

Tutorial 144.01 Structure Design and Fabrication Export

This tutorial explains the usage of the structure design in VirtualLab™. Also the handling for import and export of fabrication data is shown.

Keywords: Diffractive Optics Toolbox, structure design, import, export, fabrication data

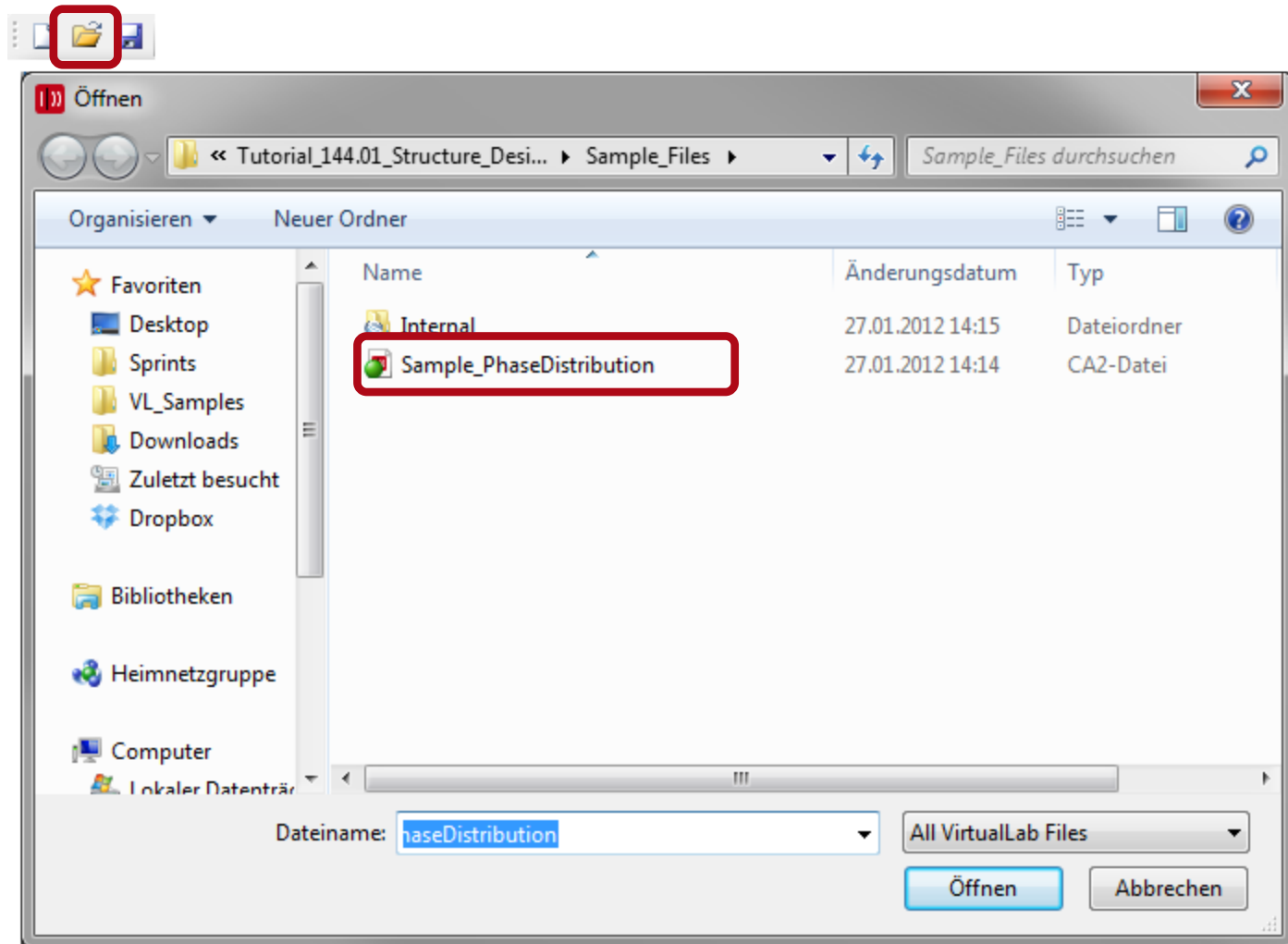
Required Toolboxes: Starter Toolbox, Diffractive Optics Toolbox

Remarks: The tutorial can not be processed with the trial version of LightTrans VirtualLab™.

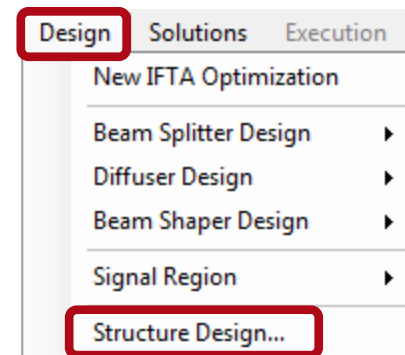
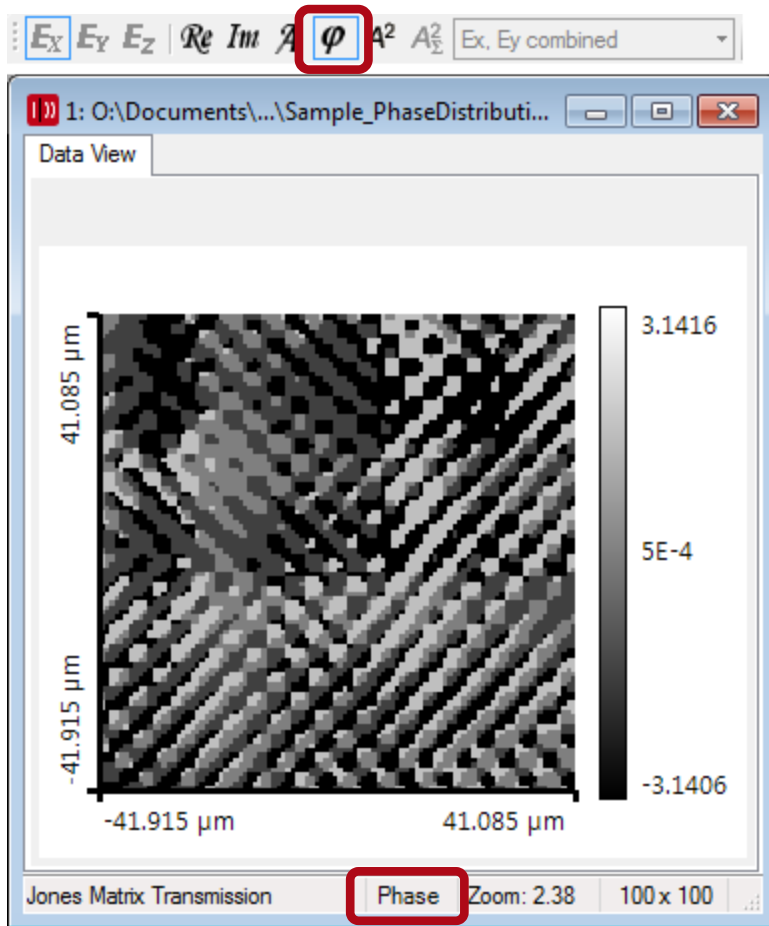


