mightyBrowser

coolOrange s.r.l

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MIGHTYBROWSER

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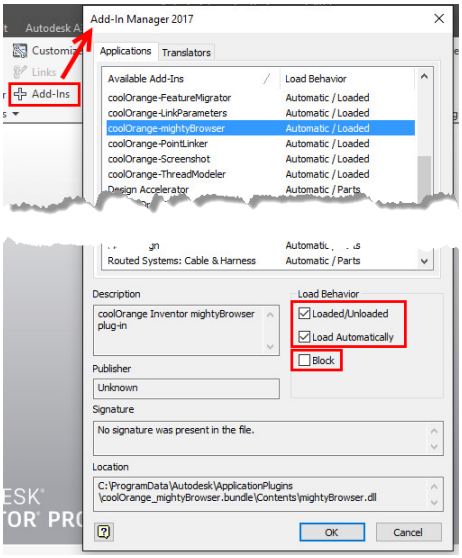
CHAPTER

ONE

INSTALLATION

1.1 Download and Installation

Like all other coolOrange plug-ins you can download it from the Autodesk Exchange Store.
The installation is pretty straight forward. Just run the msi file and follow the instructions.



If the coolOrange ribbon does not appear it might be you need to unblock the App, in the Inventor the Add-In manager.

- Open the Add-In manager
- Select the coolOrange-mightyBrowser
- Unblock the app.
- Activate the checkboxes “Loaded/Unloaded” and “Load Automatically”.

1.2 Uninstall

You can unload the plugin without uninstalling it by unchecking the "Loaded/Unloaded" check box associated with the plugin in the Inventor Add-In Manager. You may have to restart Inventor to completely unload the application.

To remove the plugin completely, Right Mouse Button click and uninstall the application using the Exchange App Manager tool, located on the Ribbons *Tools* tab > *Options* Panel.

To uninstall this plug-in, exit the Autodesk product if you are currently running it, simply rerun the installer, and select the "Uninstall" button.
OR, you can uninstall it from 'Control Panel\Programs\Programs and Features' (Windows 7/10), just as you would uninstall any other application from your system.

1.3 System requirements

1.3.1 Operating System

- Microsoft Windows 10
- Microsoft Windows 11

1.3.2 CAD

- Inventor Professional 2021 or newer

Remark: Inventor LT is not supported!

CHAPTER

TWO

ACTIVATION AND TRIAL LIMITATIONS

2.1 Trial limitations

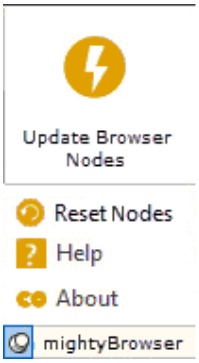
There are no limitations except the 30 day limit.

2.2 Activation

In order to activate the product you have following options:

2.2.1 mightyBrowser Ribbon

In Inventor click on the 'coolOrange' ribbon, find the mightyBrowser and click the slide down button, to finally click the 'About' button:



2.2.2 Command-line

The command line activation assists activation on several client machines.
Launch the License Information tool located in the install directory with the required Command-line arguments. Example: Activating a Stand-Alone license using a serial number:

```
"C:\ProgramData\Autodesk\ApplicationPlugins\coolOrange_mightyBrowser.bundle\Contents\
↪License.exe" --StandAlone --Serialnumber="XXXXX-XXXXX-XXXXX-XXXXX"
```

For more information about activating the product, see Licensing.

2.3 Licensing Options

2.3.1 Stand Alone Licensing

This product supports the Stand-Alone licensing model which is charged based on the time the license is valid and the number of seats the license is valid for.
For further information see the detailed description of the Stand-Alone licensing model.
In the License Information Dialog the *remaining days* until the license expires can be found.

License expired

When the license expires, mightyBrowser will fail to load in Inventor and therefore can no longer be used.

