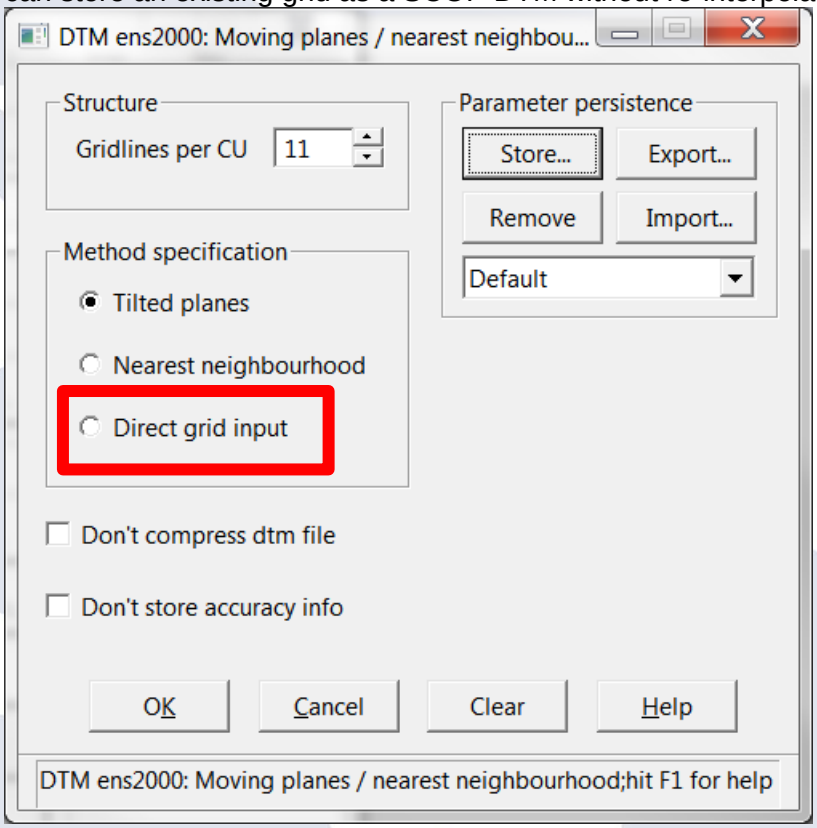
RELEASE NOTES – SCOP++ 5.5

SCOP++ 5.5.1

New function: Direct grid input

We added in the Moving Planes GUI the possibility to import a grid directly. So you can store an existing grid as a SCOP DTM without re-interpolation.



New format: ORT DEM

For South Africa, we implemented a new DTM format „ORT DEM“.

New function: DTM computation

The DTM generation with „Adaptable Prediction“ was speeded up by better consideration of the available RAM.

Patch: DTM > 2 GBytes

It is now possible to generate DTMs > 2 GBytes.

Patch: SCOP++ LiDAR, problem with limits

Fixed: Using DTM limit coordinates with eight digits, the software rounded the limit falsely. This caused „not classified“ edges.

Patch: SCOP++ ANALYZER, Density Model, Export

Fixed: Exporting a generated density model as „Secondary Model“ without interpolation of a DTM from the same data set in beforehand was not possible.

Patch: Graphics Manager

Fixed: Using model-only or data-only overlays, the selection of the visualized graphics with the help of the graphics manager was not in all cases correct.

Patch: DTM Export to format CityGrid XML

Fixed: Exporting a DTM to TIN format CityGrid XML caused a crash.

Patch: DTM export using batch processing

Fixed: It could cause a crash, if the type of export was not defined in the batch CMF file.

Patch: Interpolation Tool, Report

The message „Tolerances exceeded for xxx point(s)!“ will now be reported as an information message instead of an error message.

Patch: blanks/special characters in project folder name

Fixed: Using blanks or other special characters in project folder name, the mixing of graphics did not work correctly.

Patch: Data Properties – imported file list

Fixed: Using projects from earlier versions, the imported file list was not correctly displayed.