Structure Design

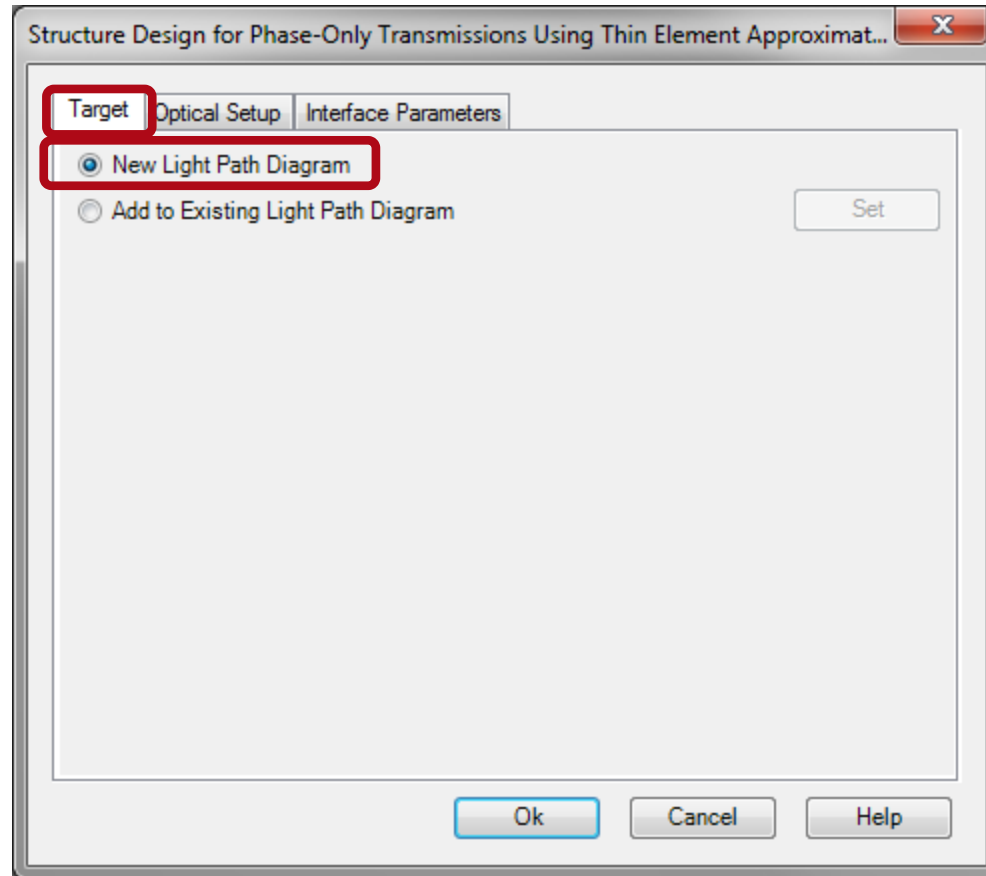
Load Transmission (Phase Distribution)



