Wisej.NET

CASE STUDIES USING Wisej.NET

Build, Migrate and Modernize Line-of-Business Applications for Web & Cloud with Wisej.NET



build



migrate



modernize

Line-of-Business Applications for Web & Cloud with Wisej.NET

Wisej.NET is a cross-platform web framework for building modern HTML5 applications using .NET and C#/VB.NET instead of HTML and JavaScript.
It contains everything you'll need to create mission-critical web applications, including UI components, session handling, state management, and backend integration. Maintain pixel-perfect control of your application across different devices thanks to the Wisej.NET designer in Microsoft Visual Studio.

Core Features of Wisej.NET:

- Pixel-perfect Web Design: True WYSIWYG development experience at design time even for complex screens with visual inheritance, allowing you to design and build fully responsive web applications directly in Microsoft Visual Studio.
- Full Control Set: Wisej.NET includes all the controls you'll ever need - out of the box and fully themable. More than 100 controls and extensions are included to start developing right away.
- 3rd Party Integration: Integrate any JavaScript widget or make use of our ready-made extensions available for component libraries such as DevExpress, Syncfusion JS1/JS2, Telerik Kendo UI, Infragistics Ignite UI, Northwoods GoJS.
- Real-time Web Made Simple: Keep the browser and the server in live-sync through small differential Ajax/JSON packets over a failsafe WebSocket connection, including session and state management.
- Enterprise-scale Platform: Powering some of the largest web applications on the market with thousands of screens, Wisej.NET has been designed from the ground up to build mission-critical line-of-business applications.

The following pages feature real-world case studies from different industries and different countries.
All applications have been built, migrated, or modernized using Wisej.NET.



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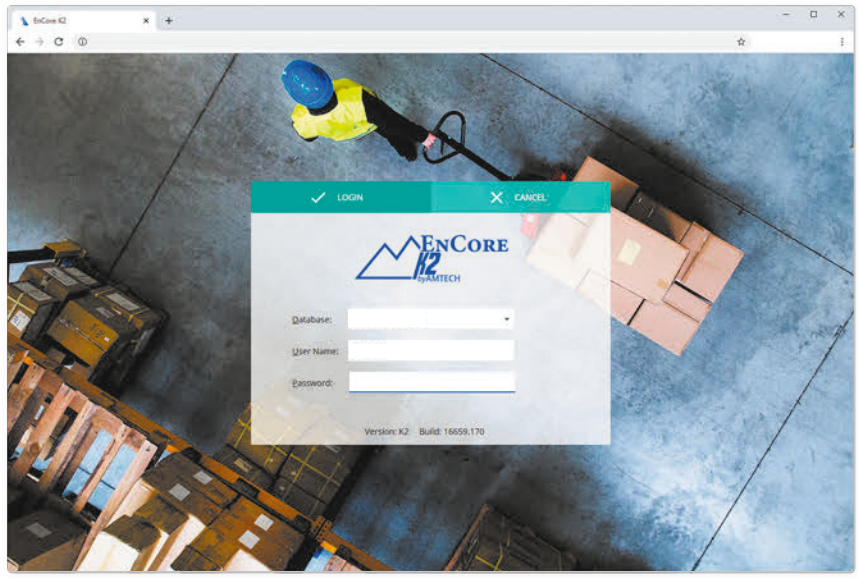
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Amtech Software

Wisej.NET Enables Web Migration of Amtech's ERP System



Amtech Relies on Wisej.NET to Deliver Web-based ERP for the Corrugated and Folding Carton Industry.

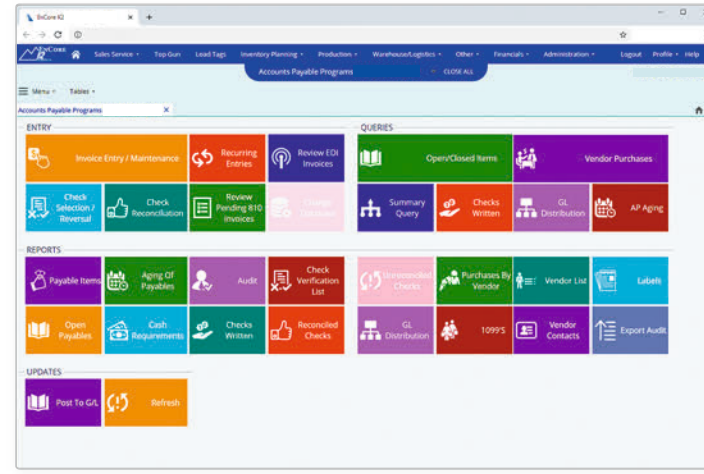
Amtech is the leading worldwide provider of software and hardware solutions for the corrugated manufacturing industry serving more than 600 manufacturing plants worldwide.

The Imaginera software suite has been developed and deployed as an on-premise client/server solution originally built with Gupta Team Developer 4GL. With a complete suite of modules, multilingual and enterprise solutions, Amtech was looking for a web migration option to support the technology needs of its customers in a fast growing and ever-changing industry.

Moving to the web with business requirements in mind

Mark Handzlik, Amtech Chief Development Officer explains: "From the start, our goals for the next generation of our market leading Imaginera ERP software have always been ambitious. We wanted our users to be able to work with our software anyplace, at any time, on any device." Amtech was looking for a combined porting and web-enabling approach and finally found the ideal solution.

Using Wisej.NET for the development environment and base technology along with the consulting experience of Washington-based fecher LLC, the Imaginera application was migrated to a web solution based on .NET and Wisej.NET.



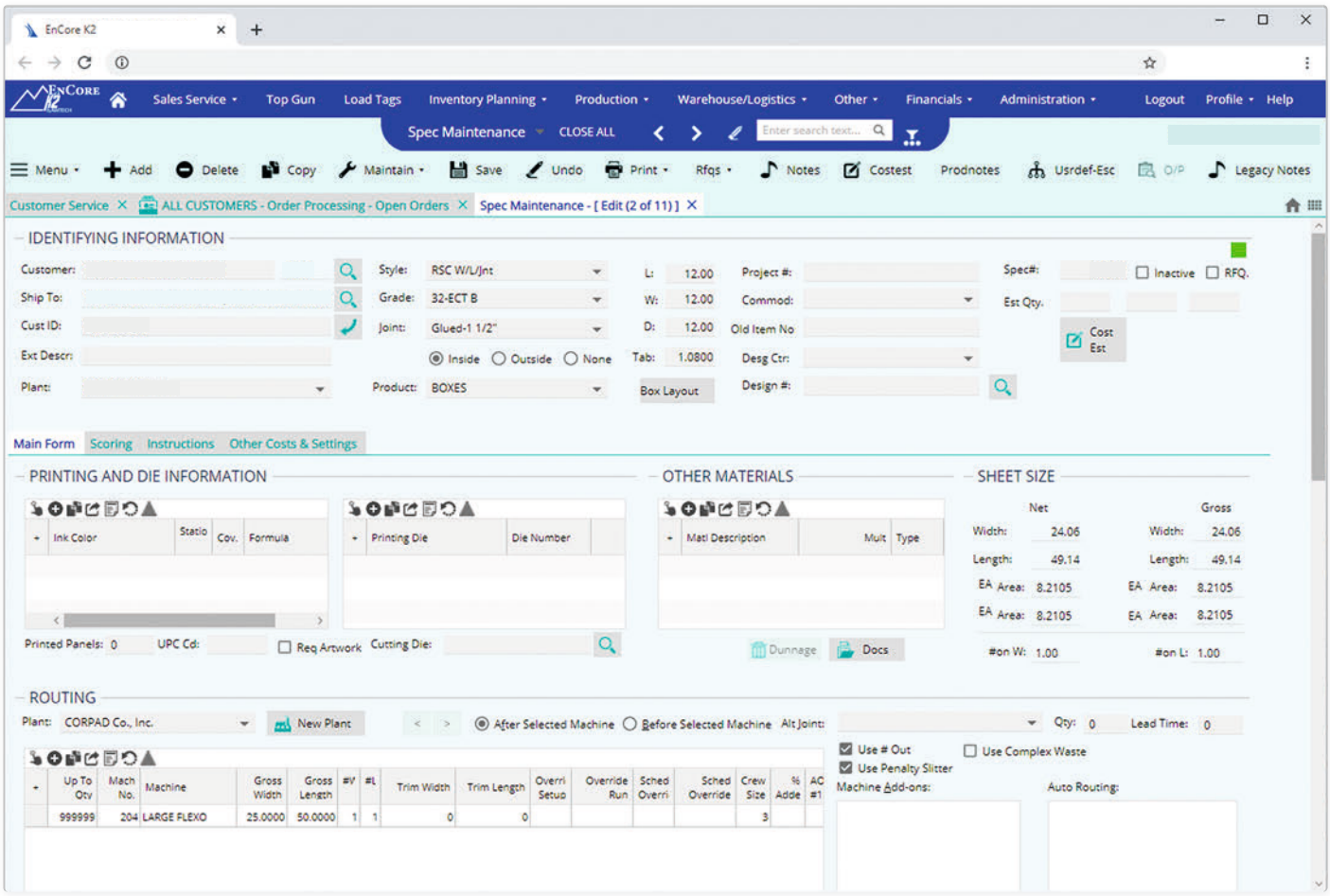
Web migration with UI/UX optimizations

Fecher helped porting 2.4 million code items (roughly the equivalent of 12 million lines of code) 880 screens with 1,250 dialogs and 800 reports to a web-native HTML5 frontend ready to deploy to Amtech's customers. The new application, now named "EnCore", is fully compatible and can be deployed to existing Imaginera installations, while at the same time providing a much-improved user experience & technology.

The project started with an automated Gupta to .NET porting of the Imaginera ERP, consisting of more than 110 individual applications. Then in subsequent project stages, fecher's team consolidated all the modules, moved the application to the web, performed an extensive redesign of the user interface, and added thousands of man-hours of new features.

As a result, the new EnCore software is now a state-of-the-art web application technology and all of the functions of the previous software have been preserved. As it's a browser-based solution, now it can run on virtually any hardware with a browser, it can be managed centrally and its consolidated UI provides a much-improved user experience. A new client portal now makes seamless supply chain management possible – from the order to production all the way to delivery.

"Our new software also provides an ideal foundation for future customer self-service apps that will enable our users and their customers to save even more time and money." Handzlik is pleased to report.



Business continuity was key

"In application modernization, it is critical to ensure 100% continuity despite the switch to a new generation of software" explains Günter Hofmann, fecher's CEO. "This applies equally to the users of a business-critical ERP system as well as the Amtech development team that will later go on to maintain and improve the application. This is the key benefit to using our tool-based migration approach."

"We partnered with fecher on this critical project as they had proven to be a highly professional partner that tackled all of our special requirements and implemented them to our satisfaction. Now we have a brand new product that gives our current and future clients everything they want.", says Amtech's Chief Development Officer Mark Handzlink, summarizing his experience.

Results Achieved

- Successful web migration of the industry-leading ERP for packaging.
- UI/UX improvements and cross-browser/cross-device support.
- Easy upgrade approach for existing software installations.
- Flat learning curve of Amtech's development team.

