software und Service GmbH & Co KG containing the new unlock codes.
- Start EPLAN Electric P8 with the pressed <Shift> key and enter the new unlock code in the licence client. In the list of extensions available you will now find the licence „EADN: Application 0068“ for EPLAN Electric P8 (MDM interface).

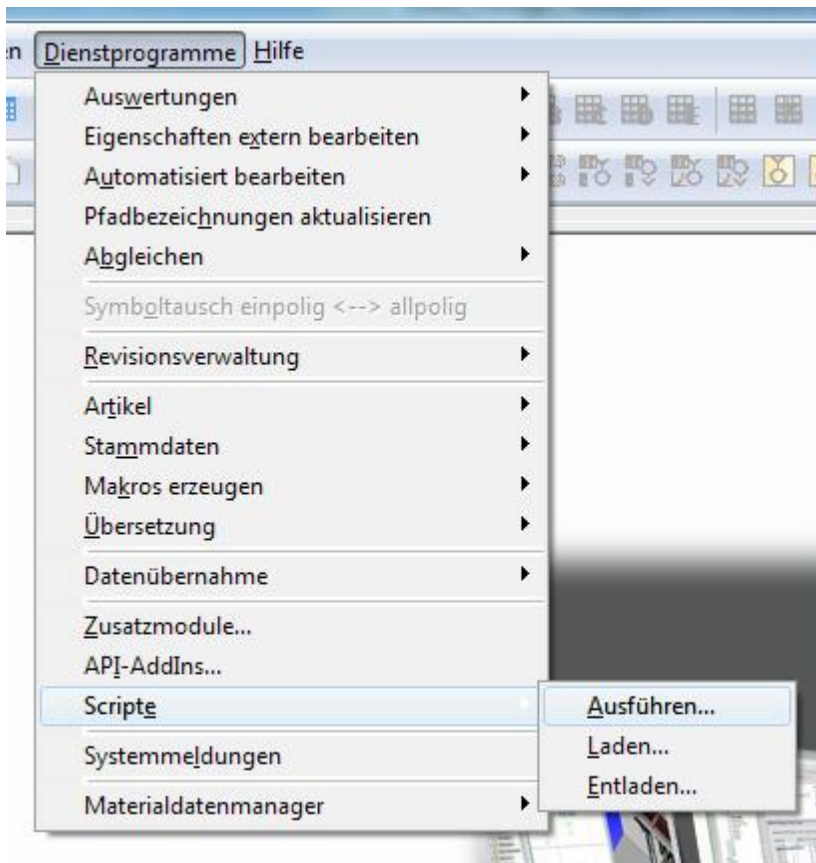


Request unlock key 2

### 8.3.2 Installation / setup / Interface 2

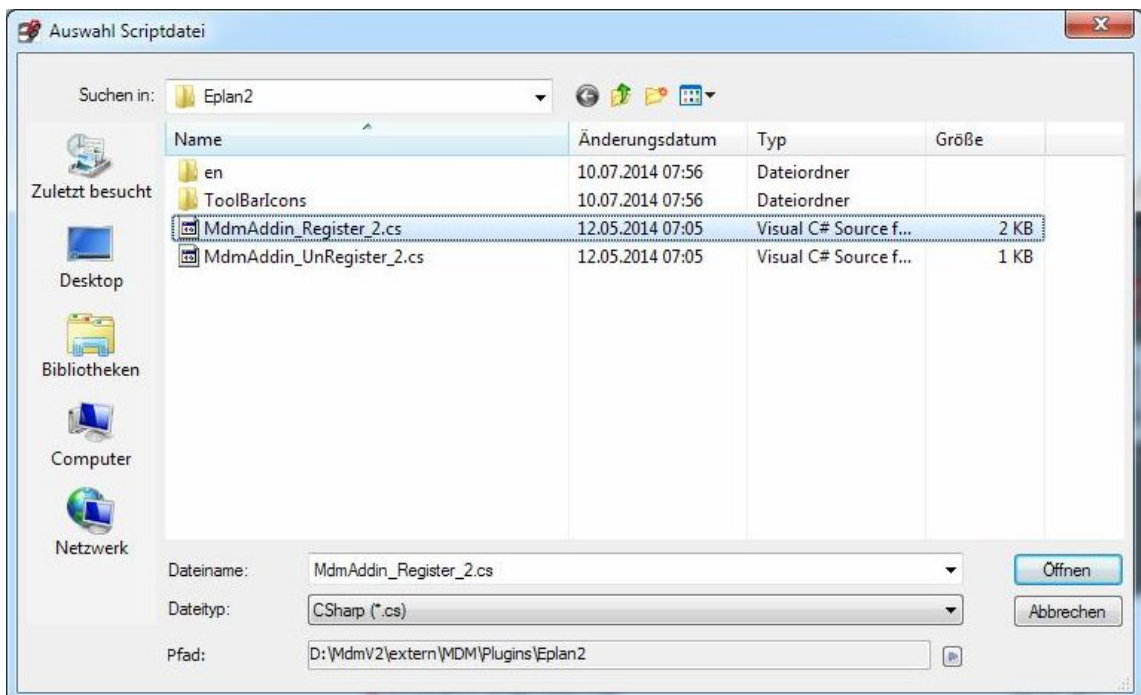
After entering the unlock key, please, proceed as follows:

- Start the MDM (as a registered User).
- Start EPLAN Electric P8 and open the menu "Utility programs – scripts – execute"



Installation\_1

and open the MDM script "...:MDM\Plugins\Eplan\MdmAddin\_Register\_2.cs"

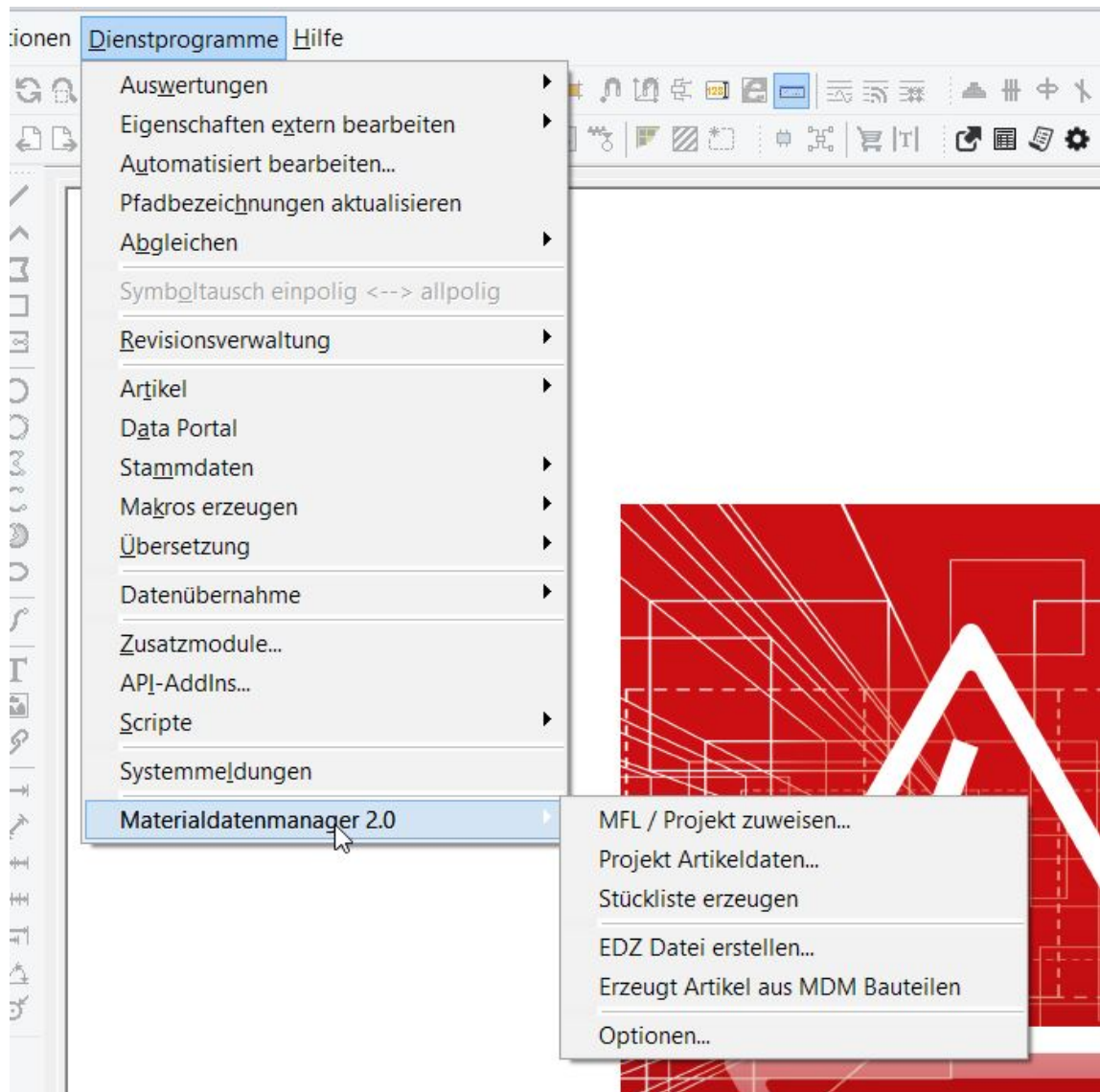


Installation\_2

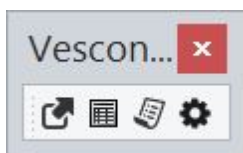
(the PlugIn must stay on a local drive and may not be relocated to a net drive!)



- Now in the menu "Utility programs" the MDM menu is listed and the MDM icon bar is available.



Menü\_Materialdatenmanager

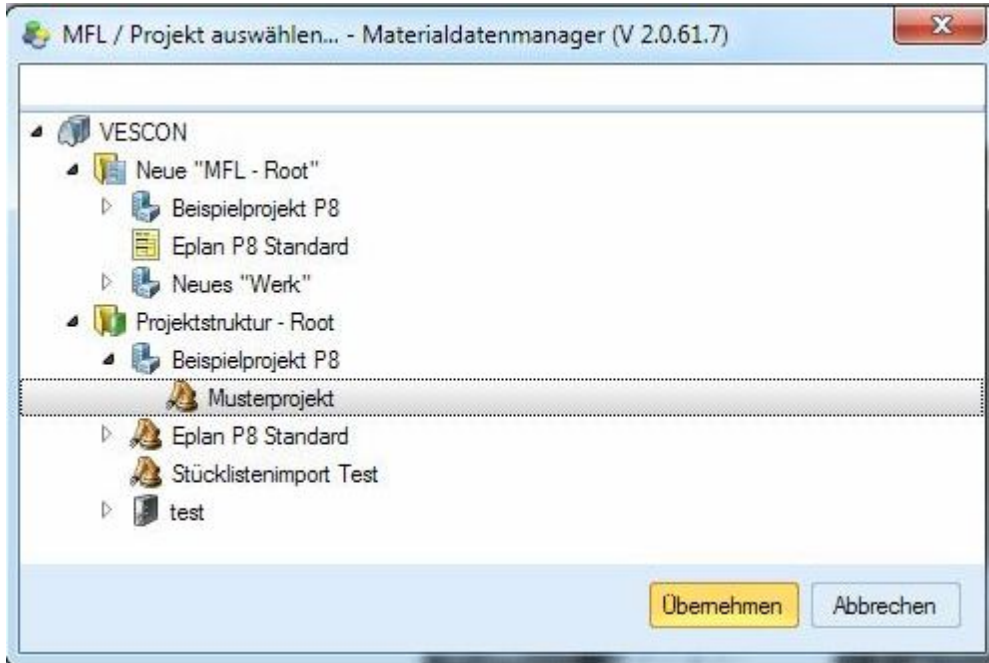


Menü\_Materialdatenmana

### 8.3.3 Selection of the MFL or the project belonging to the EPLAN Electric P8-Project / Interface 2

In order to check the material approvals a MDM structure element (MFL or project) is allocated to the EPLAN project, entered in the project attributes and displayed on the cover sheet. Please, proceed as follows to assign an MFL / project:

- Start the menue “Utility programmes – MDM – MFL / assign project”.
- Select the desired MFL / Project in the material data manager



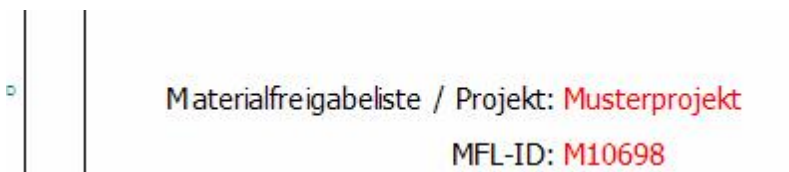
MFL\_/\_Projekt\_auswählen

- click on the button “MFL / select project...” to transfer the marked MFL / project to the Eplan project. The selected material approval list will be assigned to the project and entered in the project attributes.