2.4 Offline activation

The serial number of the license and the machine code are required to generate an activation file.
The activation file for an offline activation can be generated and downloaded on the following site: mightyBrowser-Activation file generator

CHAPTER

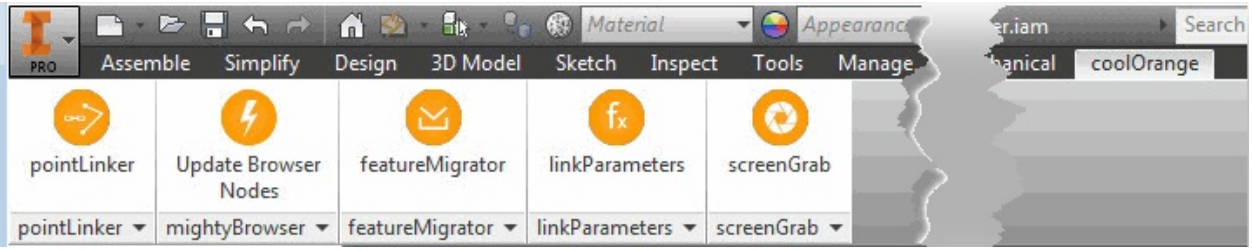
THREE

GETTING STARTED

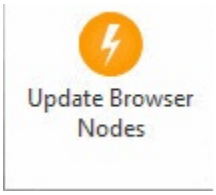
3.1 Overview

mightyBrowser helps Inventor users to have descriptive nodes in the Inventor browser of an assembly, part, presentation or drawing. For a first overview have a look into this video.

The Inventor Add-In mightyBrowser provides a function to update the description of components of the Inventor browser based on configured iProperties. You find the mightyBrowser command in the coolOrange ribbon:

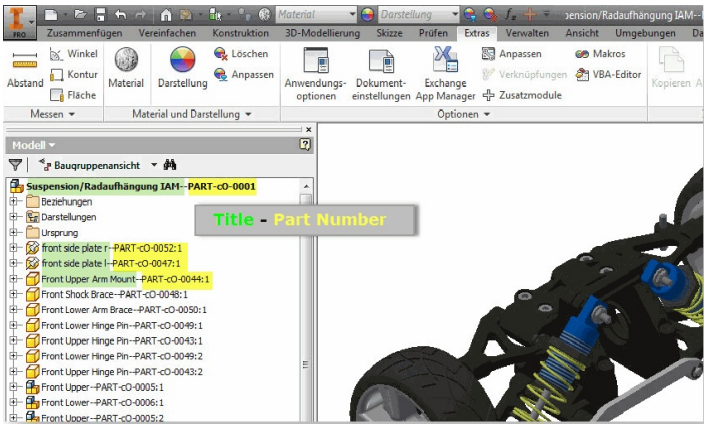


3.2 Workflow



After installation of the Add-In and restarting Inventor there is a new function available:
Call command Update Browser Nodes from the coolOrange ribbon

This function can be performed either manually or automatically after opening or before saving a document.



For drawing (IDW and Inventor DWG), presentation (IPN), assembly (IAM) and part documents (IPT), the top node (display name) in the browser will be updated after executing the function.

The VIEWs in the Inventor browser of an drawing (IDW, DWG) are also updated.

For assembly documents (IAM) additionally the component names will be updated according to the iProperty definition that is definded in the config file. (See chapter mightyBrowser Settings.)

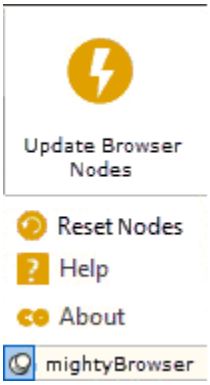
- The default setting for the browser node is the combination of the iProperty ‘Title’ and ‘Part Number’: {Title}-{Part Number}
- By default the browser nodes are not updated when the file is opened or saved.
- By default the browser nodes of Content Center Parts, Library files and Functional Documents - like Frame Generator components, Design Accelerator components, Tube and Pipe components and Cable and Harness components - are not updated.

For iPart factories the update of the browser name is ignored!

CHAPTER

FOUR

FEATURES



The commands for the mightyBrowser Add-In are located in the coolOrange ribbon.

