

# CADISON<sup>®</sup> WORLD

EXPERIENCES & NEWS

## Integrated Engineering with the Single-Source-of-Truth





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Dear CADISON Customers,

Welcome to the CADISON International Conference 2023! This year we're here again after 4 long years, during which we conducted 3 of our annual customer conferences online due to the pandemic.

We assume that this year's CIC theme is of great interest to you all: Integrated Engineering with a Single-Source-of-Truth. CADISON with its unique architecture and a centralized database, empowers you to perform disparate engineering operations while accessing the same data. Unlike the costly implementation of a separate PDM/PLM systems that companies invest for efficient data management, CADISON inherently offers such capabilities. Our customers, who embraced CADISON more than as a simple CAD system, have gained data-driven intelligence, significant value, and a competitive edge.

**Leap of Progress:** CADISON R23 introduces a web-based, data-driven viewer for seamless collaboration on any hand-held device or desktop. One can view, track and manage an entire plant, down to a single component level like nuts or bolts! Notable enhancements include Scan-to-Pipeline, improved 3D PDF & PDF Redlining collaboration, Submittals, Unreal Engine integration for AR/VR capabilities and so on.

**A notable update:** ITandFactory is now a DEXPI member! We've begun implementing steps in CADISON R23, and we'll showcase this progress along with our interoperability roadmap.

Neilsoft's new Global Innovation Center in Pune, India, is driving initiatives in Geometry & Interoperability, Legacy/Scanned Data Conversion, AR/VR/vision systems, Generative Design, Automation/IoT and Cloud Technologies, paving the way for future CADISON enhancements.

In order to support our expanding customer base, we're growing our Global Engineering and Software Services team and providing unique cost-effective alternatives for our users in DACH and India market. In addition, we now have a new reseller for Slovakia, Hungary, and Romania. Additionally, we'll focus on expanding our presence in the UK, North America, and Japan in the upcoming months.

**Exciting times ahead for ITandFactory and CADISON! We'll keep you posted on our progress.**

Sincerely,

Your CADISON Team

# Streamline Plant Design with CADISON - An Integrated, Multi-disciplinary Solution with Single Source of Truth for Plant Engineering

In the ever-evolving field of Process Industry and Plant Engineering, efficient data management and collaboration across multiple disciplines are paramount for successful project execution. CADISON, complete Digital Plant Design Solution, offers a comprehensive platform that enables seamless integration, ensuring accuracy, efficiency, and collaboration throughout the Plant Engineering Lifecycle.

**The Power of a Fully Integrated Platform:** CADISON serves as a centralized hub, connecting and consolidating data from various engineering disciplines such as Basic & Detail Engineering of 2D and 3D Designs, Piping & Instrumentations, Electrical Designs, etc. This integration eliminates data silos, enhances data consistency and promotes interdisciplinary collaboration, creating a unified, single source of truth. By bringing all stakeholders onto a common platform, CADISON fosters a shared understanding, leading to improved decision-making and reduced risks in the Plant projects. By ensuring a consistent data or information flow and simplifying the documentation, CADISON manages all the phases of the asset lifecycle: Conceptual Design, FEED, Detail Design, Procurement, Construction & Commissioning, Operations & Maintenance, Modernization and Revamping.

**Data Consistency and Accuracy in Plant Engineering:** CADISON plays a pivotal role in maintaining data consistency and accuracy in the complex landscape of Plant Engineering. By serving as a single source of truth, it ensures that all engineering disciplines, including process engineering, instrumentation and control, electrical engineering, and mechanical engineering, work with up-to-date and synchronized information. Any changes made in one discipline are automatically reflected throughout the entire system, avoiding discrepancies and reducing errors. This unified approach minimizes rework, saving time and costs associated with data inconsistencies.

**Efficient Collaboration and Communication from Concept-to-Commissioning:** CADISON facilitates effective collaboration between different teams or disciplines within the company or multisite location by providing a common platform for communication and data exchange. Engineers can easily access and share information, documents, and models, breaking down communication barriers and fostering teamwork. The integrated environment allows for complete cross functional collaboration, ensuring that all stakeholders are working on the most current data and promoting seamless coordination among disciplines in plant engineering projects.