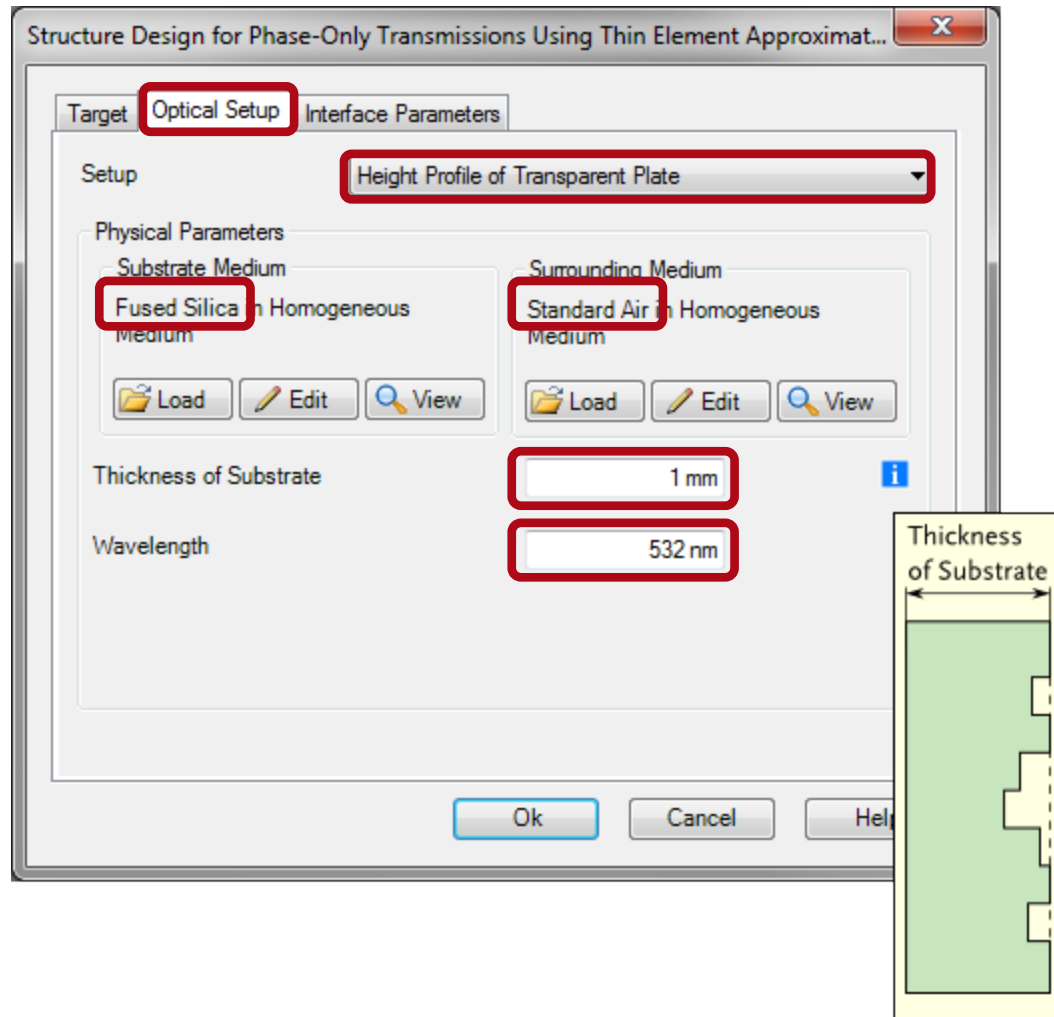
Start Structure Design for Transmission



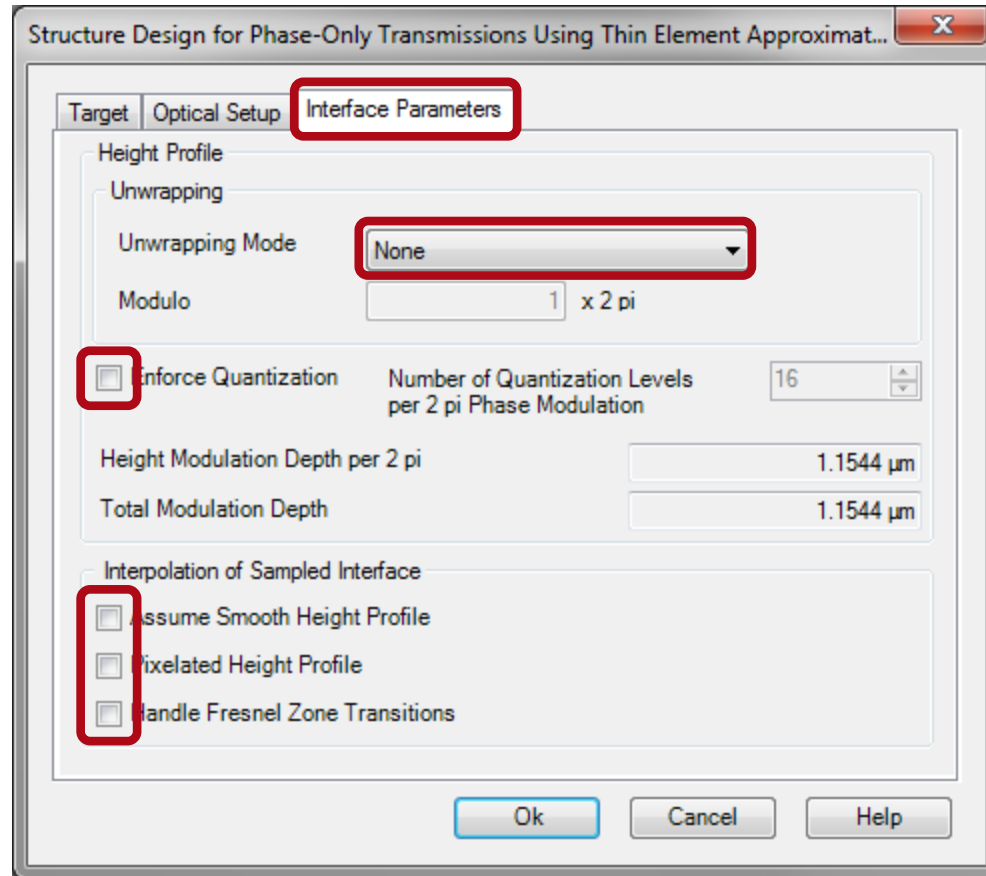
Structure Design I : Target



Structure Design II: Optical Setup



Structure Design III: Interface Parameters



Press OK



Light Path Diagram with DIC

The image shows two windows from a software application. The top window, titled "3: Light Path View (Light Path Diagram #2)", displays a diagram on a grid. A blue square component is labeled "Generated Structure Design Component" and "1". A red square highlights this component, and the text "Double Click" is written next to it. A yellow label "0 m Absolute" is also visible. The left sidebar lists categories: Light Sources, Components, Ideal Components, Virtual Screen, Detectors, and Analyzers. The bottom window, titled "2: Light Path Editor (Light Path Diagram #2)", has tabs for "Path", "Detectors", and "Analyzers". The "Path" tab is active, showing a table with columns for "Start Element" and "Target Element".

3: Light Path View (Light Path Diagram #2)

Generated Structure Design Component

Double Click

0 m Absolute

2: Light Path Editor (Light Path Diagram #2)

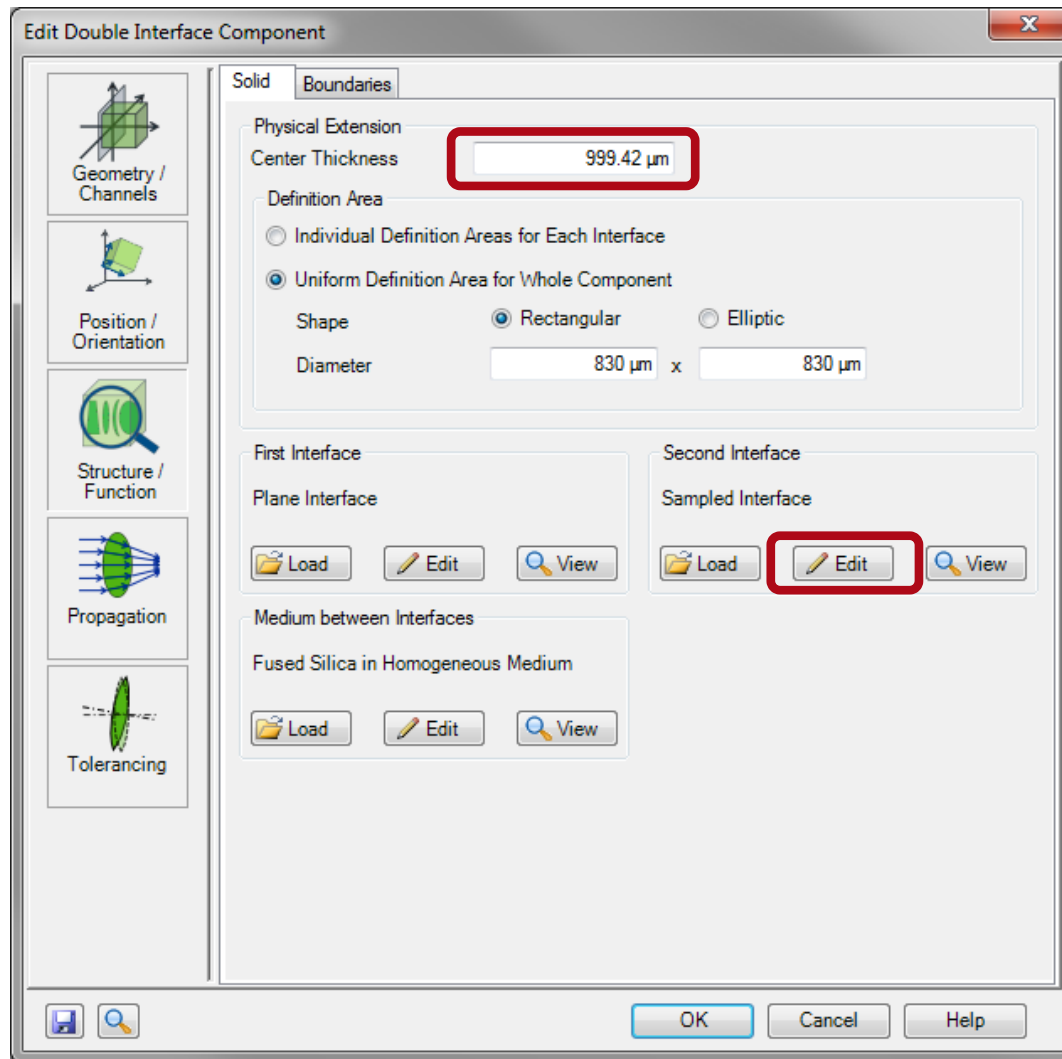
Path Detectors Analyzers

Start Element				Target Element		Linkage	
Index	Type	Channel	Medium	Index	Type	Propagation Method	On/Off

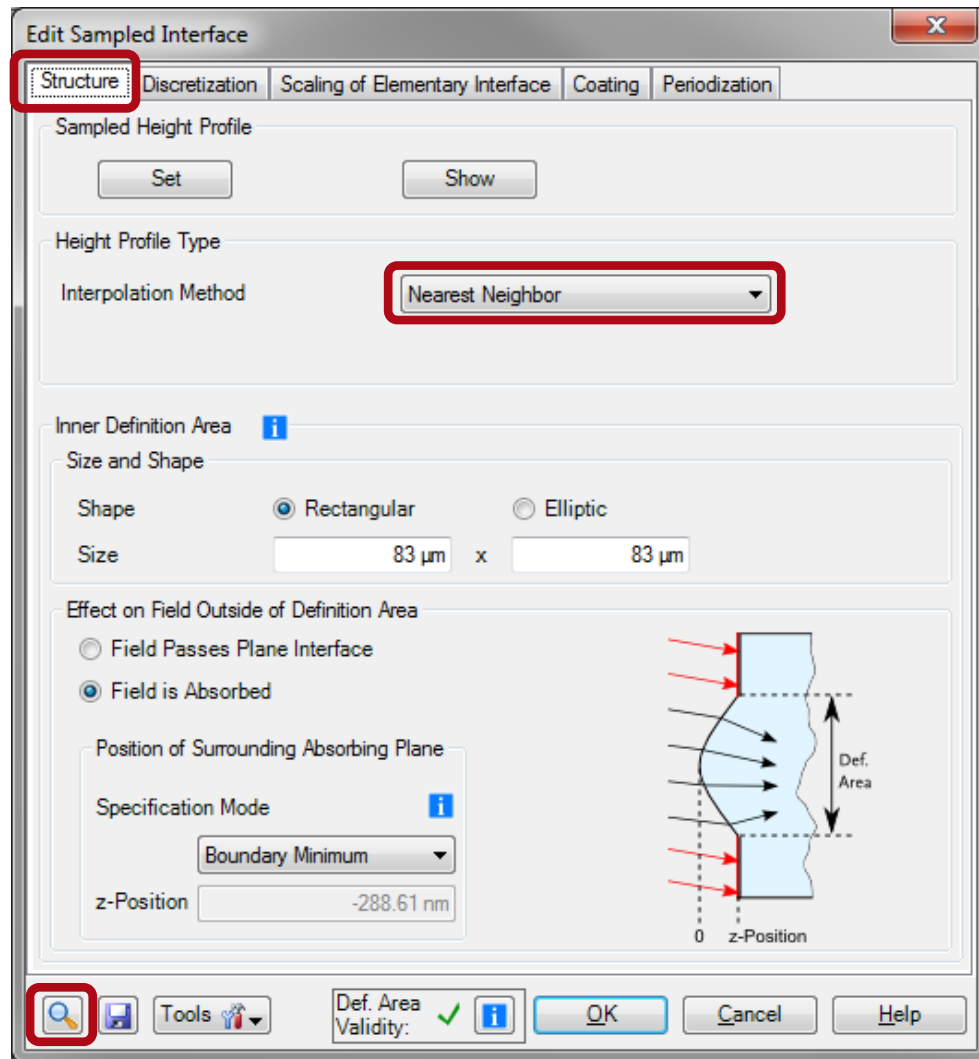
Tools Re-Use Automatic Settings Simulation Type: Field Tracing Go!

