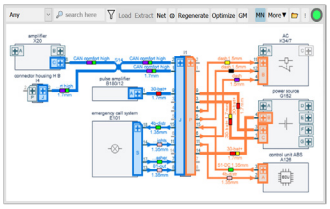
SOLUTIONS FLYER

VISUALIZATION PLATFORM TO ACCELERATE ELECTRONIC SYSTEM DESIGN, DEBUGGING, AND SERVICING

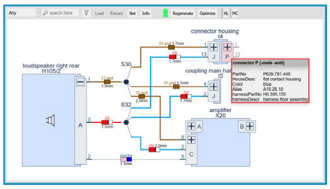
Modern automotive, aeronautical, and industrial electronic system complexity has exploded, creating a major problem for development teams and service operations. Engineers and technicians waste hours trying to find critical information using incomprehensible static documentation or CAD displays. This has a significant impact on product quality, maintenance, and schedules.

Altair® EEvision™ is an online visualization and debugging solution that easily renders circuit schematics, wiring harnesses, and component attributes specific to individual development and maintenance situations. Taking original ECAD data, Excel tables, or proprietary data as input, schematics are automatically rendered and explored on- the-fly, allowing complex systems to be easily and quickly understood. Google-style live search features allow for precise information to be extracted from huge data files and displayed in an easy-to- understand fashion.



Automatic harness connectivity rendering

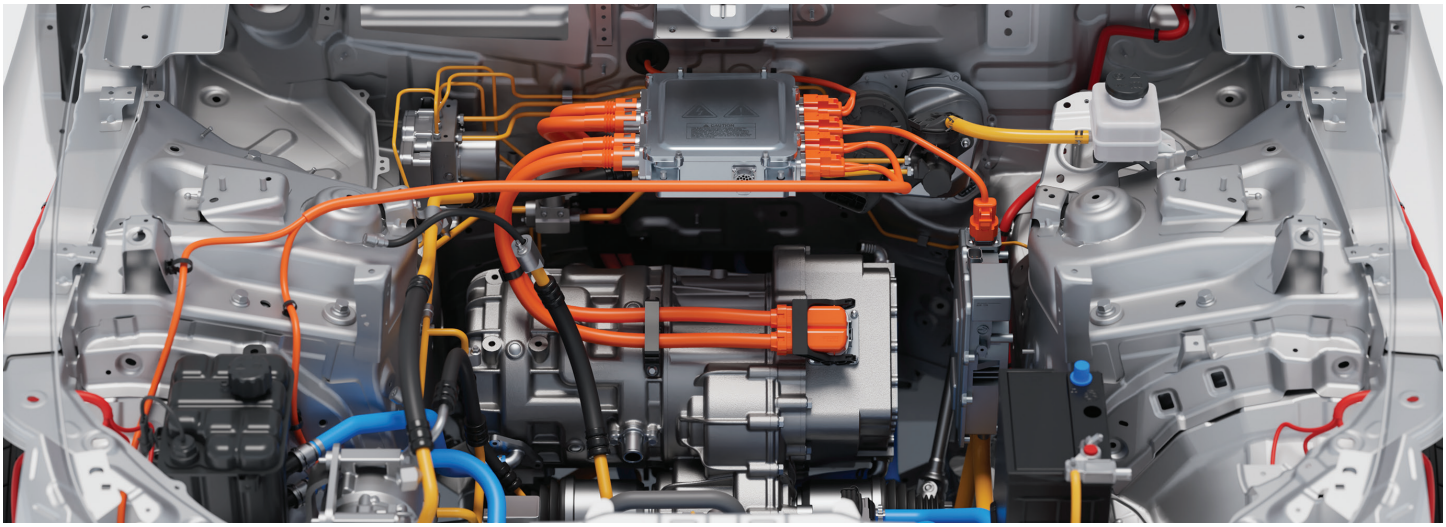
Unlike development ECAD systems and paper maintenance manuals, incremental schematics reduce the clutter of unnecessary detail, while highlighting key data to accelerate development and debug. The views can be modified and transformed as the engineer moves around the system, with important information displayed on the schematic, for example, power distribution, component detail, and other nomenclature.



Component attributes rendered from the digital twin

For Development

Today, it's hard for development engineers to access and understand unfamiliar sections of an electronic system. Reliable detail, obtained from a quick search enables the efficient design and debugging of issues. The ability to quickly dial up specific views, easily inspect them for causal effects, and then link to the next debug view is critical to the smooth diagnosis of problems. This leads to faster development and the elimination of problems in the final product.



FOR MANUFACTURING AND SERVICE

Technicians must often deal with static schematic diagrams and pages of paper manuals covering many product variants. The ability to quickly render a problem area schematic, based on variant specific vehicle numbers (VIN) or diagnostic trouble codes (DTC) represents a leap forward in manufacturing and service efficiency. As technicians deal with ever more complex electronic systems, manufacturing and service time has become a major cost differentiator.

EEvision BASIC Edition

The BASIC edition reads electrical system models and renders them in a customized fashion for dynamic electrical system navigation, inspection, documentation, and debug.

EEvision PRO Edition

In addition to the BASIC edition features, EEvision PRO includes a few additional plugins (Apps).

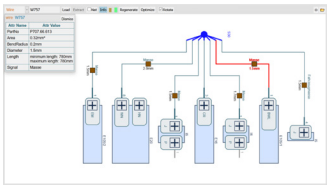
- The Modnav plugin allows smart exploration and debug of functions and other grouped components (modules).
- The Multicore plugin allows easy interactive exploration and analysis of complex multico structures.
- The Endcircuit plugin displays schematic information for hierarchical components and allows users to easily see how the top level system connects to lower level system structures.
- Modedit allows to group components into functions, harness modules, signal modules, or other module types and to store the information in the EDB model file.

EEvision ENTERPRISE Plugins

- The Docgen document generator automatically generates PDF and HTML documents for the entire electrical system. The created documents can be customized to contain a selected set of schematics enriched by additional information like technical frame, bill of material (BOM) or weight estimations.
- Edbdiff compares two EDB model files and reports product changes over time in the GUI Cockpit. As a result, engineers can quickly understand, confirm, and document product updates/revisions and automate lifecycle management procedures in the organization.
- The Signoff plugin allows engineering teams to easily check, review, and finalize electrical designs across teams and organizations.

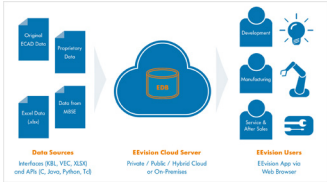
Availability

The EEvision platform is available for Windows, Linux, or as Cloud-based application, delivered over the Internet (or Intranet) using standard web-browsers. This allows easy user access from any network-enabled device and location without complex installation or software licensing.



Digital twin view for specific asset during lifecycle for maintenance service

View cloud based electrical system schematics and components



Availability and deployment

Learn More at:
altair.com/eevision