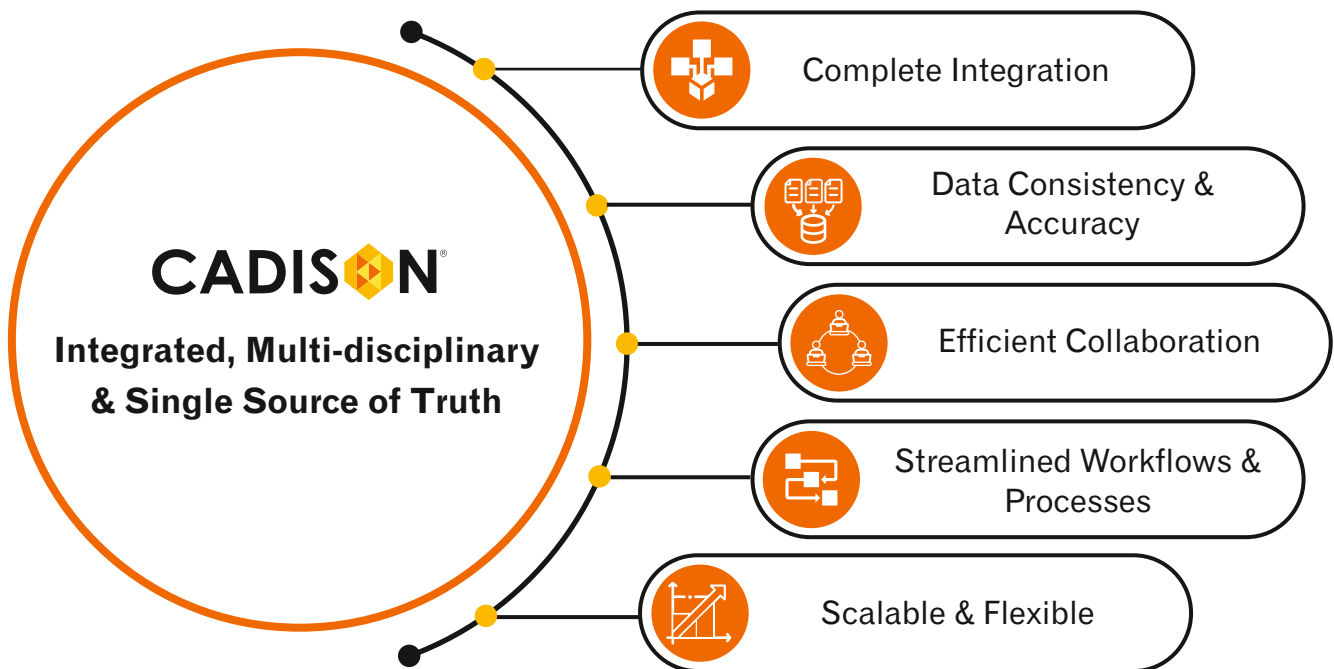
**Streamlining the Design Engineering Workflows and Processes:** With CADISON, complex workflows and processes in Plant Engineering are streamlined, leading to increased efficiency. Engineers can create and manage process flows, instrumentation diagrams, equipment specifications, and more, all within a unified system. This integration eliminates the need for manual data transfers, reduces errors caused by duplicated efforts, and accelerates project timelines in the Process Industry. As a result, Plant Engineering projects can be executed with greater agility, meeting deadlines and exceeding expectations.

**Modular, Scalable & Flexible Platform for Process Industry:** CADISON is highly scalable and flexible, accommodating projects of varying sizes and complexities within the Process Industry. Whether it's a small-scale plant or a large industrial facility, CADISON can adapt to the specific requirements of the project. With its modular structure, CADISON allows for seamless integration with existing systems and tools. Thus it provides a tailored solution that aligns with the unique needs of each organization in Plant Engineering.



In the dynamic realm of Process Industry and Plant Engineering, achieving a seamless flow of information in an integrated and multi-disciplinary manner with a single source of truth is vital for success. CADISON removes barriers between various disciplines collaborating on a plant project. It ensures a continuous flow of information without data loss throughout each phase of the plant's lifecycle. All project divisions and users have constant access to the latest & updated system data across diverse sites, regardless of the time zones. This streamlines the process of integrated and consistent planning and documentation.

CADISON delivers a complete assistance for the planning and generation of documents, the automated dissemination of documents, the import and export of documents, as well as the management of revisions, and archival processes.



CADISON serves as a game-changing solution, enabling the amalgamation of data from diverse engineering disciplines into a unified platform. Through improved data consistency, streamlined workflows, efficient collaboration, and scalable flexibility, CADISON as a complete Plant Engineering Solution empowers organizations in the Process Industry to achieve greater efficiency, reduce costs, and successfully execute Plant Engineering Projects. By embracing this integrated approach, engineering companies can unlock their true potential and thrive in the ever-changing landscape of the Process Industry.