Mdm.MfIName <40099>	Musterprojekt
Mdm.MfIKey <40100>	M10698

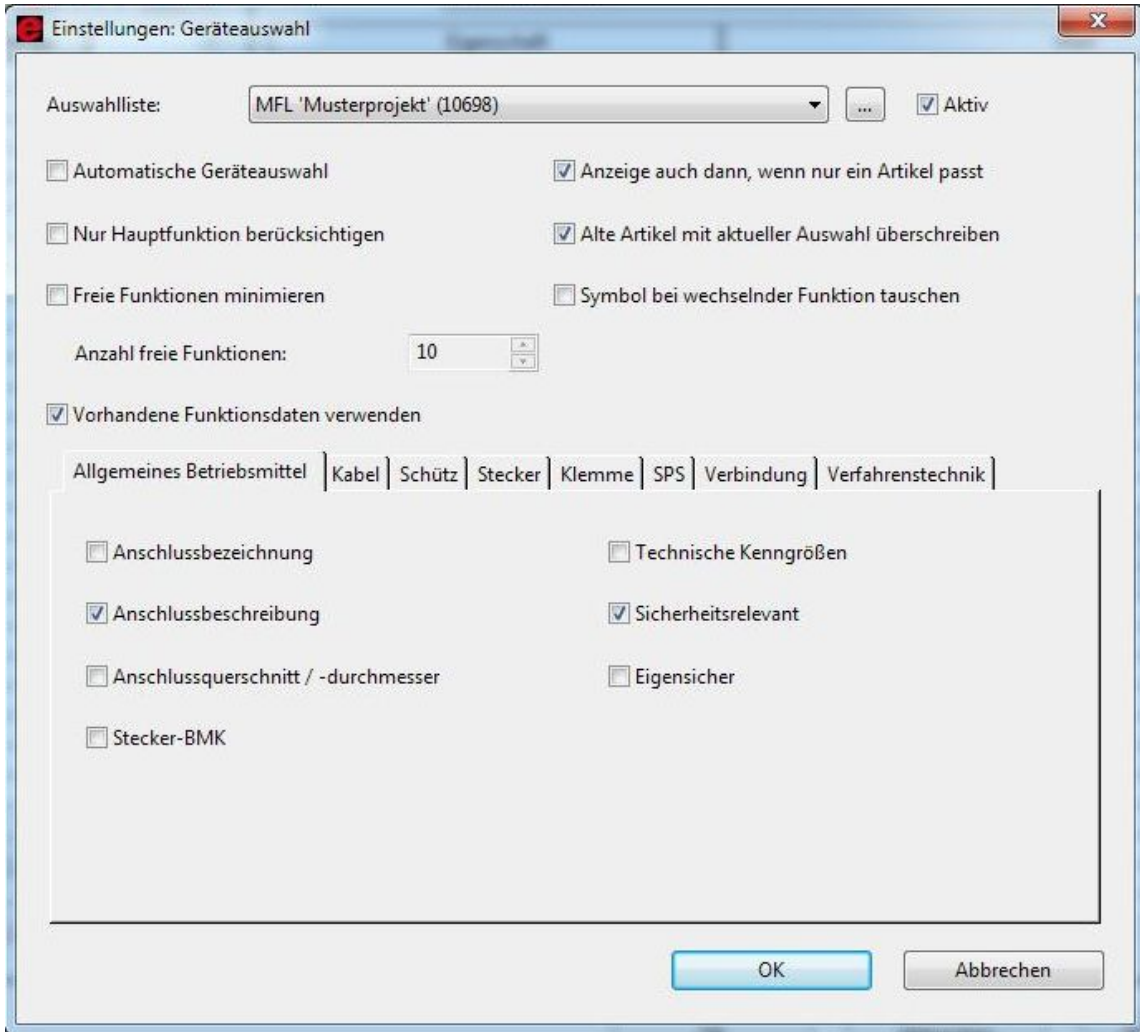
Projekteigenschaften

These project attributes are displayed on the cover sheet

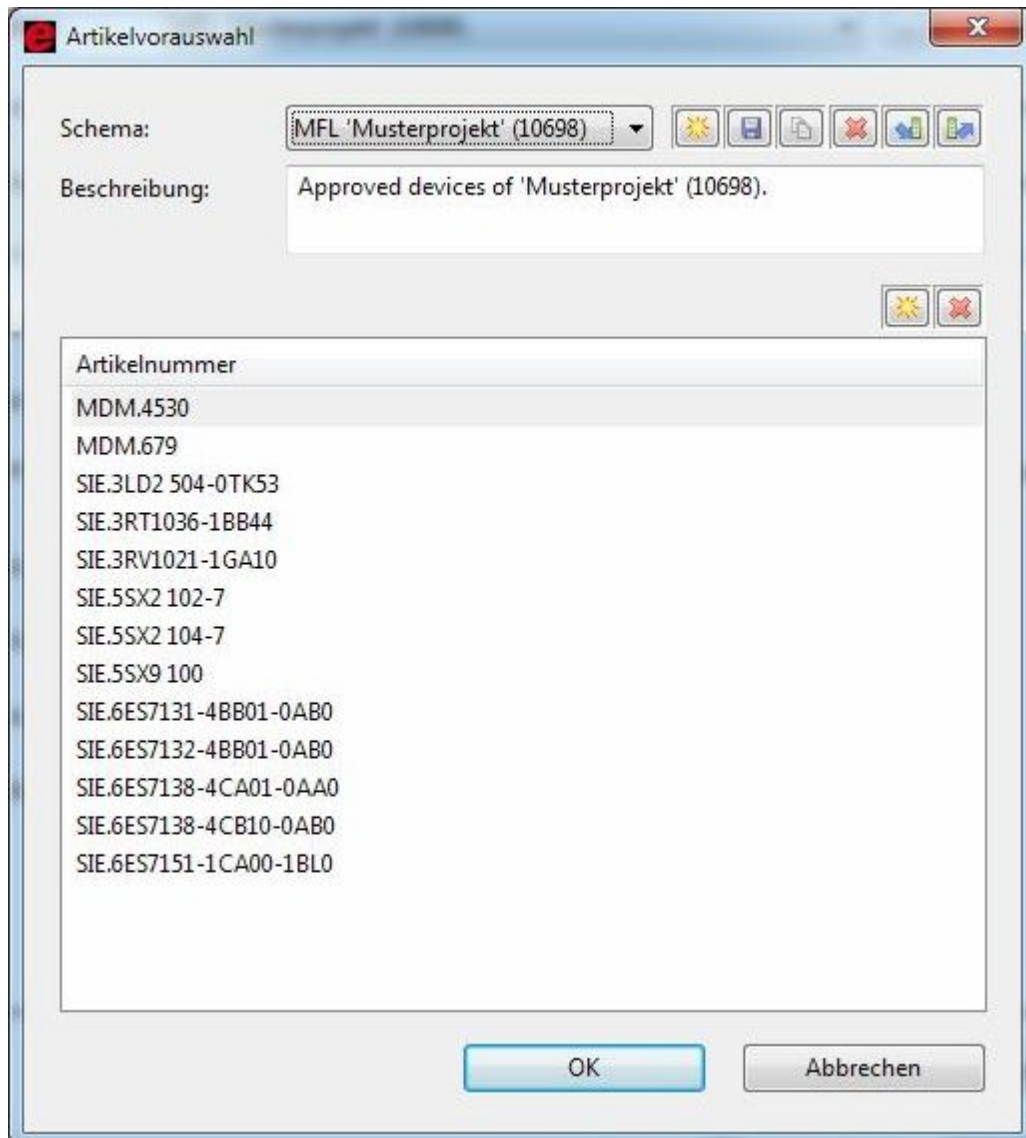


MFL\_Deckblatt

An article preselection scheme is generated for linked (approved) articles.



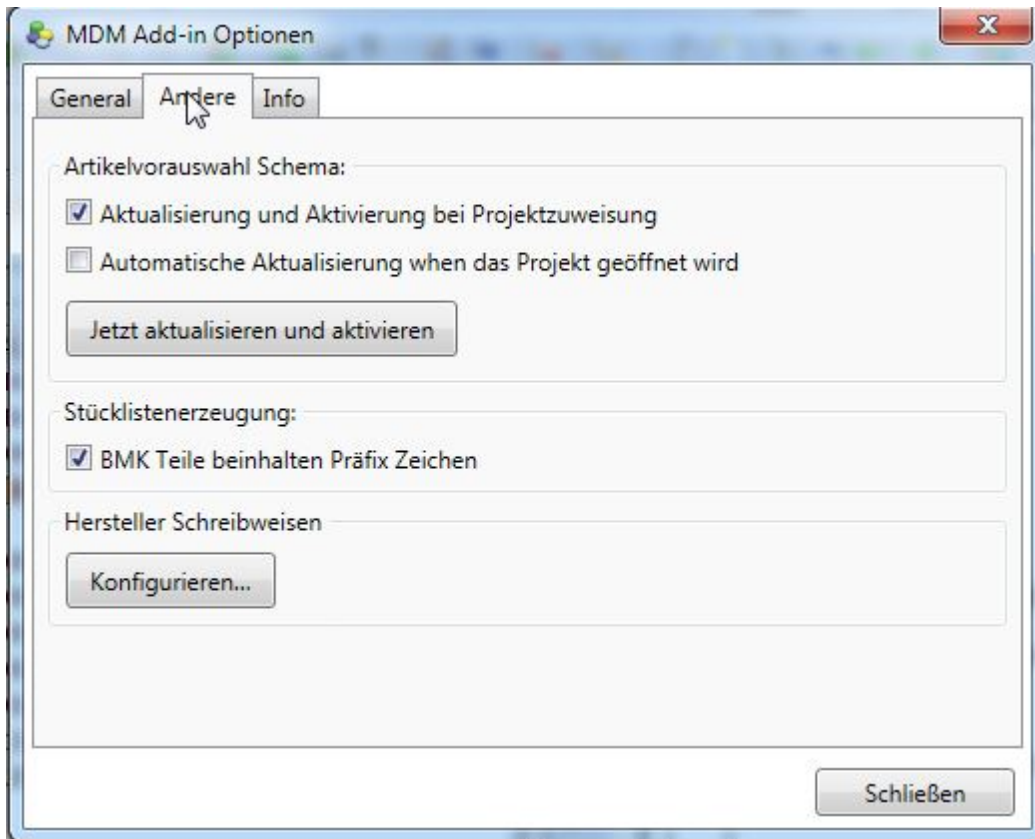
Artikelvorauswahl\_1



Artikelvorauswahl\_2

The updating of the article preselection can be regulated in the dialogue "Options - others"





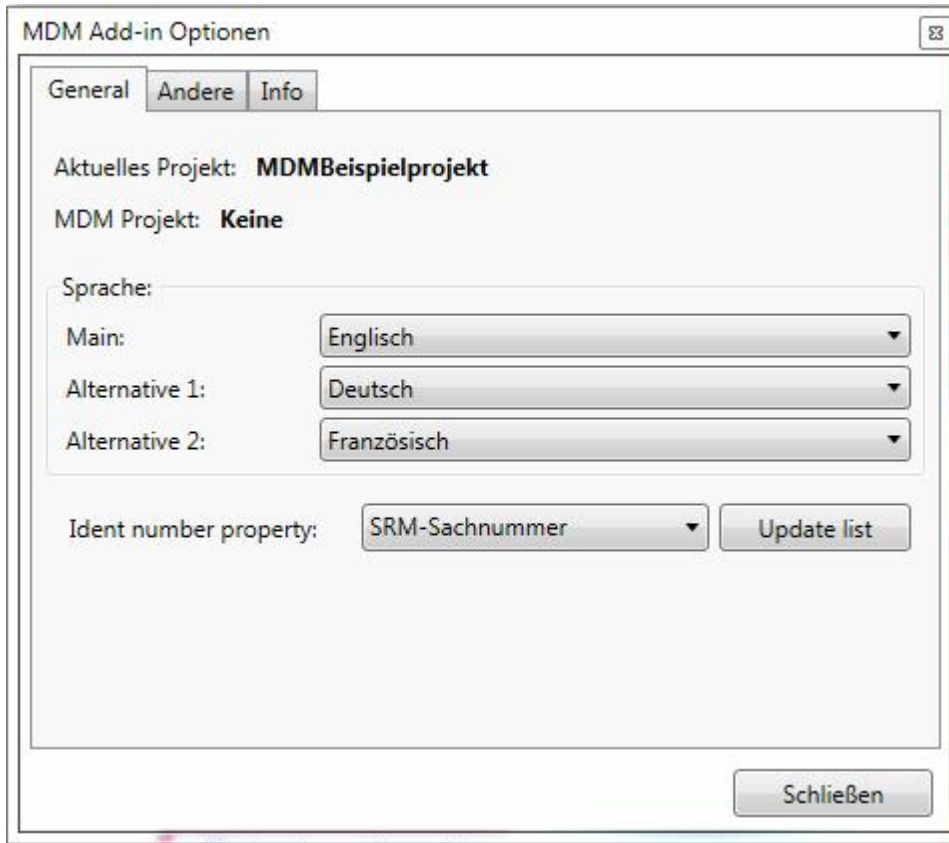
MDM\_Optionsen\_2

### 8.3.4 Assignments / Interface 2

#### Assignment of the language

The language of the "Technical description" is assigned by the menu "Utility programs - MDM - options" or by the MDM icon bar "Vescon MDM - options". Here it is determined which language from the MDM is supposed to be used for the device parts list. At present the "Technical description" is available in the languages German, English, French and Hungarian. Via "Alternative languages" or the dialogue "Options - general" you can determine which language is supposed to be selected, if there is no contents existing for the language selected first.

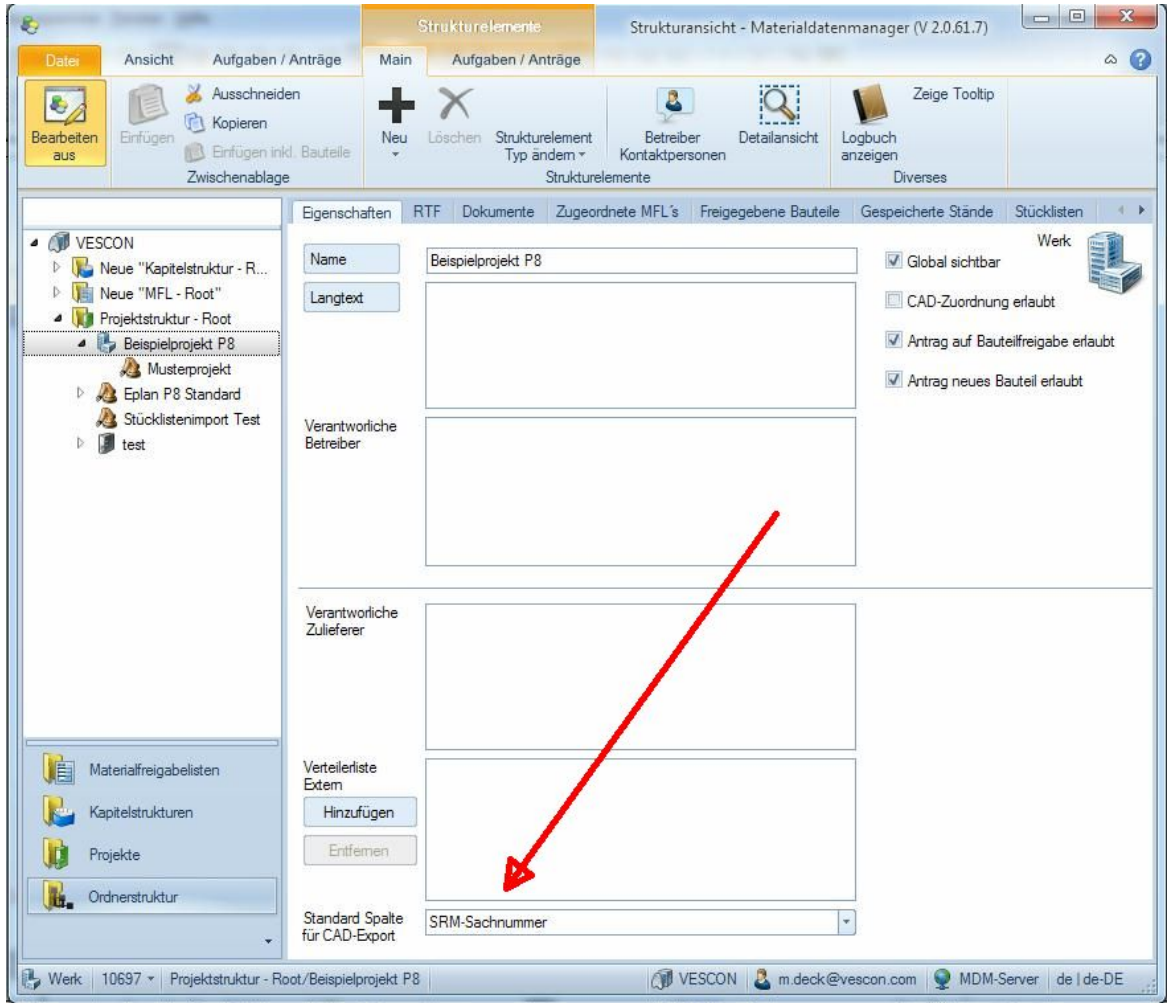




MDM\_Optionen\_1

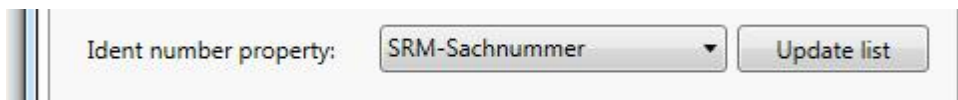
### Assignment of the plant-specific item code number

Here it is determined which plant-specific item code number of the MDM is entered in the field "Ident number" in the parts lists. The plant-specific item code number of the MDM is assigned to the properties of the structure element in "Default column for CAD export". This should be done on the level "plant" and can be herited to the levels below.




MDM\_Eintrag\_CAD\_Export

If no assignment was determined in the MDM, this can be done by the menu "Utility programs - MDM -options" or by the MDM icon bar "Vescon MDM - options".



