

SIEMENS DIGITAL INDUSTRIES SOFTWARE

Capital Essentials

Electrical systems design and wire harness engineering

Benefits

- Intuitive and productive circuit design and harness development environment
- Validate designs using integrated electrical behavior and design automation with part selection
- Easily deployed into existing process and environment
- Proven ROI with payback in less than 12 months

Summary

Capital™ Essentials software is a suite of wiring and harness design software tools for the demanding requirements of companies where ease-of-use and value are as important as capability. Optimized for rapid deployment and easy installation, Capital Essentials helps users achieve dramatic ROI using powerful yet intuitive functionality.

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Features

- A rich interactive, standalone environment for design reviews and change auditing
- Design of complete electrical systems and wiring harnesses
- Full process coverage from system design through manufacturing
- Built-in intelligent libraries for components, symbols and simulation models
- Simulation validates the electrical design as it is created
- Automated report generation, crossreferencing and parts selection
- Integration with MCAD and PLM systems and Capital add-ons, such as Capital E/E Publisher

The Capital Essentials advantage

The Capital Wiring Designer Essentials and Capital Harness Designer Essentials tools can be used individually or deployed together allowing wiring design data to flow seamlessly into the associated harness designs to reduce effort and minimize the risk of errors.

- Rapid, right-first-time, error-free electrical and harness design with numerous validation features including simulation for continuity, voltage drop and current directions and calculations
- Automated harness engineering for creation of production-ready drawings, BOMs, costings, NC files, and manufacturing reports
- Integration with 3D CAD systems – model in 3D and engineer the electrical detail with Capital Essentials

- Designed by engineers, for engineers – intuitive and easy to use, delivered with video tutorials, “how to” documents, support from an active user community and online training courses
- Full data compatibility with companies using Capital – ideal for partners, suppliers, and subcontractors of OEMs.

Capital Wiring Designer Essentials

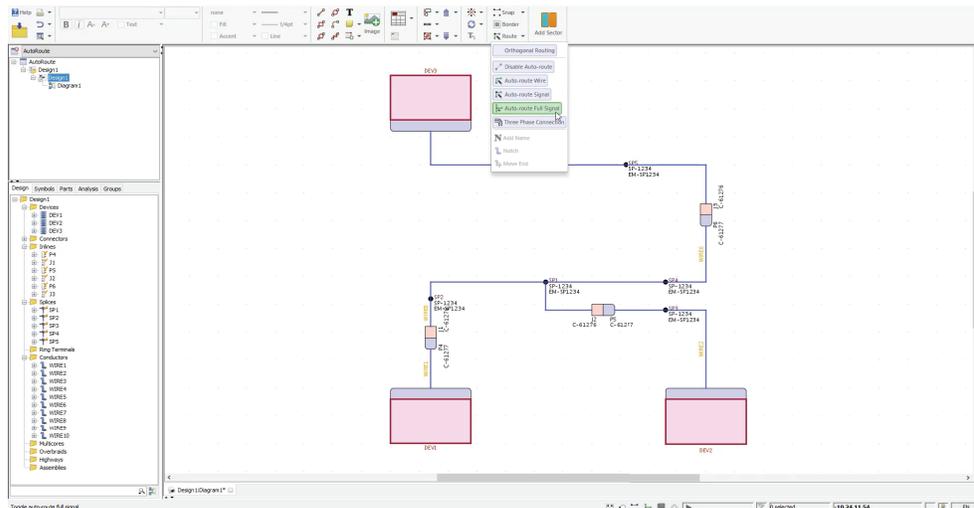
Capital Wiring Designer Essentials software provides a graphical environment for creating wiring diagrams. Full electrical design authoring is made easy via an intuitive user interface and electrically intelligent symbols. Built-in electrical intelligence automates many design tasks.

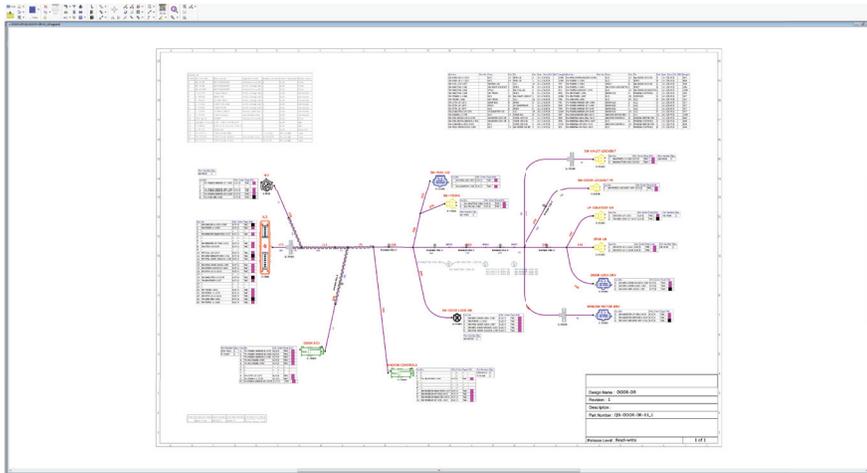
Simulation helps designers check and validate their designs as they are created. This eliminates errors faster and earlier in the design process. It also shows voltages and currents, highlighting problem areas such as short circuits and validating wire and fuse sizing.

Capital Essentials automatically generates reports for wires, connectors and devices used in the design. Diagram index tables and device and wire index tables with full sheet and zone referencing, can be added to the drawings and update automatically as changes are made.

Capital Harness Designer Essentials

Capital Harness Designer Essentials software provides a graphical environment for creating harness and formboard drawings. Its intuitive user interface makes harness design authoring easy. Built-in harness-engineering intelligence automates many design tasks. For example, connector tables are automatically populated as wires are added, terminals selected, and wire tables generated.





Capital Harness Designer Essentials includes a powerful automated parts selector that automatically configures and selects terminals, seals, and wires for each connector, including allowances for add-ons and knock-offs. This speeds the harness design and eliminates the major source of problems found in the traditional design process.

Once a harness is complete, the powerful Capital Harness Designer Essentials reporting capabilities can be used to generate the documentation required for manufacturing. Because the reports are automatically generated directly from the design drawing, fast and accurate information is assured. This can significantly reduce production lead times and prevent manufacturing errors.

Capital Essentials implementation

Capital Essentials is simple to use, ships with detailed video tutorials, and requires minimal training. Experienced support staff within an active user community forum can provide immediate support and answers to questions. Also available is a virtual workshop environment and on-demand training.

Collaboration and upscaling

Capital Essentials is a subset of the Capital suite of software applications that help the leading automotive, aerospace, and harness OEMs deliver products. Capital Essentials can collaborate not only with other Capital Essentials OEMs, but also can share data with suppliers using Capital. You can also extend Capital Essentials with Capital add-ons including MCAD and PLM integrations, Capital Analysis, Capital E/E Publisher, Capital Harness Process Designer and Capital Work Instruction Publisher. An upscaling upgrade to full Capital capabilities is available when you need more collaboration and automation or are designing with more complexity in your products.

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Americas
1 800 498 5351

Europe
00 800 70002222

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