



Update Guide Release 2019.4

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INTRODUCTION

This document serves as a guide for the new features and changes in TracePro 2019.4. This release has enhancements in the Texture Optimizer II, Interactive Optimizer, Flux Report and Toolbars. This release also fixes several problems reported by TracePro users. See the [TracePro Revision History](http://www.lambdare.com/TraceProRevisionHistory) at www.lambdare.com for more details on problem resolutions.

WHAT'S NEW IN TRACEPRO 2019.4?

Changes in TracePro 2019.4 are summarized as follows:

- Texture Optimizer discontinued (TracePro Expert).
- Merge DMD Generator into Texture Optimizer II
- 2D Interactive Optimizer discontinued (TracePro Standard and Expert).
- 2D Geometry Modeler discontinued (TracePro LC).
- 3D Interactive Optimizer renamed to Interactive Optimizer (TracePro Standard and Expert).
- 3D Geometry Modeler renamed to Geometry Modeler (TracePro LC)
- Toolbars
 - Help toolbar removed.
 - Monochrome toolbar option removed.
 - Toolbar icon size option added.
- Flux report new feature: only display flux for objects and surfaces with non-zero flux.
- New Scheme macro commands

TEXTURE OPTIMIZER DISCONTINUED

The Texture Optimizer has been removed from TracePro. It was formerly available in the Expert edition of TracePro. The reason for this is that Texture Optimizer II can perform all the functions of the Texture Optimizer, and can also create textures on curved surfaces.

MERGE THE DMD GENERATOR INTO TEXTURE OPTIMIZER II

The DMD Generator (formerly **Define|Generate Property Data|DMD Texture**) has been combined with the Texture Optimizer II (**Optimize|Texture II**).

2D INTERACTIVE OPTIMIZER AND 2D GEOMETRY MODELER DISCONTINUED

The 2D Interactive Optimizer has been removed from TracePro Standard and Expert, and the 2D Geometry Modeler has been removed from TracePro LC. The reason for this is that the 3D Interactive Optimizer can perform all functions of the 2D Interactive Optimizer. Likewise, the 3D Geometry Modeler can perform all the functions of the 2D Geometry Modeler.

3D INTERACTIVE OPTIMIZER AND 3D GEOMETRY MODELER RENAMED

The 3D Interactive Optimizer, formerly available in TracePro Standard and Expert, and the 3D Geometry Modeler, available in TracePro LC, have been renamed. The “3D” has been dropped from both names. Formerly, the 3D designation was needed to differentiate them from the 2D versions.

TOOLBARS

The Help toolbar was removed as its functionality was redundant and obsolete. Also, the selection of color or monochrome toolbars has been removed. A new feature has been added to specify icon size to make the toolbars easier to see with high-resolution monitors. The **View|Toolbars** dialog box has been updated with these changes, as shown in Figure 1.

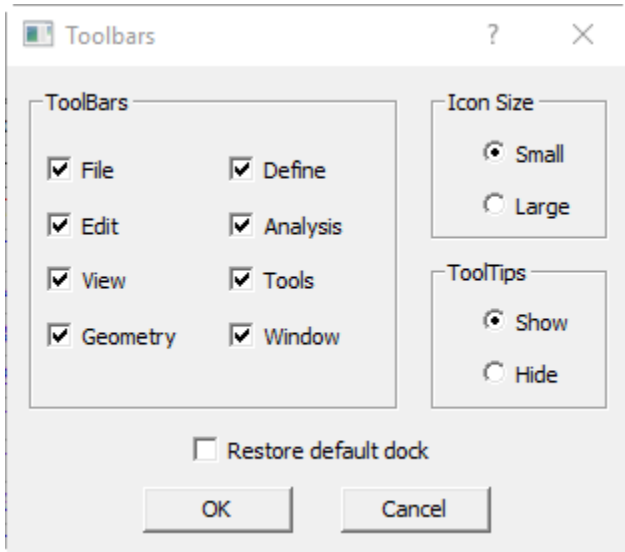


Figure 1. Updated View|Toolbars dialog box showing new option for *Icon Size*.

FLUX REPORT

The flux report has been enhanced with a new feature: you can now limit the flux report to include only those objects and surfaces with non-zero flux. You can choose whether the Incident, Absorbed, or Lost flux is non-zero. An example flux report is shown in Figure 2.

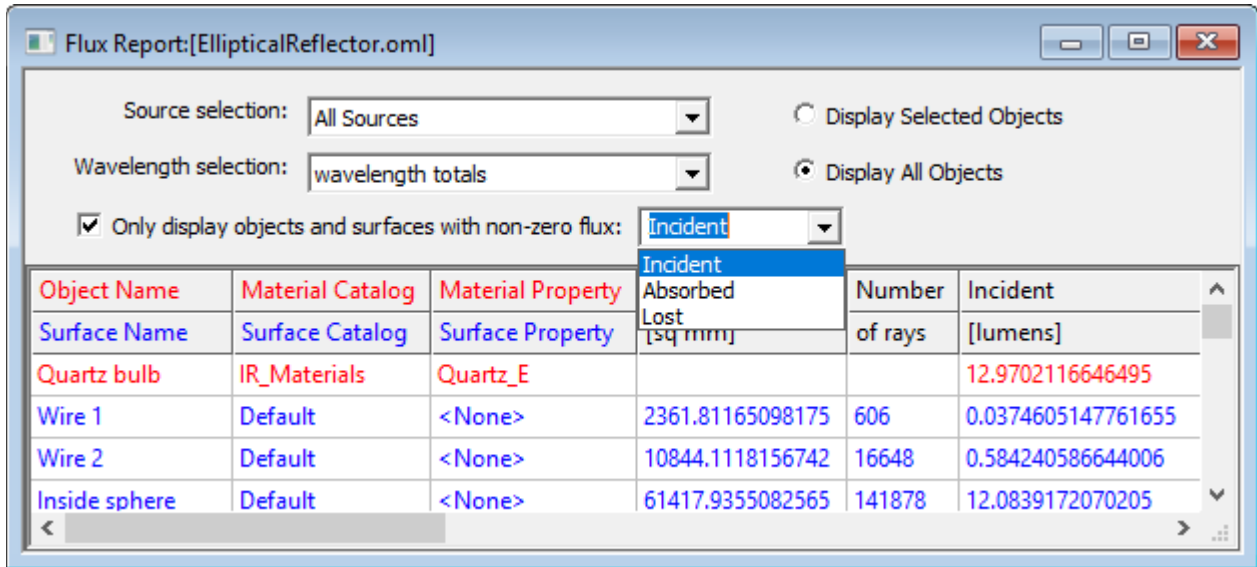


Figure 2. Flux report with new feature *Only display objects and surfaces with non-zero flux*.

NEW AND ENHANCED SCHEME COMMANDS

The following new Scheme commands have been added to TracePro:

```
(geometry:baffle-vane ... )  
(geometry:rectangular-tube ... )  
(geometry:ray-test ... )
```

These commands replace the following commands, which have been deprecated:

```
(solid:baffle-vane ... )  
(solid:rectangular-tube ... )  
(solid:ray-test ... )
```

Finally, the Scheme command `(edit:surface-revolve ...)` has been enhanced to optionally calculate the *Position on axis of revolution* using the same algorithm as the *Calculate a Position using selected surface* button in the **Edit|Surface>Revolve** dialog box. See the Macro Reference entry for this command for more details.