Optionen\_3

### 8.3.5 Link article with the MDM / Interface 2

By the menu "Utility programs - MDM - project article data" or by the MDM icon "Vescon MDM - project article data"  the dialogue will start to link articles existing in the project with MDM data records (so-called mapping). On request, the contents of an MDM data record will be transferred to "Free attributes" of the EPLAN Electric P8-article. The corresponding parts list form obtains its data from these fields. For this the following worksteps have to be carried out:

- Start the report by the menu "Utility programs - MDM - project article data" or by the MDM icon bar "Vescon MDM - project article data". The following mask opens up:

Projekt Artikeldaten - MDM\_Beispielprojekt

MDM Bauteile suchen

EPLAN Eigenschaften				MDM Eigenschaften				
Artikelnummer	Hersteller	Artikelnummer	Artikeltyp	Bauteil ID	Hersteller	Artikelnummer	Artikeltyp	Ist unterschiedlich
1. LAPP.1119.303 (3G1,5)	LAPP	1119.303	ÖLFLEX CLASSIC 110					
2. LAPP.1119.304 (4G1,5)	LAPP	1119.304	ÖLFLEX CLASSIC 110					
3. LAPP.1119.404 (4G2,5)	LAPP	1119.404	ÖLFLEX CLASSIC 110					
4. MDM.4530	Herstellerneutral			4530	Herstellerneutral			Ja
5. PHO.QUINT 24V DC/10 A	PXC	29.38.61.7	QUINT 24 VDC/10 A					
6. SIE.3LD2.504-0TK53	SIEMEN	3LD2.504-0TK53	3LD					
7. SIE.3RT1036-1BB44	SIEMEN	3RT1036-1BB44	3RT1036-1BB44					
8. SIE.3RV1021-1CA15	SIEMEN	3RV1021-1CA15	3RV1021-1CA15					
9. SIE.3RV1021-1GA10	SIEMEN	3RV1021-1GA10	3RV1021-1GA10					
10. SIE.5SX2.102-7	SIEMEN	5SX2.102-7	5SX2.102-7					
11. SIE.5SX2.104-7	SIEMEN	5SX2.104-7	5SX2.104-7					
12. SIE.5SX9.100	SIEMEN	5SX9.100	5SX9.100					
13. SIE.6ES7131-4BB01-0AB0	SIEMEN	6ES7131-4BB01-0AB0						
14. SIE.6ES7132-4BB01-0AB0	SIEMEN	6ES7132-4BB01-0AB0						
15. SIE.6ES7138-4CA01-0AA0	SIEMEN	6ES7138-4CA01-0AA0						
16. SIE.6ES7138-4CB10-0AB0	SIEMEN	6ES7138-4CB10-0AB0						
17. SIE.6ES7151-1CA00-1BL0	SIEMEN	6ES7151-1CA00-1BL0	6ES7151-1CA00-1BL0					
18. WOE.33235	WOE	33235	Gr.00					

Zeige unbenutzte Artikel

Artikeldaten\_1

By the checkbox “Display used articles only” you can determine whether all project articles are supposed to be displayed or only those articles used in the maps.

- Initiate the automated search in the MDM for the data records corresponding to the displayed EPLAN Electric P8 articles via the button “Search article in the MDM”. If the manufacturer number and the order number are identical, the line will be shown with a yellow background, the box “IsBound” will be ticked and the MDM device-ID added..

Projekt Artikeldaten - MDM\_Beispielprojekt

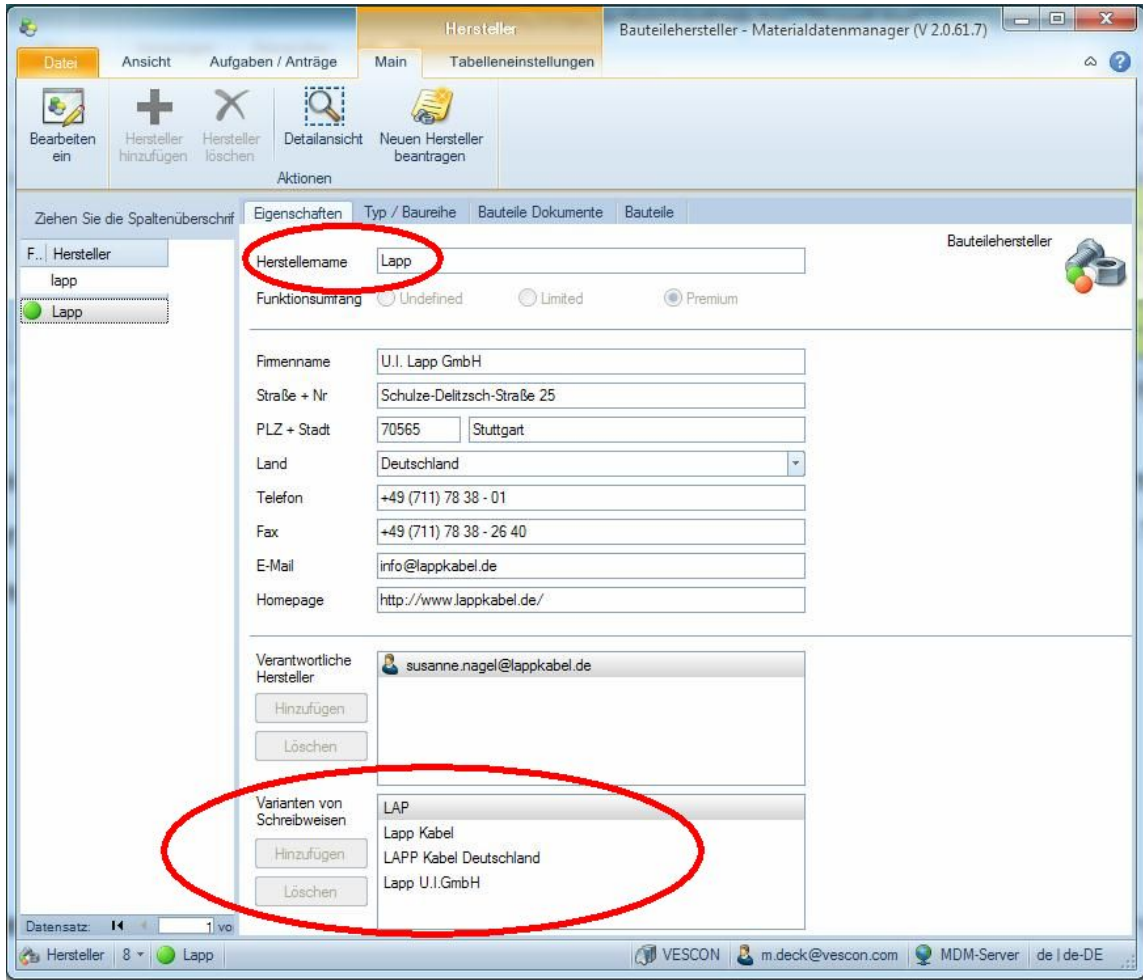
MDM Bauteile suchen

EPLAN Eigenschaften				MDM Eigenschaften				
Artikelnummer	Hersteller	Artikelnummer	Artikeltyp	Bauteil ID	Hersteller	Artikelnummer	Artikeltyp	Ist unterschiedlich
1. LAPP.1119.303 (3G1,5)	LAPP	1119.303	ÖLFLEX CLASSIC 110	1663	Lapp	1119303	ÖLFLEX CLAS	
2. LAPP.1119.304 (4G1,5)	LAPP	1119.304	ÖLFLEX CLASSIC 110	1666	Lapp	1119304	ÖLFLEX CLAS	
3. LAPP.1119.404 (4G2,5)	LAPP	1119.404	ÖLFLEX CLASSIC 110	1667	Lapp	1119404	ÖLFLEX CLAS	
4. MDM.4530	Herstellerneutral			4530	Herstellerneutral			Ja
5. PHO.QUINT 24V DC/10 A	PXC	29.38.61.7	QUINT 24 VDC/10 A					
6. SIE.3LD2.504-0TK53	SIEMEN	3LD2.504-0TK53	3LD	1000	Siemens	3LD2504-0TK53	3LD2	
7. SIE.3RT1036-1BB44	SIEMEN	3RT1036-1BB44		3353	Siemens	3RT1036-1BB44	SIRIUS (22 k	
8. SIE.3RV1021-1CA15	SIEMEN	3RV1021-1CA15						
9. SIE.3RV1021-1GA10	SIEMEN	3RV1021-1GA10		3583	Siemens	3RV1021-1GA10	S0	
10. SIE.5SX2.102-7	SIEMEN	5SX2.102-7		7630	Siemens	5SX2102-7		
11. SIE.5SX2.104-7	SIEMEN	5SX2.104-7		7632	Siemens	5SX2104-7		
12. SIE.5SX9.100	SIEMEN	5SX9.100		1091	Siemens	5SX9100	5SX9	
13. SIE.6ES7131-4BB01-0AB0	SIEMEN	6ES7131-4BB01-0AB0		366	Siemens	6ES7131-4BB01	ET200S 2DI HF	
14. SIE.6ES7132-4BB01-0AB0	SIEMEN	6ES7132-4BB01-0AB0		368	Siemens	6ES7132-4BB01	2 DO HF	
15. SIE.6ES7138-4CA01-0AA0	SIEMEN	6ES7138-4CA01-0AA0		6214	Siemens	6ES7138-4CA01	ET200S	
16. SIE.6ES7138-4CB10-0AB0	SIEMEN	6ES7138-4CB10-0AB0		370	Siemens	6ES7138-4CB10	PM-E	
17. SIE.6ES7151-1CA00-1BL0	SIEMEN	6ES7151-1CA00-1BL0	6ES7151-1CA00-1BL0	13164	Siemens	6ES7151-1CA00	IM151-1	
18. WOE.33235	WOE	33235	Gr.00	1019	Wohner	33235	Gr.00 / 160A	

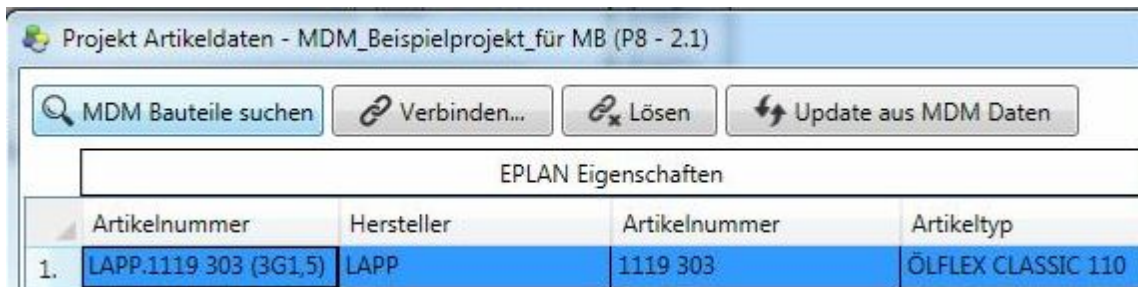
Zeige unbenutzte Artikel

Artikeldaten\_2

During the comparison with the EPLAN manufacturer (as well with the manufacturers long- and shortname) it is checked, if the MDM manufacturer (as well as the alternative spellings of manufacturers defined in the MDM) are identical to get a successful mapping result .



Alternative\_Schreibweisen



Artikeldaten\_Schreibflächen

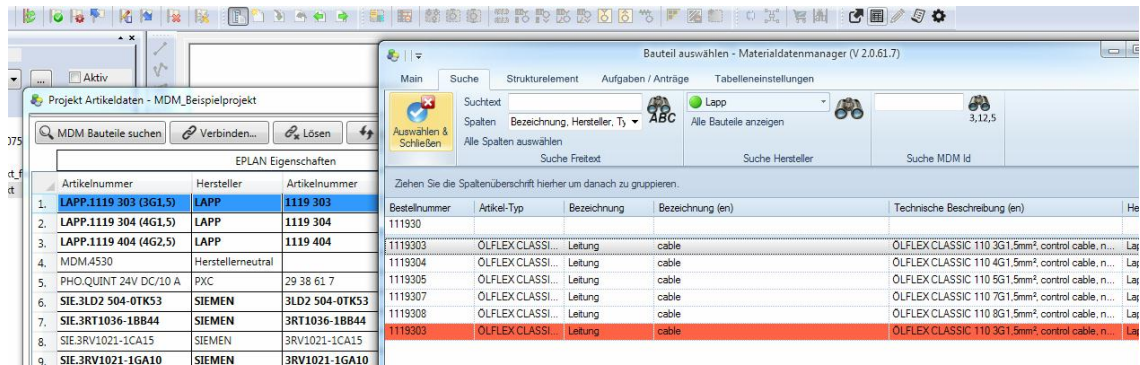
If on the basis of notations defined by the user no matching with the MDM manufacturer can be found, further notations of manufacturers can be added by the interface options (options / more / notations of manufacturers). This configuration will be saved locally and related to the user:

(C:\Users\username\AppData\Local\Vescon\MDM  
 \Mdm.WcfClient.Plugins.EplAddIn.2.Manufacturers.json).

- By the icon „Update from MDM Data“ the content of linked devices and notations defined by the user can be refreshed.

- Existing links can be canceled via the icon „detach“.

Principally each EPLAN article can be mapped with a MDM article by hand. Please mark the row and click on the icon "Mapping", sign the record in the dialogue "Select device" and save the mapping by the icon "Select and save"



Artikeldaten\_Mapping\_1

- Close the dialogue via the button "OK". At this moment the contents from the MDM will be added to the EPLAN Electric P8 articles. The entries are written into "Free attributes" of the EPLAN Electric P8 article. .

### 8.3.6 Assignment table

In the following schedule it is listed, which MDM contents were read from the EPLAN properties. If a Writeld is defined these data will be written back to EPLAN .

**Default configuration:** Eplan Device Properties (project article):

Writing back of: MDM-ID, MDM-AddIn Version, last change (no overwriting of standard properties).

MDM field name	Key in configuration file	EPLAN (Id)	EPLAN (Writeld)
Technical description	Mdm.Description	22009	
Designation	Mdm.DeviceTypeName	22004	
Type / construction series	Mdm.DeviceClassName	22026	
Height	Mdm.Height	22012	
Width	Mdm.Width	22013	
Depth	Mdm.Depth	22014	
Manufacturer	Mdm.ManufacturerName	22007	
Type / article	Mdm.ArticleType	22002	
Order number	Mdm.OrderNumber	22003	
Freigabestatus (nicht freigegeben)	Mdm.IsNotApproved	22147:86	
Definierte Sachnummer	Mdm.IdentNumber	22147:94	
MDM-ID (Mapping)	Mdm.Deviceld	22147:91	22147:91
TD1	Mdm.TD1	22017	
Versionsnummer AddIn	Mdm.AddInVersion	22147:80	22147:80
Aktualisierungsdatum	LastChangedInfo	22901	22901





For manufacturers it is possible to specify a second Eplan property by the property "Alternativeld". From this second Eplan property the manufacturers name can be read out alternatively. Thereby it is possible to get the manufacturers short name (EPLAN Property: 22007) as well as the long name (EPLAN Property: 22222) for mapping.