About Amtech Software

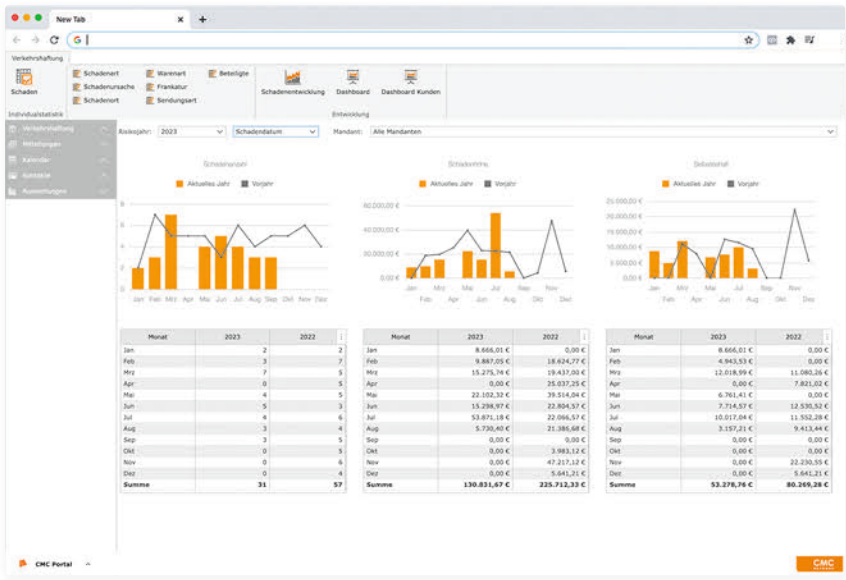
Amtech is the leading worldwide provider of software and hardware solutions for the corrugated manufacturing industry. Established in 1981, Amtech has been at the forefront of the industry, offering tailored solutions, while assisting manufacturers in achieving operational excellence in key business areas including plant management, production planning, supply chain, and sales and customer service.

Today, Amtech is the backbone of more than 600 manufacturing plants and is proud to offer a business system that is both innovative and comprehensive. With a complete suite of modules, multilingual and enterprise solutions, Amtech has the technology that businesses need to remain competitive in an ever-changing industry.

https://www.amtechsoftware.com/

CMC Network

Leading Claim and Insurance Management Solution built with Wisej.NET



CMC Network Helps DHL, Deutsche Bahn (German Railway), Allianz and other Top 500 Organizations to Optimize Risk, Claim, and Insurance Processes

When you manage thousands of buildings, vehicles and other logistics infrastructure, things can go wrong. Your vehicles get into an accident, there is a water leak in an office building, or a truck gets damaged during loading. These things happen and you need to have processes in place to manage assets and handle claims.



Working Closely with Leading Insurance and Logistics Companies

Munich-based CMC Network GmbH has developed a software suite for insurance processes and claims management. Serving some of Europe's largest organizations, the team led by CEO Markus Gschwendtner focuses on insurance processing for the enterprise market.

Founded in 1997, the company has found its niche in the transportation and insurance industries.

More than 1,000 claims handlers connect to CMC's software suite every day, to handle mission-critical risk and claims processes.

Customers include the who's who of the German logistics industry, such as Deutsche Post, DHL, Duvenbeck, MediaMarkt/Saturn and DB Schenker as well as insurance and risk companies such as Allianz and Willis Towers Watson.

Cloud-based Solution

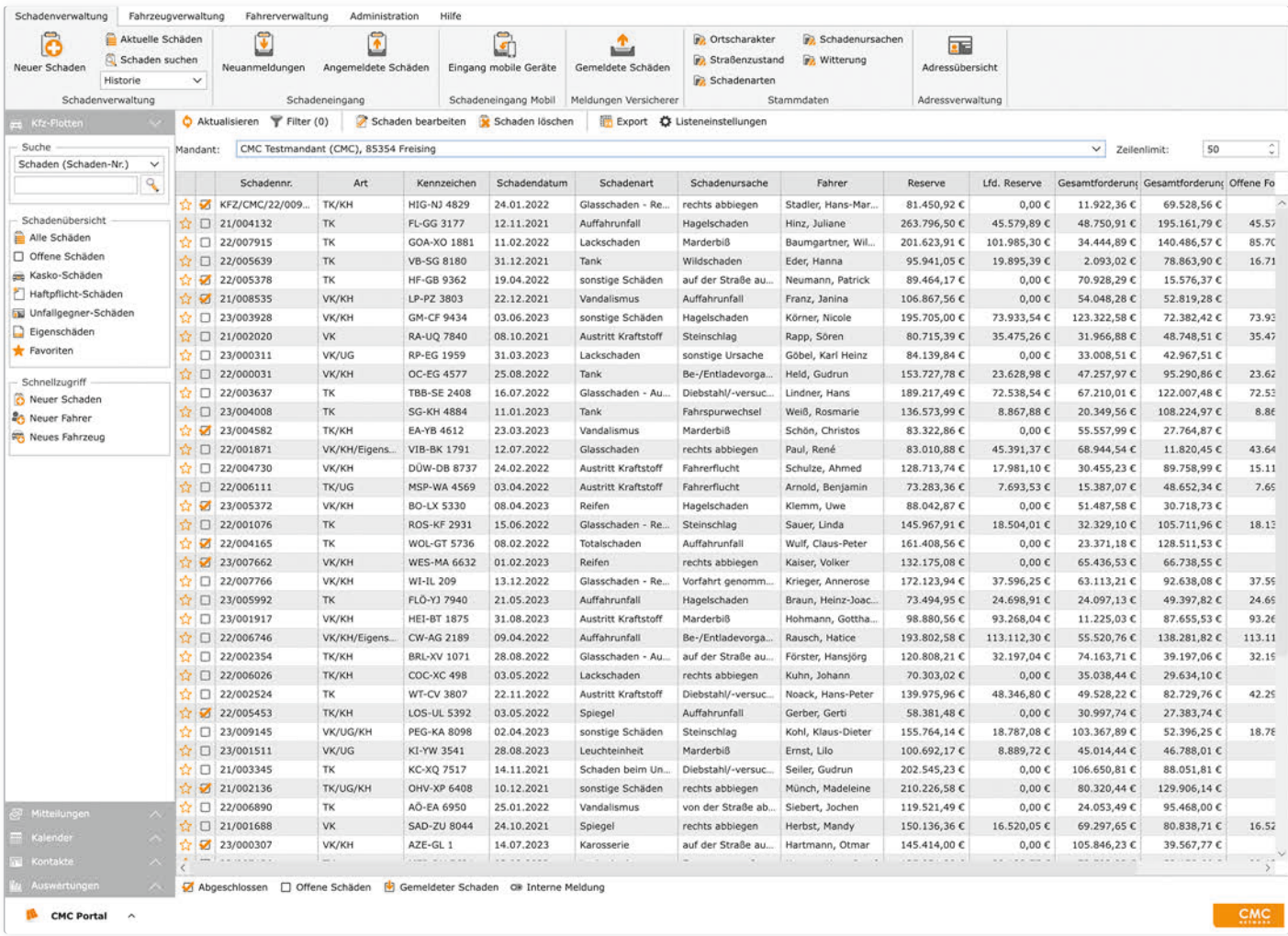
Originally developed for the Windows platform, CMC has continuously adapted its software suite to technological changes. As a .NET based solution, the move to Wisej.NET seemed easy.

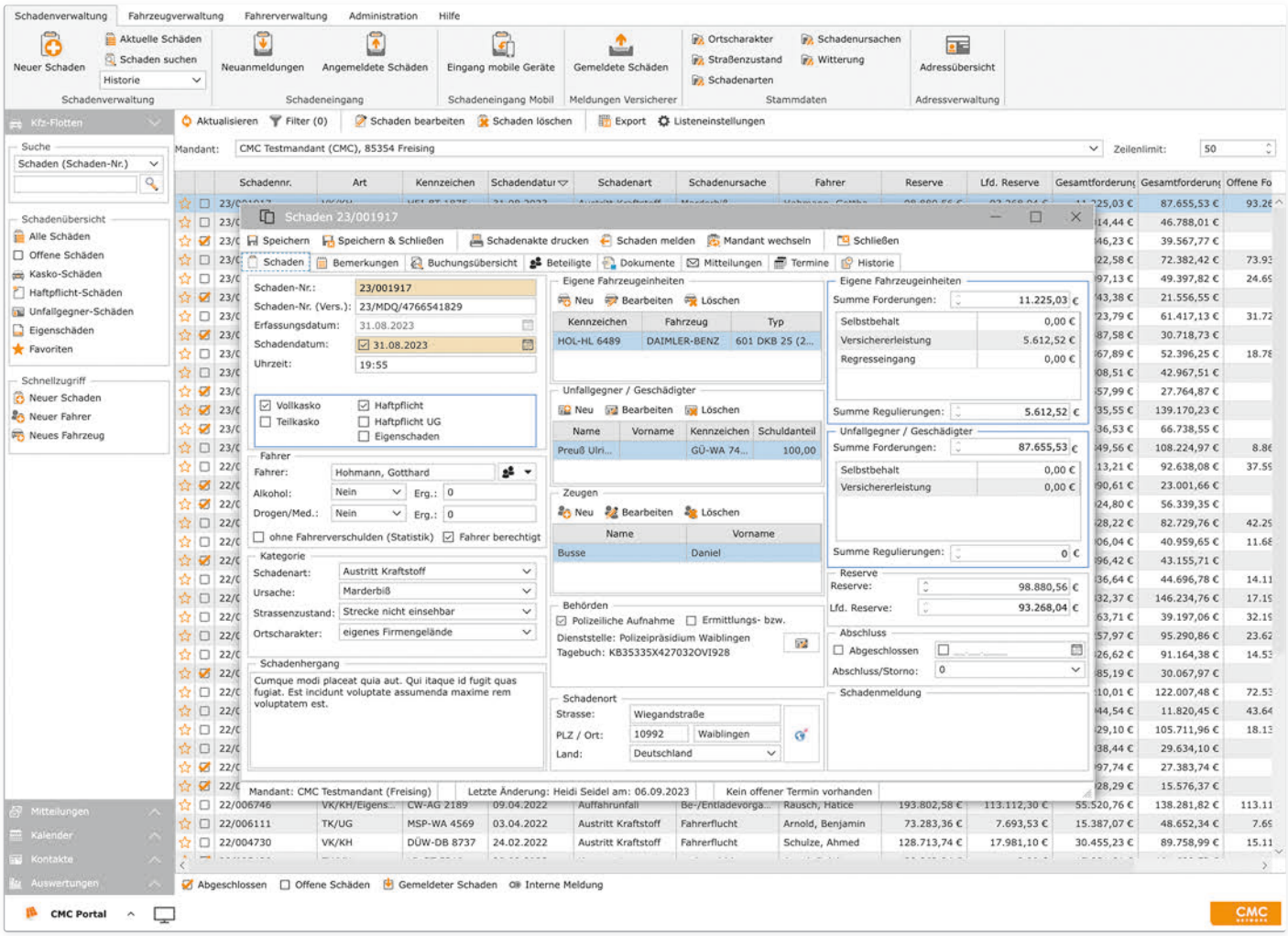
Markus Gschwendtner explains: “We wanted to ensure that a future technology stack could meet our specific requirements, leverage our C# and .NET skills on the server side, and provide the best possible fit with our DevOps procedures.”.

After extensive market research and professional recommendations for Wisej.NET, the team was happy to choose Wisej.NET.

But the path wasn’t clear from the start: The team was tempted to use some of the other popular development frameworks like Angular, Vue.js, React, and the like. These frameworks seemed to have larger communities and richer libraries. But these free options come at a cost: Switching to one of these frameworks would have required a lot more time and effort to bring CMC’s claim management suite to the web and cloud.

Markus continues: “The productivity, feature set, and programming model led us to choose Wisej.NET over other JS frameworks, using C# and .NET on the server side.”.