Export of Fabrication Data

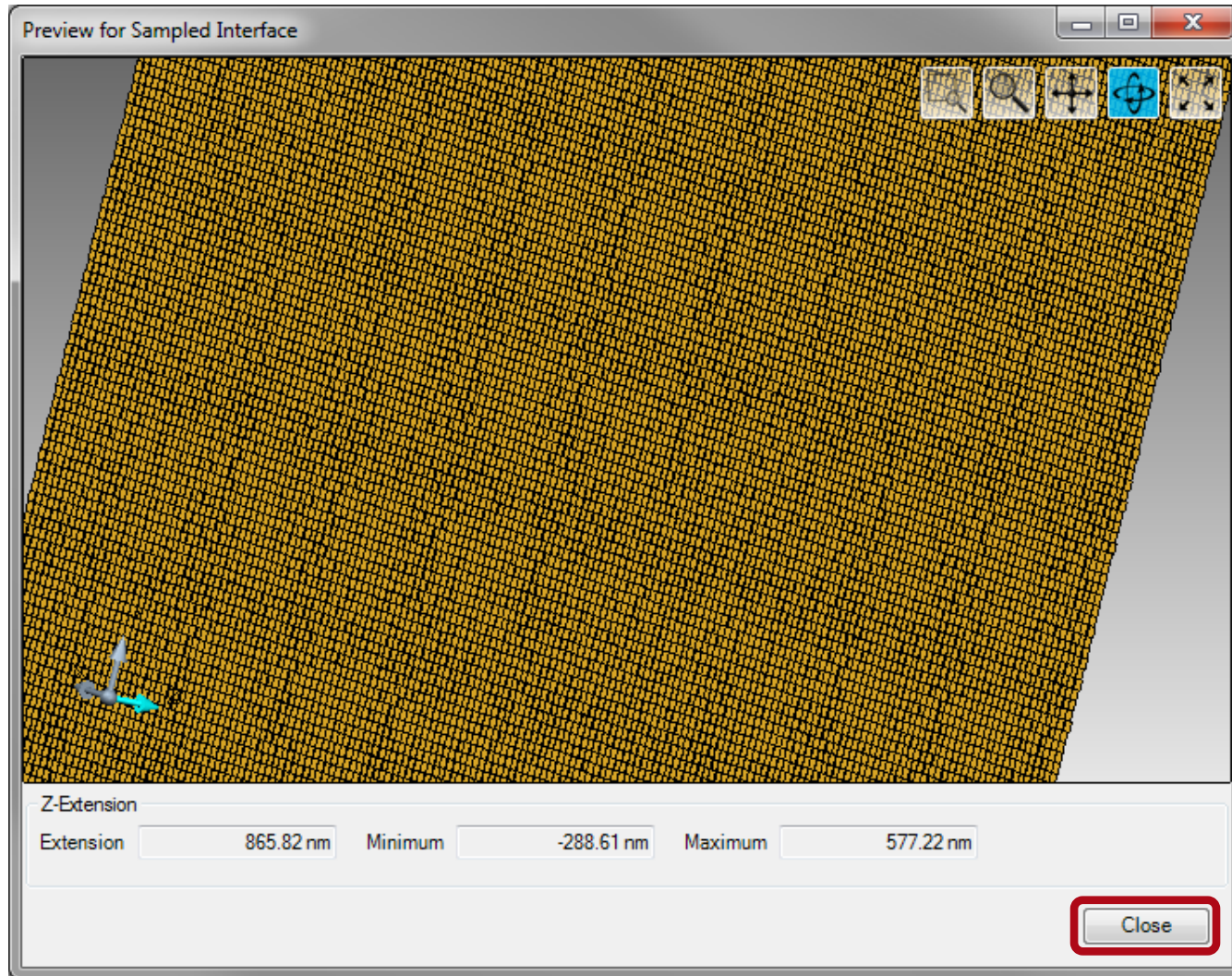
Edit Dialog of Double Interface Component



