ScantraConnect

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ScantraConnect

1 Introduction

ScantraConnect is a SCENE App which directly links SCENE and Scantra directly. This enables SCENE-projects to run a block adjustment without the needing of target points. Thus, Scantra will account for all references and inclinometer data. ScantraConnect applies all information calculated by Scantra in the SCENE project .

Scantra (`www.technet-gmbh.de`) is a program for automated registration of laserscan point clouds based on identical planes and points. Prior to its registration, the relative positions of the point clouds are unknown. Applying Scantra, overlapping Scans are automatically oriented with high precision and reliability. This is achieved by automatic dectection and matching of identical planes instead of target points.
Following the mutual orientation of the scan pairs, all point clouds are oriented via block adjustment in a common reference coordinate system.
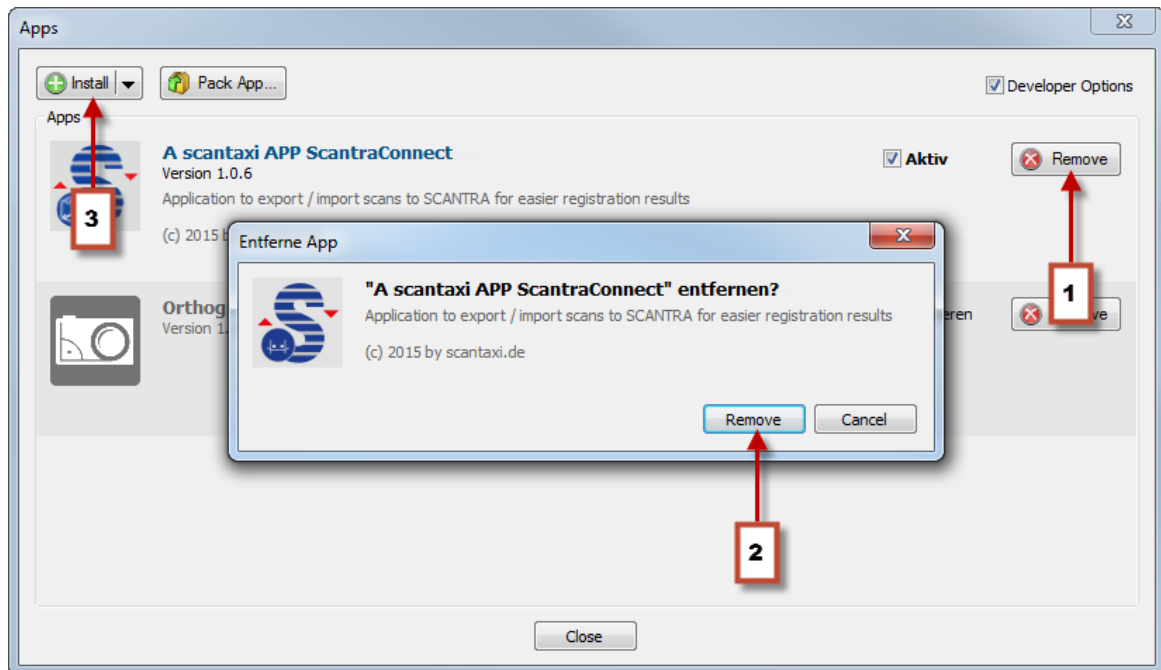
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2 Installation

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, ScantraConnect 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/SCANcon.html

ScantraConnect

3   Licensing

3.1   License models

ScantraConnect is available as:

3.1.1   Full license

- ScantraConnect 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)

- ScantraConnect can be tested without any limitations for a week

- the license can be requested under license@scantaxi.de

- See chapter 4 for activation process

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4   Activation process

Starting ScantraConnect without a valid license will prompt the licensing dialog.
A full license can be purchased or an one week trial requested.
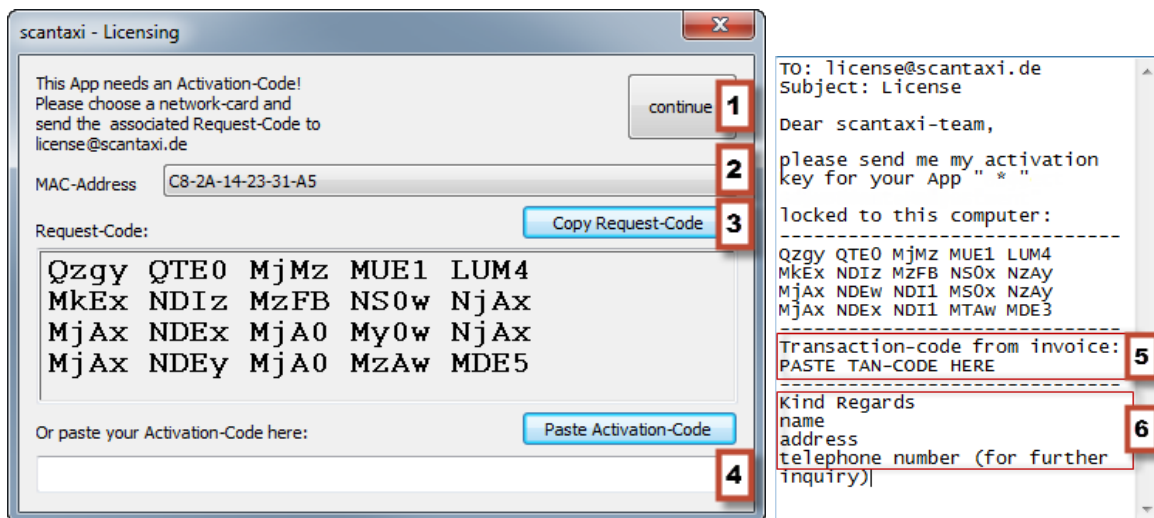
- Select a MAC address (2)

