

UseCase.0010 (1.0)

Introduction to Light Path Diagram of VirtualLab

Keywords: LPD, light path view, light path editor, optical setup, system

Description

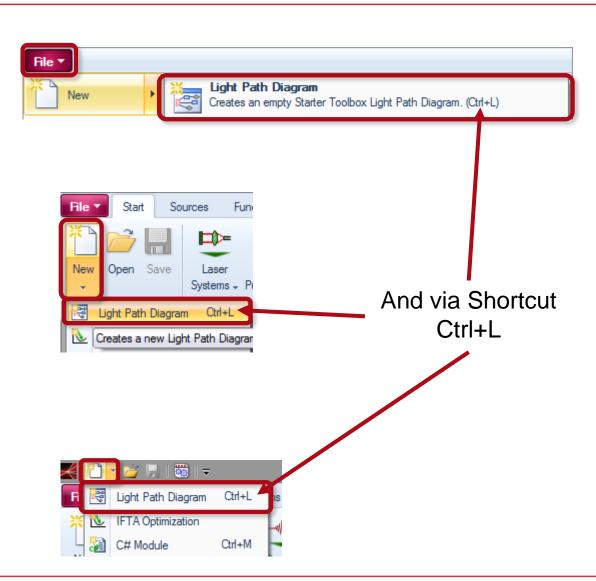
- This use case explains the basic concept of the light path diagram (LPD) in VirtualLab consisting of two separate windows for the setup of optical systems.
- The light path diagram is the tool of VirtualLab to configure optical setups including sources, components and detectors.
- The light path diagram document is separated in two windows:
 - Light path view (add light path elements, access to edit dialogs and to positioning dialogs)
 - Light path editor (specify connections between light path elements and detectors)

