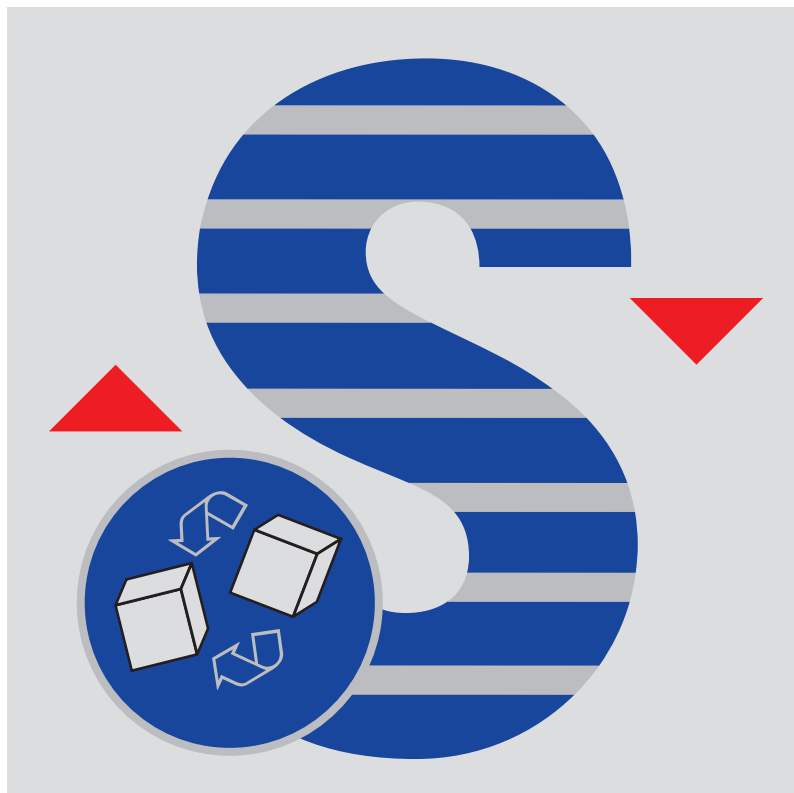




Transformation Importer

User Manual 05/2017



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Transformation Importer

1 Introduction

Transformation Importer is a SCENE App which imports orientation files directly. Thereafter, it is possible to use other SCENE functions, like Webshare, WebshareCloud or pointclouds, without registering scans in SCENE. For supported formats see 5.2.

2 Installation



Figure 1: SCENE App Dialog

As part of the installation procedure of the new version, the old version has to be removed (1, 2). Following this, Transformation Importer can be installed via App Manager (3), drag and drop or by double clicking on the app file in the explorer. App Manager can be found in the menu Tools/Apps.

scantaxi software: <http://www.scantaxi.de/software.html>

Latest version: <http://www.scantaxi.de/software/TrImp.html>

Transformation Importer

3 Licensing

3.1 License models

Transformation Importer is available as:

3.1.1 Full license

- Transformation Importer can be used without any limitation
- a license can be purchased in the FARO 3D App Center (<http://www.faro.com/faro-3d-app-center>)
- See chapter 4 for activation process

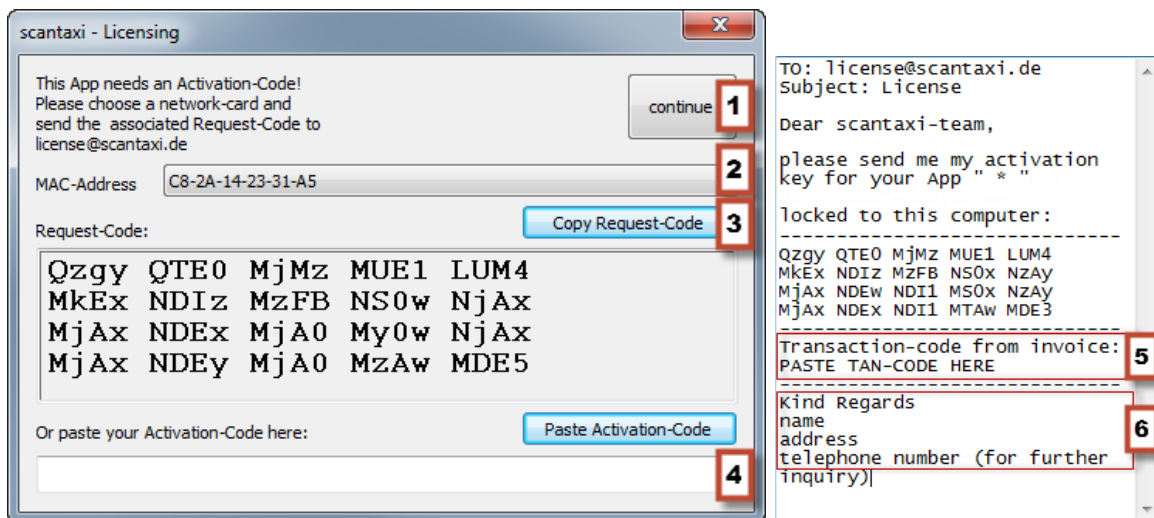
3.1.2 Demo (time trial)

- Transformation Importer can be tested without any limitations for a week
- the license can be requested under license@scantaxi.de
- See chapter 4 for activation process

Transformation Importer

4 Activation process

Starting Transformation Importer without a valid license will prompt the licensing dialog. A full license can be purchased or an one week trial requested.



