If you want...

the latest PLMready technology in managing your Design Data and 3 Point comparison, with a long-term development strategy, for your electrical and electronics engineering design data

J2EE or .NET oriented platform with 3 Tier architecture

the ability to begin anywhere in your electrical and electronics design workflow

to work in small or large Teams as well as across the globe, simultaneously, on the same project

easy operation under Windows® yet optimized for electrical and electronics engineering

to manage intelligent and clustered Design Data

handle all development related ECN/ECR/ECO in your Design environment

to reduce development costs with predefined Modules, Blocks or hierarchies

to integrate E-CAD with ERP, PDM and other systems, directly through a open API

handle single or multiple libraries and their obsolescence information, - assessment and - impact analysis and update automatically all related Design Data and BOMs

...then let us introduce you to DS2

www.zuken.com/ds2
DS2 - Introduction

DS2 is a modular and scalable solution for electrotechnical and electronics applications engineering that covers functions for schematic capture, layout, wiring and wire harness design, along with design for pneumatics and hydraulics. It supports the user in a proven way along the entire engineering process, from development through to manufacturing. As the client is entirely based on Windows, DS2 modules are intuitive, and easy to learn and use.

DS2 is a proven solution, being used by companies globally for the last 14 years. Keeping pace with the highly progressive market, DS2 also uses the latest technology - making it a solid secure investment in your development future.

Object Relational Database

The DS2 solution is based upon an object-relational database with all modules feeding back to a single database. There is no data transfer between the individual modules, ensuring errors are avoided, while increasing the quality of results and enabling any necessary changes to be made more efficiently.

Integration

The bi-directional and open application programming interface (API) permits access to the object-relational database, ensuring the DS2 solution can retrieve or send data from and to other systems. It can also be easily integrated into your existing product development landscape, with any database including PDM, ERP, MRP.

Interfaces which are currently undergoing certification (like SAP I/F) make it possible to import and export online, offline or via batch process. DS2 is “PLM ready” as it is fully capable of being integrated into any PLM environment.

Enterprise

The design anywhere and build anywhere capability of the DS2 solution makes simultaneous engineering possible, significantly reducing project costs and lead times.
**DS2 Modules**

**Component Master (CM)**
Complete meta data from material master information up to technical parameters and parts documentation. Object relational technology with online verification to material master provides highest data quality and accuracy during the whole component lifecycle.

- Single or multiple organization handling
- Component information for electrical & electronics engineering
- Versioning and revision management
- Approval flows for WIP & release status
- Alternative and second source management
- Online / Offline update to material Master DB
- Direct relation to the according CAD part(s)
- Datasheet information available
- Obsolescence information handling for immediate ECN/ECR/ECO

**EDA Library Master (ELM)**
Complete creation/design and maintenance for any electrical or electronics component – from CAD part down to symbol, gate, pin assignment, footprint, pad stack and pad information. Where used information at any time. Synchronization to the work library across all locations with independent settings.

- Single or multiple CAD library management
- Graphical pin mapping
- Relation between CAD part and material information
- Synchronization to predefined locations
- Versioning and revision management
- Approval flows for WIP & release status
- Obsolescence information handling for immediate ECN/ECR/ECO
DS2 Modules

**Component List Master (CLM)**

Complete Bill of Material (E-BOM) handling in direct synchronization with related schematics and PCB data, in addition to component master and EDA library data. The object-relational technology allows direct connection between all these above information without data transfer, using the single database concept.

- Parts List comparison with schematics & PCB data
- Online synchronization of all this above Data due to ECN/ECR/ECO
- Preferred parts list (PPL) and obsolescence handling
- Approval flows for WIP & release status

**Engineering Desk Top (EDT)**

Complete design data management from circuit diagrams to PCB’s, BOM’s, specifications, related mechanical and drawing information. Object-relational technology and online verification provides re-use and share functionality to fit module design approaches.

- Circuit schematics, cable and PCB data management
- Panel management
- Approval flows for WIP & release status across the whole project or for single objects only

**Product Structure Master (PSM)**

Complete project plan handling in direct synchronization with the related tasks and resources assign to a project.

