

White Paper

Fabasoft Integration for Autodesk AutoCAD

Fabasoft Folio 2024

Copyright © Fabasoft R&D GmbH, Linz, Austria, 2024.

All rights reserved. All hardware and software names used are registered trade names and/or registered trademarks of the respective manufacturers.

No rights to our software or our professional services, or results of our professional services, or other protected rights can be based on the handing over and presentation of these documents.

Contents

1 Introduction	4
2 Software Requirements	4
3 Installation of the Fabasoft Integration for Autodesk AutoCAD	4
3.1 Installation of Autodesk AutoCAD	4
3.2 Installation of the Fabasoft Folio Client for Autodesk AutoCAD	4
3.3 Uninstalling	4
4 Custom Command	5
5 Configuration of the Fabasoft Integration for Autodesk AutoCAD	5
5.1 Known Blocks	5
5.2 Fabasoft Folio Fields	5
5.2.1 Global Fields	6
5.2.2 Multiple Fields	6
6 Block Template	6

1 Introduction

This document describes the Fabasoft Integration for Autodesk AutoCAD.

2 Software Requirements

System environment: All information contained in this document implicitly assumes a Microsoft Windows environment.

Supported platforms: For detailed information on supported operating systems and software see the software product information on the Fabasoft distribution media.

Descriptions in this document are based on the following software:

- Autodesk AutoCAD 2022 (x64)
or
Autodesk AutoCAD 2023 (x64)
- Microsoft .NET Framework 4.8

3 Installation of the Fabasoft Integration for Autodesk AutoCAD

The Fabasoft Integration for Autodesk AutoCAD will be installed automatically during the installation of the Fabasoft Folio Domain.

3.1 Installation of Autodesk AutoCAD

Detailed information for an installation of Autodesk AutoCAD can be found in the installation description of this product.

3.2 Installation of the Fabasoft Folio Client for Autodesk AutoCAD

To install the client, type the following URLs in the web browser:

`http://<webserver>/<fscvdir>/fscasp/content/lib/FolioClientAutoCAD.msi`

Or execute `Setup\ComponentsBase\Client\FolioClientAutoCAD.msi` from the Fabasoft installation media.

The Fabasoft Folio Client for Autodesk AutoCAD provides a custom command (see chapter 4 “Custom Command”) 4 for Autodesk AutoCAD which is executed whenever an *AutoCAD Drawing* or *AutoCAD Project* is opened in the Fabasoft Folio Client.

3.3 Uninstalling

For uninstalling the Fabasoft Folio Client for Autodesk AutoCAD manually use the “Apps and Features” dialog provided by Microsoft Windows.

For uninstalling the Fabasoft Folio Client for Autodesk AutoCAD automatically, a signed Microsoft PowerShell script file is provided, which is added to the installation directory. This script includes the product code of the currently installed version and can be used by a deployment tool (like Microsoft Software Center) for uninstalling this version even if it was automatically updated before.

`%PROGRAMFILES%\Fabasoft\Folio 2024\AutoCAD\uninstall.ps1`

4 Custom Command

The Fabasoft Integration for Autodesk AutoCAD provides the new custom command `LoadFolioFields`, which updates all available attributes of known blocks within an Autodesk AutoCAD drawing according to their respective Fabasoft Folio field values.

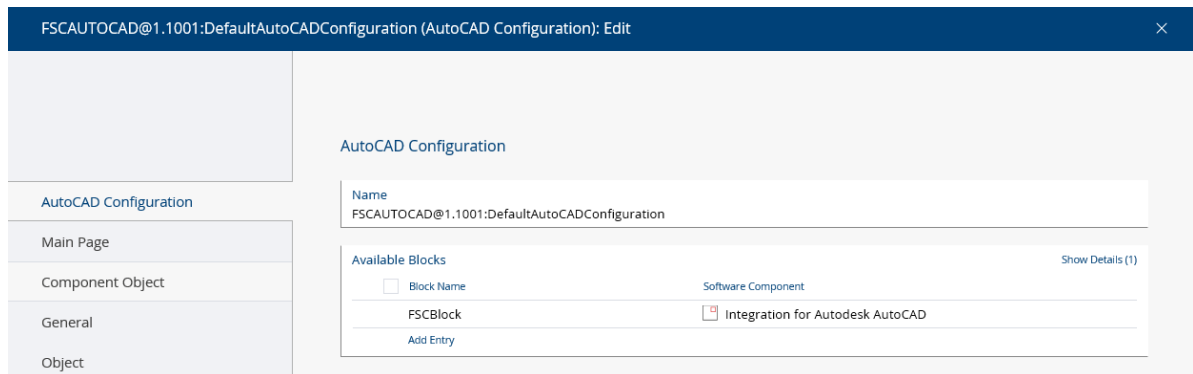
Note:

- Known blocks have to be configured in the Fabasoft Folio Domain (see chapter 5.1 "Known Blocks").
- Available attributes are looked up based on Fabasoft Folio fields definitions for the opened Fabasoft Folio object (see chapter 5.2 "Fabasoft Folio Fields").