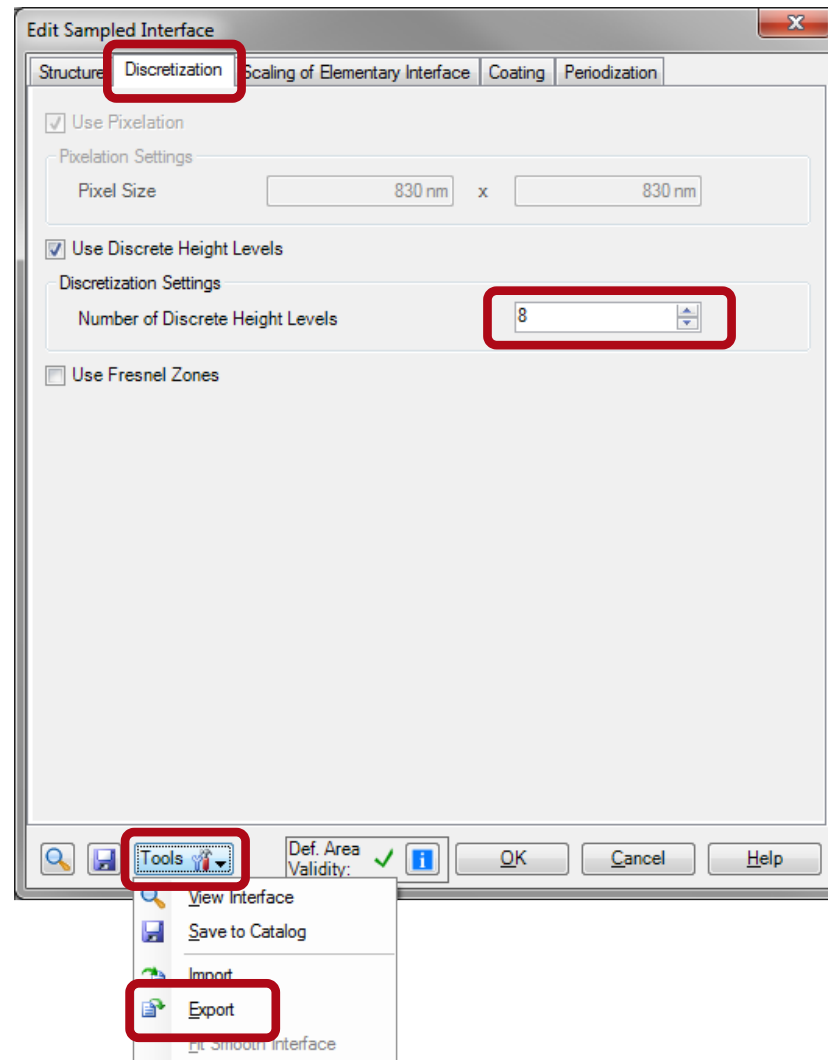
Edit Dialog of Sampled Interface I



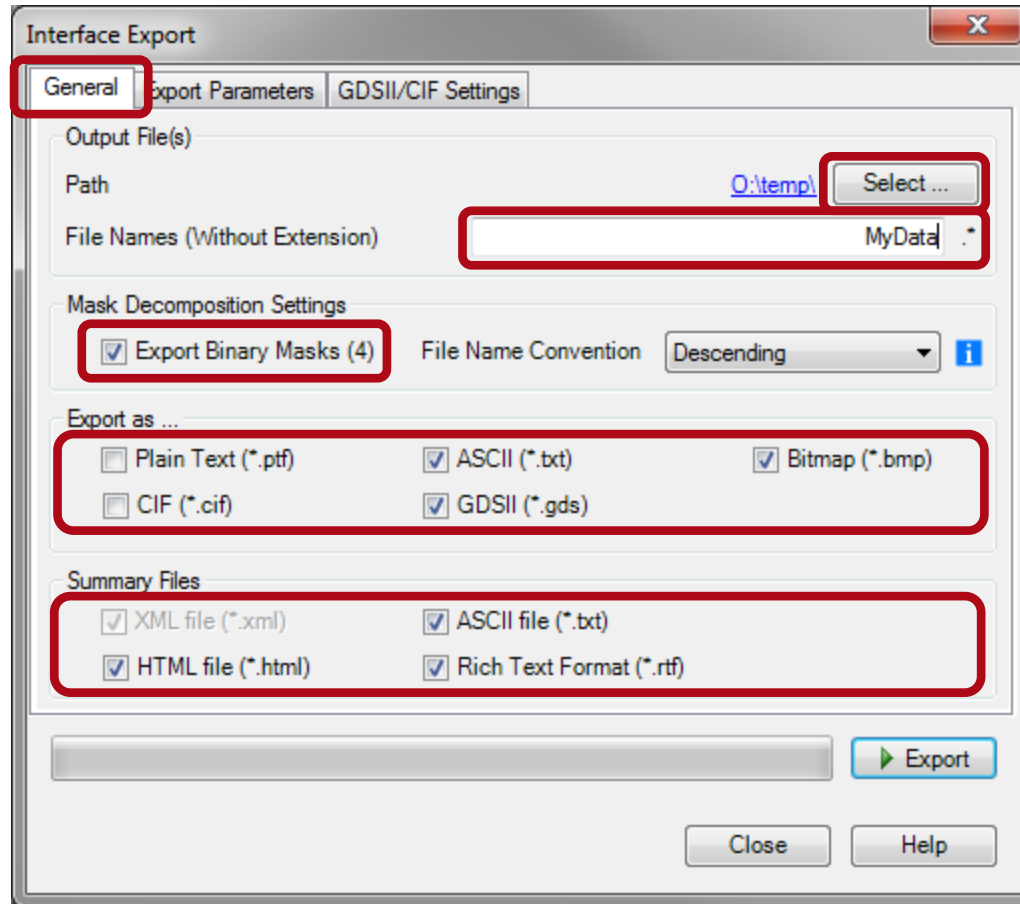
3D View of Diffractive Optical Element



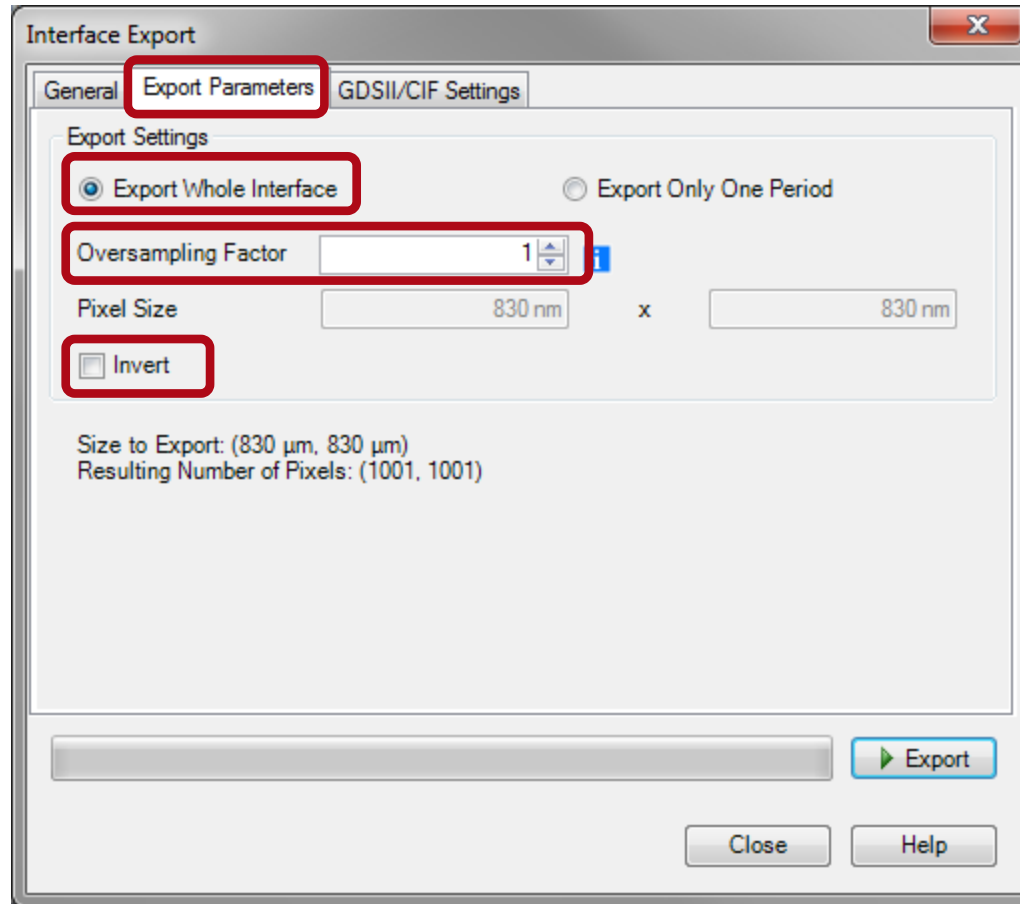
Edit Dialog of Sampled Interface II