Competitiveness is Key

In addition to the technical aspects of Wisej.NET, the team at CMC describes a very positive experience with the consulting and support teams at Ice Tea Group, the company behind Wisej.NET.

"We enjoy a close partnership with Ice Tea Group. Their support and consulting services are simply excellent!".

Markus appreciates the fast and effective solutions to any questions or problems. "It fits our needs perfectly and they are always there when we need them.".

Another aspect is the active development of Wisej.NET. As a member of the Wisej.NET Technology Partner program, CMC has access to the latest features and preview releases. The framework is constantly updated and enhanced to meet latest web standards and best practices. "Wisej.NET helps us stay competitive and allows us to focus on the business needs of our industry. Compared to other frameworks that cover only a fraction of the entire technology stack, we benefit from an integrated ecosystem that's perfectly suited to our needs.".

Time-to-market, Extensibility, and Focus on Business Requirements

As a result, the team at CMC is able to develop powerful line-of-business applications of any complexity. "The performance and the developer/user experience, thanks to the single-page application concept of Wisej.NET, is just perfect for our needs.".
In summary, the team identified three aspects that are key to their experience:

1. Time to market: Thanks to Wisej.NET, with its intuitive API and development environment, the team is able to "develop and deploy application features faster than ever before." Wisej.NET has given CMC a competitive advantage.

2. Extensibility: Wis ej.NET-based applications are easy to extend. "Thanks to the modular architecture and focus on line-of-business applications, we can easily extend and enhance our products to respond to market needs." says Markus.

3. User experience: Claim management involves complex cases. Wisej.NET provided the mechanics to design a rich, yet intuitive, user interface that's appreciated by CMC's customers. "This would have been much more difficult to achieve with traditional web technologies.".

Results Achieved

- Successful Cloud migration of a Windows-based application
- Market-leading logistics and insurance management solution
- Fast time to market
- Great extensibility
- User Experience
- High developer productivity



"Ice Tea Group is a strong and reliable partner that has enabled us to deliver competitive solutions based on a modern technology stack, while allowing us to focus on our core competencies – building great software for the logistics and insurance market."

MARKUS GSCHWENDTNER
(CEO), CMC Network GmbH

About CMC Network GmbH

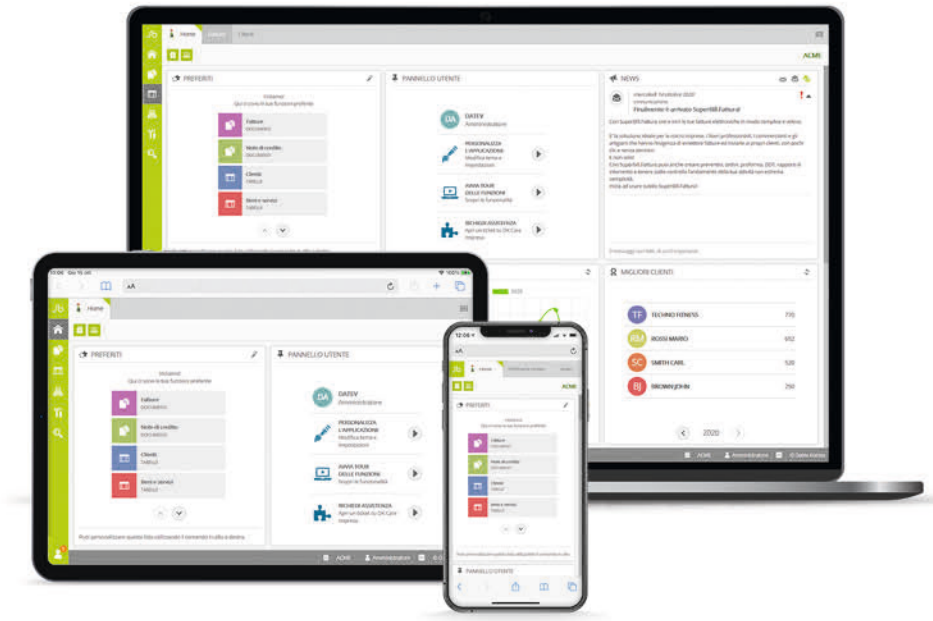
CMC Network GmbH is one of the leading providers for claim management software in the insurance and logistics industries.
The team is based in Freising (Bavaria), Germany. Founded in 1997, the company serves customers such as Allianz, DB Schenker, Deutsche Post, DHL, MediaMarktSaturn and others.

www.cmc-network.de

Wisej.NET

DATEV.it

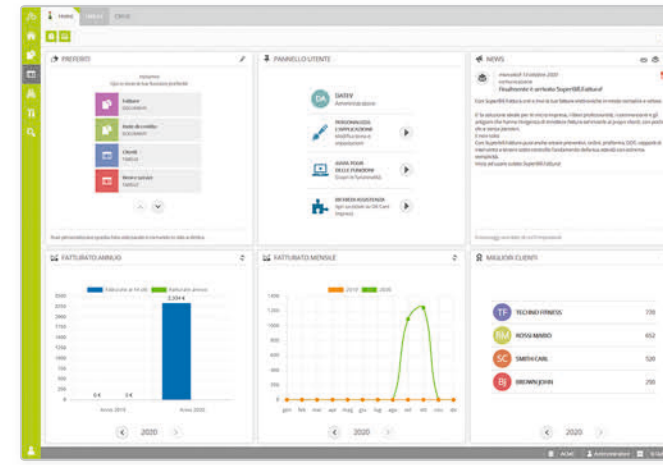
Wisej.NET Plays Key Role for DATEV.it Web Migration Strategy

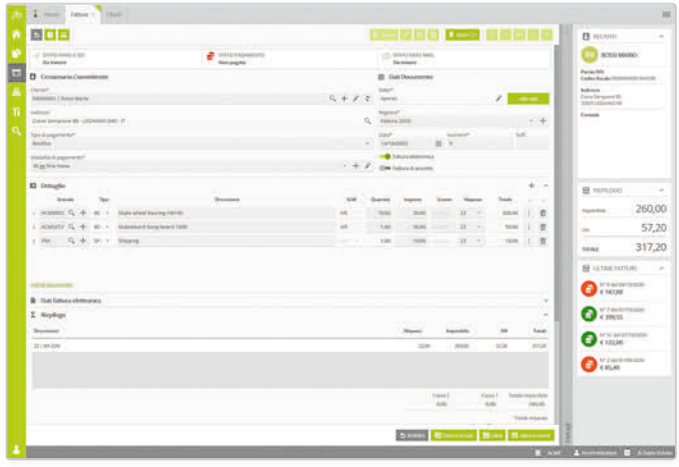


DATEV.it Delivers Web-based Billing Solution with Wisej.NET and Microsoft.NET

The team at DATEV.it develops software solutions for tax consultants, auditors and their clients. Thousands of organizations in Italy and beyond are using DATEV.it applications for tax declarations, accounting, payroll, electronic invoicing, and document management.

In 2001, the Milanese tax consultant cooperative KOINOS started to collaborate with DATEV eG, Germany's third largest software company. The joint DATEV KOINOS today is supporting thousands of customers, providing solutions for Italian tax consultants and their clients with high quality and reliable software and services from DATEV.it. Wisej.NET was selected as the primary technology for future web projects in 2018.



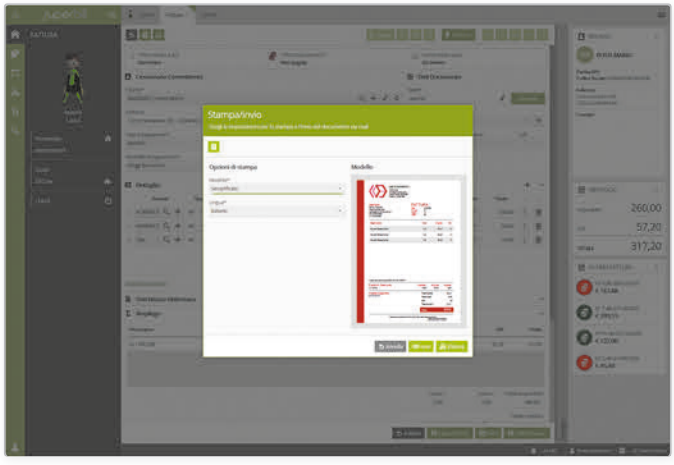


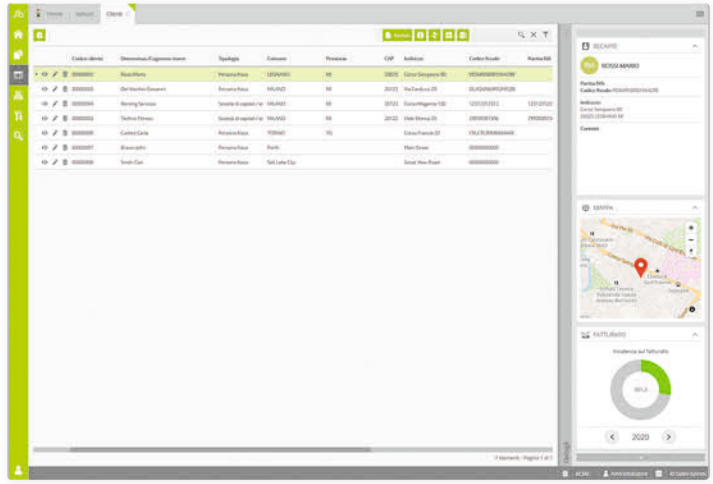
Stefan Kukla, Executive Officer and Head of International Markets at DATEV eG: "Using Wisej.NET as a base technology for our future product portfolio at DATEV.it was a very successful move: We were able to cut down on time-to-market with a much increased developer productivity while adding features and innovations that make a difference to thousands of users of the DATEV.it product line."

Moving to the web with business requirements in mind

The existing applications are based on the Microsoft .NET Framework and DATEV.it's product range was built with Windows Forms. About fifteen of these applications are used by tax accountants and labor consultants to help them manage all activities on behalf of their customers. Choosing a new technology stack for the web with a complex application portfolio and a large user base is not a trivial task. Ruggero Vecchio, managing director of DATEV.it, notes: "Our applications are used by thousands of customers and are for them the main tools for their daily job. Our users have high expectations in terms of software quality, efficiency and reliability.". Some of DATEV's applications consist of more than 1,500 screens to manage with all aspects of the Italian tax system. The business logic is complex and ever-changing, which requires constant adaptation and maintenance to reflect new business and legal requirements.

DATEV.it was looking for a web technology that could combine full browser support, modern usage patterns in terms of UI/UX, as well as coping with the complex demands of line-of-business applications along with great developer productivity.





Picking the right technology

"We have been through an evaluation phase in which we used various state-of-the-art web development technologies to implement application prototypes." explains Ruggero Vecchio. All prototypes had to satisfy a number of prerequisites that were considered important for the kind of software developed at DATEV.it. In particular, the possibility to offer a very efficient and ergonomic user experience was key: Accountants are normally using DATEV's applications all day long and often need to be very fast in performing data entry operations. Keyboard navigation, for example, is not always easy to handle in web applications, but this has to work reliably to support user demands. The team at DATEV.it has experience with the traditional ASP.NET MVC development stack mixed with client JavaScript libraries like jQuery.

They also evaluated structured frameworks such as Angular and React as a possible target technology for their web projects. However, none of these approaches led to promising results.