Patch: Triangulation

Better reporting if problems occur during triangulation of data

Patch: DTM Export to format ESRI .hdr Labelled Raster

Problems exporting a DTM to format ESRI .hrd Labelled Raster were fixed.

Patch: Import of ESRI shape files

Fixed: Importing ESRI Shape files with a 64bit version of SCOP++ could cause crashes.

Patch: DTM Export with data reduction

The DTM export with data reduction was modified to get better results at the edges.

Patch: Mosaicing

The mosaicing tool was improved.

Patch: Density Model

The computation of the density model runs now more stable.

Patch: Parameter persistence

Fixed: Using “Parameter persistence” to store own parameter sets caused problems if upper and lower case was used (e.g. saving the parameters as “Test” and “test”).

Change: Limit window
Opening the “Limit” window triggers a „Zoom all“ in this window.

Change: menu entry “Reinitialize Dongle” deleted
"Reinitialize dongle" has no more function, so we deleted the entry from the menu bar.

SCOP++ 5.5.0 (July 2011)

SCOP++5.5.0 is a version with a new main setup. An update for the dongle (CodeMeter) is necessary. We do not support the old Aladdin dongles with this version.
Please de-instal lthe former version before installing the new SCOP++5.5.0 setup.

New Feature: 64bit Version
Version 5.5 of SCOP++is available as 64bit and 32bit version.

New Feature: Statistic Output for Point Density
Generating point densities (Quality, Density), an additional statistic report (minimal and maximal number of points per square meter and the number of points per analyze unit) is written into the <project>.log file.

Patch: Synchronization of SCOP++ clients
The synchronization of the RPC_tdmServers, starting SCOP++ parallel in several batch processes, works now stable.

Patch: File <overlay>_ssc1.out_ not found
The error message in batch processing: „File <overlay>_ssc1.out_ not found” is eliminated, the problem is fixed.

Patch: Classification, Performance
To get a better performance, the classification of point clouds was modified.

Patch: DXF file import
The TdmServer crashed when reading DXF files with many STYLE and DIMSTYLE tables.

Patch: LAS file import
Now and then the program crashed while importing LAS files with lots of „variable length records“. This problem is solved.

Information: Installation on OS Win 7
Installing the software on Win7 operating systems, the following registry setting has be checked:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\FileSystem\NtfsDisable8dot3NameCreation
The default setting „ value=2“ allows to create short file names definable for each volume.
Value 0 short and long file names will be created. Till now this was the default settingon WinXP and Win Vista operating system.

For your information
The following setting will be supported on Win 7 operating systems:

0 NTFS creates short file names. This setting enables applicationsthat cannot process long file names and computers that usedifferent code pages to find the files.

1 NTFS does not create short file names. Although this settingincreases file performance, applications that cannot process longfile names, and computers that use different code pages, might notbe able to find the files.

2 NTFS sets the 8.3 naming convention creation on a per volume basis.

Information: Robust Interpolation, Limitation

With the 64bit version the limit of 15 million points as maximum number of points for point cloud filtering/classification is no more valid.

Information: Interpolation Method Moving Planes

It is no more necessary to have a LiDAR license to use the fast method moving planes to generate the DTM; Now the license KERNEL or LiDAR is necessary.

Information: SCOP++ crash

If SCOP++ crashs, please check with the help of the Task Manager if the processes scop++.exe and/or RPC_tdmServer.exe are still running. Please stop these processes (please consider that the software TopDM starts a RPC_tdmServer too – so if a TopDM is running, stop the right one).

Information: cleanDB – clear data base

After a SCOP++ crash it is possible that the internal data base is corrupt. So if you are not able to import a data base into SCOP++, please stop it. Then start the procedurer cleanDB.bat in directory <SCOP++-Projektverzeichnis>\topdb and start scop++ again to fix the data base

Important Information: Installation

During installation, "C:\Inpho_Data\SCOP55_Projects" is suggested as SCOP++ project directory. Using an existing project directory requires a run of **cleanDB.bat** before starting SCOP++. cleanDB is located in the SCOP++project directory, subdirectory topdb.

Should you have any questions regarding the technical details of software, please contact your Support Team at **support@inpho.de**.