4.1 Commands

4.1.1 Update Browser Nodes

- Updates the toplevel element (display name) in the Inventor browser of an assembly, drawing, presentation and part.
- Updates the components in the Inventor browser of an assembly as set in the configruation file.
- Updates the VIEWs in the Inventor browser of an drawing (IDW, DWG)
- For iPart factoires the command will display a message, that this functionality is not supported.

Skipping files for Browser Node Update

- Skipping files for Browser Node Update can be configured in the config file with setting: **<SkipUpdateNode>**'Property Name'|'Property Value'**</SkipUpdateNode>**
  - 'Property Name' is the Name of the iProperty that is used for skipping the Update Browser Node
  - 'Property Value' is the value of the iProperty, that was defined with 'Property Name'.
  - Default setting is <SkipUpdateNode></SkipUpdateNode>: No 'Property Name' is set, therefore no browser node is skipped.
  - <SkipUpdateNode>MyCustomProperty|*</SkipUpdateNode>: All files with iProperty 'MyCustomProperty' will be ignored for Update Browser Node. '*' means that the value of 'MyCustomProperty' can contain any value.

  - <SkipUpdateNode>MyProperty|SpecificValue</SkipUpdateNode>: Those files having the iProperty 'MyProperty' with the value 'SpecificValue' will be ignored/skipped.
    * Sample: <SkipForProperty>Description|Gear</SkipUpdateNode>: Files where the iProperty 'Description' has the (exact) value 'Gear' will be ignored/skipped.
  - <SkipUpdateNode>MyCustomProperty|</SkipUpdateNode>: All files where iProperty 'MyCustomProperty' is empty will be ignored for Update Browser Node.

- If the command "Update Browser Node" is called in the context of an assembly and a component has an iProperty that fits to 'SkipUpdateNode', then the browser node of that component is not updated, as the browser nodes belongs to the assembly.
- If the iProperty that fits to 'SkipUpdateNode' is defined in the top assembly, part, IPN or drawing then the display name (top level browser node) is not updated.