5 Configuration of the Fabasoft Integration for Autodesk AutoCAD

5.1 Known Blocks

Known blocks that are to be processed have to be configured in the AutoCAD configuration object



The name of each known block has to be added to the list *Available Blocks* in order to be recognized by the `LoadFolioFields` command.

5.2 Fabasoft Folio Fields

Attributes within known blocks are identified and updated via the use of Fabasoft Folio fields. An attribute in Autodesk AutoCAD is identified by its name (or "tag"). The connection between an attribute and a Fabasoft Folio field is established by a case insensitive match between the attribute's name and the Fabasoft Folio field's object name.

Path to Object	Path to Compound Property	Reference Prefix	Fields	Software Component
			FieldName	FSCAUTOCAD@1.1001
			FieldSubject	FSCAUTOCAD@1.1001
			FieldCreatedBy	FSCAUTOCAD@1.1001
			FieldCreatedAt	FSCAUTOCAD@1.1001
			FieldLastChangedBy	FSCAUTOCAD@1.1001
			FieldLastChangedAt	FSCAUTOCAD@1.1001
			FieldCurrentVersion	FSCAUTOCAD@1.1001

The following fields are defined for the object classes `FSCAUTOCAD@1.1001:Drawing` and `FSCAUTOCAD@1.1001:Project`:

- *FieldName* (`FSCAUTOCAD@1.1001:FieldName`)
- *FieldSubject* (`FSCAUTOCAD@1.1001:FieldSubject`)
- *FieldCreatedBy* (`FSCAUTOCAD@1.1001:FieldCreatedBy`)
- *FieldCreatedAt* (`FSCAUTOCAD@1.1001:FieldCreatedAt`)
- *FieldLastChangedBy* (`FSCAUTOCAD@1.1001:FieldLastChangedBy`)
- *FieldLastChangedAt* (`FSCAUTOCAD@1.1001:FieldLastChangedAt`)
- *FieldCurrentVersion* (`FSCAUTOCAD@1.1001:FieldCurrentVersion`)

5.2.1 Global Fields

Each object class has multiple global fields that are single value Fabasoft Folio fields. These are expected by the `LoadFolioFields` command as following:

```
<FieldName>
```

Example:

```
FieldName  
FieldSubject  
FieldCurrentVersion
```

5.2.2 Multiple Fields

Each object class can have one set of multiple fields. These are expected by the `LoadFolioFields` command as following:

```
<FieldName>_<index>
```

Example:

```
FieldEmail_0  
FieldEmail_1  
FieldEmail_2
```

6 Block Template

The Fabasoft Integration for Autodesk AutoCAD provides a drawing template for each new `FSCAUTOCAD@1.1001:Drawing` and `FSCAUTOCAD@1.1001:Project` object. This drawing contains a block named `FSCBlock` which is configured as a well-known block by default. The block's only reference is updated to the current Fabasoft Folio field values when opening the drawing.

The following attributes are defined within the `FSCBlock` in the drawing:

- `FieldName`
- `FieldSubject`
- `FieldCreatedBy`
- `FieldCreatedAt`
- `FieldCurrentVersion`

The fields use "-" as the default value.

Example:

1. The AutoCAD drawing includes an empty block (FSCBlock).

Created By -	Created At -
—	
-	

2. An *AutoCAD Drawing* is created in the Fabasoft Folio Domain.

Name	Subject	Object Class	Last Change by
New AutoCAD Drawing		AutoCAD Drawing	Administrator, System

3. The attributes of the FSCBlock are immediately updated when the drawing is opened in Autodesk AutoCAD.

Created By Administrator, System	Created At 2010-07-14 12:36:09
New AutoCAD Drawing 1	
-	

4. The property *Subject* is modified in the Fabasoft Folio Domain.

<input type="checkbox"/>	Name	Subject	Object Class
<input type="checkbox"/>	New AutoCAD Drawing	Test subject	AutoCAD Drawing

Add Entry Search and Add

5. The changed value of the *Subject* property (and therefore of the *FieldSubject* field) is updated in the FSCBlock.

Created By Administrator, System	Created At 2010-07-14 12:36:09
New AutoCAD Drawing 1	
Test subject	