Some of the real benefits that Wisej.NET offers, compared to more “traditional” web development technologies, became apparent at the end of the prototyping phase, when the developers at DATEV.it compared the results. The main reason was the possibility to leverage some critical advantages offered by Wisej.NET such as:

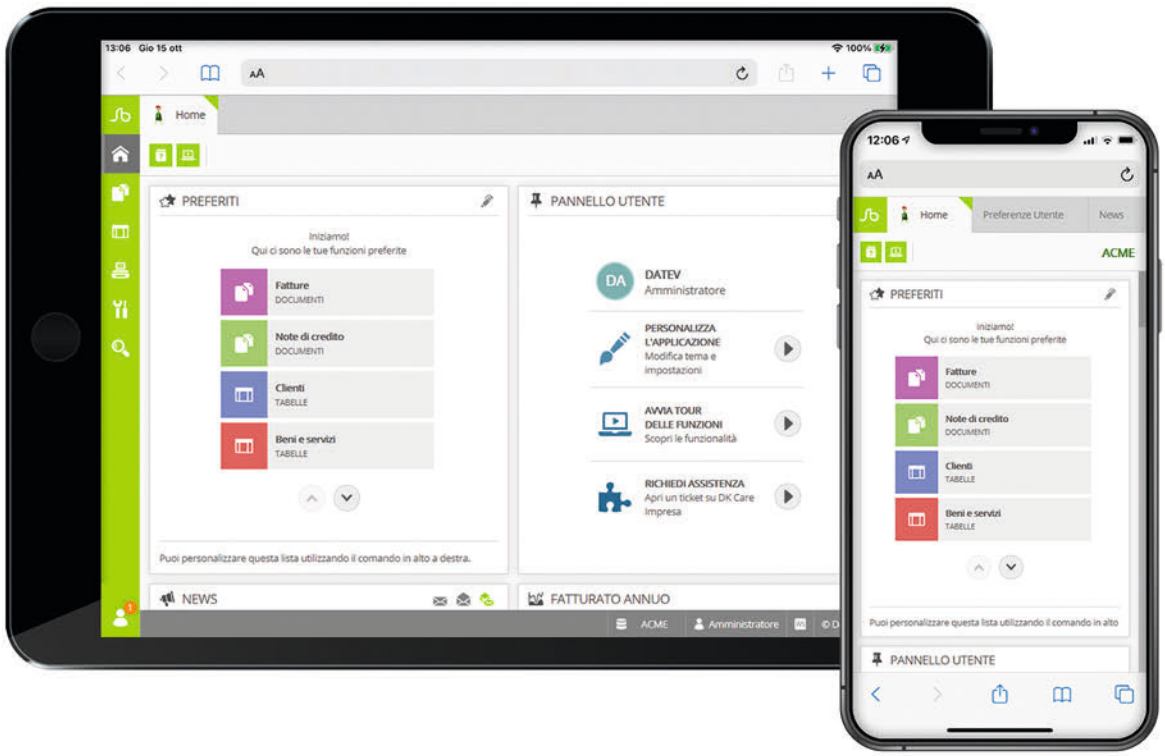
- much faster development approach thanks to the integrated pixel-perfect UI designer;
- full and native support of the keyboard in all data entry operations;
- native cross-browser compatibility of the application;
- intrinsic advantages thanks to UI components inheritance and reusability.

Ruggero Vecchio summarizes the team’s impression: “The prototype based on Wisej.NET stood out as absolutely the most advanced one: In terms of productivity we could achieve a much better result in a fraction of the time spent on the implementation of the other prototypes.”

Reliable and secure technology

Based on the experience with the first “Superbill” project, Wisej.NET was chosen to be the base technology for the development of the new generation of web based applications at DATEV.it. The best thing about Wisej.NET is that it simplifies very much some of the most difficult tasks and challenges for web developers, such as achieving a full cross-browser compatibility; or implementing a reliable bidirectional client/server communication.
To get ready for production, DATEV.it conducted a series of penetration and stress testing scenarios involving external consultants.

Wisej.NET proved to be a stable and reliable technology meeting the high expectations for data protection and IT security defined for the entire DATEV group. Wisej.NET provides a number of measures to make applications more secure and robust against some of the trickiest kinds of exploits.



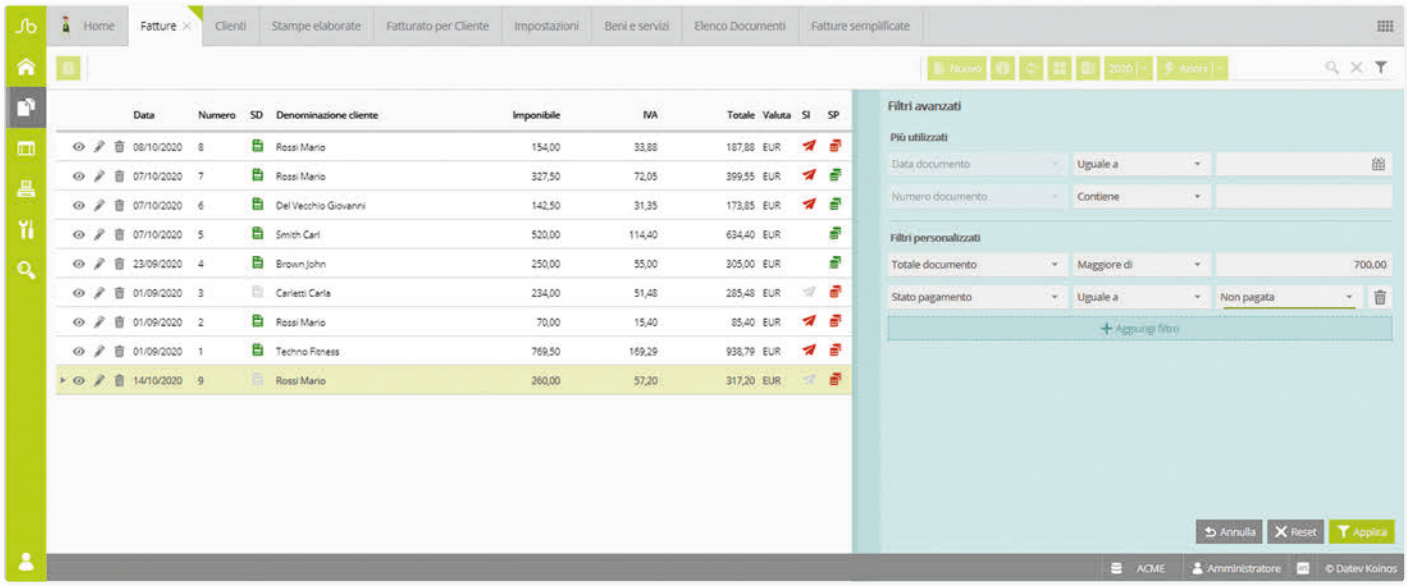
Reimagining web development – for the entire team

Wisej.NET offers some big advantages compared to the majority of alternative development technologies for the web: it can be used as a comprehensive development tool, even for very complex applications, and offers an integrated UI designer that dramatically simplifies the design of complex UIs.

When looking at the main benefits that DATEV.it enjoyed as a result of using Wisej.NET, the developer team named a number of clear advantages:

1. Flat learning curve for experienced developers coming from Windows Forms or a client/server background
2. Pixel-perfect designer with support of responsive layouts that are not prone to cross browser compatibility issues
3. Full set of UI controls to implement modern and rich user interfaces;
4. Real-time, fault-safe and bidirectional client/server communication based on WebSocket or plain HTTP;
5. Easy integration with third-party components such as DevExpress.

"We are absolutely satisfied because we could maximize the results and meet all of our planned prerequisites. Generally speaking, Wisej.NET is today probably one of the best platforms for the development of line of business software for the web." – DATEV.it



Addressing both worlds: Cloud-migration and Web development

The developers at DATEV.it pointed out that Wisej.NET is a worthy candidate for porting existing Windows Forms projects to the web; but it should also be considered as an enterprise-level development be considered as an enterprise-level development technology for projects that can be developed from scratch. Mr. Vecchio summarizes: "I would suggest anybody to give Wisej.NET a try; better if guided

through a demo that can highlight the real advantages according to the characteristics of the development project and its prerequisites.".

ITG, the company behind Wisej.NET, supported the DATEV.it team through the Technology Partner Program which, among other benefits, gave DATEV.it access to the full Wisej.NET source code: "We always appreciated the way ITG supported us along our process of adoption and then afterwards during the development phase, taking into consideration our requests for new features and reacting almost immediately to issue reports or help requests.

The ITG Partner Program, we adhered to, is really meant to establish a partnership and to offer a really effective and constructive kind of cooperation.".

Results Achieved

- Cutting-edge invoicing application delivered ahead of time and in budget.
- Increased time-to-market in a fraction of the time needed for other web technologies.
- Great UI/UX design running on all browsers, as well as tablets and mobile phones.
- Integrated "Tour panel" provides context sensitive help system for users.
- Theming system allows users to change look & feel on the fly.
- Easy onboarding and flat learning curve for existing developers.
- Wisej defined as a base technology for future web solutions.
- Built a solid base for more web solutions serving thousands of users.

About DATEV.it

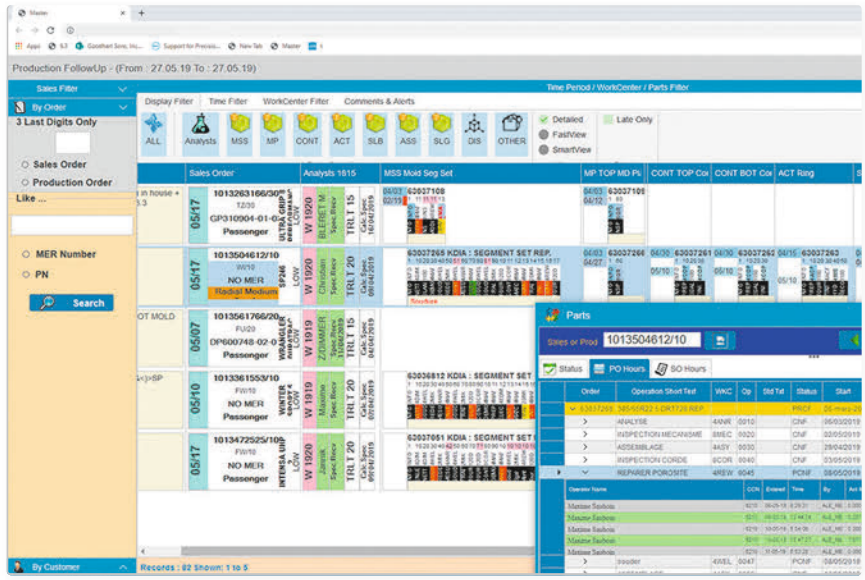
DATEV.it is an Italian software factory that belongs to the German DATEV group. Its mother company, DATEV eG, ranks at #3 of Germany's largest software companies providing IT solutions and services for tax consultants, auditors, lawyers as well as their clients.

