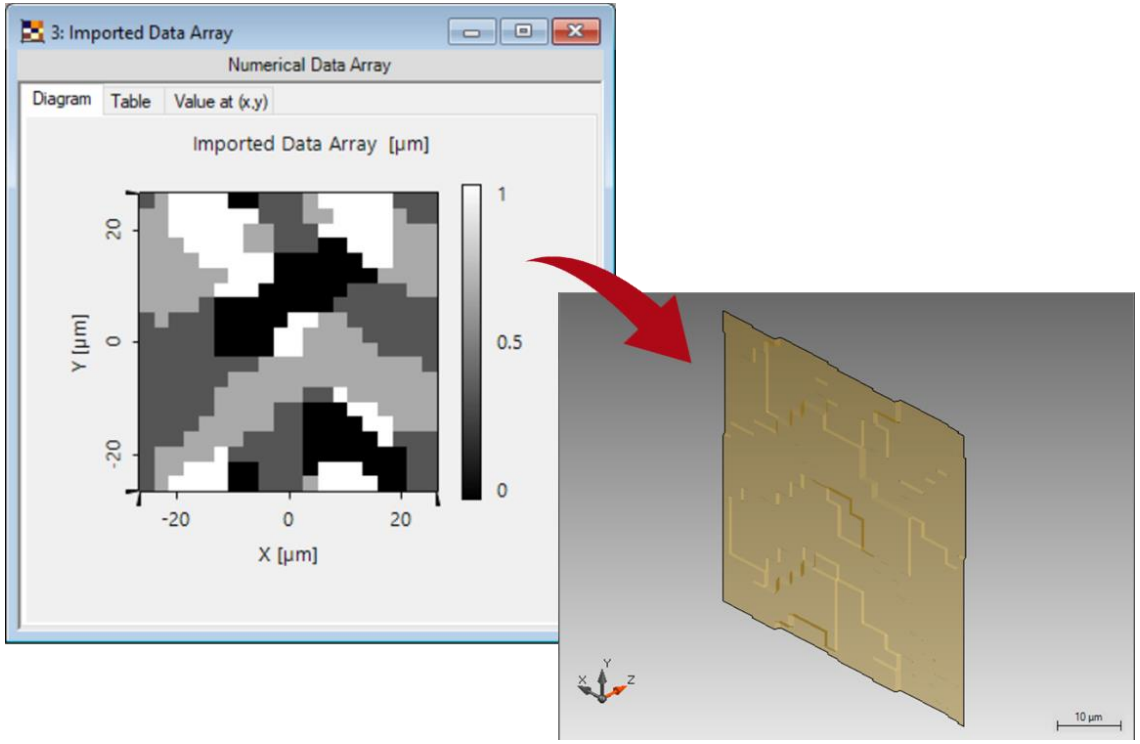
VLF Demo

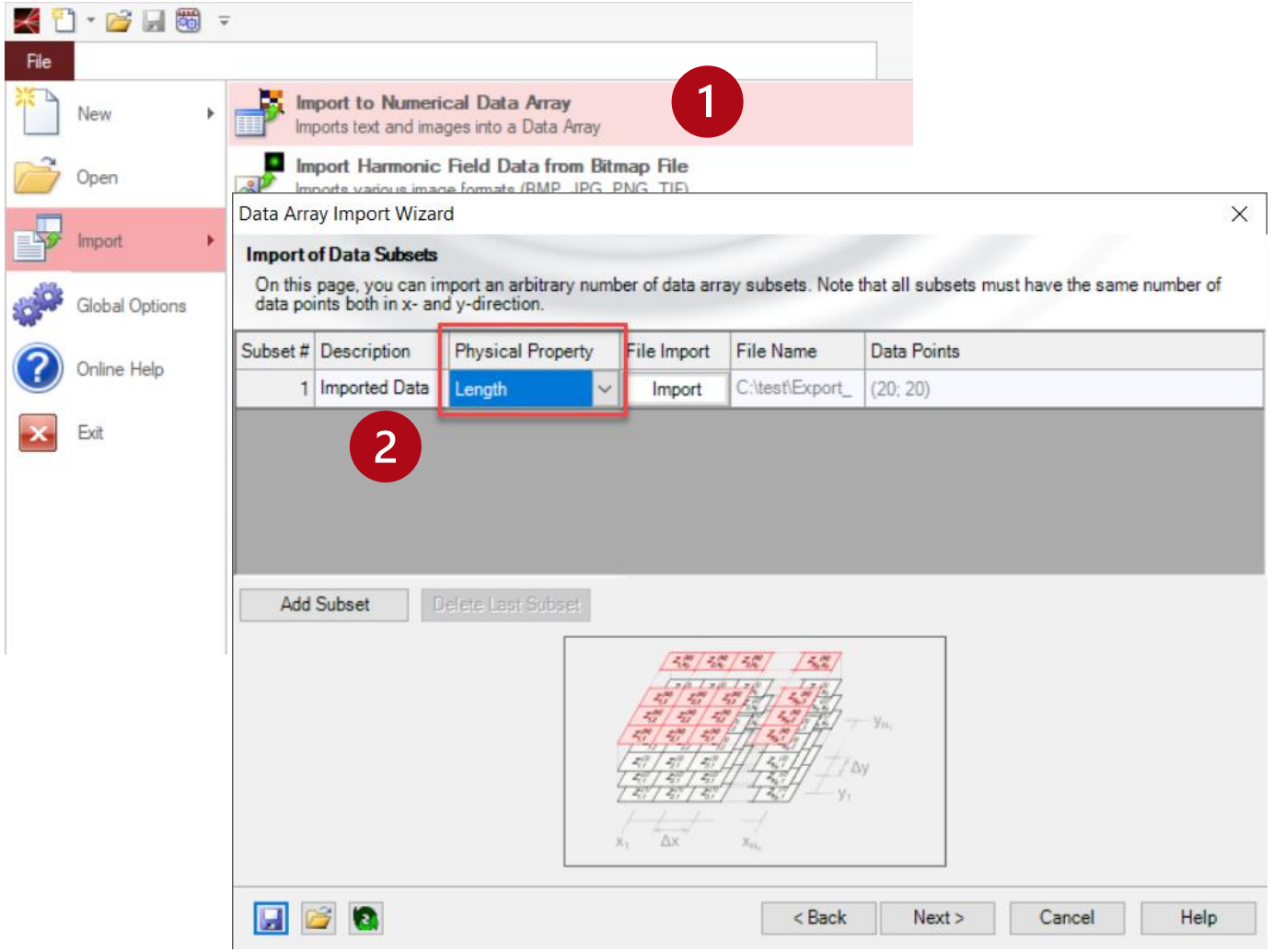
Import of Bitmap file containing Microstructure Data into VirtualLab Fusion

Abstract



In this demo, we illustrate the workflow of how to import data of a microstructure given in bitmap format into VirtualLab Fusion.