**Default configuration:** Eplan Part-Reference-Properties (article reference )

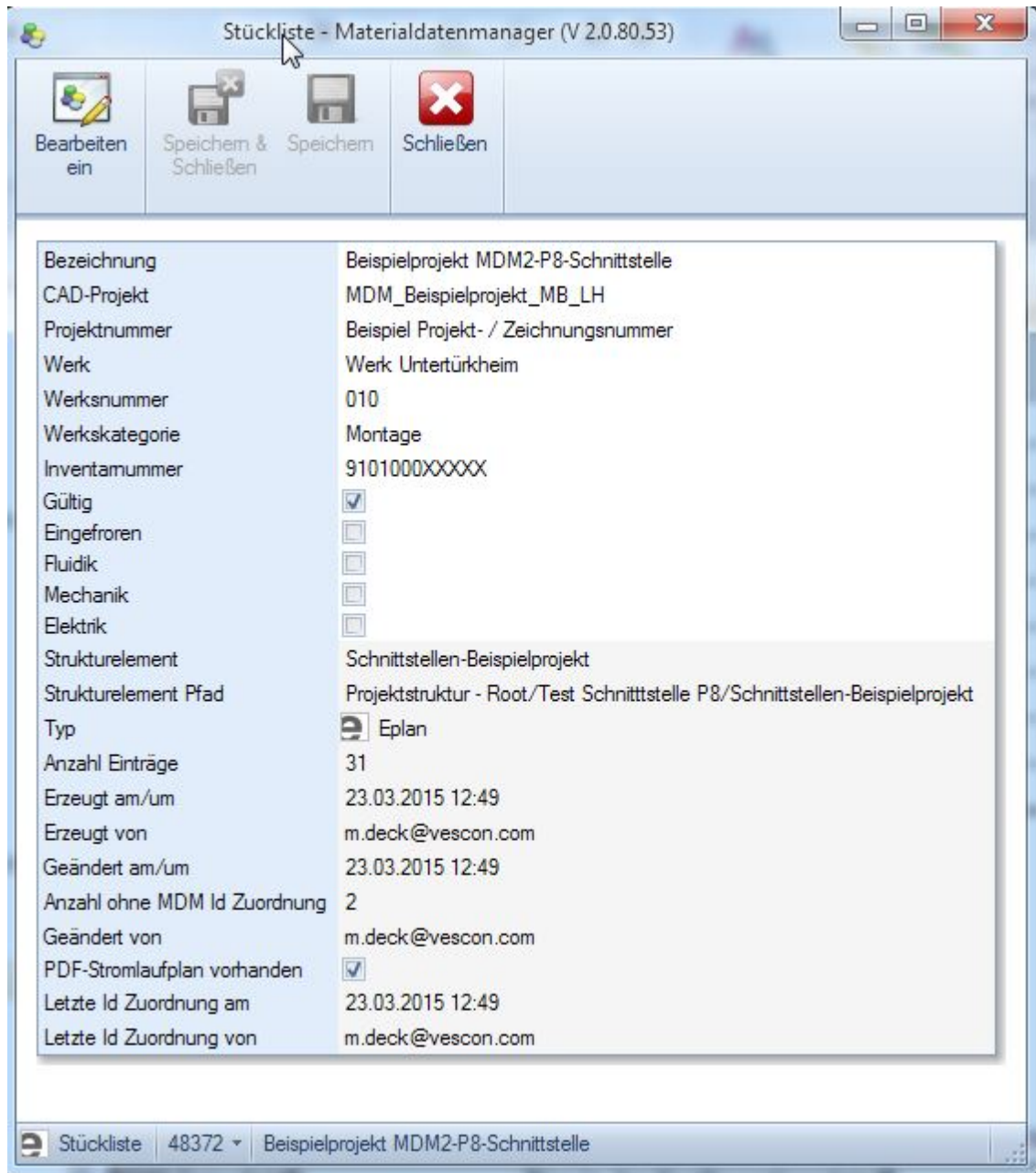
MDM field name	Key in configuration file	EPLAN (Id)	EPLAN (WriteId)
	Ref.AllFlags	40305	
Flag: Herstellerneutral	Ref.ManufacturerNeutral	40301	
Flag: neutralisiert	Ref.Neutralized	40304	
Text: Neutralsierung	Ref.NeutralizedText	22144	

Using the default configuration no data will be transferred to the article reference.

Eplan Project Properties (Project properties )

MDM field name	Key in configuration file	EPLAN (Id)	Beispiel
Stückliste, CAD Projekt		10000	"Projektname"
Stückliste, Projektnummer		10013	"Zeichnungsnummer"
Stückliste, Inventarnummer	Prj.InventoryNumber	40086	9101000XXXXX
	Prj.Description	40087	
Stückliste, eingefroren	Prj.IsLocked	40088	
	Prj.Language	40090	de, en, fr
Stückliste, Name	Prj.PartsListName	40091	
	Prj.Company	40092	Mercedes-Benz
Stückliste, Werkname	Prj.Plant	40093	Werk Untertürkheim
Stückliste, Werksnummer	Prj.PlantNumber	40094	010
	Prj.PlantName	40095	Werk 010
Stückliste, Werkskategorie	Prj.PlantArea	40096	Montage
	Prj.Mode	40097	
ausgewählte Sachnummer	Prj.IdentField	40098	Sachnummer W010
MFL/Projektname	Prj.MflName	40099	
MFL-/Projekt- ID	Prj.MflKey	40100	

The project properties are used for field names in the MDM parts list.



Eplan2\_MDM-Stückliste\_Beiispiel

**Example configuration "Writing back in free properties":** Eplan DeviceProperties (Project article):

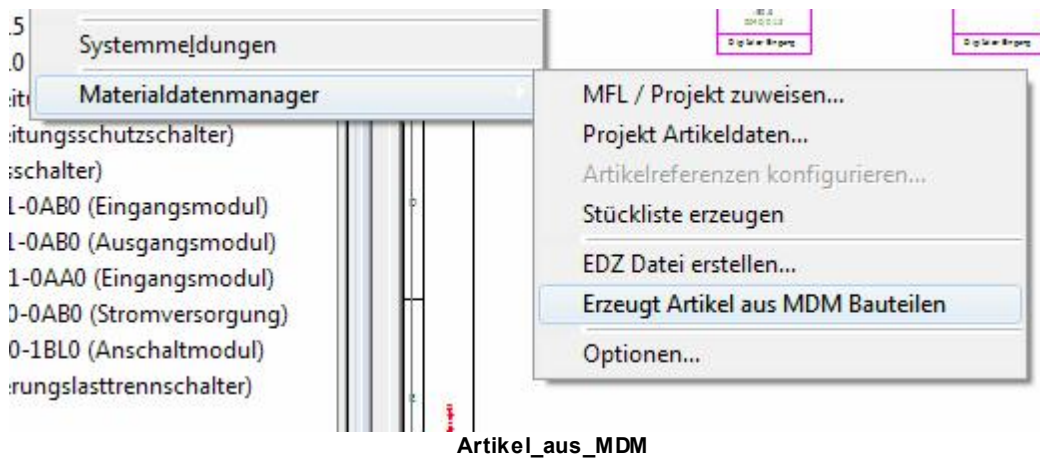
MDM field name	Key in configuration file	EPLAN (Id)	EPLAN (WriteId)
Technical description	Mdm.Description	22004	22147:95
Designation	Mdm.DeviceTypeName	22004	
Type / construction series	Mdm.DeviceClassName	22026	
Height	Mdm.Height	22012	
Width	Mdm.Width	22013	
Depth	Mdm.Depth	22014	
Manufacturer	Mdm.ManufacturerName	22007	22147:92
Type / article	Mdm.ArticleType	22002	22147:94

Order number	Mdm.OrderNumber	22003	22147:93
Freigabestatus (nicht freigegeben)	Mdm.IsNotApproved	22147:86	
Definierte Sachnummer	Mdm.IdentNumber	22147:94	22147:89
MDM-ID (Mapping)	Mdm.DeviceId	22147:91	22147:91
TD1	Mdm.TD1	22017	
Versionsnummer AddIn	Mdm.AddInVersion	22147:80	22147:80
Aktualisierungsdatum	LastChangedInfo	22901	22901

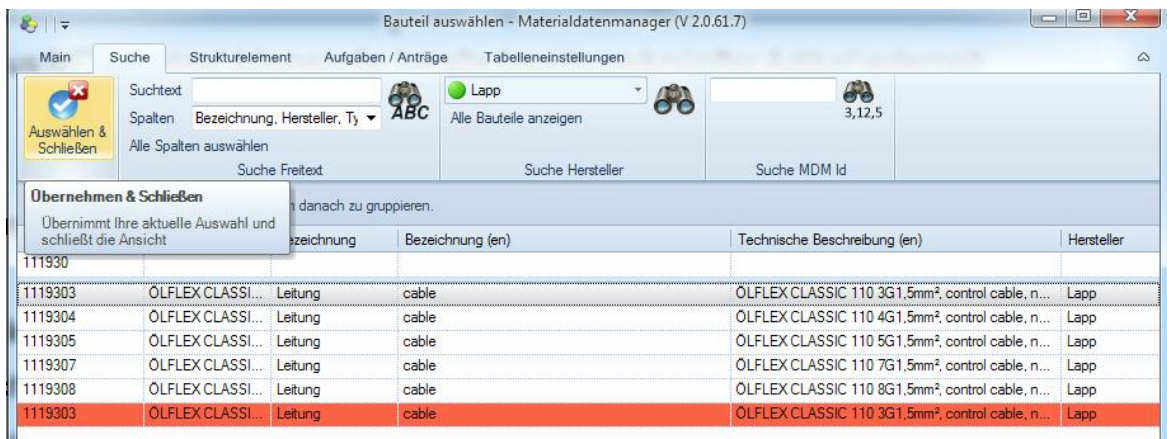
Using this configuration the standart properties of the project articles will not be overwritten. All data from the MDM will be written in the free properties of the article. By a form adapted to this configuration a graphicle article parts list can be created containing exclusivly MDM data.

### 8.3.7 Generating articles from the MDM

By the menue "Utility programs - MDM - generate article data from MDM" the dialogue will start to generate devices in the EPLAN article master data. The records marked in the dialogue "Select device" can be saved by the icon "Select and close".



Artikel\_aus\_MDM



Artikel\_aus\_MDM\_2

### 8.3.8 Reports article parts list / Interface 2

The EPLAN Electric P8 report "Parts list" obtains the device data it needs from the material data



manager. Prior to the start of the parts list the project articles are synchronized with the material data manager. Therefore it is necessary that a connection to the material data manager is existing or can be established for the time this report is running.

By the menu "Utility programs - MDM - generate parts list" or by the MDM icon "Vescon MDM - generate parts list" the dialogue will start. If the material data manager is not open when the report is started, it will be opened automatically, if possible, at the start of the report and a login prompt will appear.

When the report is started the following actions were also started automatically:

- still linked articles were matched by the entries (depending from the configuration).
- The in EPLAN defined report forms are activated (not only article parts lists)
- The complete parts list is loaded up in the MDM (also not matched articles).
- The EPLAN project is loaded up in the MDM as a PDF file.

The parts list obtains its contents from the "General attributes" and the "Free attributes" of the articles (depending on the configuration).

If the material data manager is not available, a corresponding message will pop up and the respective report will be canceled. In any case, the check is done immediately at the start of the report, so that the time-consuming processes of selecting the data from the maps will not be initiated in case of an error.

1	2	3	4	5	6	7	8		
Betriebsmittel	Lage	Technische Beschreibung		Stk.	Hersteller	Typ	Bestellnummer	Identnummer	e/v
+000EE_011 +H011 -Q1	0010/01.2	Haupt-/Not-Aus-Schalter 3-polig IU=63, P/AC-23A bei 400V~22KW Frontbefestigung Verlochsicherung Drehantrieb rot/geb [MDM: 1000 - V7.0] Freigabe fehlt		1	Siemens	3LD2	3LD2504-0TK53		
+000EE_011 +H011 -Q01	0010/02.2	NH-Leisttrennele Gr.00/160A für Sammelschiene 100mm steckbar Belekt: 50 x 455 x 120mm (für Einspeisung +H011) [MDM: 1019 - V0.5] Freigabe fehlt / gesperrt		1	Wöhner	Gr.00 / 160A	33235		
+000EE_011 +H011 -Q11	0010/03.2	NH-Leisttrennele Gr.00/160A für Sammelschiene 100mm steckbar Belekt: 50 x 455 x 120mm (für Einspeisung +H011) [MDM: 1019 - V0.5] Freigabe fehlt / gesperrt		1	Wöhner	Gr.00 / 160A	33235		
+000EE_011 +H011 -Q12	0010/03.3	NH-Leisttrennele Gr.00/160A für Sammelschiene 100mm steckbar Belekt: 50 x 455 x 120mm (für Einspeisung +H011) [MDM: 1019 - V0.5] Freigabe fehlt / gesperrt		1	Wöhner	Gr.00 / 160A	33235		
+001ES_011 +H011 -F1P1	0030/01.3	Sicherungsautomat C-Charakteristik einpolig,4 A [MDM: 7632 - V5.0] Freigabe fehlt / gesperrt		1	Siemens		55X2104-7		
+001ES_011 +H011 -F3P1	0030/01.4	Sicherungsautomat C-Charakteristik einpolig,4 A [MDM: 7632 - V5.0] Freigabe fehlt / gesperrt		1	Siemens		55X2104-7		
+001ES_011 +H011 -F11P11	0030/02.3	Sicherungsautomat C-Charakteristik einpolig,2 A [MDM: 7630 - V5.1] Freigabe fehlt / gesperrt		1	Siemens	55X2	55X2102-7		
+001ES_011 +H011 -F30	0030/03.2	Sicherungsautomat C-Charakteristik einpolig,2 A [MDM: 7630 - V5.1] Freigabe fehlt / gesperrt		1	Siemens	55X2	55X2102-7		
+001ES_011 +H011 -F31P11	0030/03.3	Leitungsschutzschalter Hilfsschalter		1	herstellernutral		Bestellung Fluidk		
+001ES_011 +H011 -F32	0030/03.4	Leitungsschutzschalter		1	Siemens	55X2	Bestellung Fluidk		
+001ES_011 +H011 -F33	0030/03.4	Leitungsschutzschalter		1	Siemens	55X2	Bestellung Elektrik		
+001ES_011 +H011 -F34	0030/03.5	Leitungsschutzschalter		1	herstellernutral		Bestellung Elektrik		
+001ES_011 +H011 -F35	0030/03.6	Leitungsschutzschalter		1	herstellernutral		Bestellung Fluidk		
+001ES_011 +H011 -F36	0030/03	Leitungsschutzschalter		1	herstellernutral		Bestellung Fluidk		

Stückliste

## 9 Miscellaneous

### 9.1 User interface

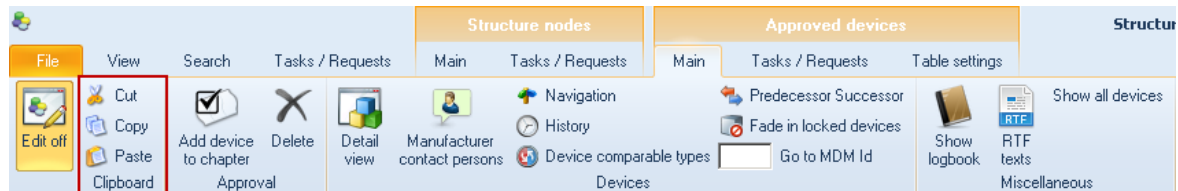
The user interface of the new MDM has been adjusted to the latest Microsoft Office 2010 products. Operating via so-called ribbons which replace the former icon bars is context-related / function-oriented. Functions available for a selected element can be accessed quickly in the ribbon.

#### 9.1.1 Cutting, copying and pasting

Cutting, copying and pasting is possible for devices or structural elements by keyboard, icons or drag & drop, where pressing the <shift-key> changes between copying and relocating. Please pay attention to the following conditions:

- It is possible to copy devices from all tables to the tabs "assigned devices" and "approved devices" , to the selection dialogues "predecessor / successor" and "comparison types" and also to the assignment mask of the CAD systems.
- Relocating of devices (cutting and pasting) is possible only from chapters into other chapters.

- "Temporary" devices can be copied only to the assignment mask of the CAD systems or to the chapter structure to avoid accidental approvals in the MFL- or project structure.
- Structural elements can be cutted, copied or pasted only in the structure view.