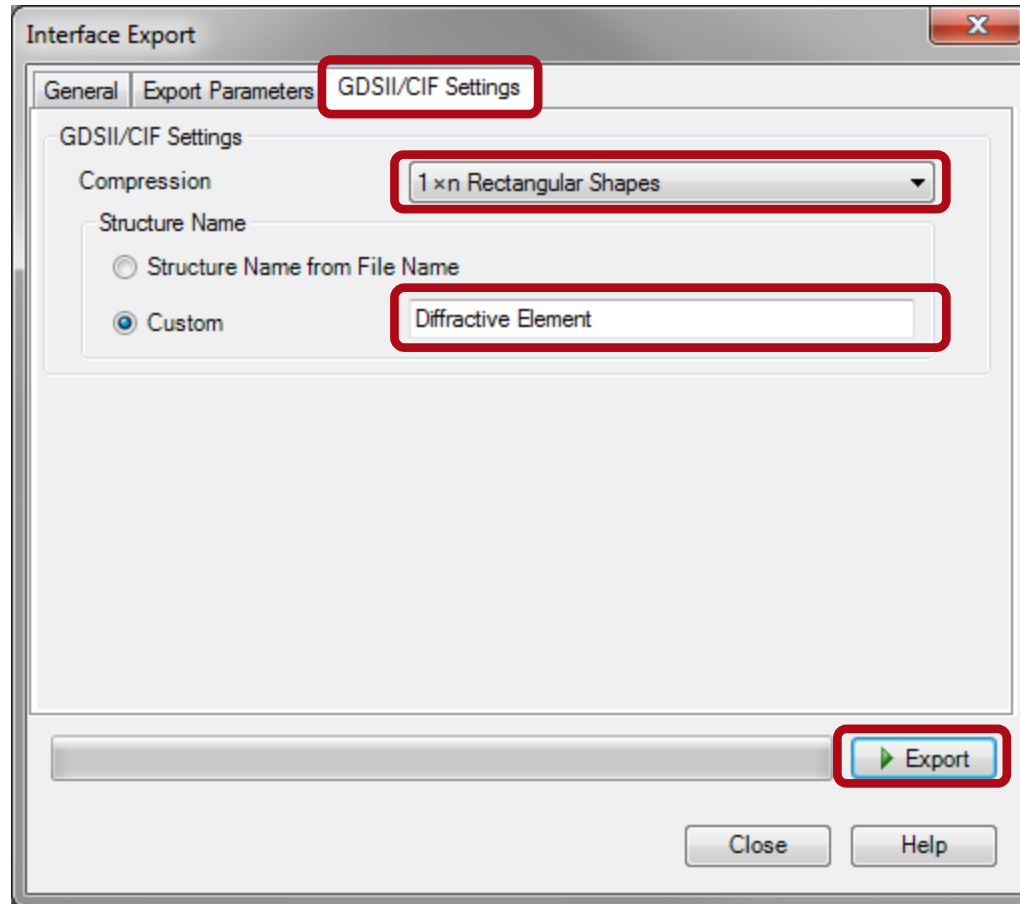
Export of Fabrication Data I



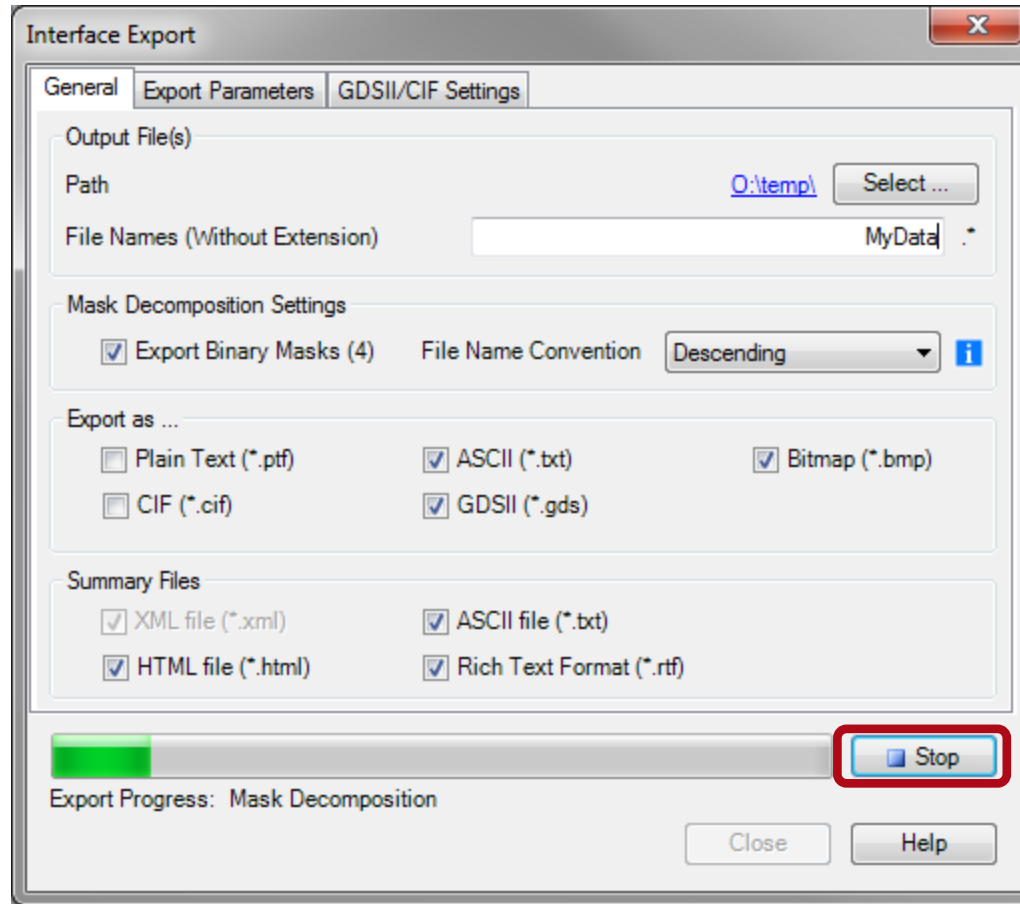
Export of Fabrication Data II



Export of Fabrication Data III

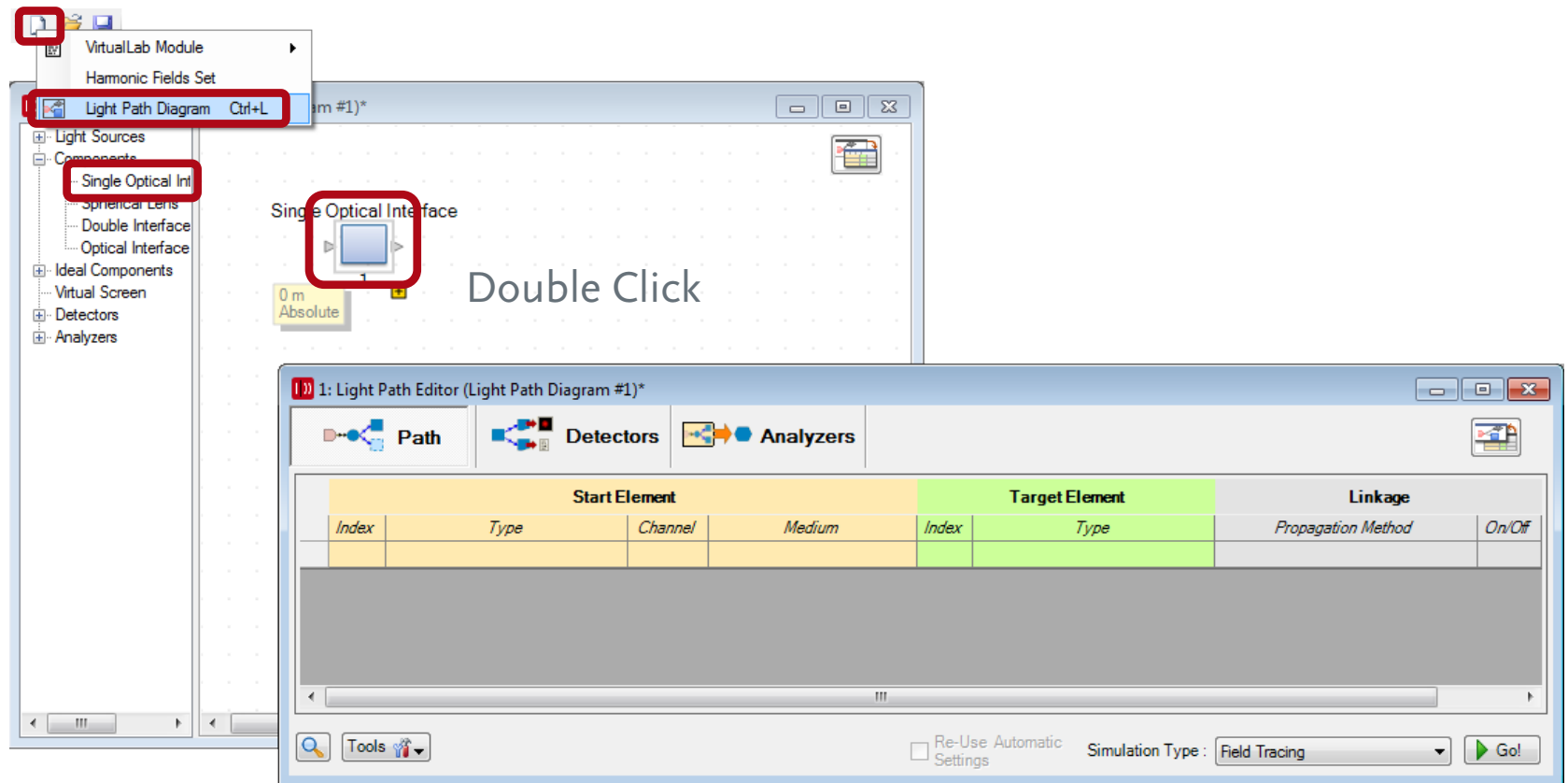