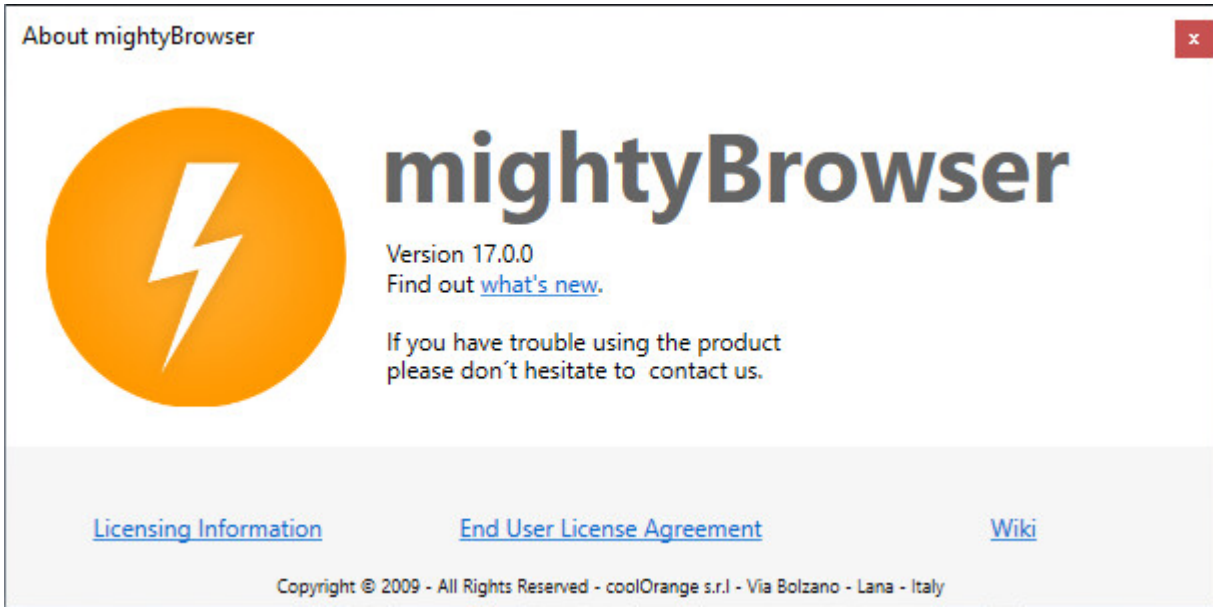
4.1.2 Reset Nodes

Sets back the components in the Inventor browser of an assembly and the display name of an assembly, drawing, presentation and part.

4.1.3 Help

Opens the mightyBrowser home documentation site on the coolOrange Wiki page.

4.1.4 About



Displays a dialog with the version number of the app. Also a link to this Wiki and the EULA is included.

CHAPTER

FIVE

MIGHTYBROWSER SETTINGS

In the configuration file **mightyBrowser.config** the settings for the Add-In are set.
The config file can be found in the folder *%ProgramData%\Autodesk\ApplicationPlugins\coolOrange_mightyBrowser.bundle\Contents*.
The config file can be edited with every editor. We recommend to XML editors like the XML Notepad from Microsoft.

Warning

In case of situations where mightyBrowser doesn't find this 'mightyBrowser.dll.config' file, mightyBrowser will work as usual and the default settings below will be used.

5.1 Settings Overview

Attribute name	Default	Description	Remark
BrowserNodeDefinition	{Title}={Part Number}	Definition which iProperties are used for the browser names. The default is the combination of the Title and the Part Number. All iProperties that are used in the file can be taken. Additional properties are: {File Name}, {File Extension}	Localized iProperty names of Inventor system properties like "Bauteilnummer" cannot be evaluated. You need to use the English Display Name of the iProperty, like "Part Number". Find more information about this *here*.
LibraryBrowserNodeDefinition	{Title}={Part Number}	Definition which iProperties are used for the browser names for library parts. This attribute is only evaluated if the attribute 'UpdateLibraries' is set to true.	Localized iProperty names of Inventor system properties like "Bauteilnummer" cannot be evaluated. You need to use the English Display Name of the iProperty, like "Part Number". Find more information about this *here*.
SkipUpdateNode	(empty)	If property name and property value is set, all files with that property and value will be ignored for browser node update. Property name and value must be seperated with a pipe. If Value is set to '*', all files with configured property will be ignored for Update Browser Node. '*' means that the value of configured property can contain any value. If property name is set and value is left empty, all files with configured property where the property value is empty will be skipped.	Files with the configured property will also be skipped for reset nodes! Find more information about this feature in the *Features*" section "Skipping files for Browser Node Update".
UpdateViews	false	If set to true also the label of VIEWs in a drawing are updated. If the property value contains ':' then it will be substituted by '='.	We recommend to set this to false if sections are placed on the drawing.
UpdateRecursive	false	If set to true also the browser names of sub=assemblies are updated.	We recommend to set this to false because of possible performance issues.
UpdateOnOpen	false	If set to true the browser names are updated when the file is opened and not write protected.	
UpdateOnSave	false	If set to true the browser names are updated when the file is saved.	When it is the initial save of a file the update of the browser node is not done, to avoid issues with the filename.
UpdateContentCenterFiles	false	If set to true the browser names of Content Center Files are also updated.	This switch is currently not evaluated. Use attribute "UpdateLibraries".
UpdateFunctionalDocuments	false	If set to true the browser names of "Funcional Documents" are also updated. "Funcional Documents" are components created with Frame Generator, Design Accelerator, Tube and Pipe or Cable and Harness	We recommend to work with setting false, as it might happen, that not all components of "Funcional Documents" are updated.

After changing the config file Inventor must be restarted, that the new settings take effect.

CHAPTER

SIX

FAQ

Q: Which Inventor versions are supported?
A: Inventor Professional 2021 or newer

Q: I am using Frame Generator parts. Is it possible that the component names are also updated?
A: Yes, it is possible. You need to change the setting 'UpdateFunctionalDocuments' to true, like described in chapter *mightyBrowser Settings*.