Instructions



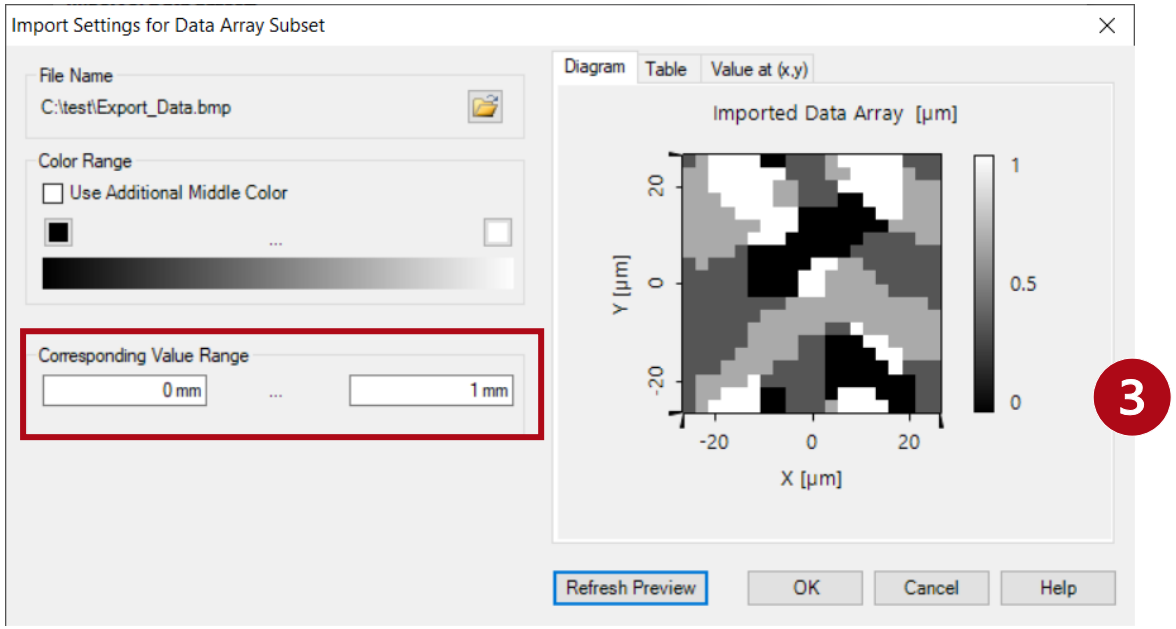
Step 1

- Use the import function to import the bitmap file as numerical data array.