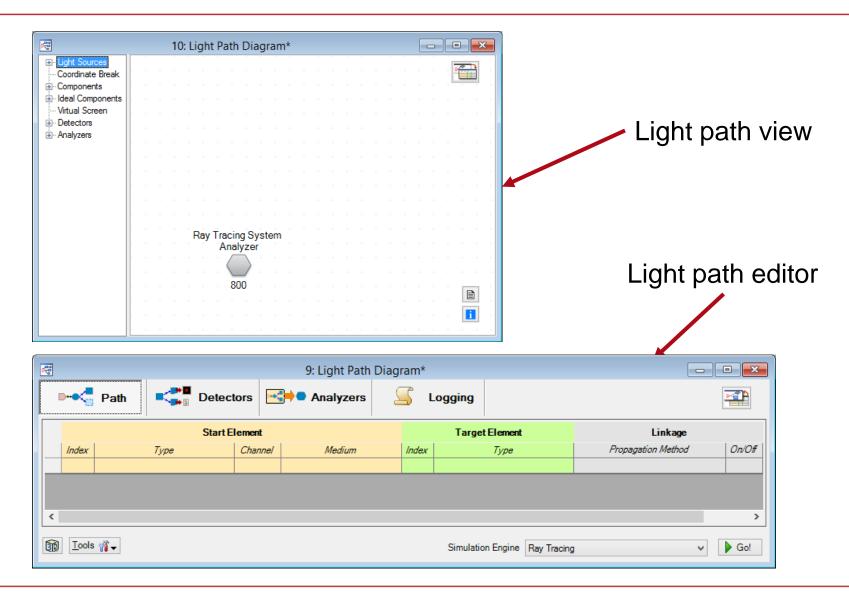
Generate new Light Path Diagram

Via File → New menu

Via Start Ribbon menu

Via Quick Access Toolbar





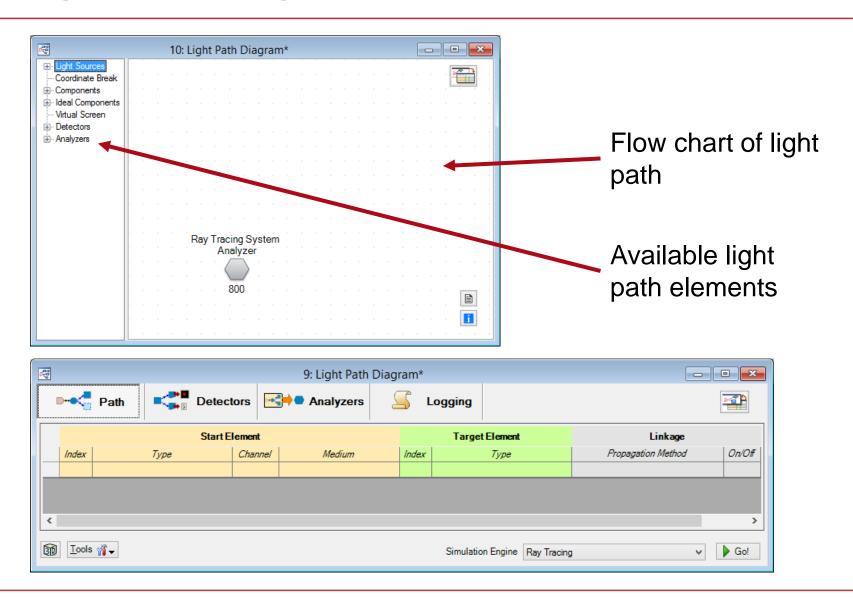
Light Path View:

- Allows Selection of Light Sources, Components, Detectors and Analyzers
- Parameters of Components, Detectors and Analyzers can be modified

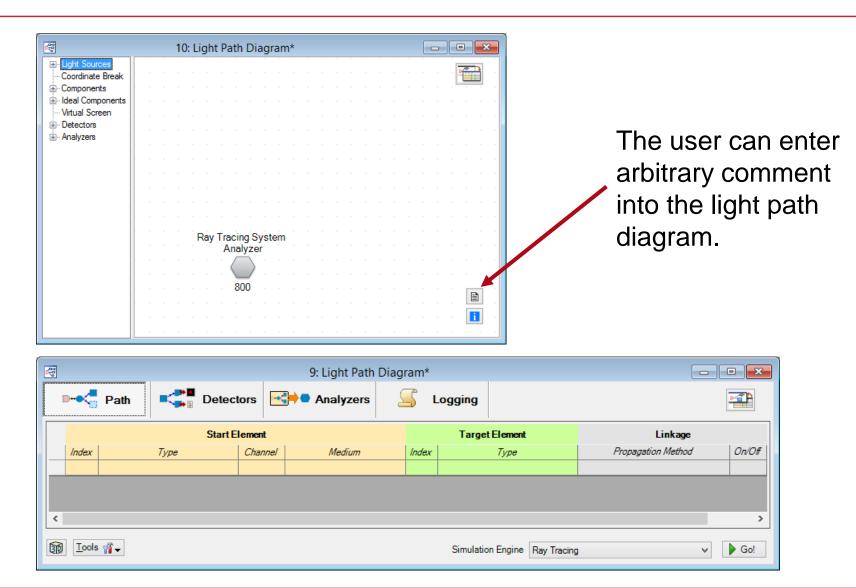
Light Path Editor:

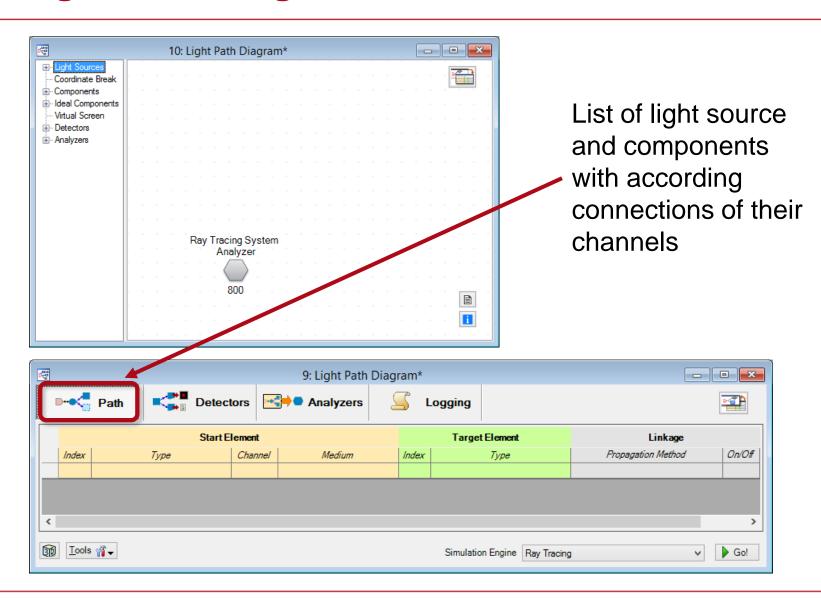
- Connection of components
- Connection detectors with different components
- Allows to run analyzers
- Modification of Parameters of Light Sources, Components, Detectors and Analyzers
- Selection and configuration of free space propagation techniques
- Start/Stop of simulation engines
- Access to further LPD tools