Q: When I open an iPart factory the browser name is not updated. Why? A: If the display name of an iPart factory would be modified already generated ipart members might not find the factory. Therfore, the app is not updating display names of iPart factories!

Q: I have set switch 'UpdateOnOpen' to 'true' in mightyBrowser.dll.config but when I call command 'Open' on the context menu of the browser tree, the 'Update Browser Node' is not done on the opened file.
A: 'UpdateOnOpen' is not implemented when the 'Open' command is called from the browser tree. If you are missing this feature, please send an email to support@coolOrange.com and ask for that feature.

6.1 Known issues

6.1.1 Label of sections

If switch 'UpdateViews' is set to true the label of the VIEW is modified. If you insert a section on the sheet, the default for the text of the section is the label of the VIEW. Therefore instead of just the expected text 'A' or 'B' a complete browser node text is displayed.

Solution: Either set configuration switch 'UpdateViews' in mightyBrowser.dll.config to 'false' or Overwrite the text for the section.

6.1.2 UpdateFunctionalDocuments

If switch 'UpdateFunctionalDocuments' is set to true in the config file, it might happen that some of the browser names of Frame Generator parts are not updated.
Workaround: Call command "Rename Browser Nodes" from the Productivity tool, and either apply Filename or Part Number as new name. Then call "Update Browser Nodes" from the coolOrange ribbon again.

6.1.3 Browser name of an IPN in VIEWs

Browser name of an IPN as component in a VIEW of a drawing cannot be updated.

6.1.4 Config file is overwritten when installing the update of mightyBrowser

If you have modified the mightyBrowser.dll.config file and run an update of mightyBrower the config file is overwritten. Therefore it is recommended to backup the config file before the update is done. Then the own settings can be transferred to the new installed config file.

6.1.5 Localized Display Names are not evaluated

Localized iProperty names of Inventor system properties like “Bauteilnummer” cannot be evaluated. You need to use the English Display Name of the iProperty, like “Part Number”.
Find below the list of the iProperties with the English and German Display Names:

English Display Name	German Display Name
Title	Titel
Subject	Thema
Author	Autor
Manager	Manager
Company	Firma
Category	Kategorie
Keywords	Schlüsselwörter
Part Number	Bauteilnummer
Stock Number	Bestandsnummer
Description	Bezeichnung
Revision Number	Revisionsnummer
Project	Projekt
Designer	Konstruktuer
Engineer	Ingenieur
Authority	Bevollmächtigter
Cost Center	Kostenstelle
Cost	Geschätzte Kosten
Vendor	Zulieferer
Checked by	Kontrolliert von
User Status	Status
Design Status	Konstruktionsstatus
Date Checked	Kontrolldatum
Engr Approved By	Konstruktion genehmigt von
Engr Date Approved	Genehmigungsdatum Konstr.
Mfg Approved By	Fertigung genehmigt von
Mfg Date Approved	Genehmigungsdatum Fertig

Note: “Design Status” returns a number for each status.

CHAPTER

SEVEN

LOGGING

7.1 Logging Levels

ALL	Everything is written to the logfile
DEBUG	Debuginformation is written to the logfile
INFO	Every error, warnings and infos are written to the logfile
WARN	Every error and warnings are written to the logfile
ERROR	Every error is written to the logfile
FATAL	Only critical errors are written to the logfile
OFF	No logging

mightyBrowser uses Apache log4net as core logging library, and additionally PostSharp Diagnostics for extended Debug logging.

By default, all the logs are stored in a logfile located in *'C:\Users\{USER}\AppData\Local\coolOrange\mightyBrowser\Logs\mightyBrows* and it contains only Infos, Warnings and Errors.

The log4net settings file is located in *C:\ProgramData\Autodesk\ApplicationPlugins\coolOrange_mightyBrowser.bundle\Contents\mighty* Further information about log4Net Configurations can be found here.