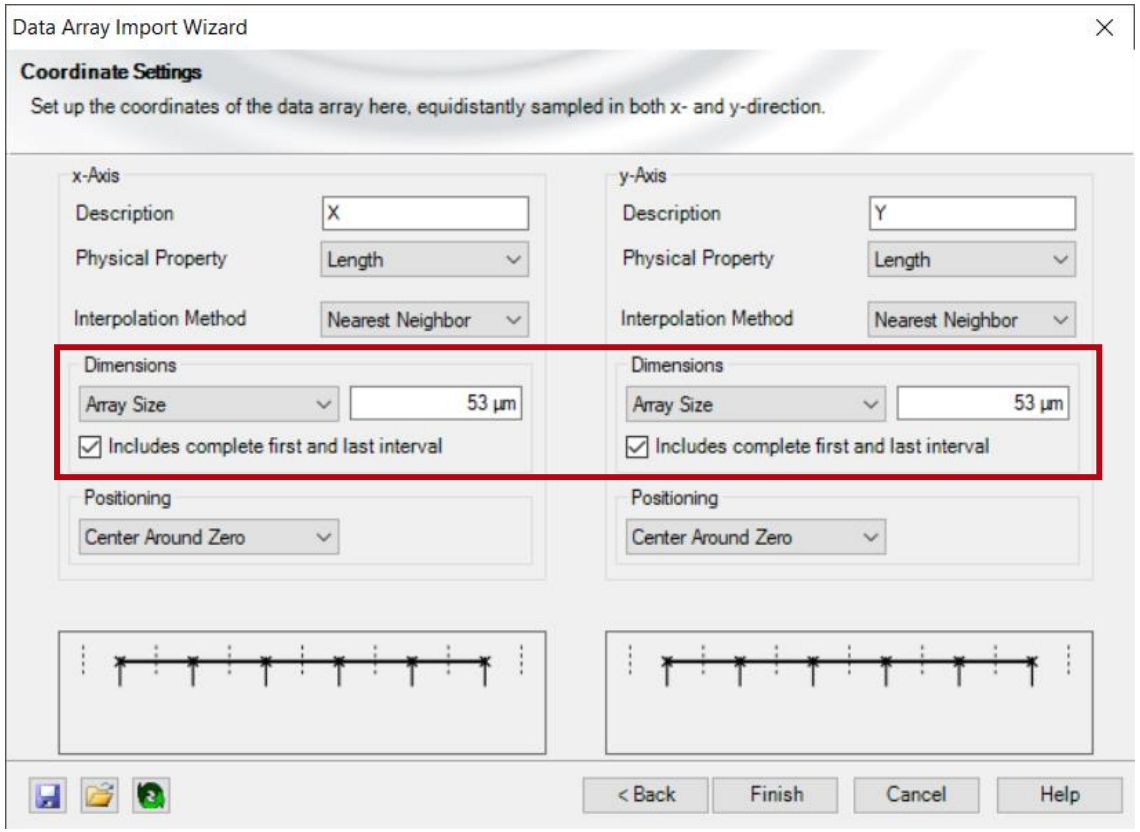
Step 2

- Set the physical property of the data array

Instructions



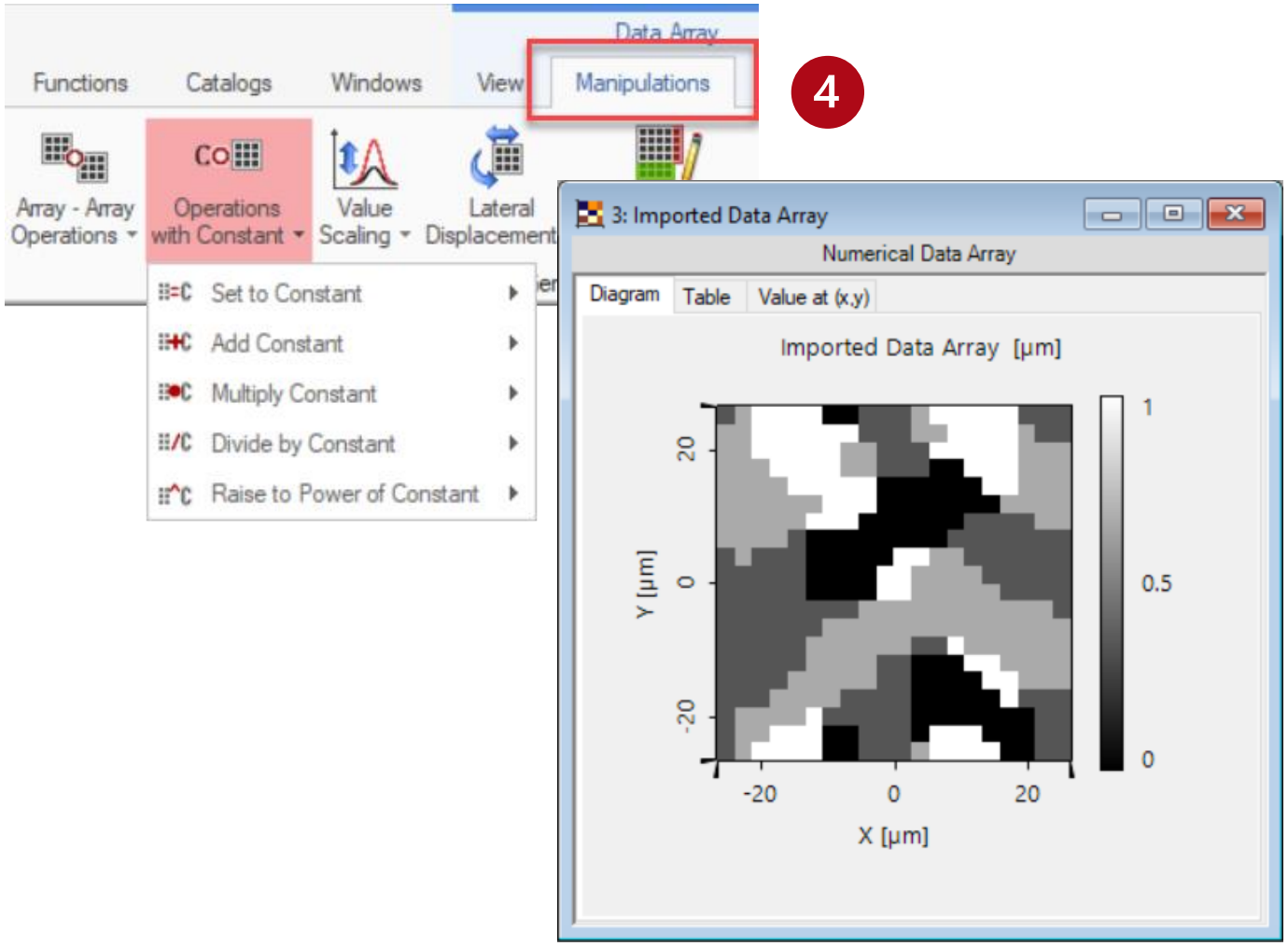
3



Step 3

- Set proper import value for grey value and dimensions during import