- Register projects and schedule related information
- Task, timing and resource balance
- Work panel overview

**DS2 - Go beyond traditional vaulting**

Component List Master (CLM)
Engineering Desk Top (EDT)
Product Structure Master (PSM)
Aerospace / Military

Industries that rely on electronic components face a fundamental challenge when managing their engineering product lifecycles. Regardless of whether the product is in active production or service and warranty repair mode, overall product lifecycles far exceed the average lives of individual components.

Zuken and its DS2 solution empowers companies to efficiently manage changes in electronic and electrical component lifecycles, particularly end of life notices and part change notifications.

Using this in conjunction with Zuken’s vertically integrated E³.series solution, delivers a unique product development environment specifically designed to address aerospace and military requirements.

Automotive

High quality is more than just a differentiator; it’s an expectation. High levels of competition with increased product complexity is also demanding more for less, making cost saving initiative paramount for success.

Integrated CAD adds significant value by allowing designers to develop innovative designs, rapidly producing different iterations to optimize attributes such as cost, performance and regulatory compliance. Zuken’s DS2 solution combined with the vertically integrated E³.series environment, drastically improves speed and efficiency of new automotive design creation. Enterprises can manage and share digitized product information much more readily – a critical requirement for global product development.

Machinery

Fostering collaboration between R&D teams to drive effective working is the key to success. To exploit narrow windows of opportunity, time to market is everything - requiring fast, accurate data retrieval. Zuken’s work in progress indicator – provided through the Design Oriented Architecture – helps companies rapidly assess product design status. R&D teams cannot create maximum value if they work independently and keep information to themselves. While commercially sensitive data needs to be protected, an enterprise CAE system should allow authorized users to quickly find and access information that impacts their work. Zuken delivers ‘best in class’ information exchange via its electrical and fluidic product development environment approach - safeguarding data security while allowing authorized users easy access to relevant design data and information.

Enabling effective collaboration between R&D teams is vital. Time to market is everything, dictating fast and accurate data retrieval.

Zuken’s work in progress (WIP) indicator allows companies to quickly assess design status. While there may be reasons to limit access to certain information, an enterprise CAD system should allow users to quickly find and access current information that will impact their part of the project. Zuken delivers ‘best in class’ information exchange via its DS2 solution - safeguarding data security while helping R&D teams to bring new designs to market quickly and efficiently. The vertically integrated E³.series environment completes the portfolio needed to establish the design-oriented architecture essential for high-tech consumer products.

Medical

Zuken’s DS2 solution eases the design process, promoting breakthrough innovation while delivering 100% reliability. This is achieved by enabling rapid production with fewer design iterations, which lowers cost and increases performance while enabling regulatory compliance. With the enhanced speed and efficiency delivered by DS2’s design-oriented architecture, designers can impact more projects simultaneously and develop and optimize more product variations on a single project.

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About Zuken

The Challenge

More quality, more functionality, in less time, with less cost; it’s a common story in today’s market place. The increased competition and requirement to operate on a global scale, makes these end-user demands ever more challenging to meet. So companies need to be innovative and dynamic to stay one step ahead of the game – this is where Zuken can help.

What We Do

Zuken works globally with leading companies to optimize their electrical and electronic engineering design and related manufacturing processes through the provision of leading-edge software and consulting services. Our unique combination of proven experience, technological expertise and agility creates best in class solutions. Our transparent working practices and belief in integrity in all aspects of business produce long lasting and successful customer partnerships.

Security of Solid Foundations

Zuken’s robust market position is reinforced by an established position in the industry with over 30 years experience, and solid financial foundations. As a stable multinational company, listed on Tier 1 of the Tokyo Stock Exchange, Zuken is able to remain focused on being a long-term innovation and growth partner. The security of an investment by partnering with Zuken is further reinforced by the company’s people – the foundation of Zuken’s success. Coming from a wide range of industry sectors, specializing in many different disciplines and advanced technologies, Zuken’s people are able to relate to and understand each company’s unique requirements.

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