7.2 When to change the logging behavior?

When you have issues or when you want to get a more detailed knowledge about what went wrong, you can increase the *Logging Levels*.

Note: When changing the loglevel to *DEBUG* PostSharp Diagnostics will be enabled and will log all the function calls into the log files. This could cause performance issues

7.3 LogFile

You can see, that there is just one logging-Appender, thats the *FileAppender*:

```
<appender name="FileAppender" type="log4net.Appender.RollingFileAppender">
```

If you want to change the *Logging Levels* for the logfile, please visit in the configuartion file in the lines:

```
<root>
        <level value="WARN" />
        <appender-ref ref="FileAppender"/>
</root>
```

In that root element, you can configure the logginglevel for all appenders. You could set the level to "DEBUG", than all the appenders will log in debug.
In the line

```
<param name="File" value="${LOCALAPPDATA}\coolOrange\mightyBrowser\Logs\mightyBrowser.log
↪" />
```

you can configure the outputpath and name of the logfile.

CHAPTER

EIGHT

CHANGE LOGS

8.1 mightyBrowser v24

8.1.1 v24.0.10

25-05-2023

General

- Version number changed to 24.0
- Support of Inventor 2024 (and future version)

8.2 mightyBrowser v23

8.2.1 v23.0.145

27-04-2022

General

- Version number changed to 23.0

8.3 mightyBrowser v22

8.3.1 v22.0.143

10-06-2021

General

- Version number changed to 22.0
- License doesn't requires an internet connection when activated with Serial Number
- Changed Logging configuration and log file location

8.4 mightyBrowser v21

8.4.1 v21.0.139

10-06-2020

General

- Support of Inventor 2021
- add new license mechanism - automatic activation of License is possible now with this version
- removed splash screen

8.5 mightyBrowser v20

8.5.1 v20.1.136

28-07-2019

Features

- Files with iProperty, defined in setting 'SkipUpdateNode', will be skipped for both update and reset browser node

8.5.2 v20.0.135

11-06-2019

Features

- Updates the VIEWs in the Inventor browser of a drawing (IDW, DWG) if activated
- Display progress in the Status bar of Inventor

General

- Support of Inventor 2020
- Update coolOrange.licensing package with SplashScreen to mightyBrowser
- Improved performance for browser node updates
- Support updating of browser nodes in in-place-edit mode
- Check whether the value of a property contains a colon ':'
- Update browser nodes in Save event handler should be done in Before the save
- On setting INFO, logs start and end of update browser nodes
- Browser node update only possible after initial save
- Removed setting {Display Name} from BrowserNodeDefinition
- Changed the location of the log files
- Removes all the log files during uninstallation

8.6 mightyBrowser v19

8.6.1 v19.0.121

07-08-2018

General

- New configuration setting to set own browser name pattern for library parts.
- Check whether configuration file exists

8.6.2 v19.0.119

17-04-2018

General

- Support of Inventor 2019
- Improve behavior for mightyBrowser setting "UpdateOnSave" = "true"
- licensing changed to Subscription model license
- Removed dependency on the version of Inventor

8.7 mightyBrowser v18

8.7.1 v18.0.78

10-05-2017

General

- Support of Inventor 2018
- Support of iProperty names that contain special german characters (Umlaute)
- Update of display name of IPNs

8.8 mightyBrowser v17

8.8.1 v17.0.68

14-11-2016

General

- Dealing with duplicate browser names
- Additional properties for configuration (File Name, File Extension, Display Name)
- Update of libryry files with attribute *UpdateLibraries* is set to 'true' in config file.