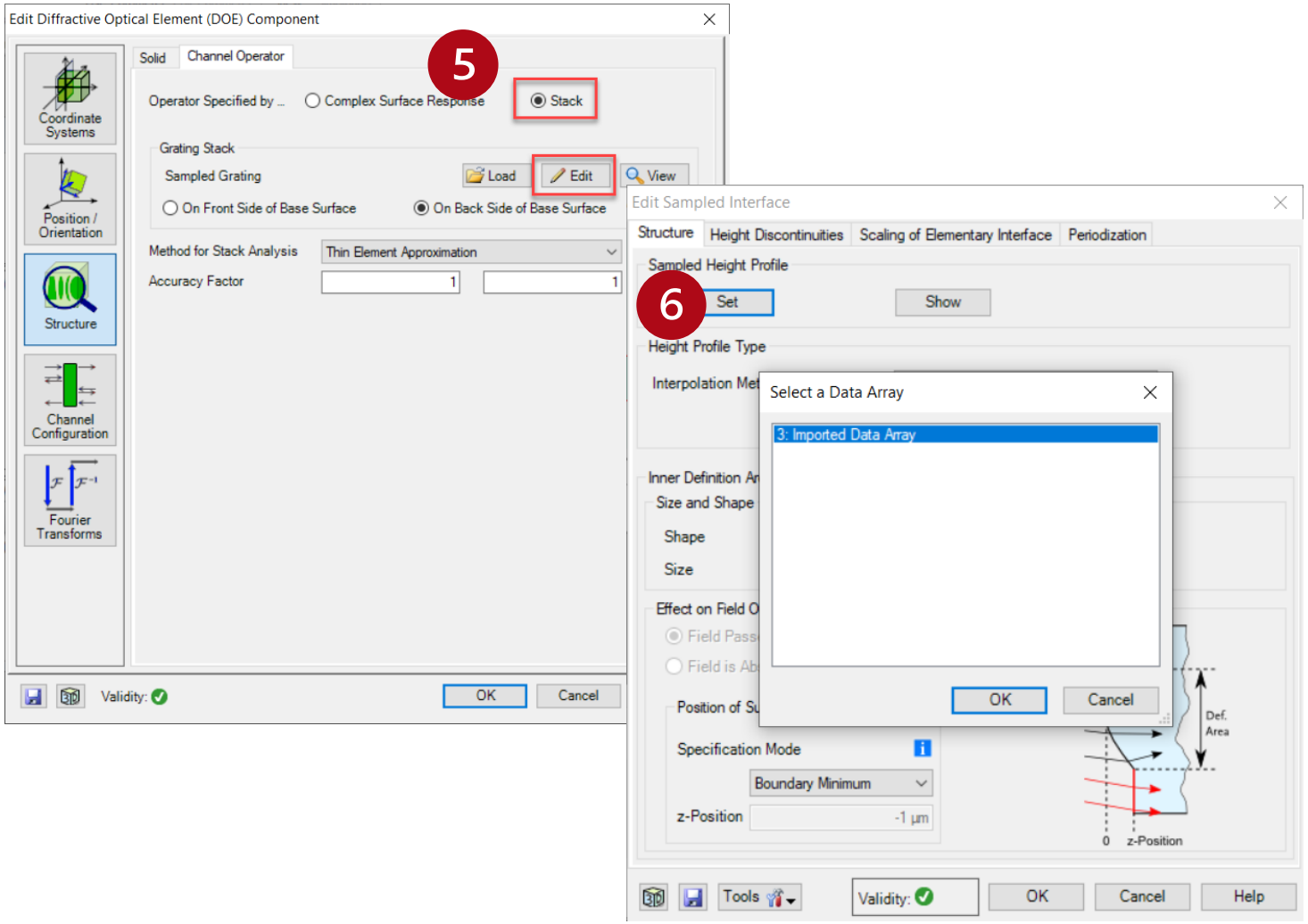
Instructions



Step 4

- Check the height value of the imported data array and adapt it via Manipulation menu. (e.g. multiplication with constant).

