



## Revisions for VISRAD 19.0.0

- *VISRAD* has been updated to use a new version of the Qt (Qt6) user interface package. This required very substantial changes to the software. Although extensive testing has been performed, users are encouraged to contact Prism with any issues they run into using *VISRAD*.
- *OMEGA-EP Laser Facility*: The pointing parameters for the  $4\omega$  probe beam (pointing position, focus offset) are no longer editable.
- *OMEGA Laser Facility*: Can now request SRF shot list information from the local network (see [OMEGA SRF Database](#) menu).
- *LMJ Laser Facility*: The *Elliptical Type B* laser beam spatial profile has been added.
- **Beam-Target Intersection Points file**: An option has been added to export additional data for laser beam spatial profile parameters. To have the additional data included in the \*.bti export file, use the checkbox in the *Lasers* tab of *Preferences*. Data exported include (see documentation for *Power Sources | Laser Beam Parameters Dialog | Spatial Profile Tab* for definitions):
  - $a(z)$ ,  $b(z)$ ,  $n(z)$  and
  - $f_{SQ}(z)$ ,  $\Delta L_W(z)$ ,  $\Delta L_H(z)$ ,  $M(z)$  (parameters for square/rectangular beam profiles).
- When importing CAD STEP file objects as *Target Components*, the default name of the component (based on the file name) is no longer truncated at 12 characters.
- **Bug fixes**:
  - Bug occurring when deleting a folder in the *Target Components List* has been fixed. This bug was introduced in ver. 18.4.0, and occurred when users selected a folder containing multiple components for deletion but not the folder's target components.
  - Fixed mouse wheel zoom events not zooming to correct location after rotating about a surface element.
  - Updates were made to ensure all *Target Components* are displayed in the *Target Components List*, even if they lose their association with a parent folder.
  - *Target Components List*: Crash that occurred when dragging and dropping a folder between workspaces has been fixed.
  - When showing the node positions of *Chamber Components* (e.g., using the *Picked Surface Node Positions* or *Pick Surface Properties* tools), the positions are now correctly transformed to the *Target Chamber* coordinate system.
  - Fixed problem that could cause a crash when attempting to save a workspace file in which the RID database beam data is written.