These are supported by DATEV mainly in the fields of accounting, business consulting, taxes, and enterprise resource planning (ERP). DATEV eG employs close to 8,000 people with a revenue of 1,1 Billion EUR. The software applications developed by DATEV.it are sold under the brand name DATEV KOINOS. Thousands of Italian tax advisors' offices and their clients make use of DATEV.it solutions for accounting, tax declarations, balance sheet, office and document management, pay slips, and billing.

www.datev.it - www.datev.de

Goodyear

Wisej.NET supports Goodyear shop floor production process



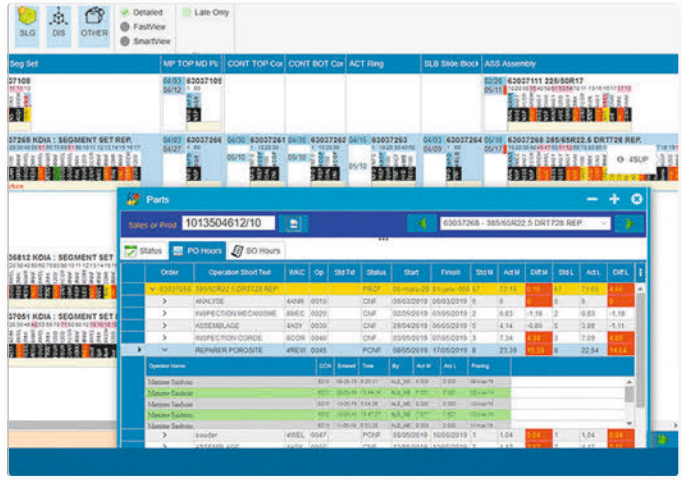
Goodyear implements real-time production monitoring and shop floor RFID system using Wisej.NET in a fraction of the time when compared to other web technologies.

In one production plant, Goodyear used Wisej.NET to develop a production follow-up system, which is interfaced with SAP and MES.

The system monitors around 30,000 operations in the production activities at a given time. "To follow live such an amount of data, we had to build a visual interface specific to our needs, where each shown text or color has its meaning for the production planning team. Currently the GUI has many information packed in it, that it allows people to take the right decision straight from the interface, without going to the linked systems" says Eric Mathay, lead developer for the application.

Once the team is on the shop floor, they use an RFID Bluetooth scanner attached to a tablet. The need was to have the web application shown on the tablet and update the GUI based on the scanned data in real time. From the tablet the scanned data is sent to a message server and the Wisej.NET application gets notified using the message server library running as a background task. By using Wisej.NET, updating the web applications GUI on the browser from the background task is very easy.

Despite being a browser-based application, the user experience is fast and smooth with tight integration of RFID scanners similar to a local application setup. This subsystem was created in less than 2 hours!



Goodyear's software engineers also developed an internal Wiki in a matter of few weeks, featuring Active Directory authentication, hierarchical documents selection, online documents editing, full pages management, folders management, upload of documents, back-end file storage, video tagging during upload, etc. This application is currently being used as the unified document viewer for the shop floor.

Core Benefits of Wisej.NET

Wisej.NET claims to enable business web development to be much faster than other web technologies. "We can easily confirm it from our experience with the product. Through the use of the IDE and all its inherent benefits, Wisej.NET transforms visual components into accurate representation of the UI.". Eric continues: "We found the Wisej.NET concept to be unique in the JavaScript development ecosystem. After all, the concept of a Visual IDE greatly helped to the success of the Microsoft "Visual" products line. Due to the fact that we develop for our internal needs, the latest GUI fancy stuff wasn't a key decision factor in the product selection (this doesn't mean that Wisej.NET lacks fancy UI support), but we rather focused on the speed of development."

One of the key characteristics of Wisej.NET is its openness to other environments, which really allows for a lot of integration scenarios. In fact, "most of the time the limitation isn't the product itself but your knowledge on how to take benefit of the vast possibilities it offers.". Wisej.NET is constantly enhanced by listening to the developers using it in all kinds of business web applications. "In fact they have the same kind of dynamic as an open source product with a good community, but in a commercially supported product. The professional and reactive support given through the Wisej.NET forum is also an important and mandatory part of a good development framework.".

About Goodyear Tire

The Goodyear Tire & Rubber Company is an American multinational tire manufacturing company founded in 1898 by Frank Seiberling and based in Akron, Ohio.

Goodyear manufactures tires for automobiles, commercial trucks, light trucks, motorcycles, SUVs, race cars, airplanes, farm equipment and heavy earth-mover machinery. It also produced bicycle tires from its founding until 1976. As of 2017,

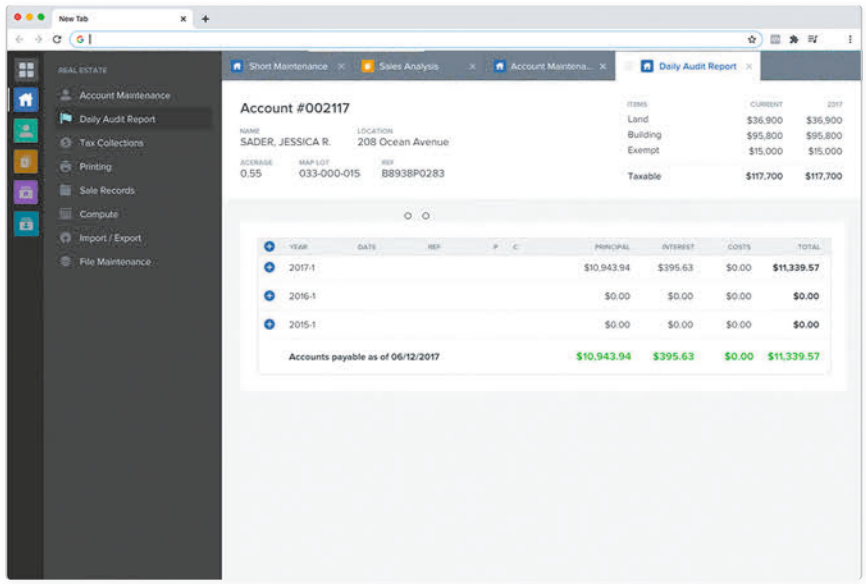
Goodyear is one of the top four tire manufacturers along with Bridgestone (Japan), Michelin (France) and Continental (Germany).

Results Achieved

- Fast development.
- Real time server to browser updates.
- Easy integration with third party widgets.
- Rich and responsive web interface.
- Seamless integration with other systems (SAP, MES, RFID scanners).

Harris

Wisej.NET Helps Harris Local Government Modernize one of their Product Software Suites



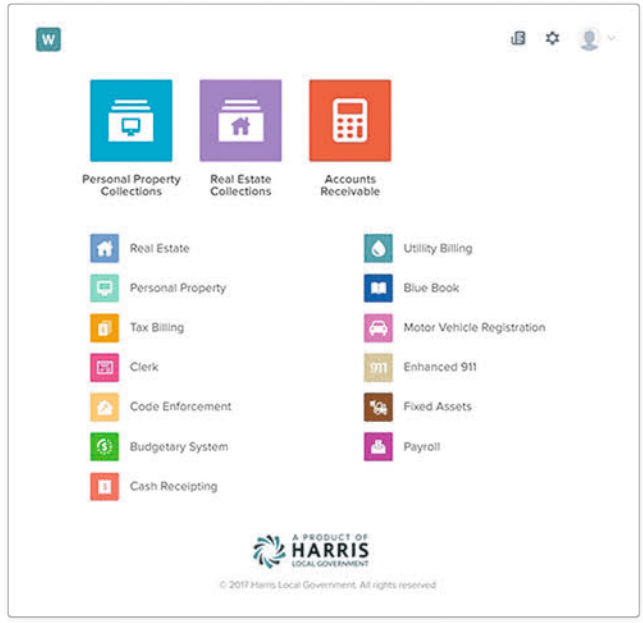
Harris replaces 150 Visual Basic 6 applications with an integrated web based architecture and a modern user interface.

Harris' software suite is a proven software package that meets the needs of small to large municipalities, counties and water and sewer districts. Local governments benefit from a wide variety of solutions such as vehicle registration, real estate, personal property, and utility billing. The software suite includes financial modules such as accounting, fixed assets, and payroll.

Dave Wade, Development Manager at Harris Local Government, explains: "We are moving from separate Windows applications developed in Visual Basic 6 and decided to design an integrated web-based solution. Wisej.NET seemed to make this transition easier for us to handle.".

The team at Harris has experience with the Microsoft technology stack. Therefore, C# was chosen to be the preferred language for replacing VB6 application that have been running for 15 years. "When we looked for alternatives, we contemplated sticking with Windows, trying to do the upgrade inhouse, and also completely rewriting the solutions with new technology".

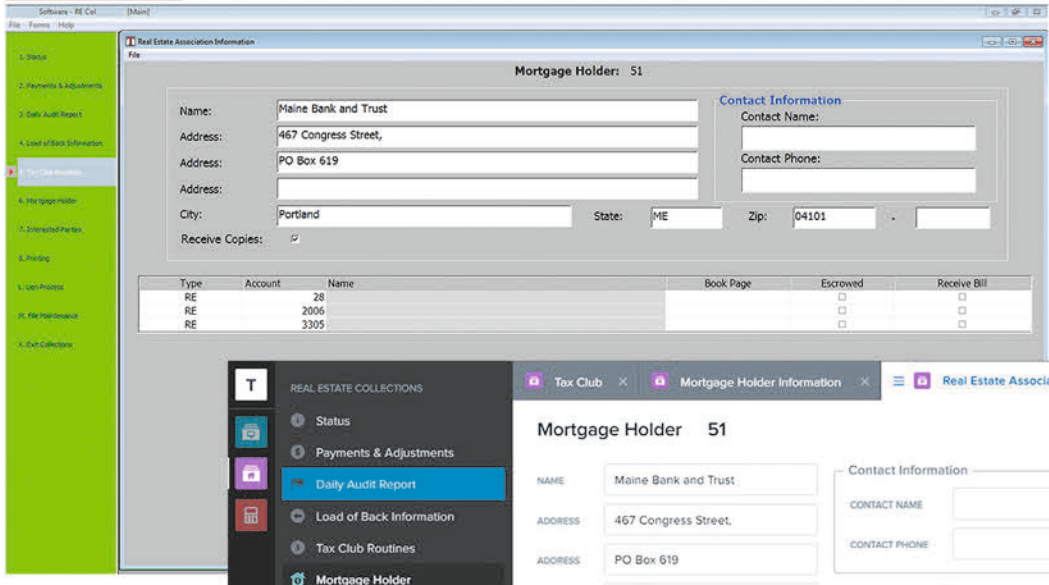
In the end, Wisej.NET allowed Harris' team to upgrade their technology stack at a reasonable cost in a relatively short period of time.