- Select a MAC address (2)
- Press "Copy Request-Code" to copy the e-mail to the clipboard (3)
- Copy clipboard to email
- Enter transaction number from invoice (5) and your contact information (6)
- Send e-mail to license@scantaxi.de
- Paste received activation code (4)
- Activate license (1)

Transformation Importer

5 How-to

5.1 workflow

- just start Transformation Importer via the toolbar or the menu (fig. 2)
- select the folder, containing the transformationfiles
- select the folder, where the log file should be placed
- choose import type
- start the import

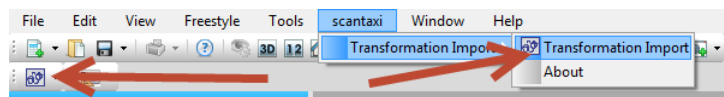


Figure 2: start Transformation Importer

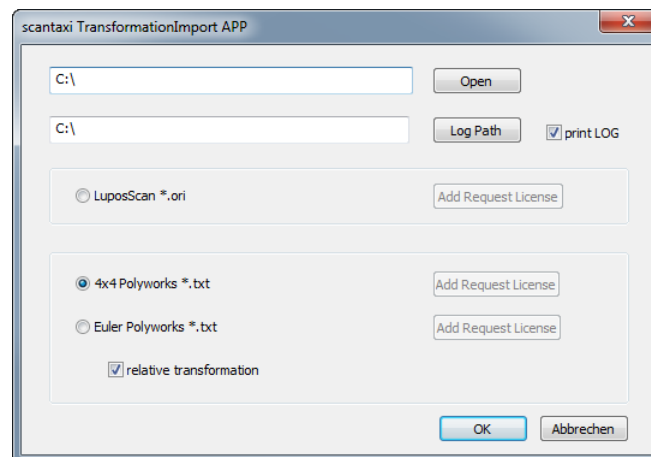


Figure 3: dialog

- relative transformations can be used only once, they need a specific registration, absolute transformation kann be used as often as necessary, the existing registration don't matter
 - absolut:(Transformation New) = (Transformation from file)
 - relative:(Transformation New) = (Transformation in SCENE)x(Transformation from file)

Transformation Importer

5.2 supported formats

Every scan needs transformation data. This data has to be placed in an extra file for each scan and the file name must be named exactly like the scan.

5.2.1 LuPosScan

file extension *.lps.ori
transformation absolut
[orientation_parameter]
X(m) = 1030.9602
Y(m) = 2004.1432
Z(m) = 100.9825
Omega(rad) = 6.26608546
Phi(rad) = 6.27266589
Kappa(rad) = 0.27548945
format scale = 1.00000000
unit m, rad

5.2.2 4x4 (Polyworks)

file extension *.txt
transformation absolut/relativ
VERSION = 1
MATRIX =
1.73648178e-001 -9.84807753e-001 -1.73472348e-017 4.32084039e+002
9.84807753e-001 1.73648178e-001 0.00000000e+000 1.84960640e+002
0.00000000e+000 -2.77555756e-017 1.00000000e+000 1.42108547e-014
format 0.00000000e+000 0.00000000e+000 0.00000000e+000 1.00000000e+000
unit m

5.2.3 Euler (Polyworks)

file extension *.txt
transformation absolut/relativ
ROT_X: -0.000000
ROT_Y: +0.000000
ROT_Z: +80.000000
SHIFT_X: +432.084039
SHIFT_Y: +184.960640
format SHIFT_Z: +0.000000
unit m, grad

Transformation Importer

6 System requirements

- SCENE 5.1.6 and above
- SCENE 5.1.6 LT and above
- Identical with SCENE
- Network card for licensing
- SCENE must be run as administrator to install the plug-in
- SCENE must be run as administrator to install any license

Transformation Importer

7 End User License Agreement

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 - a This Agreement shall be construed pursuant to and governed by the substantive laws of Germany.
 - b If any provision of this Agreement is determined by a court of competent jurisdiction to be void and non-enforceable, such determination shall not affect any other provision of this Agreement, and the remaining provisions of this Agreement shall remain in full force and effect. If any provision or term of this Agreement is susceptible to two or more constructions or interpretations, one or more of which would render the provision or term void or non-enforceable, the parties agree that a construction or interpretation which renders the term of provision valid shall be favored.
 - c This Agreement constitutes the entire Agreement, and supersedes all prior agreements and understandings, oral and written, among the parties to this Agreement with respect to the subject matter hereof.
- VIII If a party engages the services of an attorney or any other third party or in any way initiates legal action to enforce its rights under this Agreement, the prevailing party shall be entitled to recover all reasonable costs and expenses (including reasonable attorney's fees before trial and in appellate proceedings).