



Revisions for VISRAD 19.3.0

- When writing to a workspace, the write is first performed for a test file, so that if a crash occurs during the write, the original workspace is not lost.
- *Target Assembly Viewer*:
 - Ability to show a *Stay-Out Zone* for the *Characterization Side View* has been added.
 - Ability to flip the normal (*i.e.*, use opposing *Theta* and *Phi* angles) of the *Characterization Normal and Side Views* has been added.
 - The angles for the *Assembly Tilt* and *Characterization Side View* are now calculated using the surface normal vector.
 - The origin for the axes is now located where the stalk meets the target mesh.
- LLE REST Database for OMEGA EP has been updated based on information provided by LLE.
- Bug fixes:
 - Fixed bug that occurred importing laser beam data from the LLE REST (non-SQL) database. This bug occurred in *VISRAD* version 19.2.1 only.
 - A crash that occurred when writing workspace files has been fixed. This crash occurred when multiple laser beams clusters with the same name were created, and then one was deleted. Additional checks have been made to make sure clusters with identical names cannot be utilized, and the use of pointers to clusters has been changed. Updates were made so that only one cluster can be renamed at a time.
 - A crash that could occur when deleting target components containing clipping volumes after performing certain operations has been fixed.