KARALIT CFD v4.0
RELEASE NOTES

KARALIT CFD provides users with a number of features and physical models.
Following is a list of the most relevant among them.

WHAT'S NEW IN KARALIT CFD v4.0

- Time dependent Boundary Conditions: allows to set a variation function (ramp, step, exponential and sine) to boundary condition variables.
- Standard k-epsilon turbulence model (works only with wall functions).
- The two 2-equations models (k-g and k-omega) previously available in alpha version have been removed.
- Speed-up of distance calculation.
- New features of smoothing (allows for a more gradual transition from the tiniest cells' dimension to the typical size of the background mesh) and mesh sealing (the grid is prevented from entering small gaps on the STL surface that are at sub-grid scale) in gridgen.
- STL triangulation filter (hole filling) for healing STL surfaces by which holes whose size is smaller than a specified quantity are sealed.
- New licensing option with limitation on available apps: "AEC" - building and environmental terrain flow apps with density lower than 1.4 kg/m^3 - or "full" (all apps available).
- New licensing option with limitation on number of fluid cells.

CAUTION: users are advised to generate the mesh again before running an old case with this new product release.
KARALIT CFD 4.0 full feature list can be found on the Karalit website:
www.karalit.com/index.php?option=com_content&view=article&id=63&Itemid=45