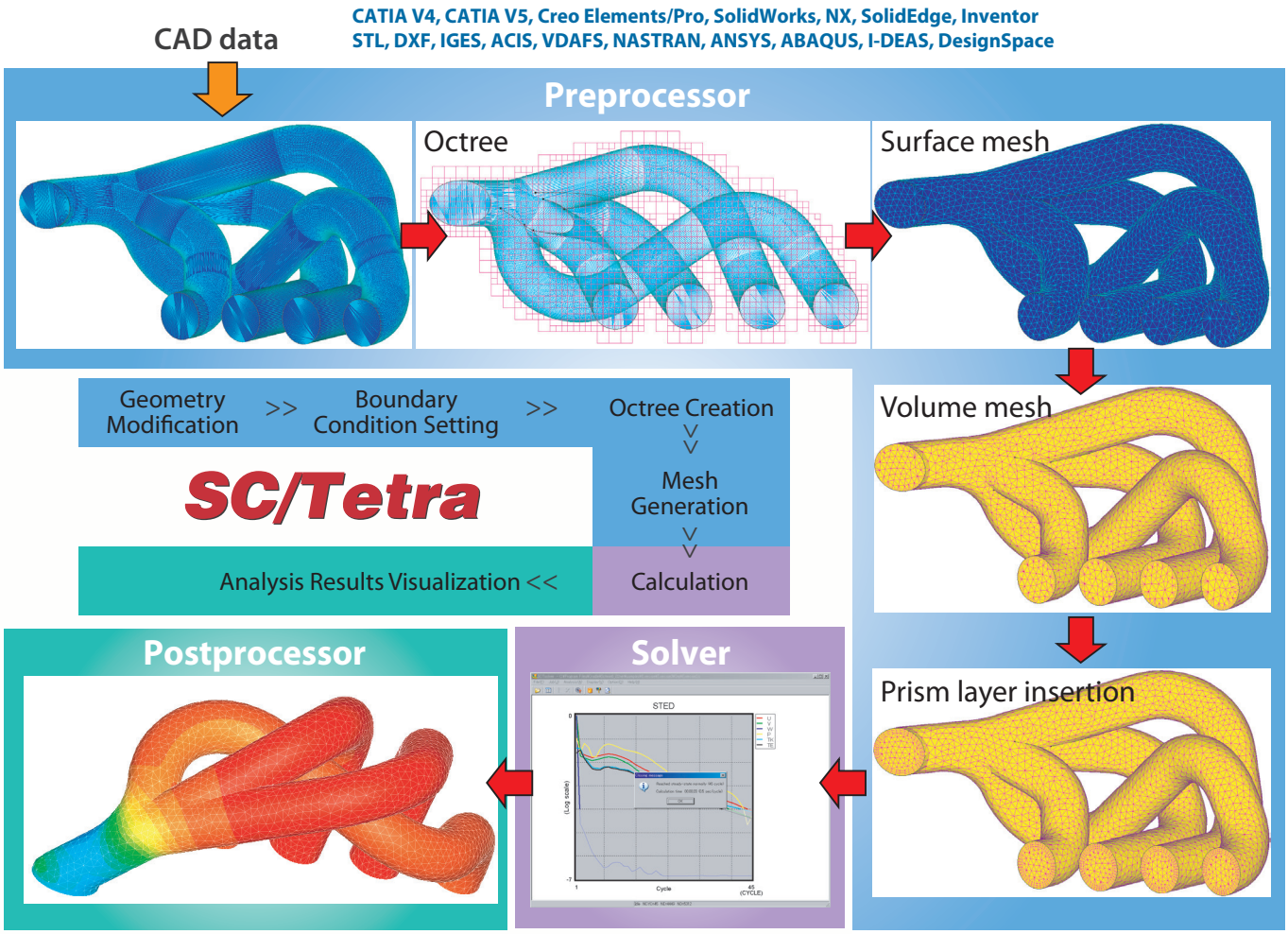
SC/Tetra

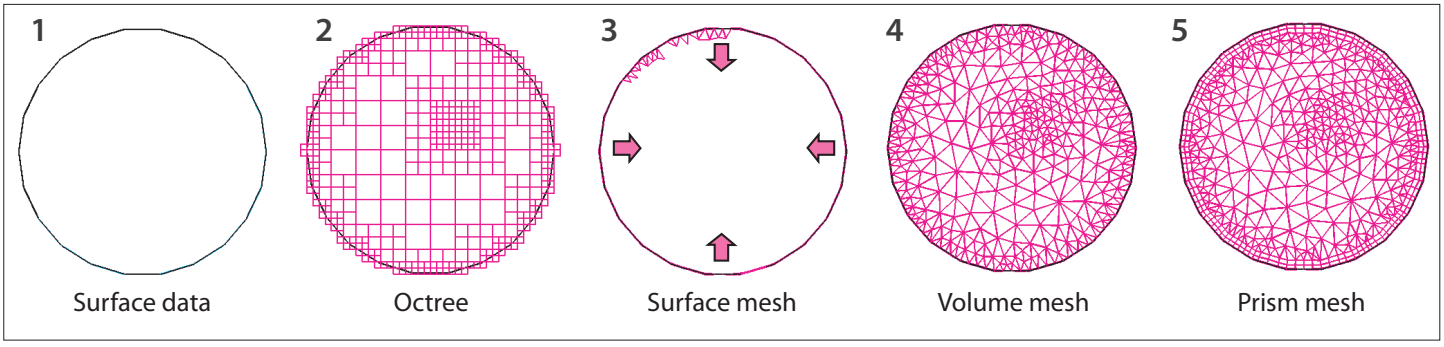
Cradle
MSC Software Company

Thermofluid Analysis System with Unstructured Mesh Generator

System configuration & operation procedure



Mesh generation



Functions

- Compressible/incompressible fluid
- Steady-state/transient, turbulence models
  (Standard k-ε, RNG K-ε, realizable K-ε, AKN K-ε, GPC K-ε, BGC K-ε, SST K-ω, SST-SAS, MP AKN k-e, Spalart-Allmaras, LKE k-kL-e, LES, VLES, DES)
- Aerodynamic noise analysis
- Thermal fluid analysis (fluid/solid)
- Radiation (VF/flux method, solar radiation)
- ALE/overset mesh/dynamic motion
- Adaptive mesh refinement
- Humidity/condensation (defrosting)
- Diffusion/chemical reaction/combustion/CVD
- Porous media/heat conduction panel/fan model
- Electric current analysis
- Free surface/dispersed multiphase flow
- Thermoregulation model (JOS)
- Cavitation

etc.

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