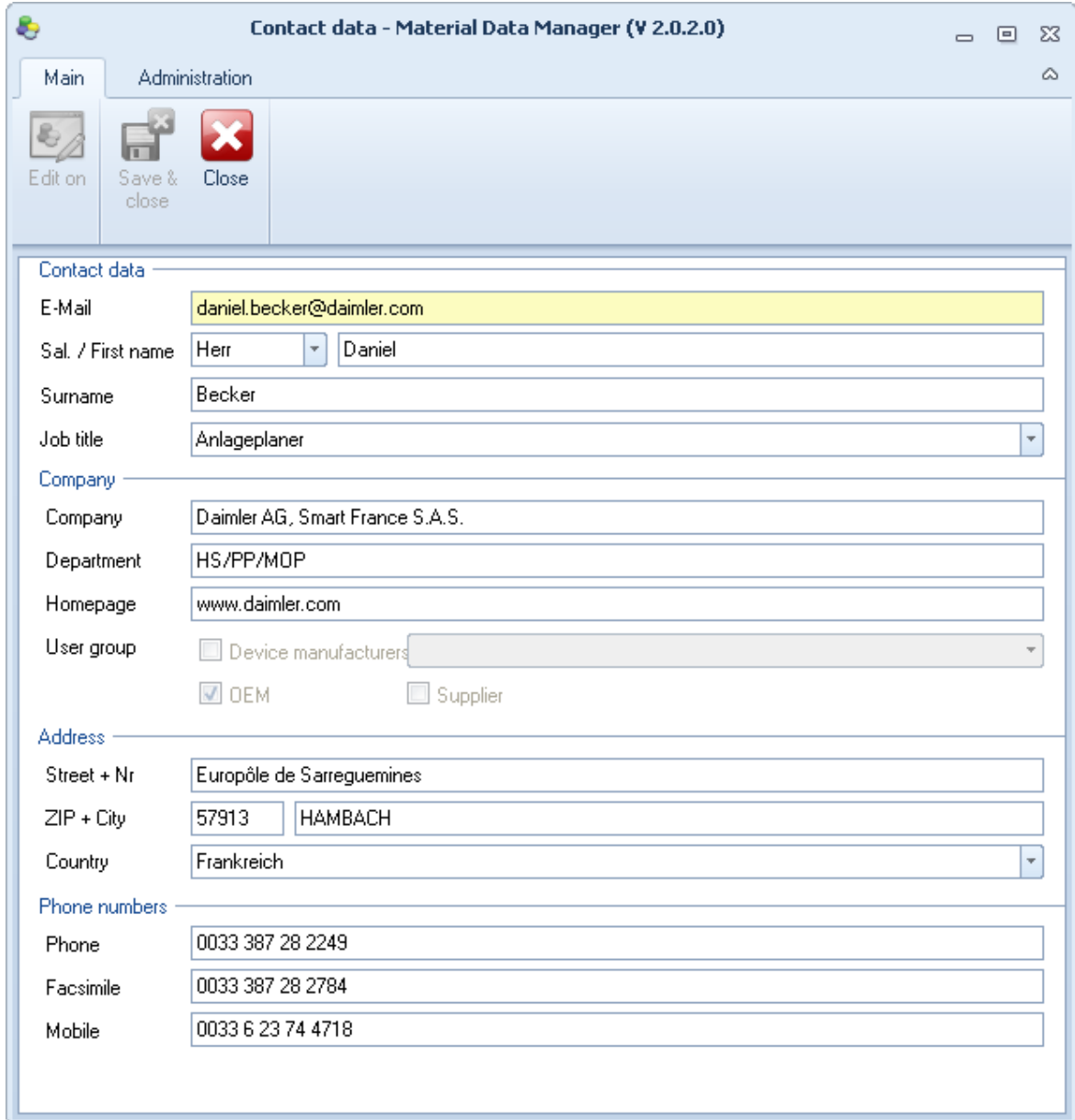


**Cutting / copying / pasting**

### 9.1.2 Contact data details

If managers or contact persons are listed in the register "Properties" in the structure node view or in the view "Manufacturer with accompanying data" the contact data details can be opened with a double click on the person. In tables or device- / partslists the contact data details can be displayed by a click on the tab "Manufacturers contact persons".

In the ribbon tab "File", "Settings" and "Own adress data" you can edit your personal data.



The screenshot displays the 'Contact data - Material Data Manager (V 2.0.2.0)' window. It features a ribbon interface with 'Main' and 'Administration' tabs. The 'Main' ribbon is active, showing 'Edit on', 'Save & close', and 'Close' buttons. The main area is divided into sections: 'Contact data', 'Company', 'Address', and 'Phone numbers'. The 'Contact data' section includes fields for E-Mail (daniel.becker@daimler.com), Sal. / First name (Herr, Daniel), Surname (Becker), and Job title (Anlageplaner). The 'Company' section includes Company (Daimler AG, Smart France S.A.S.), Department (HS/PP/MOP), Homepage (www.daimler.com), and User group (OEM). The 'Address' section includes Street + Nr (Europôle de Sarreguemines), ZIP + City (57913 HAMBACH), and Country (Frankreich). The 'Phone numbers' section includes Phone (0033 387 28 2249), Facsimile (0033 387 28 2784), and Mobile (0033 6 23 74 4718).

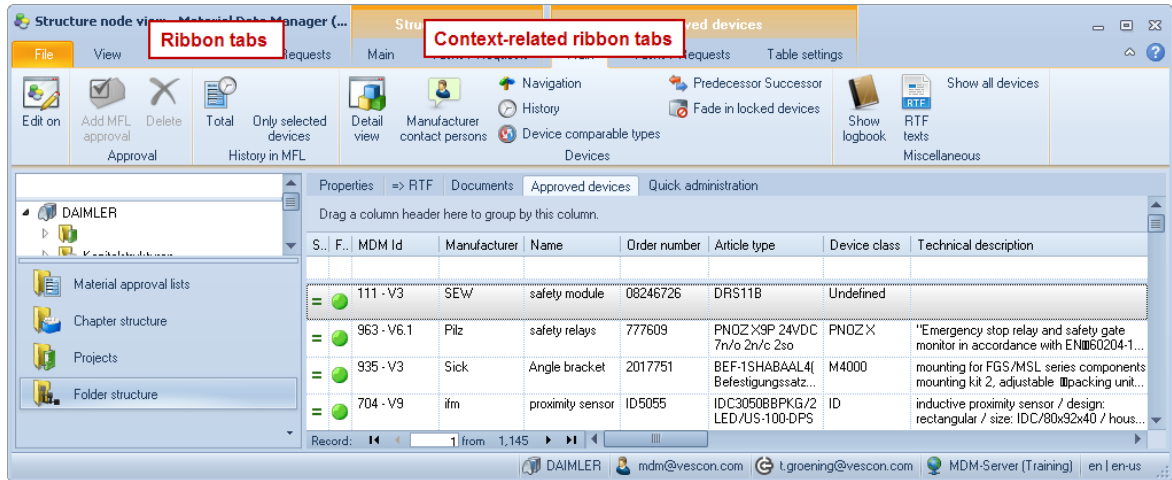
Contact data details

### 9.1.3 The ribbons

The user interface of the material data manager is designed to fit the Microsoft Office 2010 products. Operating via so-called ribbons which replace the former icon bars is context-related / function-oriented. Functions available for a selected element can be accessed quickly in the ribbon.

In many of the views several different context areas are available. The functions of these different areas are structured around their own context-related tabs, which are shown above the usual ribbon tabs. If in the current view several different basic elements are existing (as in the screenshots "Structure nodes" and "Approved devices") several context-related tabs will be displayed. The respective tabs contain the functions related to the context.

After a click on the context the tab changes automatically.



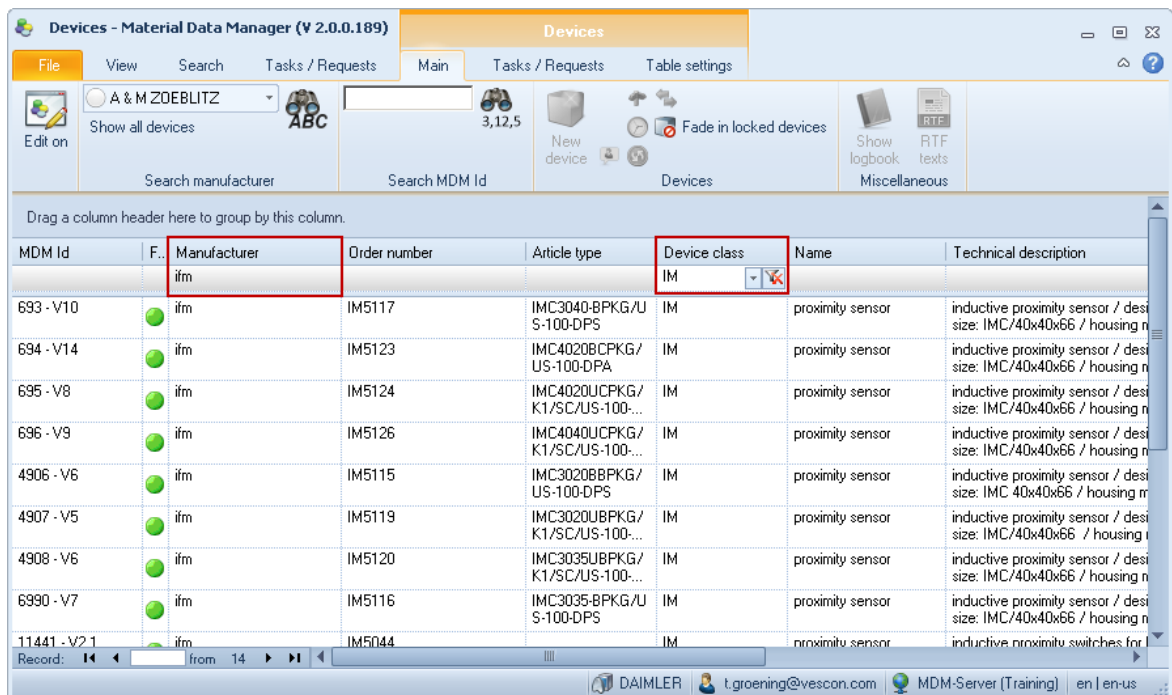
### Ribbon tabs

If you press the <Strg>- or <Ctrl> key when clicking on a different view (e.g. “Devices”, “Structure view”, “Tasks”), a new, separate window will be opened where you can select your own data language or an OEM different from the one in the first window. The new window is independent.


## 9.1.4 Tables

### 9.1.4.1 Filter

To have only selected data records displayed in a table you can filter by entering filter criteria in the fields below the column headers. By “AND relation” you may enter any number of filter criteria you like. In the following screenshot devices of the manufacturer "ifm" of the device class "IM" (from chapter “Pool Electric (German)”) have been filtered.



### Filter

 Via this button next to the entered filter criterion the filters can be deleted.

In the fields below the column headers you can use the wildcard "\*":

"\*" at the beginning of a string means: entry ends with this string

"\*" at the end of a string means: entry starts with this string

no "\*" at the beginning and the end of string means: entry contains string

"!=" excludes this string.

#### 9.1.4.2 Extended filter

By the extended filter complex filter option can be defined for the grid.

It is possible to save these filter settings as a file which can be loaded up latter again. This file can only be used for grids of the same type. If the file will be used for grids of other types a warning message will pop up and it is tried to run the file the activated grid.

By leaving the extended filter the default filter settings are activ again

#### 9.1.4.3 Data record navigator

In most views you can find a "data record navigator" at the lower end of the table. It displays the serial number of the current data record in the table (*not* the MDM-ID!) and next to it the total number of the data records.



Via the arrows on the left and on the right of the data record counter you can scroll the table ("Data record next/previous", "To first/last data record").

#### 9.1.4.4 Sort

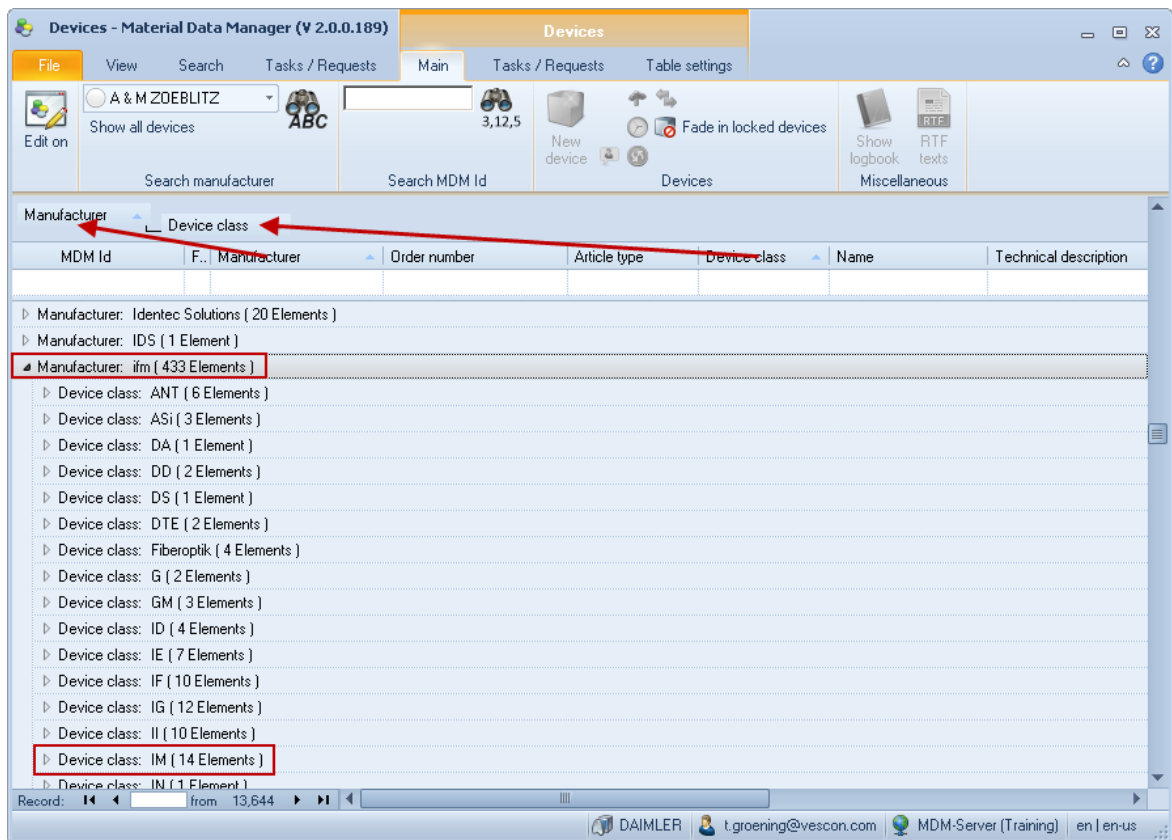
##### Sorting functions:

- Simple sorting by a click on the column header
- Sort additional column by clicking on the column header with pressed <Shift> key
- Cancel sorting by clicking on the column header with pressed <CTRL> key

#### 9.1.4.5 Group

Another option available for further structuring the data records is the grouping. By this function the data record table can be hierarchically structured according to the order in which you move the column headers into the grouping line via Drag & Drop. You can change the order of the columns also via Drag & Drop by moving the headers to the far left or the far right in the grouping line. You can

delete the individual groupings by moving the individual column headers out of the grouping line back to their original places again using the Drag & Drop function.



**Grouping**

Tipp!

The majority of the MDM users uses the grouping for selecting data records quickly and without errors when entering the filter criteria!

#### 9.1.4.6 Filter

In views with a record table a tab "Settings / Filter" is displayed.

##### **Column settings:**

Here the positioning and visibility of columns is adjusted. By the button "Reset to default" possible mistakes can be reversed. Multiple marking of columns is possible.

##### **Number of rows:**

Here the number of displayed rows can be set (0 - 20). If "0" is set the maximal used number of rows is displayed.

##### **Display / collapse all groupings:**

If groupings are defined they can here displayed or collapsed.

##### **Delete all filters:**

All filters are deleted.

##### **Extended filter:**



Here very complex filters can be defined. Further information you find here: "Erweiterter Filter".

**Excel / XML Export:**

The displayed table can be exported into Excel or XML files.

**Quickfilter:**

In some views quickfilter can be set. Further information you find here "Schnellfilter".

The setting will be saved and when the view is opened again the setting is displayed.

**9.1.4.7 Table settings**

In views displaying a data record table a tab with the name „Table settings“ is available.

**Table settings**

Here you can change the order of individual columns and combine them in column groups, which improves the clarity of the table. Via the button „Reset to default“ you can cancel wrongly defined groupings.

**Determine the maximum number of lines:**

With the help of this function you can determine the maximum number of lines within one table line. Values between "0" and "20" are allowed, if you enter "0", the maximum required number of lines will be displayed.

**Open and close groupings:**

If you have grouped by a column, all groupings can be expanded or collapsed.

**Delete all filters:**

If you have filtered by columns in the representation, all filters will be deleted by this function.

The current layout (view) of the table is stored and will be set accordingly next time it is displayed.

