ALTAIR

Altair Solution for Blast & Ballistic/Open Radioss (BBOR)

Product Brief

- Unified Modeling and Simulation platform for General Fluid Structure Interaction (FSI), Blast & Ballistics
- Accurate material characterization, detailed human models for survivability predictions
- Coupled Euler-Lagrange Method
- Hybrid Solid-SPH Method

Fast Pre-Design Solutions → Mapping Features → ALE & SPH Solvers

Altair Differentiators

- Open Radioss - Altair® Radioss® is available through open source to accelerate innovation between research community and industry frontiers, facilitate knowledge and model exchange.
- Un-parallel robustness, accuracy, HPC scaling and cloud ready
- Open-architecture solution enables to connect and leverage in-house developed tools and processes
- Design and Optimization workflows embedded to enable to concept to final validation within same simulation environment.
- Platform accessible through a single unit-based license model giving full access to all technologies within the tool chain.
- Domain expertise that can be leveraged in transferring the technology and know how to customer engineering teams.

DoD/Federal/Industry Customers Include

- USG Ground vehicle agencies
- Land vehicle Defense Prime contractors
- Aerospace Defense Prime contractors
- US National Laboratories
- European Land vehicle Defense Prime contractors
- European Aerospace Defense Prime contractors
- Israel Aerospace Defense Prime contractors

DoD Problems Solved

- Ground Vehicle blast survivability
- Naval vessels underwater blast
- Ballistics studies
- Charge modeling
- Airplane ditching events
- Bird strike
- General Fluid Structure Interaction (FSI) problems