- 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)

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5   User interface
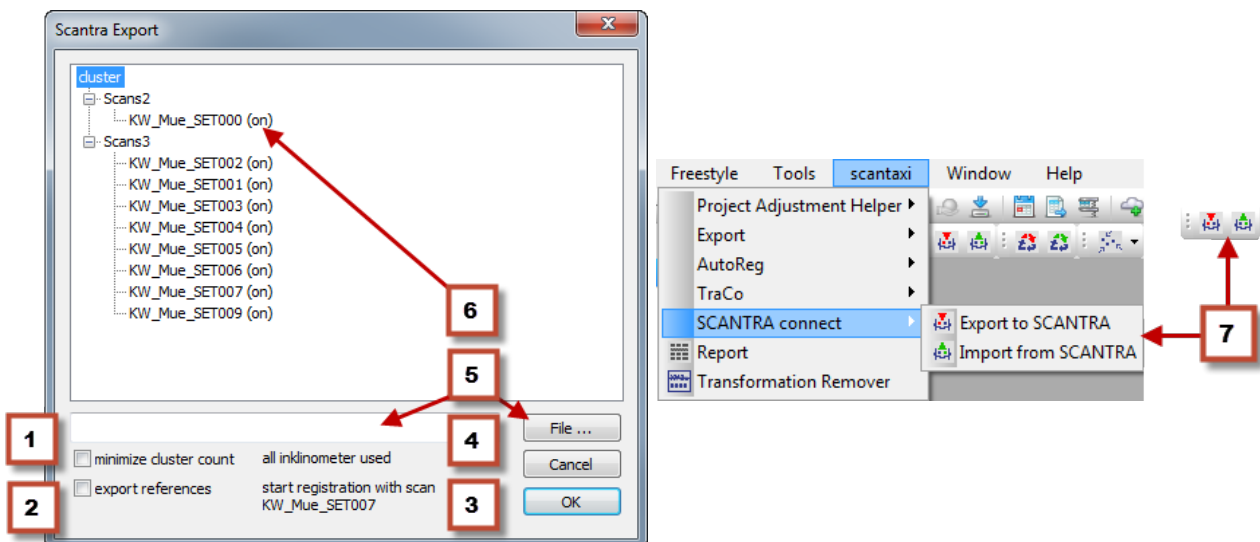
1. Minimize cluster count

    If there are lots of subcluster scans will be consolidated in parent cluster (fig.3)