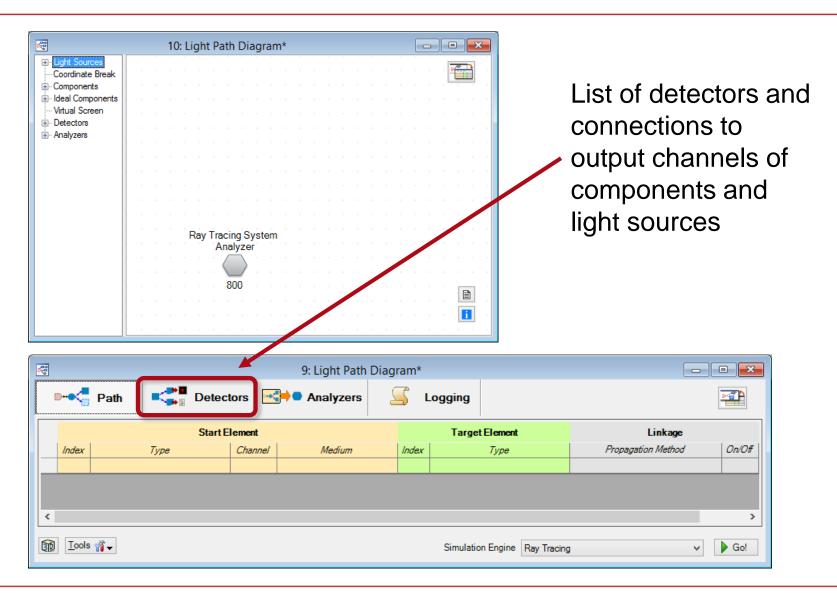
Light Path Diagram – View

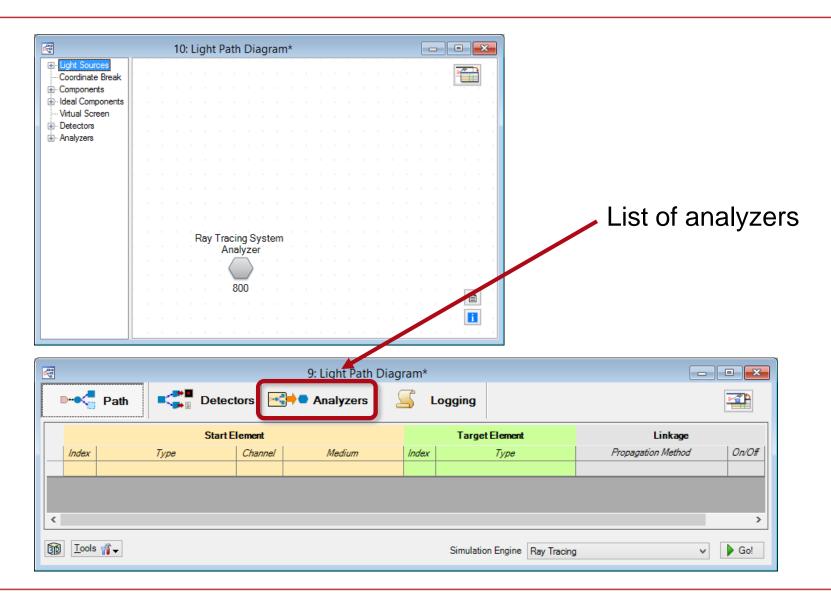


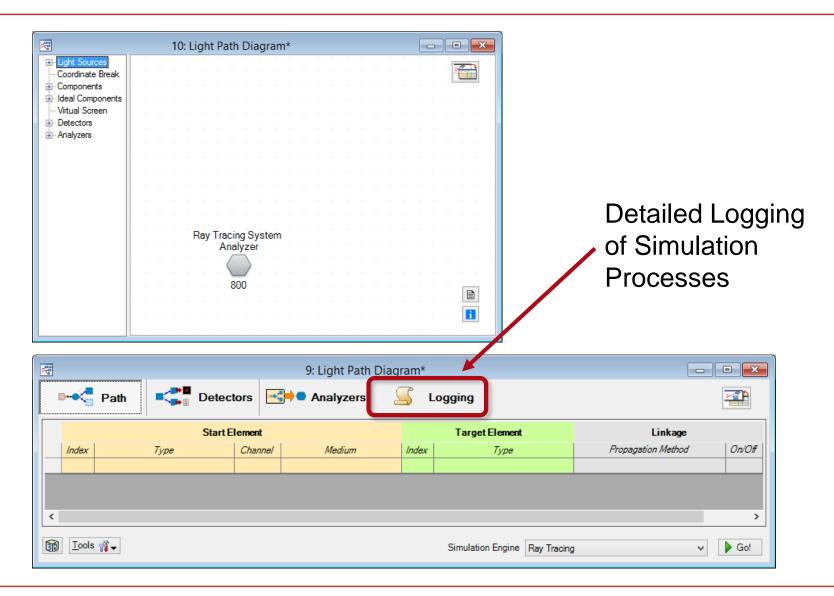
Light Path Diagram – View

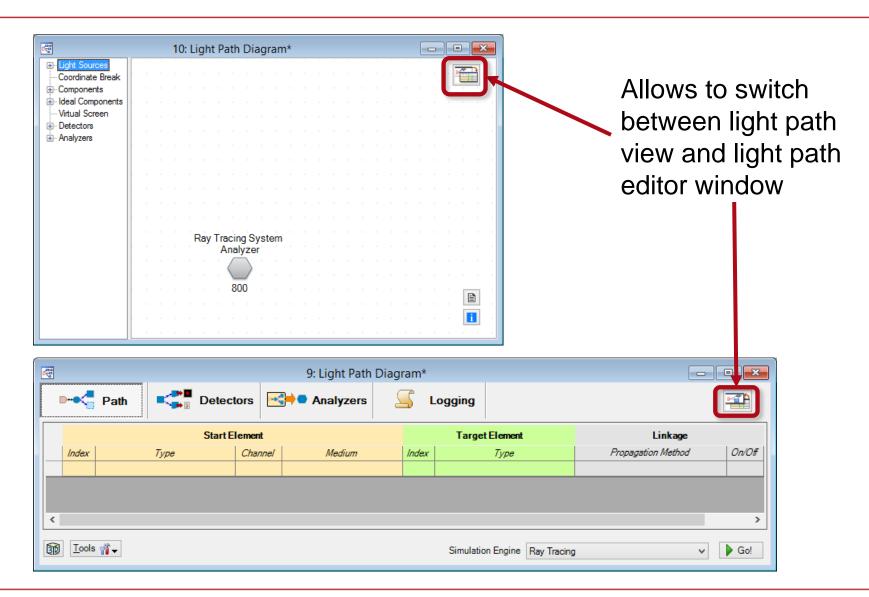


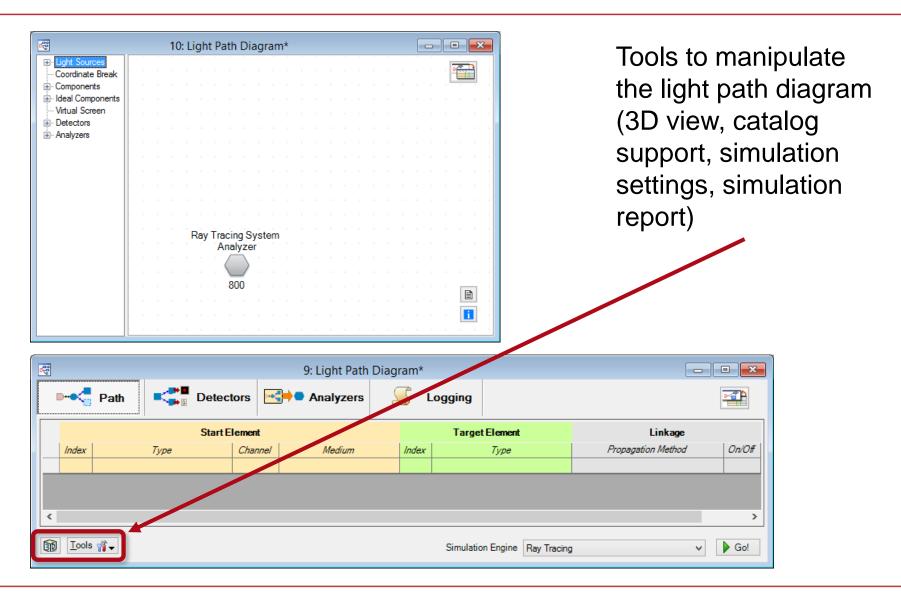


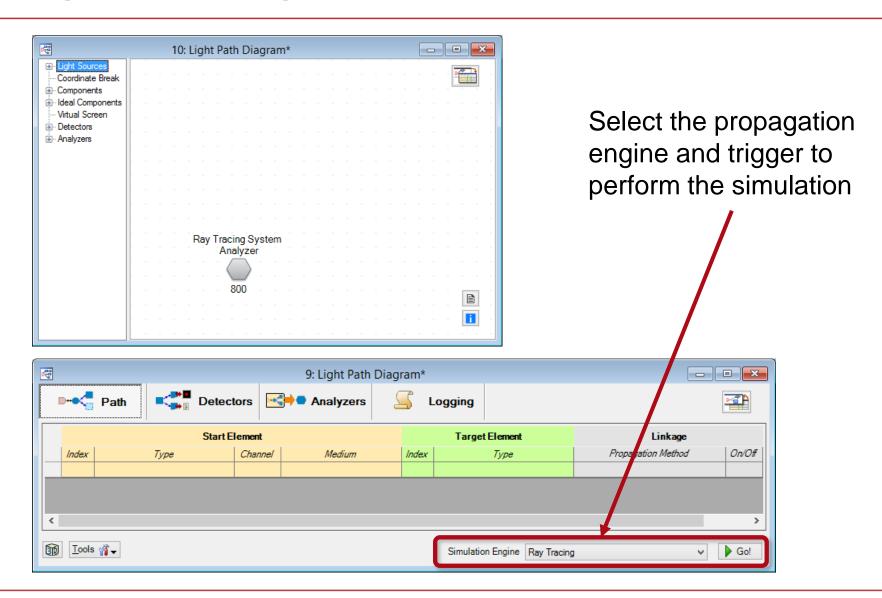












Summary

- The light path diagram (LPD) document is used for the specification of the optical system within VirtualLab.
- It is a user-friendly interface for the setup of light sources, components and detectors and analyzers and for the configuration of the desired simulation.
- Several tools for modification of the light path diagram can be accessed via the ribbon or the tools button on the bottom of the light path editor.