Instructions



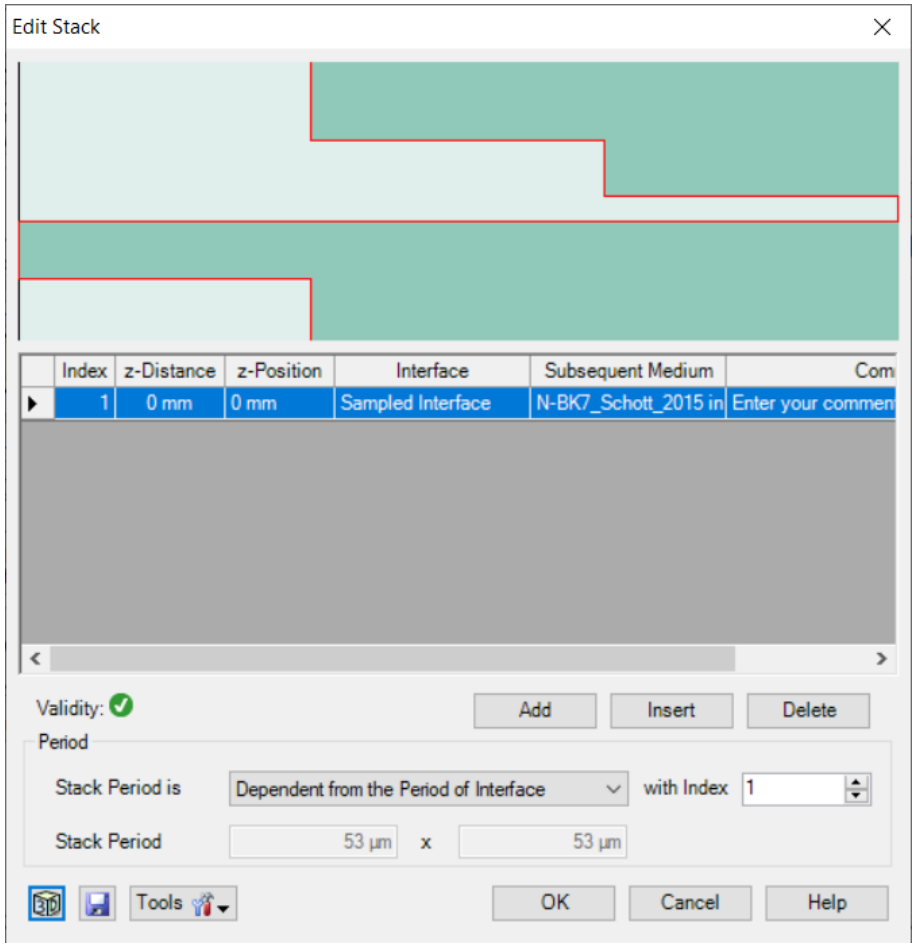
Step 5

- Use Microstructure or DOE component -> Channel Operator -> Stack

Step 6

- Load the imported data array to the sampled interface

Instructions

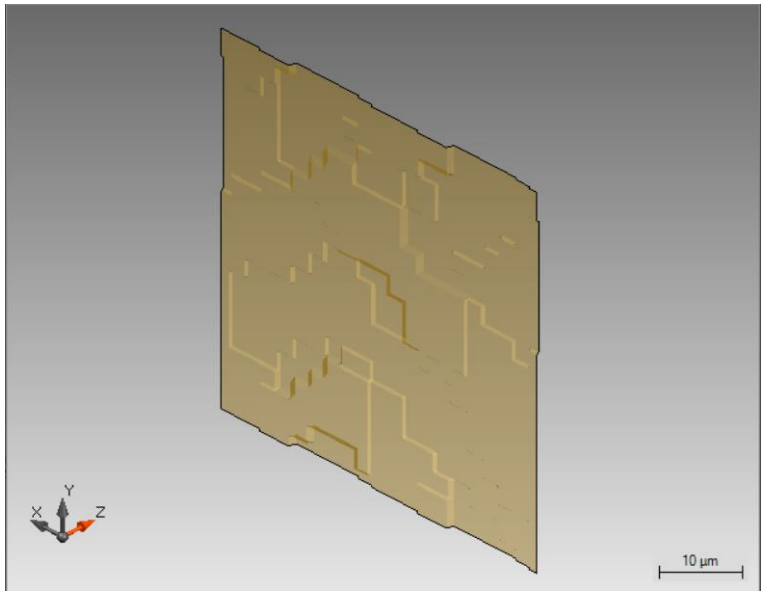


Step 7

- Set extension of the stack to size of the DOE

Step 8

- Increase the sampling factor for the TEA algorithm if needed



3D view of the imported DOE

Document Information

title	Import of Bitmap file containing Microstructure Data into VirtualLab Fusion
document code	Demo.0037
version	1.0
VL version used for simulations	VirtualLab Fusion Spring Release 2020 (Build 3.4)
category	Demo
further reading	