Export of Fabrication Data IV

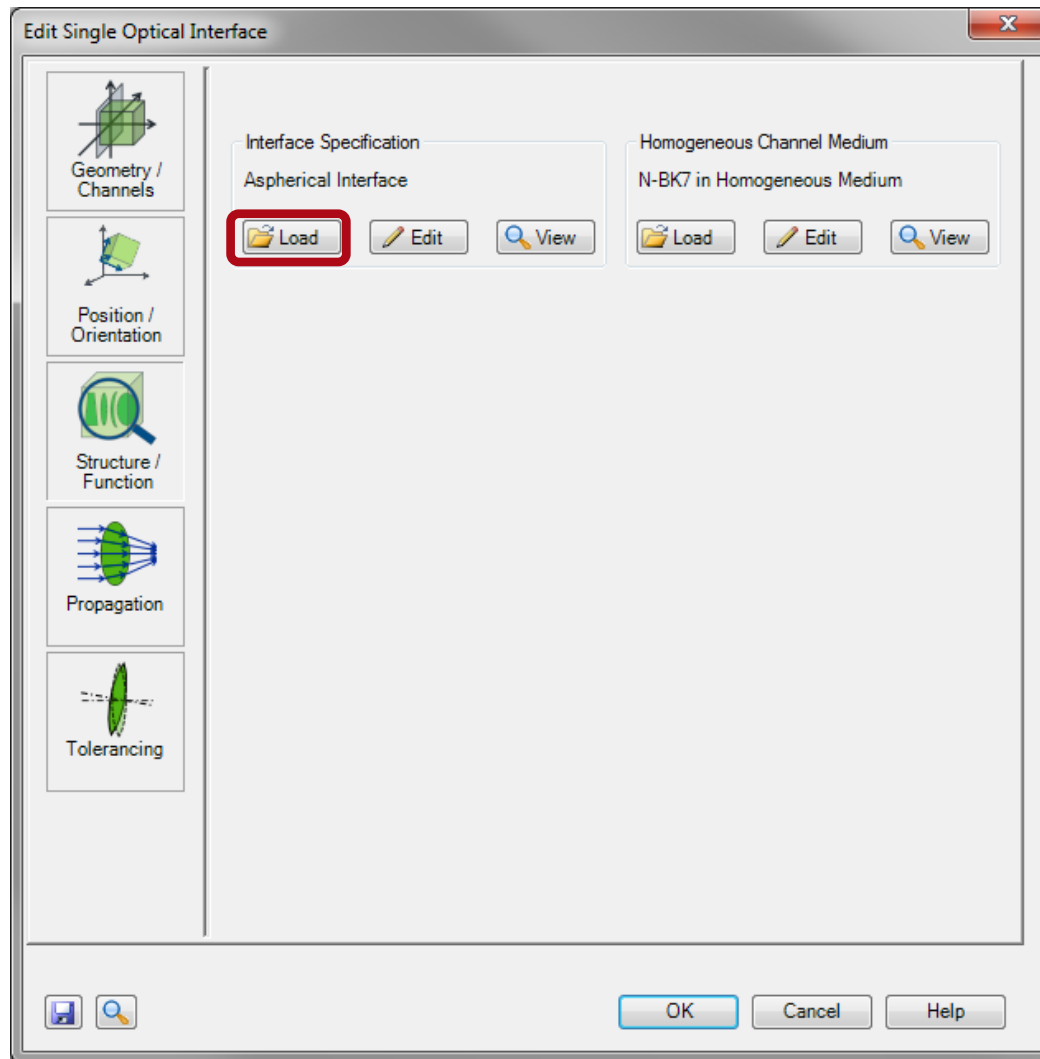


Import of Fabrication Data

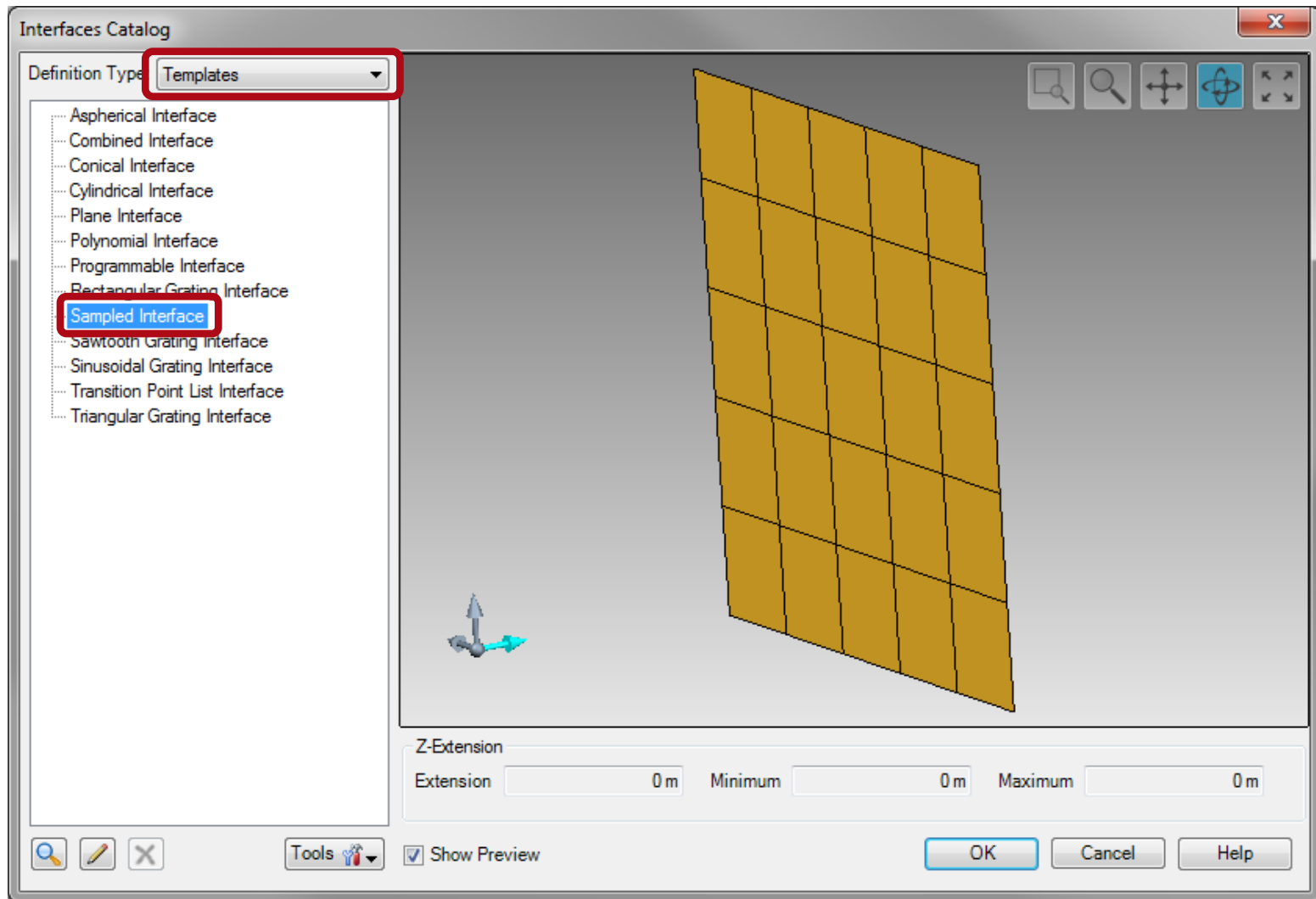
Generate new LPD with Single Interface



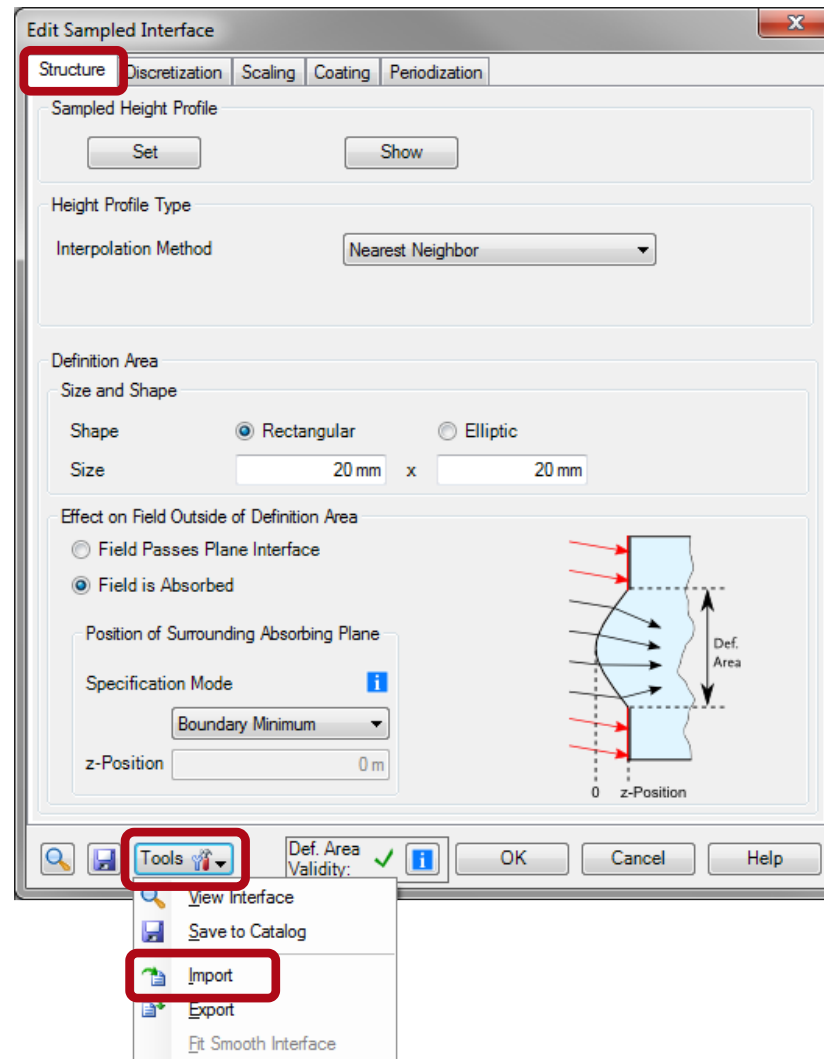