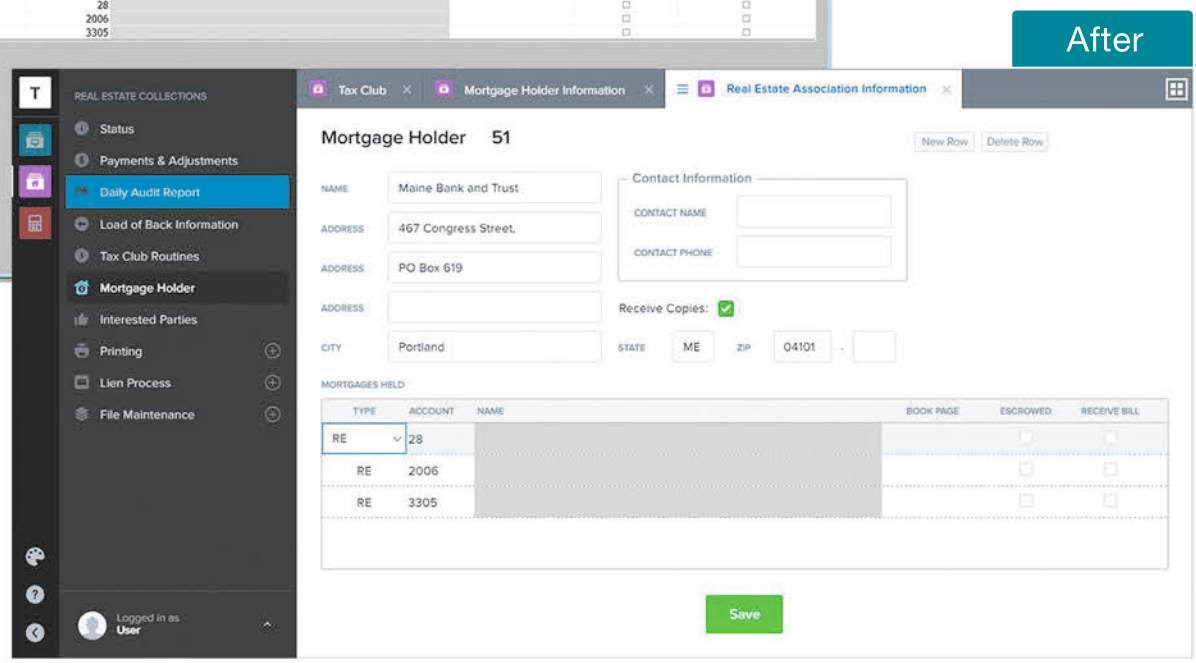
Core Benefits of Wisej.NET

Going from Windows to the Web is a large change for programmers. For Harris, it was essential to leverage the existing investment in business logic and approach a low-risk high-speed modernization approach. Dave continues: "Our new product will be available for our customers much faster than it would have if we had decided to take another route.". This comes with a positive side effect: "Wisej.NET wraps up a lot of the web functionality and developers can still write code similarly to the way they did for Windows applications making for an easier transition.".

Before



After



Proven Code Stack, Up To Date Technology, Modernized Ui

The outcome so far is truly promising. Within a matter of two years, the entire suite suite of applications will be taken from 150 separate VB6 applications into a unified, modern, and integrated web-based solution.

Independent UI experts have designed the new User Interface for Harris' web software suite, and thanks to Wisej.NET's theming engine, the existing code works the new UI to deliver beautiful screens and a

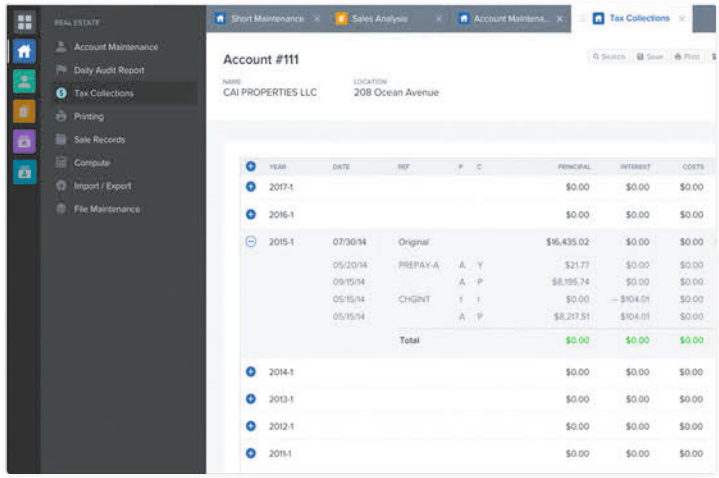
much-improved user experience. Customers benefit from new search functionality, a multi-tab interface, a customized home screen, and many more new features based on all the capabilities built-in the Wisej.NET platform.

About Harris Local Government

For over 30 years Harris Local Government has empowered public sector leaders by providing specialized, mission-critical software designed specifically to meet their fund accounting, human resources, regulatory, and billing needs. Our portfolio of innovative solutions combined with our staff's extensive experience allows us to help our clients revolutionize their internal processes so they can serve their communities better.

We proudly serve over 5,500 small and mid-sized municipalities, counties, utility districts, and park districts throughout the United States reducing financial risk and driving efficiencies.

Harris Local Government is a division of Harris Computer Corporation and its parent company, Constellation Software, which serves over 125,000 customers in over 100 countries relying on its innovative public and private sector software solutions.

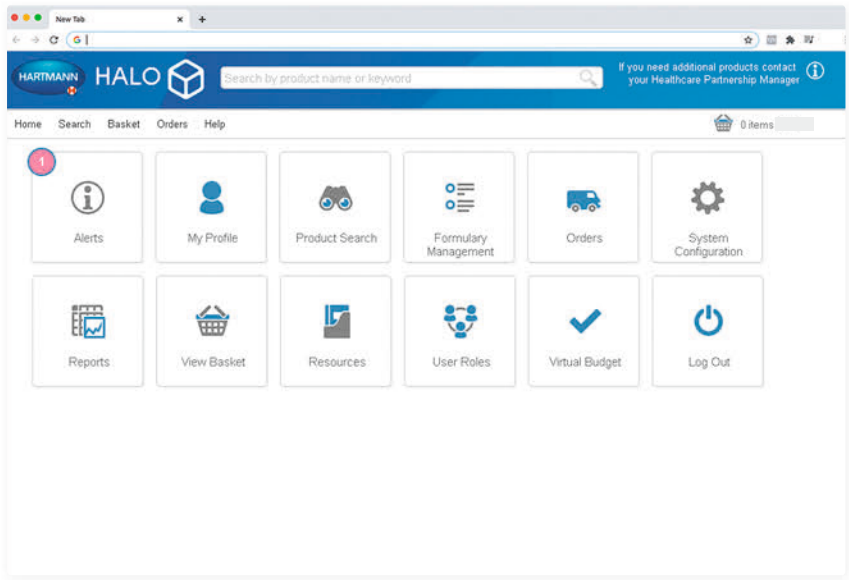


Results Achieved

- New cross-platform browser-based technology.
- Broad accessibility for Internet-enabled devices.
- Easier installation & maintenance.
- Save $$ on hardware and deployment costs.
- Clean, simple, elegant modern user interface.
- Accessibility improvements.
- Short turnaround time.

Hartmann Group

Wisej.NET Powers Ordering and Fulfillment Processes



Leading Manufacturer for Healthcare Products Optimizes Distribution for NHS Professionals in the UK based on .NET and Wisej.NET

HARTMANN has challenged healthcare conventions for the last 200 years as a leading supplier of solutions for wound care, incontinence, disinfection, and surgical efficiency. With presence in 30+ countries, the group employs more than 10,000 staff worldwide. The Wisej.NET framework was chosen as the best candidate for HARTMANN's customer-facing solution, Hartmann Advanced Logistics Ordering (HALO). This application simplifies ordering, approval, and fulfillment of wound care products for health professionals in the United Kingdom.

HALO implements functionality common to online ordering systems e.g. searching for products from different providers, placing in a basket, proceeding to order. It enhances ordering functionality with administrative approval and management of restricted products, formulary set-up, budget control and provides live feedback on order progress by managing the fulfillment process end to end. Christopher Turner, Senior Manager - Digital Platforms at Paul Hartmann Ltd., explains: "HALO is primarily used by Health Professionals employed by the National Health Services (NHS) and in Nursing Homes. By choosing a custom approach with .NET and Wisej.NET we were able to design the application exactly to our specific requirements while keeping a clean and easy to use interface for our users."



Considerations for Choosing Wisej.NET and Microsoft .NET

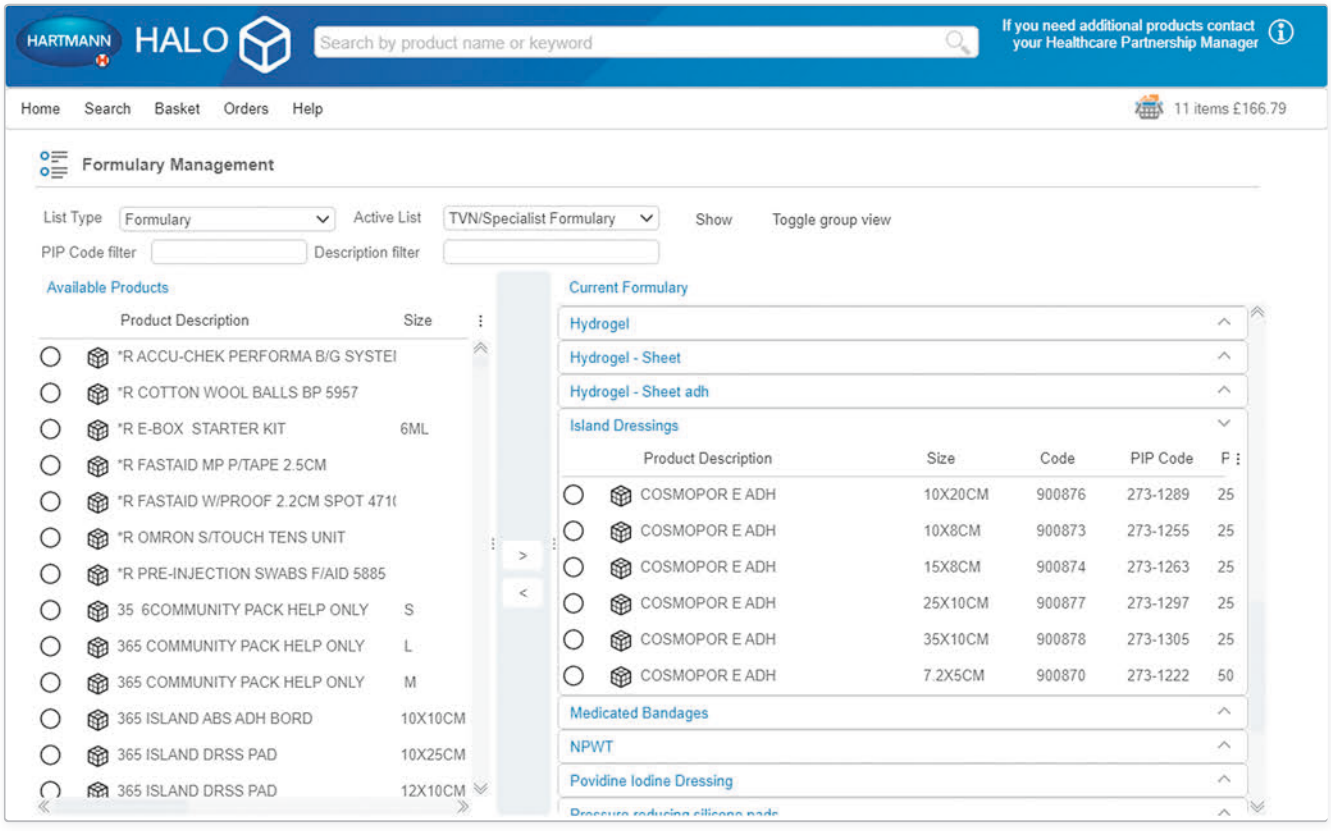
HARTMANN strives to help shape the healthcare systems of the future. To address the needs of an aging population, the group continues to go further with innovative products and game-changing service solutions. When Chris and his team looked at possible approaches to address digital transformation, they had to address a number of requirements: "We consider many things before choosing tools for a project. Community trends, future support, development team skills and enterprise strategy are all important."

The programming background of his team is .NET business applications in a Microsoft-based stack. Therefore, Wisej.NET presented a product that built on the developers existing skills in a web-based and highly functional environment.

In addition, previously developed .NET libraries could be adapted for reuse within the Wisej.NET solution. "Wisej.NET delivers what it promises. It is a stable, secure product and can be relied upon to deliver a frontline application in a variety of browsers with less time spent on the quirks of web UI rendering and more concentration on functionality."