**9.1.4.8 Excel Export**

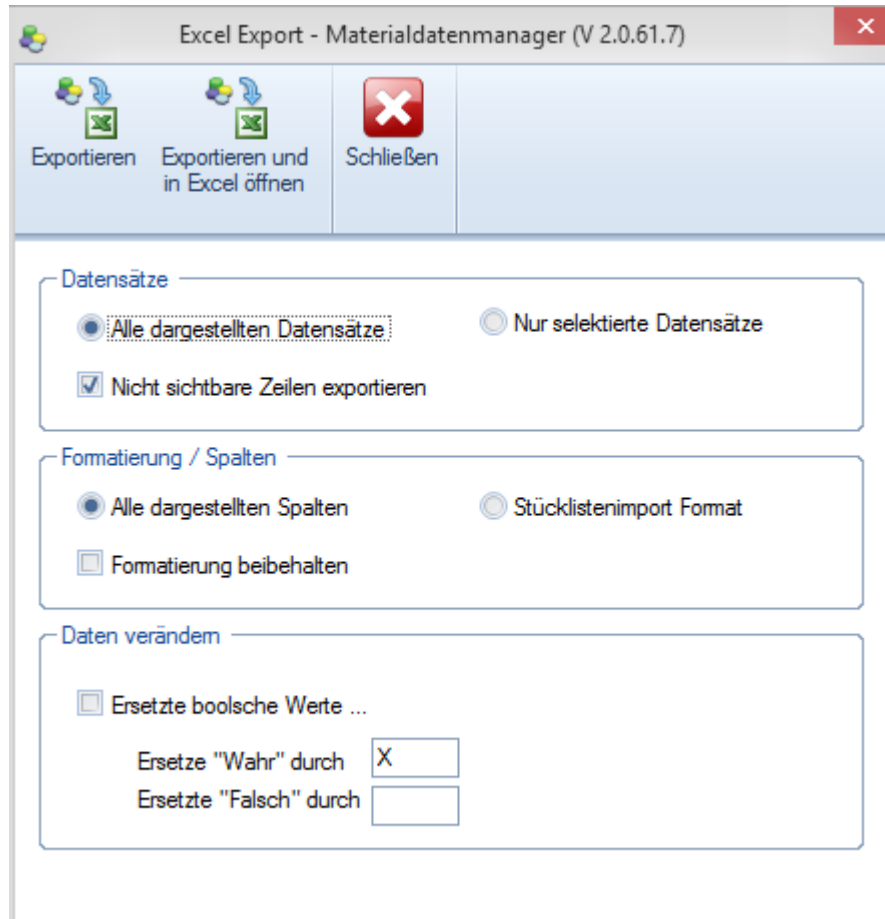
In many table views, e.g. the view "Devices" or in the tab "Approved devices" in the structure view, you can export data records to Excel via the ribbon tab "Table settings".

The following options are available:

- You can either export all data records displayed in the list or only those that have been selected by (multiple) marking.
- In Yes/No fields or control boxes the value "True" or "False" is displayed by default; this Boolean value can be replaced by any character string (e.g. "j"/"n", "x"/" " etc.).



- If required, the formatting of the data records can be transferred from the MDM.
- The excel export format can be defined like the fixed parts list format.
- In grouped parts lists the export of hidden rows can be prevented.



Excel export

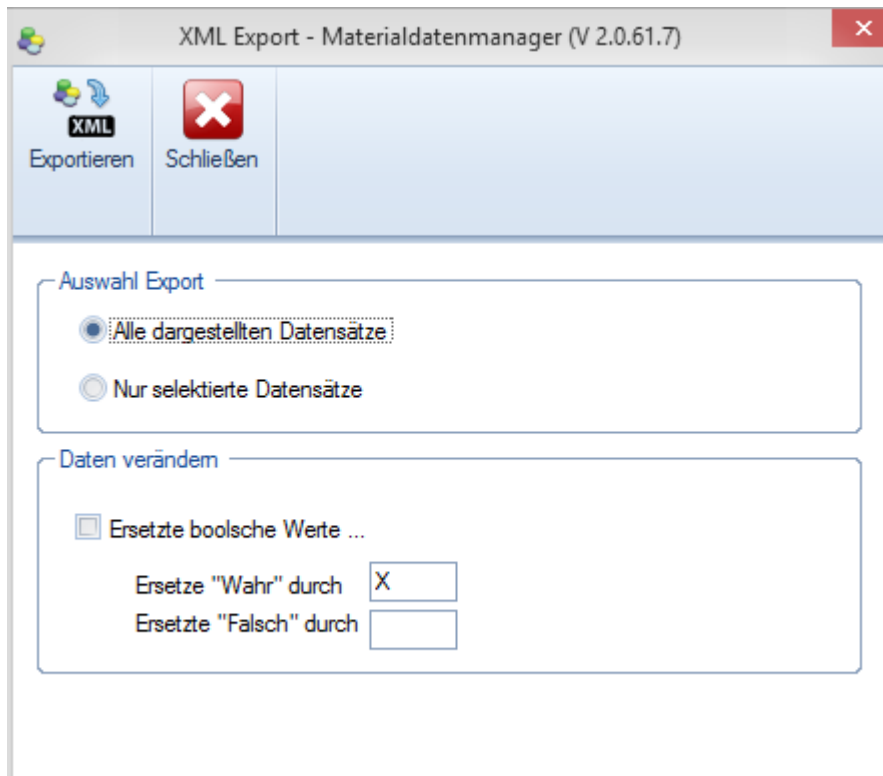
#### 9.1.4.9 XML Export

Analogously to the excel export it is possible to export the table via <Table settings><XML Export> to a XML file.

Contrary to the excel export the data will be exported independently from the formatting. Formatting or grouping can not be exported. The column heading is displayed in english.

The following options are available:

- You can either export all data records displayed in the list or only those that have been selected by (multiple) marking.
- In Yes/No fields or control boxes the value "True" or "False" is displayed by default; this Boolean value can be replaced by any character string (e.g. "j"/"n", "x"/" " etc.).



XML export

#### 9.1.4.10 Edit mode

In most views you can find a button “Edit on” or “Edit off” on the far left in the ribbon. Only when you click on this button will the edit mode be activated, in order to avoid an unintended change of data.



As soon as you switch to another view, the edit mode will be automatically deactivated. If the rights for a view are missing, the respective button will appear in grey.

#### 9.1.4.11 Copying entries from a table

By the keystroke combination <Ctrl> + <Alt> + <C> the marked entry of a table can be copied into the clipboard. This entry can be pasted into any document (usually by the keystroke combination <Ctrl> + <V>); in case of multilingual entries the displayed text is copied

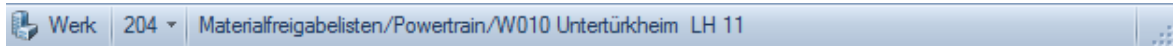
### 9.1.5 Status lines

In some dialogues a status line containing additional information is displayed.

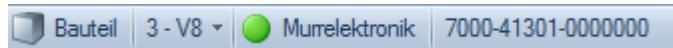
As a rule, it is the information on the element from which the detailed information has originated that is shown here. For example, when you activate the contact person of a device, this device will be displayed in the status line.

This could look like that, for example:

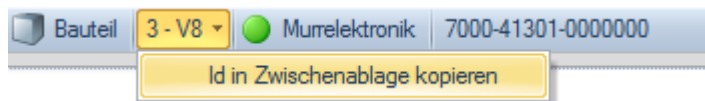
Status line with information on a structure node:



Status line with information on a device:

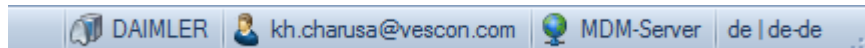


By clicking on the drop down it is possible to copy the Id number to the clipboard:



In the main form in the right area of the statusline the following information will be displayed:

- the currently selected OEM
- the registered user
- the server you are connected with (MDM server or test and training server)
- the language (data language / interface)



## 9.1.6 The edit mode


In order to minimize faulty entries a so-called “Edit mode” has been integrated in the MDM. Before carrying out any changes you have to activate the edit mode via the button “Edit: on” which can be found in all dialogues on the far left in the ribbon. Only then can you edit the data.




If you change a main view or if you have no rights in the currently selected tab, the edit mode will automatically be deactivated.

## 9.1.7 Elements of presentation

### 9.1.7.1 Level indicator

The arrows show where the information represented in the list are coming from.




-  The arrow going from the top left to the bottom right indicates that the information comes from a level above the one currently displayed. E.g. Assigned MFLs.

-  The arrow going from the bottom right to the top left indicates that the information comes from a level below the one currently displayed. E.g. parts lists.
-  The " = " means that the information comes directly from the currently selected structure node.
-  Furthermore, both the arrows and the " = " can be displayed at the same time – e.g. with the “Approved devices” in the project view. This means that the device has been approved not only on the current level, but also on those below or above.

Approved devices in the structure view are displayed as follows:




**MFL view:**

Additionally to the approved devices in the selected structure element the devices in the subordinated structure elements are displayed:

-  Device is only approved in a subordinated structure element
-  Device is only approved in the selected structure element
-  Device is approved in the selected structure element and additionally in subordinated structure elements

**Project view:**

Additionally to the approved devices in the selected structure element the devices in the superior structure elements (MFL , projects) are displayed:

-  Device is only approved in a superior structure element or an assigned MFL (also on the same level)
-  Device is only approved in the selected structure element. In the project structure only for special approvals
-  Device is approved in the selected structure element and additionally in a superior structure element or an assigned MFL

**9.1.7.2 Range of functions**

In the device parts lists a coloured dot indicates the range of functions assigned to the manufacturer and the corresponding device. In many places, this has direct influence on the functionalities being available. As a rule, you can say that for devices marked by a green dot all functions are available, while for devices marked by a red dot only a limited number of functions is offered.

Range of functions "Premium":

For this data record any functions are available.

(When printed out and during Excel export, display: "Premium")

Range of functions "Limited"

You cannot change these data or create new data related to this manufacturer. For them, not all functions are available, e.g.:

- Definition of predecessor / successor
- Definition of comparable types
- all workflow functions

(When printed out and during Excel export, display: "Limited")

To be able to use the complete range of functions of the MDM, an additional agreement with VESCON is needed.

Range of functions "Undefined"

Limited range of functions (no workflow functions), authorized users can change data and create new ones.

### 9.1.7.3 Colours

In the device lists data records can be highlighted, underlayed, shaded or grayed out:

**The complete row / line is red:** the device is locked

**The complete row / line is orange:** the device is in an approval process (request "New device") with the status "temporary".  
Attention! In case of a rejection of the request the device will be deleted. Devices with the status "temporary" can not be approved

A single column is grey: no rights for reading the column

**The complete row / line is violet:** the device is erroneous (e.g. double devices with the same order number) .



MDM Id	Status	F..	Manufacturer	Order number	Article type	Device class	Name	Technical
1 - V8.3	Active	●	Herstellerneutral			Undefined	cable	
2 - V2.2	Active	●	Herstellerneutral			Undefined	cable	
3 - V6.2	Active	●	Murrelektronik	7000-41301-0000000	MSKL3-A	MSKL	a/s connection method	
4 - V8.1	Active	●	Murrelektronik	7000-41421-0000000	MSKL3-C	MSKL	a/s connection method	
5 - V3.1	Locked	●	Murrelektronik	338750	MSML3-A-PMY0.8-MC	Undefined	plug	
6 - V6.1	Active	●	Lumberg	RST 5-3-VAD 1A-1-3-269/1 M	RST-VAD	RST	a/s connection method	
7 - V6.1	Active	●	Lumberg	VAD 1A-1-3-M12-5	VAD	VAD	a/s connection method	
8 - V3.4	Locked	●	Siemens	3RK1911-2BF50		ET 200PRO	plug	
9 - V3.5	Active	○	Ifsys	FC 1000	FC 1000	Undefined	control section	
10 - V5	Locked	●	SEW		MFP22D/MM03C-503-00/Z27F0/A...	Undefined	undefined	
11 - V5	Active	●	Festo	197330	CPX Stand alone	CPX	valve terminal	Electrical t configurab
12 - V2.1	Active	●	Festo	195740	CPX-FB13	CPX	module	

Locked devices

In the device history changed entries are yellow:

Changed on/at	Changed by	F..	MDM Id	Certificate CCC	Certificate CE	Certificate CSA	Certificate UL	Technical descri...	Stat
11/13/2012 8:38 AM	michael.fick@murrelektronik.de	●	3 - V6.2	Ja	Ja	Ja	Ja	Ventilstecker na...	Acti
3/4/2009 5:25 PM	system	●	3 - V6.1	N/A	Ja	N/A	N/A	Ventilstecker na...	Acti
3/4/2009 5:25 PM	system	●	3 - V6.1					Ventilstecker na...	Acti

Device history

Not approved components are displayed generally *italicized*

### 9.1.7.4 Mandatory fields

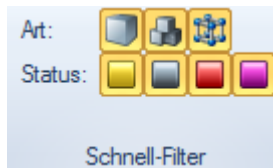
If entries are required a yellow advice pops up. By a tooltip you get information about the expected data.



Mandatory fields

### 9.1.8 Quick filter

By the ribbon tab "Quick filter" records displayed in a device list can be filtered.



Kind of record:

- device
- device group
- universal approval

Status of record:

- active
- temporary
- blocked
- erroneous

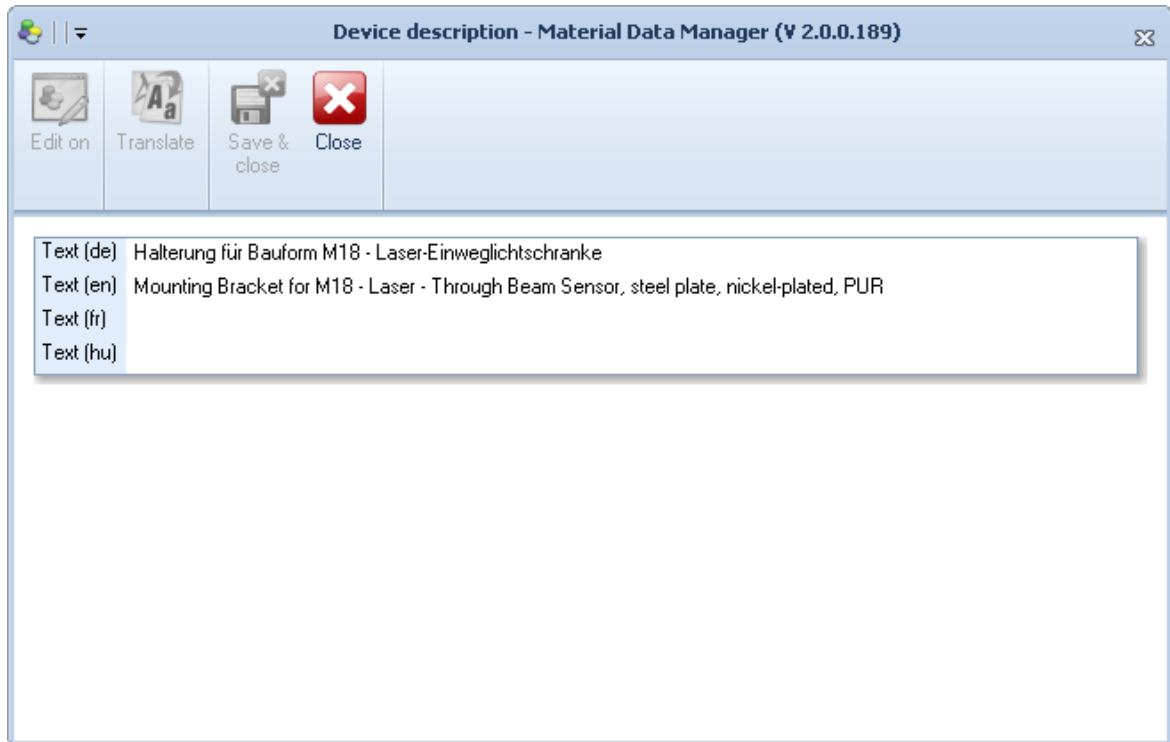
Dependent on context in some device lists not all criterions are available

## 9.2 Selection dialogues

These dialogues will be opened, if a selection from devices, structure nodes etc. has to be made during a workstep in the editing process. With some worksteps a multiple selection is possible.