Edit Dialog of Single Interface



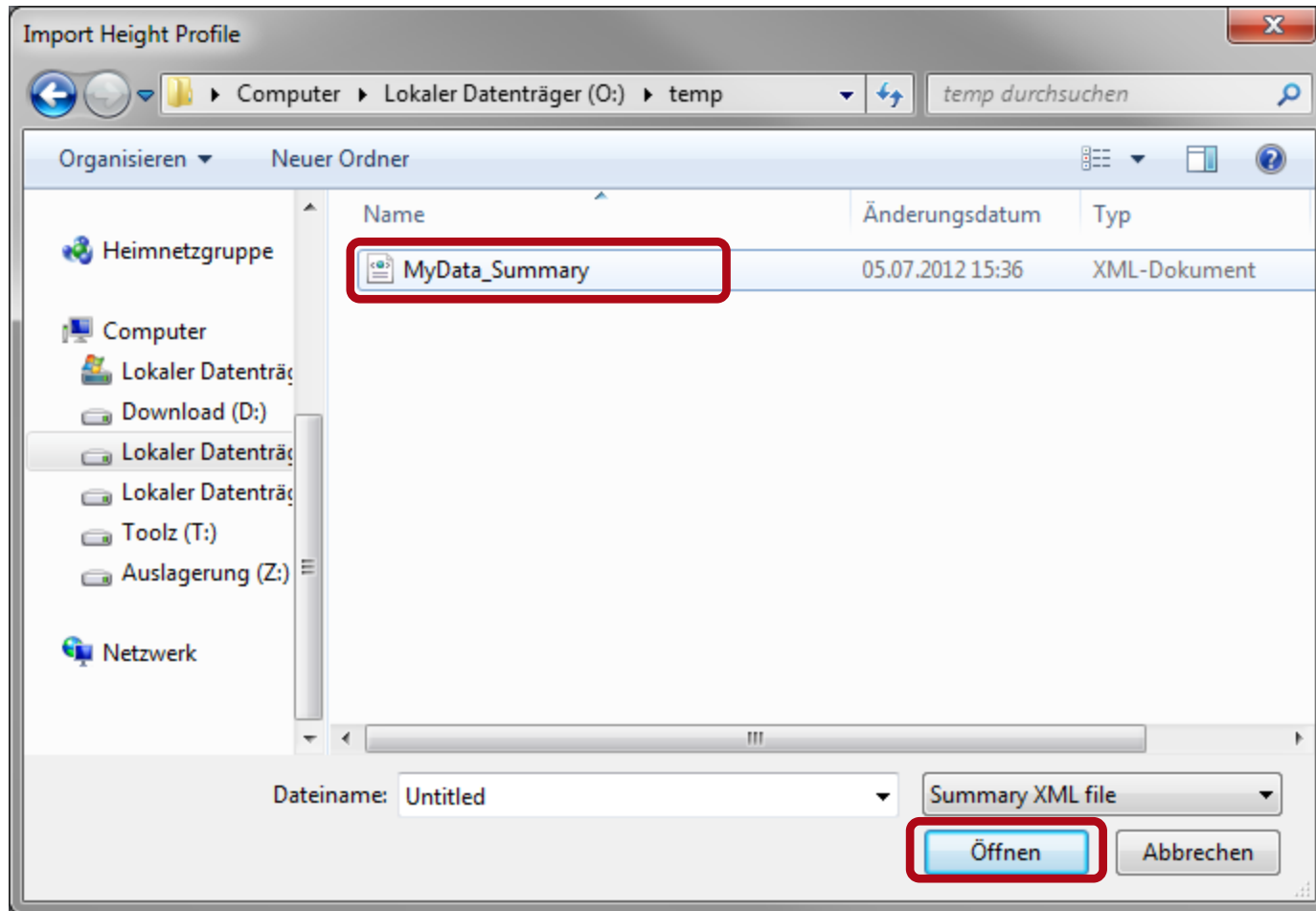
Load Template Sampled Interface



Edit Dialog of Sampled Interface



Import of Fabrication Data



3D View of Imported Sampled Interface