2. Export references

    Also exports contained references

3. Start registration with scan
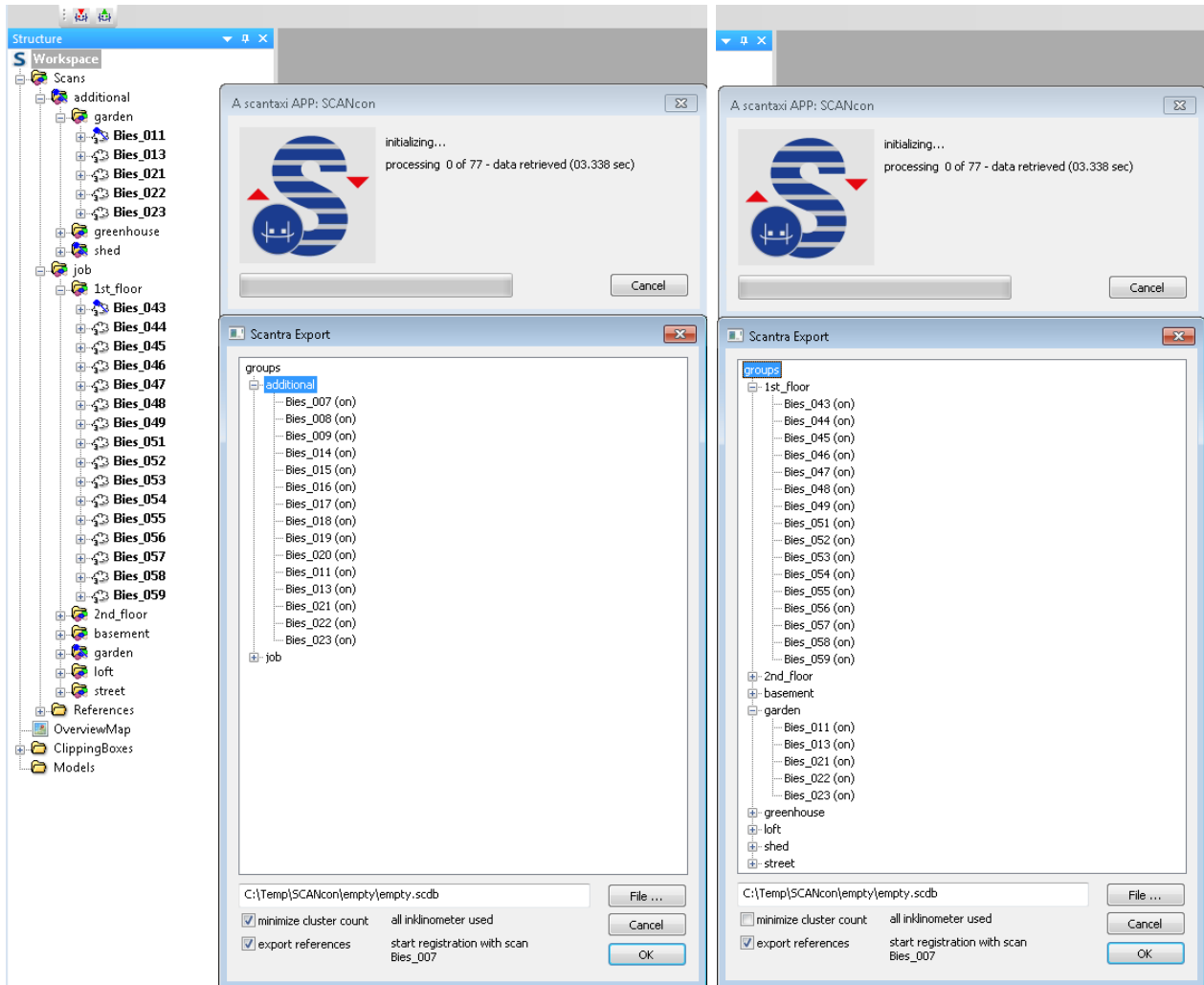
    Select this scan as startscan in Scantra

4. All scans using inclinometer data

5. Select the Scantra project file

6. Shows whether the inclinometer data of the scan are being used

7. Im- and export can be started in the menu or the toolbar

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(a) minimized cluster count   (b) normal cluster count

Figure 3: Minimize cluster count

6 How-to

6.1 Scantra Settings

Real Vertical Axes must be activated in Scantra registration options. (Fig. 4)
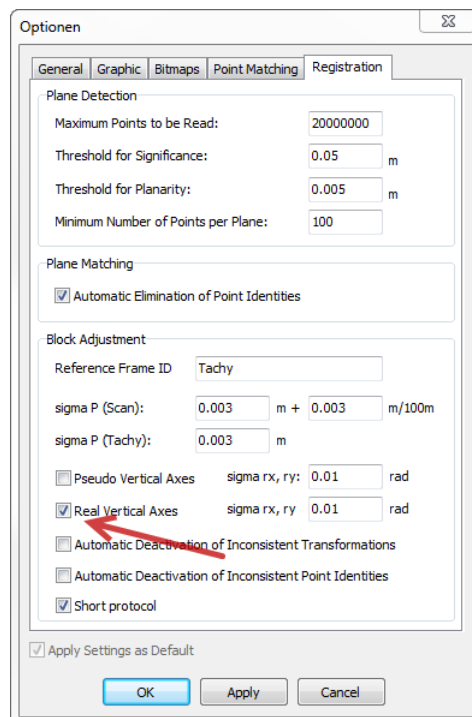

Figure 4: Scantra registration options

6.2 workflow

- Create a new project in Scantra and close it

- Project in SCENE must be saved, as ScantraConnect retrieves all data from the latest revision. It is not possible to determine if changes are present.

- Is the cluster arrangement correct?

    if not, check "minimize cluster"

    or change the cluster arrangement in SCENE

- Select Scantra project ("File" Button)

- If references (external target points) are in the SCENE project, they can be exported to Scantra also ("export references" checkbox)

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- OK button stays inactive until a *.scdb file is selected and not opened elsewhere (close it in Scantra!)

6.3 naming conventions

SCENE	Scantra
Cluster	groups
Reference-Folder	group Tachy

7 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

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