### 9.2.1 Multilingual texts

In some specific fields (e.g. Name of the structure node or Technical description of the device) information can be stored in several different languages. If you click on the button of such a field, the following (exemplary) dialogue will be displayed and you can directly edit all texts.



Multilingual texts

### 9.2.2 Select device

This dialogue has to be opened, if during a workstep a device must be searched and assigned. With some worksteps a multiple selection is possible.

In the ribbon tab "Main" in the area "Search devices" the devices of a specific manufacturer can be displayed via the list field; or else, all devices can be displayed via the direct entry of the MdmId. In the device list single or several different devices can be marked and transferred via the respective button and the dialogue window can be closed.

In the ribbon tab "Devices" you can carry out the standard functions stored in the view "Devices" for the marked devices ([link](#)).

In the ribbon tab "Table settings" you can change the representation of the device table via the button "Column settings" ([links](#)) and export it via the button "Excel-Export" ([link](#)).

### 9.2.3 Select document

This dialogue has to be opened, if a document is supposed to be assigned to a device in the view "Devices / detailed view". In the area "Documents" you can add any documents or URLs you like via the button "Add new document" or you can add documents that are already existing in the MDM via the button "Add existing document".

Attention! Please notice that the maximum file size is 5 MB!



#### **9.2.4 Select structure node**

This dialogue has to be opened, if during a workstep a structure node is supposed to be assigned. With some worksteps a multiple selection is possible.

In the dialogue the structure view is represented with the respectively relevant main structure elements – material approval lists or projects – and their subordinated structure nodes.

The marked structure nodes are assigned via the button “Apply”.

It may occur that not all elements represented are allowed to be selected. The button “Apply” will not be active unless the selection is allowed.

#### **9.2.5 Select OEM**

This dialogue has to be opened, if during a workstep an OEM is supposed to be selected:

In the dialogue the structure view is represented with the OEMs and the marked OEM is selected via the button “Apply”.

#### **9.2.6 Select stored status**

This dialogue has to be opened, if a parts list is supposed to be synchronized with a stored status.

In the dialogue the “Stored statuses” are displayed and the parts list check is started via the button “Apply”.

#### **9.2.7 Select user**

This dialogue has to be opened, if users are supposed to be assigned (e.g. in the case of requests). Partly, a multiple selection is possible.

Via “Search” you can retrieve a user registered in the MDM. For this, you have to enter the complete e-mail address.

If the OEM’s users have special rights, they may use the advanced search, which can be initiated by entering only 5 characters of the e-mail address.

If you have special rights, it is possible to indicate the users from your own domain.

By clicking on the button “Show responsible manufacturer” a list of responsible manufacturers is displayed. So responsible manufacturer can be selected even if the complete mail adress is not known.



## 9.3 Detail dialogues

The dialogue is started by the ribbon button "Detail view" or by a double click on a record in a list. Depending on the element type different detail dialogues are displayed.

### 9.3.1 Manufacturer dialogue

In this form the attributes of a manufacturer are displayed. Depending on the user rights the attributes can be edited. Grayed out attributes cannot be edited.

### 9.3.2 Document dialogue

In this form the attributes of a document are displayed. Depending on the user rights the attributes can be edited. Grayed out attributes cannot be edited.

### 9.3.3 Parts list dialogue

In this form the attributes of a parts list are displayed. Depending on the user rights the attributes can be edited. Grayed out attributes cannot be edited.

### 9.3.4 Devices - article type dialogue

In this form the attributes of a article type are displayed. Depending on the user rights the attributes can be edited. Grayed out attributes cannot be edited.

### 9.3.5 Devices - name dialogue

In this form the attributes of a name are displayed. Depending on the user rights the attributes can be edited. Grayed out attributes cannot be edited.

## 9.4 Ribbon tab file

### 9.4.1 Information

Here you can

- look up the terms of use for the MDM,
- select the language the data is supposed to be displayed in,
- check the response time - i.e. check how long it takes to reach the MDM server via the web.

In addition, the current software version, the user currently registered and the name of the server currently connected will be displayed.

## 9.4.2 Administration

Here you can

- change your password,
- manage the users and their rights via the button “Administration”, provided that you have the respective rights,
- change the OEM and the related structure view.
- activate the Excel import for devices

## 9.4.3 Excel Import

The Excel import allows to create new devices or to complete the data of existing devices. Only empty data fields can be used for this partial completion; overwriting or correcting existing data is not allowed. (Only manufacturers with special authorization can do so).

The use of the Excel import requires the rights of creating / editing individual devices and the respective fields. Please, proceed as follows:

### Import of new / complete data records

- Fill in the file “Excel import template” (ribbon tab “File / Administration / Excel import / Save exemplary import file”).
- Update table in Excel.
- Import table in MDM (Ribbon / Open import file).

The data is sent to the server, checked there and the import resulting from this will be indicated on the client.

The data are not yet imported.

- On the client, the table may still be changed.
- After that, the data can be sent to the server again to get checked once more (Ribbon/check).
- Finally, the data are stored on the MDM server (Ribbon/import).

Attention!

When importing data, the correct time / date format has to be selected. Standard default setting is the country format of the current user language.

With a large number of data records the import may take quite a long time – about one minute for 50 devices.

### Partial import of single, up to now empty MDM columns



- Select the data records to be completed in the view “Devices”.
- Export to Excel (tab "Table attributes export").
- Add the missing entries to the file.
- Import file (Ribbon Tab File / Administration / Excel Import) as described above.

Attention!

In the Excel import file the fields “Mdmlid”, “Manufacturer” and “Order number” have to correspond to the data record existing in the MDM.

#### 9.4.4 Help

“Help” offers the following options:

- Activate the complete online help programme including table of contents, index and search function
- View the FAQs – frequently asked questions – as well as the “First steps” for working with the material data manager
- Download the complete online help as a pdf
- View the telephone number and the e-mail address of the hotline

- Context-related help

The context-related help is opened via the function key <F1> directly from the application, and the help assigned to the currently active window will be displayed.

#### 9.4.5 Settings

##### Button “General”:

- Change the representation of the user interface in terms of colour scheme and style
- Select the language setting for data and user interface
- Determine if the window with open tasks is supposed to be opened when the MDM is started
- Determine if tooltips for the individual elements are supposed to be displayed in the structure view
- Reset all individual changes of parameters and setting options via the button “Reset to standard settings (incl. all table settings)”

##### Button “Own address data”

- Change all address data except the e-mail address: should the e-mail address change, please, contact the VESCON hotline under [mdm@vescon.com](mailto:mdm@vescon.com)

#### 9.4.6 Exit

Via the button "Exit" the MDM is closed.

### 9.5 First steps: download, register, login, connection settings

In this chapter you find the necessary "first steps" to become a registered MDM user. As a webbased online data base the MDM is available at our homepage by download.

**To download the MDM please proceed as follows:**

- Go to our homepage [www.materialdatenmanager.de](http://www.materialdatenmanager.de), there to "Downloads" and there to "MDM 2.0"
- Choose the option "Store / Save" and afterwards "Open folder" - "MDM\_2\_0.zip" resides in your download folder
- Open "MDM\_2\_0.zip" by double click and choose the option "Unzip".
- Copy the data content to a folder (e.g. C:\Programs\Vescon\MDM) - this folder must be local and not unlocked and must fulfill the following requirements:
  - no network drive
  - no root directory (e.g. C:\, D:\ ...)
  - not "My documents"
  - not "C:/Programs"
  - not "Desktop"
- Start the MDM by double click on "MDM.exe"

#### 9.5.1 Connection settings

##### Server settings for connection establishment

In case of problems during connection to the server of the material data manager the Proxy server settings should be checked. To do so, please, activate the button "Connection settings" in the login window. In the next window the name of the Proxy server and the corresponding Proxy port have to be entered. If necessary, ask your system administrator.

##### Connection settings

It may occur that your company or your internet provider wants you to use a Proxy server or offers you one. A Proxy acts as a mediator between your computer and the internet. A Proxy can respond to inquiries directed to it out of its own temporary memory. Proxies are used to increase the throughput, filter inquiries and hide your computer from the internet thus improving safety. Proxies are often an integrated part of a company's firewall.



Direct connection to the MDM:

This is the standard setting. Please, use this setting, if you do not want to use a Proxy.

Automatically recognize Proxy settings for this network:

Select this option, if the material data manager is supposed to detect the Proxy settings of your network automatically. The settings of the system (Internet explorer settings) will be used.

Manual Proxy configuration:

Ask your system administrator for the names and the port numbers of the Proxy server and enter this information in the respective fields.

## 9.5.2 Login

Users already registered log in with their user name and the password.

Server login - Material Data Manager (V 2.0.0.3)

User name: [Forgot password?](#)  
user@vescon.com

Password: \*\*\*\*\*

Server: MDM-Server Language: Englisch

Register Connection settings Login Cancel

Server login

Als Gast können Sie sich mit den Benutzernamen "Gast" und dem Kennwort "test" anmelden. Als Gast haben Sie nur sehr eingeschränkte Möglichkeiten zur Verfügung.

## 9.5.3 Register

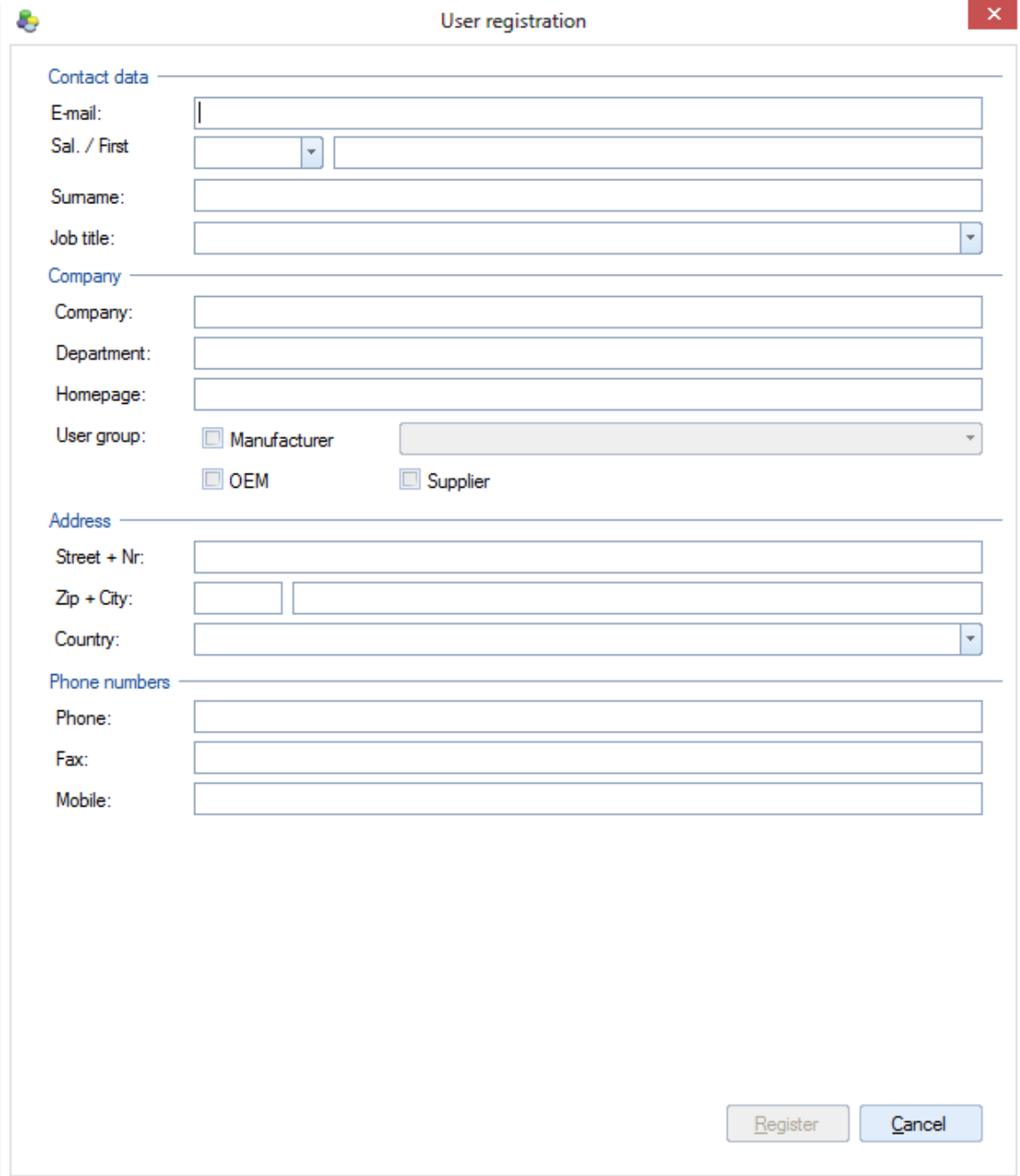
### Login and registration

The use of the material data manager requires the user's prior registration. It is only legal persons and natural persons fully capable to contract that are allowed to register.

The data VESCON requires for registration are to be provided completely. VESCON reserves the right to check the registration data. If it turns out that the registration data entered in the registration form are wrong or incomplete, the respective user can be blocked.

On logging in the user acknowledges the present terms of use.

VESCON has the right to lock the access of a user who uses the system unlawfully and/or in breach of the duties laid down in these terms of use.



**Registration**

New users have to register in the material data manager. This is done via the window "MDM registration" which is started out of the login window via the button "Register".

For a successful registration, please, enter any data required. You will automatically be sent the password by e-mail after successful registration.

Before approval through VESCON the user has only a read permission for the data.

## 9.6 Change password

If you want to change the password, please click on the ribbon tab "File", there on "Administration",

there on "Change Password". A dialogue window will pop up with the requested entries.

The new password must fulfill the following requirements:

- The minimum length of the password is 8 characters
- The password must not be your user name
- The password must not be identical to your last 12 used passwords
- Minimum three of the following requirements must be fulfilled:

    Password contains upper case letters

    Password contains lower case letters

    Password contains numbers

    Password contains special chars

The new password must be changed every 90 days.

## 10 Licensed modules

The following modules are not included in the standart delivery of the MDM; therefore the have to be ordered separately.

- Cart - from V 2.0.58
- Universal approval (makes the administration of approval convenient for the OEM) - from V 2.0.62
- Parts list editor - coming soon
- Device groups - coming soon

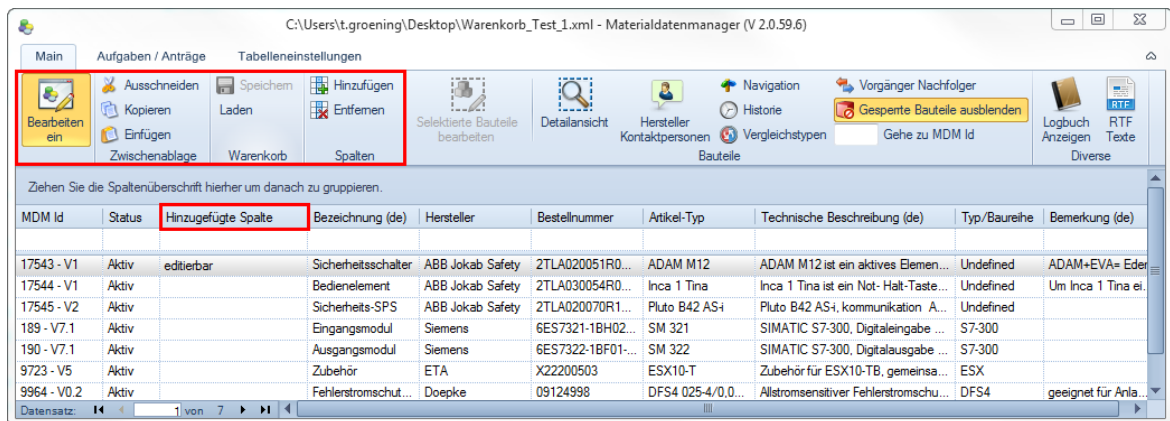
Please get the the terms and further information by VESCON GmbH, Mr. Bernhard Adler, via [b.adler@vescon.com](mailto:b.adler@vescon.com) .