Alternative technologies like ASP.NET MVC, Razor pages or various JavaScript frameworks did not reach the expectations required for the HALO project: "We are especially enjoying the following benefits because of using Wisej.NET:

1. Pixel perfect control over UI and layout
2. Extensive toolbox and integrations
3. Flexible visual theming system."



Addressing the Needs for Line-of-Business Applications

When developing applications for the Healthcare industry, reliability and security are top priorities to address. Chris summarizes: "Wisej.NET has an active development track with progressive enhancements. It presents a minimal client footprint in an abstracted model that ensures security and performance. Ice Tea Group has realized Wisej.NET as a well-supported commercial offering. The product worked as documented. The forums are useful with practical responses and examples from the devs, as are the regular releases and news of forthcoming features.".

HARTMANN enjoyed great productivity through the minimal learning curve that Wisej.NET offers for existing .NET developers. Development teams can realize low-code solutions by employing existing business knowledge and logic from internal teams to quickly build enterprise-grade solutions. "Wisej.NET should be considered for quickly realizing web-based business models for specific use cases or prototype minimum viable products. It scales well so if adopted for productive use Wisej.NET can support a large user base, internal or external, with economical license costs.".

Results Achieved

- Online ordering and procurement solution for the healthcare sector
- Integrated application leveraging existing business logic and system interfaces based on Microsoft .NET
- Short time-to-market, great user acceptance
- Modern and economic software solution thanks to Wisej.NET
- Digital transformation approach for nursing homes and NHS professionals

About Paul Hartmann Ltd.

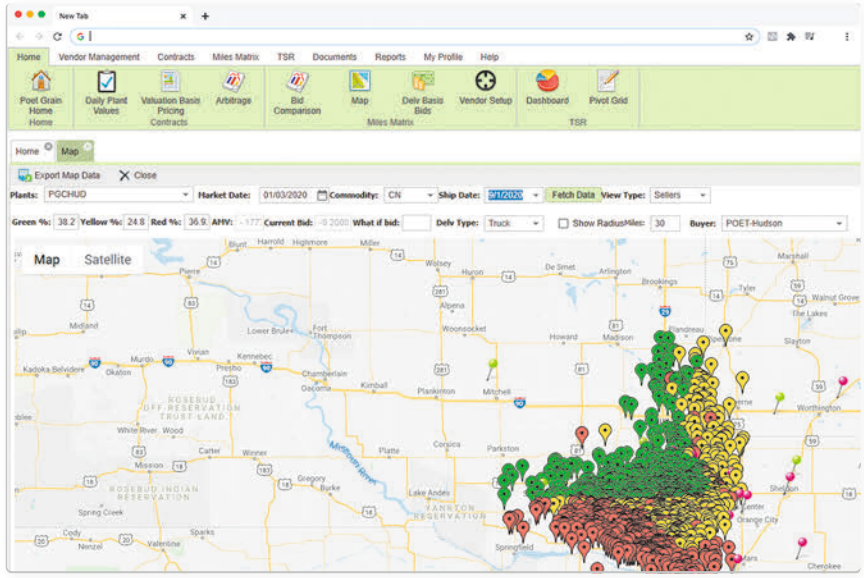
Paul Hartmann Ltd. (UK and Ireland) operates in Greater Manchester, England, with a focus on Healthcare Product Distribution. It belongs to the German HARTMANN group who is a leading international manufacturer of medical and hygiene products with more than 10,000 employees working in more than 30 countries.

https://www.hartmann.info/en-gb/

Wisej.NET

Poetep

Wisej.NET Rapid Development Supports the Changing Needs of the Ethanol Industry

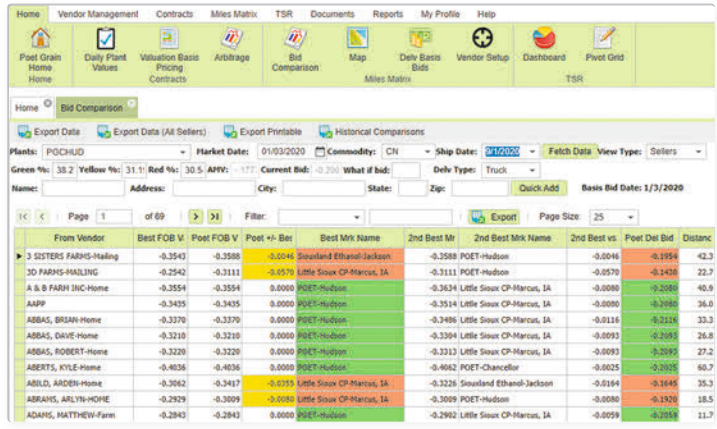


POET Ethanol Products uses Wisej.NET to support their internal, external, and plant users through different supply chain applications.

When Visual Web GUI went out of business Tim Larson and the developers at POET needed a solution to their software issues. After doing some research, they decided Wisej.NET was the way to go. With Wisej.NET as the practical solution, they found that it would allow them to meet the productivity demands of their internal and external clients throughout the supply chain.

Core Benefits of Wisej.NET

The unparalleled flexibility of Wisej.NET as a web technology has been apparent to POET as they've evaluated its capabilities. "Wisej.NET is a very flexible tool and the ability to get up to speed and produce meaningful productivity software is so much better than anything we have encountered on the market" – Tim. Wisej.NET has simplified the integration of numerous third-party frameworks such as Syncfusion's Essential JavaScript and DevExpress' DevExtreme component libraries and offered them to Technology Partners to further fast-track their development. Something that doesn't always get the spotlight is the customer service provided by web technology companies. Tim made sure to note his experience with Wisej.NET. "The support [of the Wisej.NET team] is second to none and we have always been taken care of". He continued, "Wisej has been exceptional and they are always there to quickly help you resolve issues as they arise.".



Listening to customer's needs and working with them to find a solution to their issues allows Wisej.NET to constantly develop and become an even more robust platform for web developers.

For web developers that need to create productive software within a reasonable timeframe, Wisej.NET appears to be a winner. "The majority of our software is written in-house to give us the ability to adapt quickly to changing markets and business requirements. Our in-house software deals with customers, plants and internal company users.".

Results Achieved

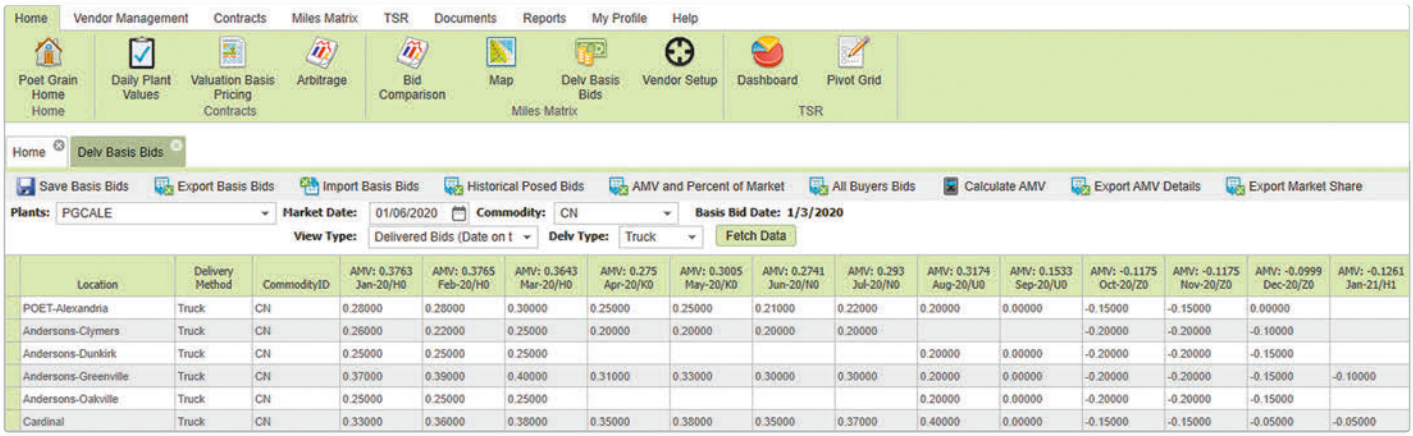
- Increased Productivity.
- Flexibility to respond quickly to market needs.
- A platform to manage all aspects of the supply chain.
- Dedicated support and implementation of requested features.

About POET Ethanol Products

POET Ethanol Products is a global leader in the energy and agricultural space, driven by responsible value creation in our industries, communities, and planet. Our roots developed as a supplier of fuel ethanol, and have grown into a multi-commodity and transportation based company providing solutions in grains, fuels, and carbon dioxide markets.

markets. As the largest supplier of ethanol in the world, we believe in both the value and benefits of driving a renewable solution to global energy needs, and focus on creating a better path forward in all our related industries.

poetep.com

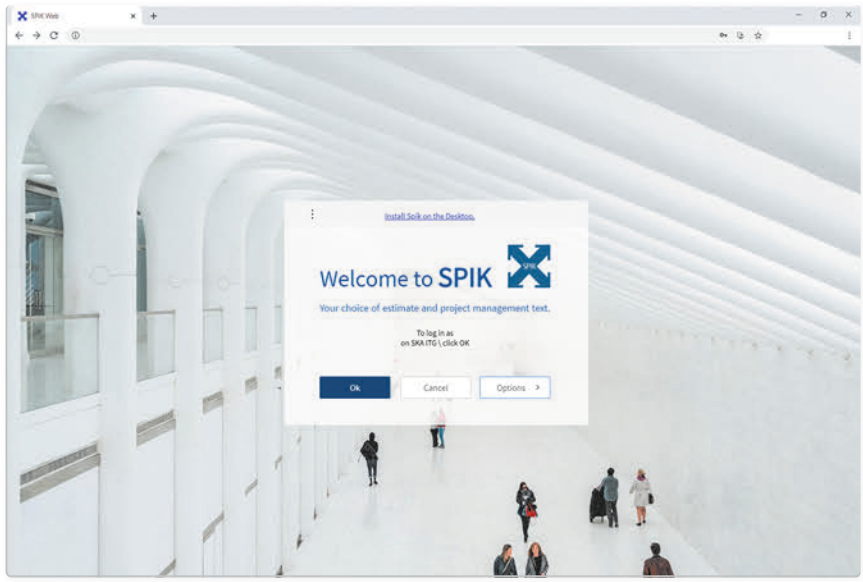


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Andersons-Clymers	Truck	CN	0.26000	0.22000	0.25000	0.20000	0.20000	0.20000	0.20000			-0.20000	-0.20000	-0.10000	
Andersons-Dunkirk	Truck	CN	0.25000	0.25000	0.25000					0.20000	0.00000	-0.20000	-0.20000	-0.15000	
Andersons-Greenville	Truck	CN	0.37000	0.39000	0.40000	0.31000	0.33000	0.30000	0.30000	0.20000	0.00000	-0.20000	-0.20000	-0.15000	-0.10000
Andersons-Oakville	Truck	CN	0.25000	0.25000	0.25000					0.20000	0.00000	-0.20000	-0.20000	-0.15000	
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Wisej.NET

Skanska

Wisej.NET helps migrate Skanska's Project Management Application for 4,500 users



Thousands of construction sites for critical infrastructure across the globe benefit from Wisej.NET as a rapid web-enabling technology for their project management processes.

With around 32,500 employees worldwide, Skanska is one of the world's largest construction and project development companies. The group is known for realizing complex construction sites across Europe and the US such as airports, bridges, homes, hospitals, power plants, as well as railways, roads, schools, and tunnels. As a multinational company, the group currently has 10,000 ongoing projects, which are located throughout Central Europe, the UK and the United States. In order to coordinate, manage, and calculate these projects, Skanska has developed an in-house application called "SPIK" that is used by all construction sites and offices within Skanska Sweden. The software suite addresses the specific needs for complex project planning which include cost calculation and reporting requirements.