8.8.2 v17.0.62

`05-07-2016`

General

- Revised workflow for write protected files
- Bugfix for weldment assemblies

8.8.3 v17.0.47

`April 2016`

General

- Support of Inventor 2017

8.9 mightyBrowser v16

8.9.1 v16.0.30

`Oktober 2016`

General

- Changing to trial version only

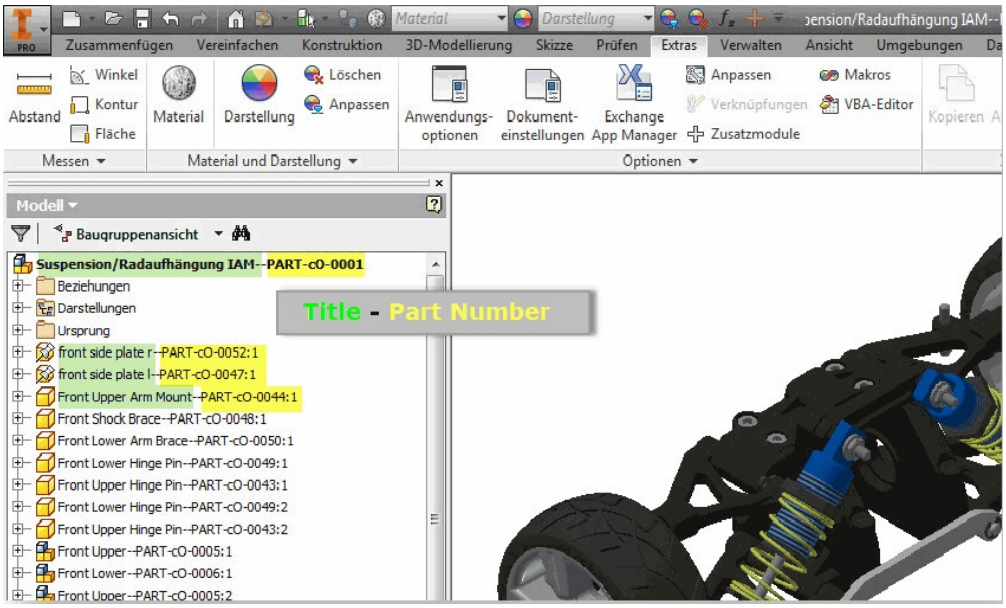
8.9.2 v16.0.18

`September 2016`

General

- Support of Inventor 2016 and 2015
- Update display name for drawings (IDW and Inventor DWG), presentation (IPN), assembly (IAM) and part documents (IPT) according to the iProperty definition
- Additionally update of component names according to the iProperty definition
- Reset browser nodes

mightyBrowser helps Inventor users to have descriptive nodes in the Inventor browser of an assembly, part or drawing.


Material
Darstellung
Zusammenfügen
Vereinfachen
Konstruktion
3D-Modellierung
Skizze
Prüfen
Extras
Verwalten
Ansicht
Umgebungen
Abstand
Winkel
Kontur
Fläche
Material
Darstellung
Löschen
Anpassen
Anwendungs-optionen
Dokument-einstellungen
Exchange App Manager
Anpassen
Verknüpfungen
Zusatzmodule
Makros
VBA-Editor
Kopieren
Messen
Material und Darstellung
Optionen
Modell
Baugruppenansicht
Suspension/Radaufhängung IAM--PART-cO-0001
Beziehungen
Darstellungen
Ursprung
front side plate r--PART-cO-0052:1
front side plate l--PART-cO-0047:1
Front Upper Arm Mount--PART-cO-0044:1
Front Shock Brace--PART-cO-0048:1
Front Lower Arm Brace--PART-cO-0050:1
Front Lower Hinge Pin--PART-cO-0049:1
Front Upper Hinge Pin--PART-cO-0043:1
Front Lower Hinge Pin--PART-cO-0049:2
Front Upper Hinge Pin--PART-cO-0043:2
Front Upper--PART-cO-0005:1
Front Lower--PART-cO-0006:1
Front Upper--PART-cO-0005:2
Title - Part Number

CHAPTER

NINE

SUPPORT

For our products we deliver free support via email: support@coolOrange.com
Please specify in your inquiry:

- Version of the mightyBrowser (you find it in the About dialog)
- Version of Inventor
- Operating system

In case of an error, please describe the steps you are doing to reproduce, if possible. Please tell us the unwanted behaviour and the result you expect.

Thank you very much for helping us to make our product better.
If you have an idea or wish to make the product better, please let us know.