### 10.1 Cart

The cart (<View><Cart>) is a list, in which any number of components from any component list in the MDM (also from structure elements) can be copied by drag & drop or by the clipboard. Every obvious component is displayed as a row, if the same component is copied in the cart again, the count increments by one. If the component is relocated, the number will be reduced by one. The count can be edited manually.

Furthermore additional columns can be added, edited or removed. The cart can be saved as a .xml file and can be loaded again.





The components in the cart can be copied in any component list in the MDM or in external applications by drag & drop or by the clipboard.

By drag & drop a device will be copied. By drag & drop <Shift> a device will be cutted from the cart - so the number of devices will be reduced.

The use of the cart is charged and must be licenced (free for "Premium" manufacturers) - without this only five components can be copied in the cart and it is not possible to save it as a file. Carts containing more than five copponents can be loaded but not edited.

## 10.2 Parts list editor

The parts list editor makes the editing of parts lists and the creating of cumulative parts list more convenient.

This module is currently not available and still in progress.

## 11 FAQ

### 11.1 MDM information paper

The MDM information paper will inform the MDM users about news in sporadic distances; also one or two main discussion topics will be ventilated intensively. Apart from general informations the MDM information paper should also help the MDM users to get solidified knowledge about the MDM. Tips and advices for an optmized handling of the MDM will be provided.

We thank you for suggestions or your questions concerning specific topics which will be discussed in one of the following MDM information papers.

#### **How to discontinue the MDM information paper?**

Clear the checkbox "MDM info paper" in the dialogue <File><Settings><General>.

### **11.2 Which devices may I use for my project?**

First, clarify with your contact person if a material approval list (MFL) or a project structure is relevant for your assignment and ask for the name of this structure node.

In case of a project structure you will need at least the read permission (see also: "Request for rights").

Now start the MDM and switch to "View – structure view". Then enter the name of the structure node in the filter line above the structure tree or open the respective structure tree until you get to the desired element.

The tab "Approved devices" displays a table of the approved components.

### **11.3 Where can I find the approval lists (MFLs)?**

Start the material data manager and select the respective OEM. Then select "View – structure view". In the structure view you will find the MFL structure with the corresponding material approval lists.

Attention: For suppliers the project approvals are usually relevant

### **11.4 Where can I find the pool data / all device data?**

Select "View – devices". Then select the respective device manufacturer or the option "All manufacturers" and click on "Show". The respective devices will be displayed.

Attention: the displayed data records are not automatically approved in your projects. These data records you can find in the tab "approved data" in the structure view.

### **11.5 I need a new data record / a new device**

Please check at first if the device is actually not contained in the MDM. New devices can be requested by the workflow [Workflow "Anträge - Neues Bauteil beantragen"](#) .

Attention: the requested device has the status "temporary" and will be deleted from the MDM in case of rejection.

## 11.6 I need rights on a project element

Please start the [Workflow "Anträge - Neues Bauteil beantragen"](#) in the menu "Tasks / Requests". Please make the request for the respective node, visible to you or globally visible, of the structure node view adding for which task the rights are needed.

In "Project name" please give in the name of the project.

In the field "Client" the OEM expects the company name of the direct contractor or general contractor.

In the area "Rights" you are supposed to define if read or write permissions are required.

Eq. No (==) means equipment number. Please, insert here the respective numbers referring to your order.

In order to make sure that the request can be handled effectively, it is recommended to provide as much information as possible in "Remarks".

## 11.7 I want to extend the project structure

In order to be able to extend a project structure you will need the read permission for this element. This means that you need the role "Manager" or "Read/Write" by the quick administration. If you do not have these rights, you can make a request for rights.

If you do have the rights already, select the respective project structure (via "View – structure node") and activate the edit mode. Then you can extend the struktur via the function "New".

## 11.8 Daily messages by e-mail concerning tasks with status "in progress"

The MDM sends daily a message to all users which have tasks with status "in progress". The message distinguishes between sender / recipient and the type of tasks.



Please consider that tasks with status "rejected" must be "finished" to avoid automatic repetitions of these tasks in the messages.

In order to finish a task please proceed as follows: open the task view, open the task by a double click and click on the button "finish".

Offene Aufgaben sind:

**Für Sie als Absender folgende Aufgaben:**

- im Status "In Bearbeitung (Absender)"
- im Status "Erledigt" und von Ihnen noch nicht gelesen
- im Status "Abgelehnt" und von Ihnen noch nicht gelesen

**Für Sie als Empfänger folgende Aufgaben:**

- im Status "In Bearbeitung (Empfänger)"

## 11.9 Data records - range of functions

Depending on the kind of devices, status and ranking of the manufacturers different features in the MDM are available. Please look on the following schedule:

	Status of device				Ranking of manufacturer			Kind of device		
	Temporary	Active	Blocked	Erroneous	Premium	Undefined	Limited	Device	Assembly	Universal approval
Device -> Chapter		x	x		x	x	x	x	x	x
Device -> Project		x	x		x	x	x	x	x	x
Device -> MFL		x	x		x	x	x	x	x	x
Request of MFL approval		x	x		x	x		x	x	
Request of		x	x		x	x		x	x	

project  
approval

General Task	X	X	X	X	X	X	X	X	X	X
Predecessor / Successor		X	X		X	X	X	X	X	
Comparable types		X	X		X	X	X	X	X	
QS Check		X	X		X			X	X	
CAD assignment	X	X	X		X	X	X	X	X	

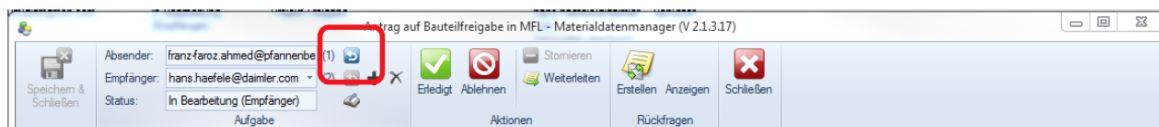
## 11.10 Approved and not approved devices

In MDM not approved devices are shown *italic*.

Approved devices would be shown normal. This always applies only to the correspondingly selected project / MFL.

## 11.11 Aufgaben: Zurück an den Absender

These are two new states for tasks. They will also be shown in the daily Infomail. The goal is to build communication with the sender and to document it. The function is available via



Or in the table view as mass processing:



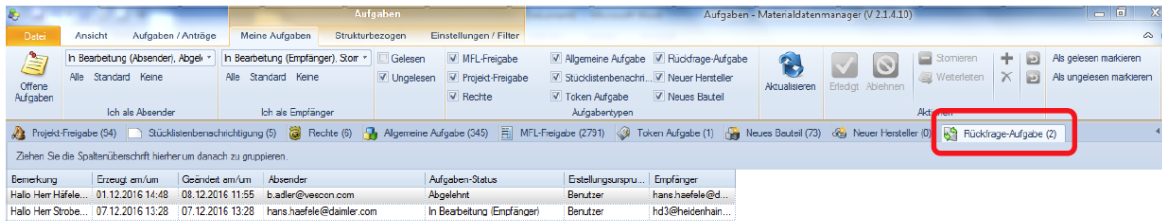
**As the operator should use this function for communication with the machine manufacturer. Currently, the task is simply rejected, which also leads to the end of the possible communication within this task.**



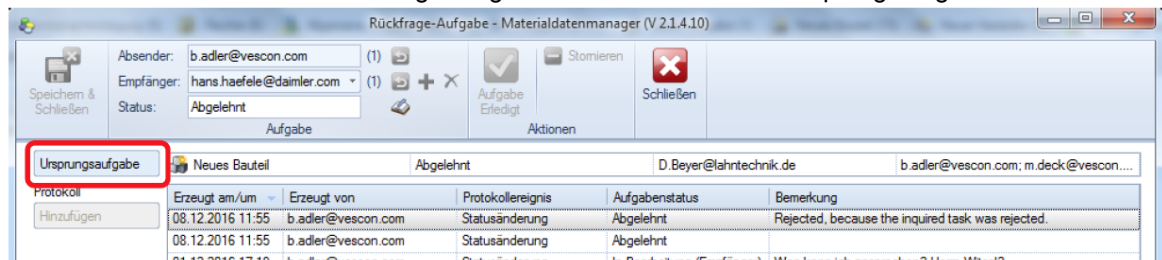
## 11.12 Aufgaben: Wozu dienen Rückfragen?

Mit Hilfe der Rückfrage kann man eine bisher nicht an der Aufgabe beteiligte Person nebenbei zum Thema hinzuziehen.

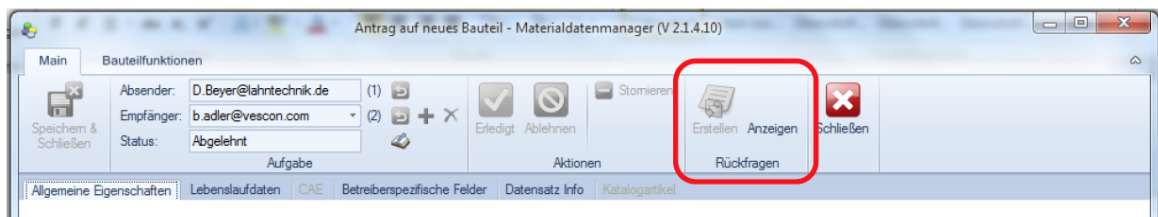
Die Darstellung der Rückfragen erfolgt in einem eigenen TAB:



Über die Detailansicht einer Rückfrage-Aufgabe kommt man auf die Ursprungsaufgabe und zurück:



In jeder Aufgabe besteht die Möglichkeit eine neue Rückfrage-Aufgabe zu erstellen oder alle der Aufgabe zugehörigen anzuzeigen.



Wichtig: die Rückfragen werden mit dem „Erledigt“ / „Ablehnen“ der Ursprungsaufgabe auch „inaktiv“.

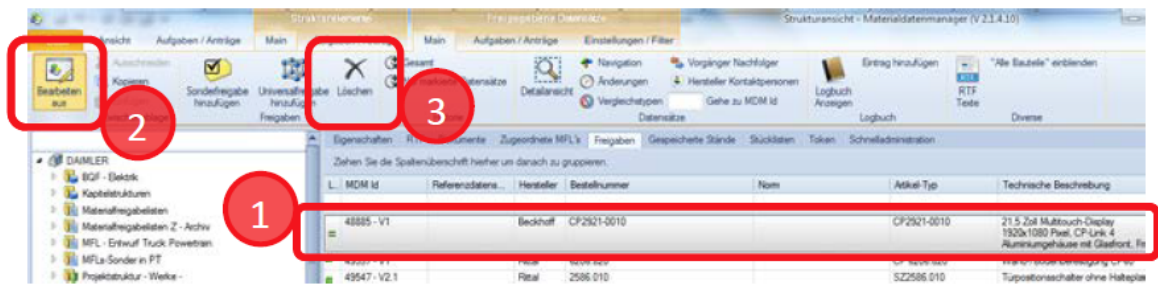
## 11.13 Wie kann ich eine Sonderfreigabe, die ich versehentlich erteilt habe löschen?

Das Bauteil ist in einem TAB Freigaben, Stücklisten, ... zu sehen oder wird über die allgemeine Suche gefunden:

Nun den Datensatz markieren und auf „Navigation“ gehen.



1. Den Link (Strukturbaum) der Sonderfreigabe auswählen.
2. Nun auf den Datensatz im Strukturelement springen.

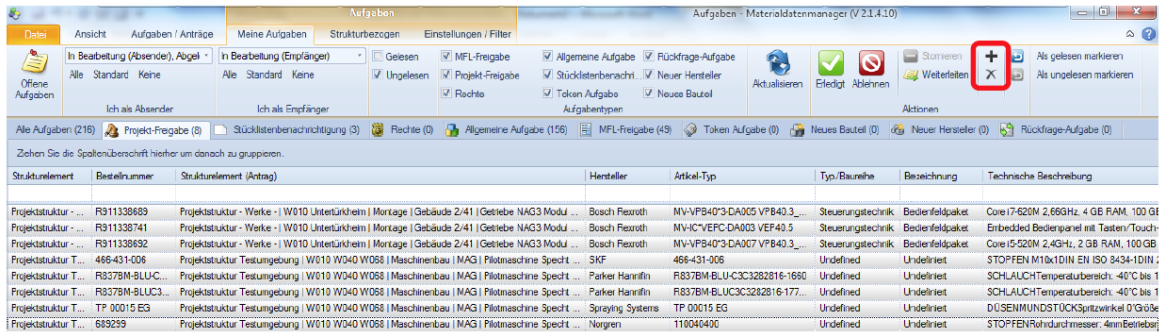




1. Der Datensatz ist markiert
2. "Bearbeiten Ein" - schalten
3. Nun kann die Freigabe gelöscht werden

## 11.14 Wie kann ich die Aufgabe an den hierfür zuständigen Empfänger weiterleiten

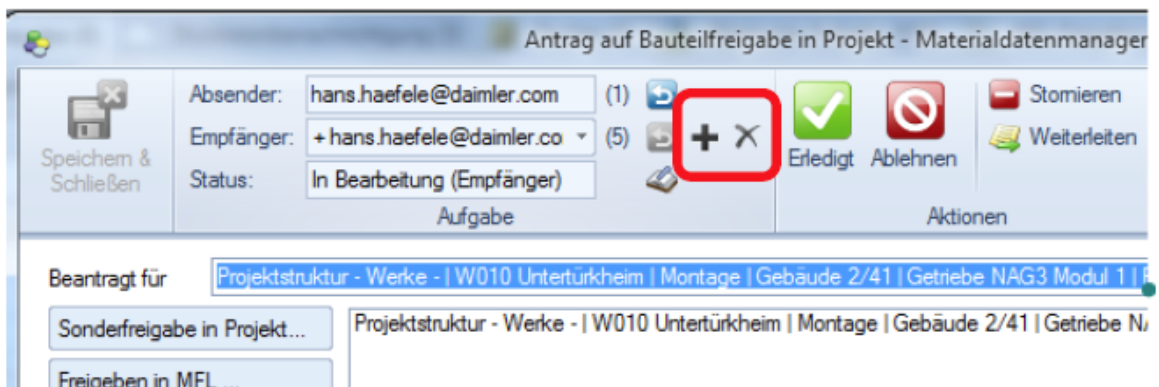
Weitergabe einer Aufgabe inkl. der nötigen Rechte für die Freigabe an nicht direkt im Projekt beteiligte Personen.

Beispiel: Prüfung und Freigabe von Motorspindeln und Hochdruckpumpen



Die beiden Symbole  und  ermöglichen das Hinzufügen einer anderen Person und das Löschen der persönlichen Zuordnung zu selektierten (mehreren) Aufgaben.

An folgendem Punkt sind sie in den Aufgaben zu finden:



Weiter Informationen sind hier zu finden: [Allgemeines zum Bearbeiten von Aufgaben](#)

## 11.15 Anwender nicht mehr aktiv - was passiert mit Aufgaben?

User-Account wird stillgelegt – was passiert mit den Aufgaben?

Wenn ein User ein Unternehmen verlässt und deshalb sein Account nicht mehr zur Verfügung steht, ist für dessen Aufgaben folgendes zu beachten:

Aufgaben vom Typ „Projektfreigaben“ sind auch für andere User strukturbezogen abrufbar, sofern sie als verantwortliche Zulieferer definiert sind.

Alle anderen Aufgaben sollten bis zum Ausscheiden erledigt sein. Dies gilt ins besonders für den Aufgabentyp „Neues Bauteil“



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