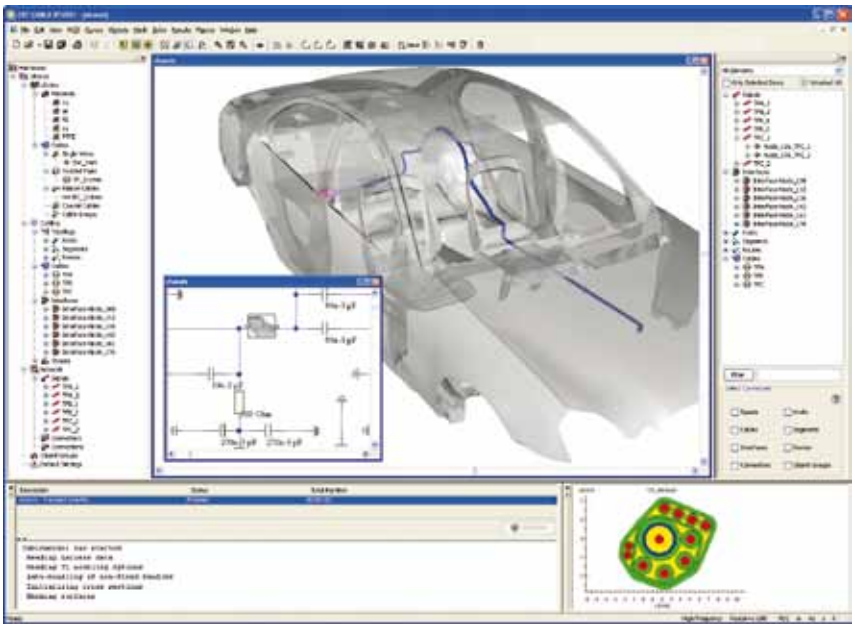
CST CABLE STUDIO

Cable Harness Simulation

CST CABLE STUDIO™ is focused on the analysis of SI, EMC and EMI effects on single wires, twisted pairs, or on complex cable harnesses with an unlimited number of cables. The cable placement is flexible.



By reliably optimizing the shielding, weight, and space consumption of complex cable harnesses while in the virtual prototype stage, using CST CABLE STUDIO™ (CST CS), helps you achieve cost effective design.

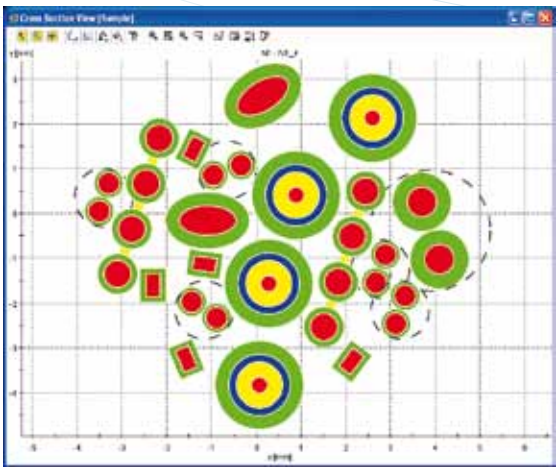
CST CS simulations can be performed in time and frequency domain, including skin effect and dielectric losses. Simulations can also comprise SPICE and IBIS models. Typical analysis includes voltage distributions on probes, current flow through components, scattering parameters, and impedances.

CST

CHANGING THE STANDARDS

Cable Harness Simulation

- Fully integrated in the CST design environment
- Supports coaxial cables, twisted pairs, ribbon cables, arbitrary multi-conductor cables, shielded cables, braided shields, etc.
- Built-in schematic editor
- Push-button import of CAD geometry data or external wiring data
- Library management system for cable cross sections, materials, loads, and signal waveforms
- SI, EMC, and EMI in time domain and frequency domain with 2D and quasi-3D model approaches
- Interfaces with SPICE equivalent tools
- Import of IBIS models
- Automatic bundling of cable harnesses with no limitation in complexity
- Results export to Berkeley SPICE or HSPICE®
- Interface with CST MICROWAVE STUDIO® (CST MWS) for full 3D analysis (EMC/EMI)
- System simulation with CST PCB STUDIO™ and CST MWS models
- Co-simulation and co-optimization through CST DESIGN STUDIO™



CST CS is fully integrated in the CST design environment so users benefit from the manpower and experience invested in its world renowned user interface. A wide variety of imports allow the tight integration of CST CS in various design flows. CST CS can easily exchange data with CST MWS' full 3D solvers for EMC/EMI simulations.