Christer Lindström works as an application specialist with Skanska Sweden IT AB. He explains: "SPIK covers the whole building process from early cost estimates to the end of project warranty. SPIK has functions regarding bidding and estimating, financial control, risk and opportunities, change management and purchase."

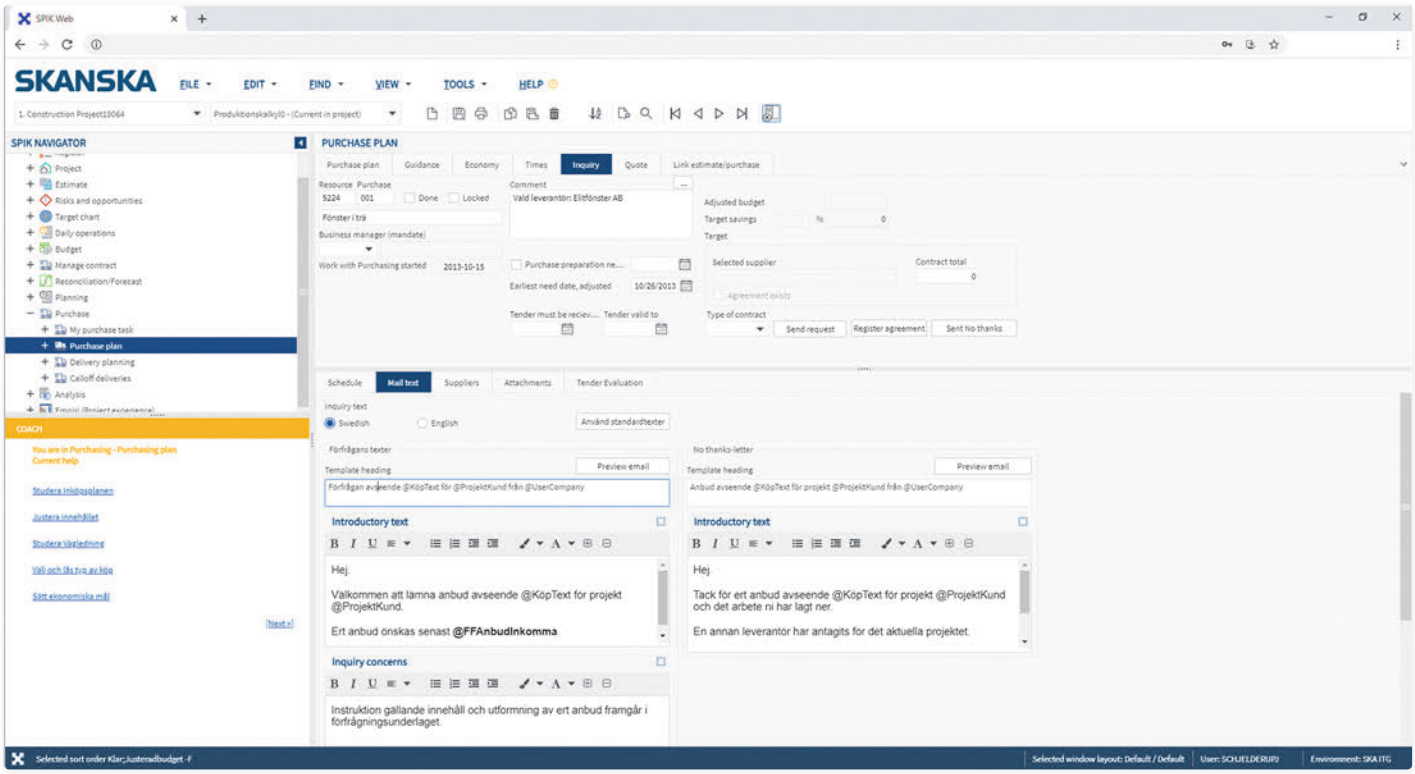
Web Migration for 850 forms and dialogs

Skanska's goal was to modernize the existing desktop application (SPIK) to become a web-based solution. The team around Christer started a market analysis and defined requirements that they considered important for creating a better and more future-proof solution.

"We also identified several risks in continuing to maintain the old solution, which was partly based on old technology. We then sent a request to a few selected suppliers, including Ice Tea Group (ITG) to help us modernize the application."

The existing client application needed to either be rewritten completely or converted with retained functionality, leaving the backend (web services, databases, etc.) unaffected.

The old application was to be used in parallel with a gradual implementation of the new one, so that the existing client could be phased out step-by-step.



Application Modernization at a fraction of the cost

During the procurement phase, Skanska evaluated the Wisej.NET framework and compared it to other proposals for a rewrite of the software.

"We immediately saw that a migration with Wisej.NET would be much cheaper compared to other alternatives. In the end it became a cost issue as to why ITG was chosen as supplier."

Originally, Skanska had other plans and wanted to rewrite SPIK from scratch. "This approach proved to be a big risk regarding cost and complexity", Christer summarizes. A web-enabling solution based on Wisej.NET stood out as the fastest, most cost-effective, and failure-proof approach. Therefore, the decision was easy to make for Skanska.

The proof of concept with parts of the SPIK application running in the browser was delivered after two weeks. The core project, without quality assurance, was able to be migrated in seven months, including UI optimizations provided by Ice Tea Group's UI/UX designer.

Ice Tea Group estimates the effort for a full rewrite of an application of this magnitude to be about 27-man years, not including the risks associated with rewriting. Such a quick turnaround provided other advantages that are not immediately apparent. Due to the shortened time frame, the development team at Skanska was able to include several small feature enhancements before the first release. With the migrated application delivered by the ITG team, users

could compare the old Windows-based solution and the same application running in the browser – connecting against the same database.

Another financial element to consider is the reduction of license costs for Citrix and other components needed to deploy classic Windows software for several thousand users. The SPIK development team was able to cut down on release cycles by employing modern deployment practices. Before the web-based application, a new release took up to four weeks to deliver to 4,500 users. With the new solution, the time frame for deployment was aggressively reduced to a few hours.

Wisej.NET also helped to keep the application usage and Help System intact, so much so that the comprehensive application handbook at Skanska did not have to be rewritten.

Low-risk, great turn-around

Wisej.NET provided great economics: "It worked very well since we could proceed to work in a well-known environment where we could continue as before. The experience of Wisej is good. It feels robust and easy to use", says Christer. "Working with Wisej.NET/PPJWeb has also increased productivity with significantly faster release cycles than before."

Results Achieved

- Full web migration of a comprehensive Windows application for project planning and calculation of large construction sites across Sweden.
- Wisej powers 1,000 concurrent and 4,500 total users with great performance and scalability.
- New version identical or faster in all areas.
- Preserved data, reports, application algorithms with guarantee.
- Cut down on deployment cycle from 1 month to 1 day.
- Web-enabling accomplished within 1 year (all-in) compared to the expected 27 man-years for a manual rewrite.

About Skanska AB

SKANSKA was founded in 1887 as a concrete manufacturer in Stockholm, Sweden. Today, the organization has grown to be one of the world's leading project development and construction groups in the world with projects such as the M25 Motorway in the UK or the LaGuardia Airport redevelopment in Queens, USA. SKANSKA is active throughout Europe and North America realizing civil work projects (tunnels, roads, railways and bridges), buildings (homes, commercial properties, schools, hospitals) and more.

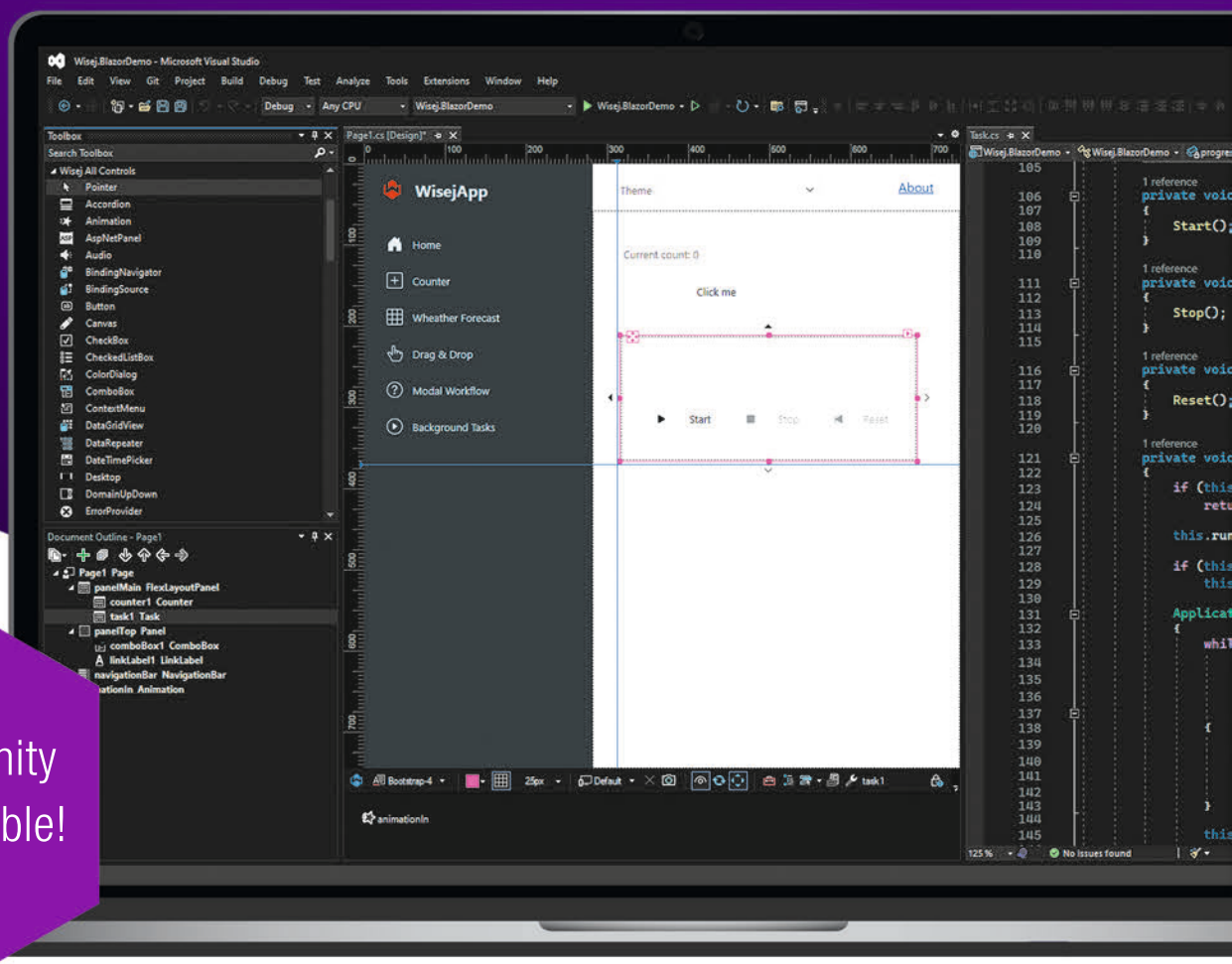
https://www.skanska.com/

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Wisej.NET

What You See Is What You Get (WYSIWYG) Web-Framework with UI-Designer for Visual Studio



Free Community Edition Available!

Build enterprise-scale web applications in C# or VB.NET.

100+ controls and open-source extensions available!

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