## Highlights of CADISON R23 - Enhancements & Updates

## Experience the 4C's of Digital Plant Engineering with CADISON R23

With CADISON R23 experience the unified power of **4C's** - Consistency, Collaboration, Connectivity, and Cost Efficiency. This version boasts usability enhancements driven by insights, feedback, and demands from our valued key Users, fortified by the CADISON Core support teams, as well as fixes for user-reported issues received through CADISON Helpdesk. The new CADISON R23 empowers you to leverage CADISON Project data for enhanced collaboration, review, and visualization.

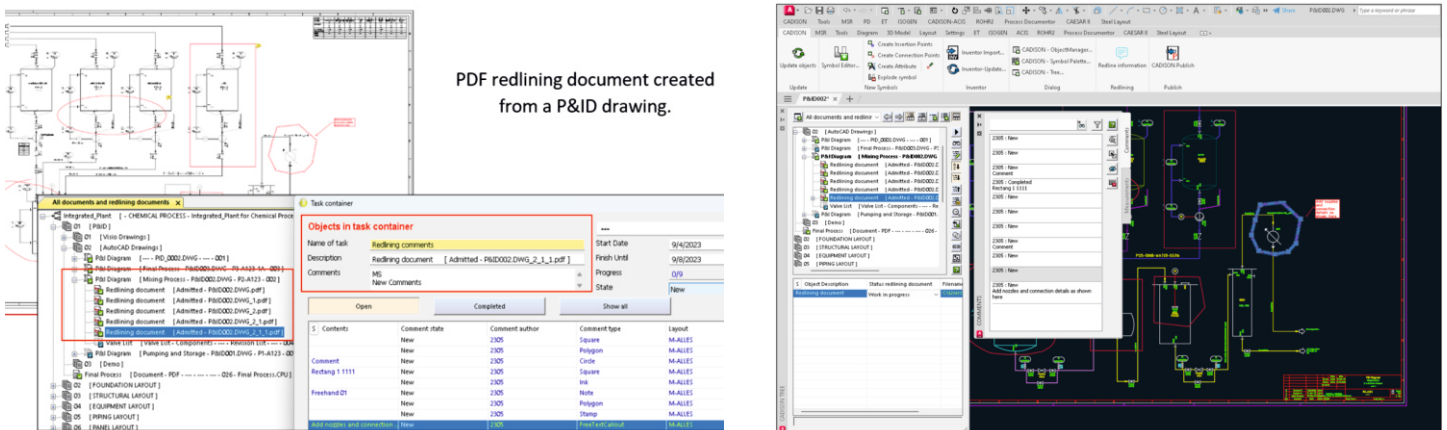
**CADISON R23 is available on AutoCAD 2024 and earlier versions**

CADISON R23 is compatible with AutoCAD 2024 on Windows 10 and Windows 11 with 64-bit support. It also supports AutoCAD 2022 and AutoCAD 2023 for customers who opt for a multi-year migration cycle with AutoCAD, ensuring they can still access and enjoy the latest enhancements and benefits of CADISON R23.

## Streamlining Collaboration with PDF Redlining in CADISON R23

CADISON R23 introduces a new revolutionary feature for seamless collaboration of drawing files in larger teams at the project level. This functionality addresses the need for independent redlining capabilities, allowing Stakeholders, including non-CADISON Users and Customers, to review drawing files and add annotations without any CAD system access.

- **Create, View & Collaborate Effortlessly:** CADISON R23 achieves this by creating a PDF redlining file for a drawing, which is automatically stored in the CADISON project database. If the source drawing is 2D, a standard 2D PDF file is generated. For 3D source drawings, CADISON produces a 3D PDF file capable of embedding CADISON object data as metadata within it. This metadata is linked to the 3D geometry of the PDF file, allowing Users to click on a 3D object in the PDF to display associated metadata.
- **Annotate and Share with Ease:** Users and reviewers can utilize any standard PDF viewer to review drawings and leverage annotation and redlining functions. And finally, the redlining notes are brought in CADISON Designer, for the Designers to update Object data and designs as per the Redline notes received. The Project Managers and Super users can use the Task Container to add Start and Finish dates for timely delivery.



- **Seamlessly Integrated with CADISON Designer:** This integration allows CADISON Designer & Users to see detailed redlining information directly within the source drawing, and within their CADISON environment. This feature extends to 3D PDF files, allowing 3D comments and annotations to be seamlessly integrated into CADISON Designer, providing a comprehensive view of redlining data.



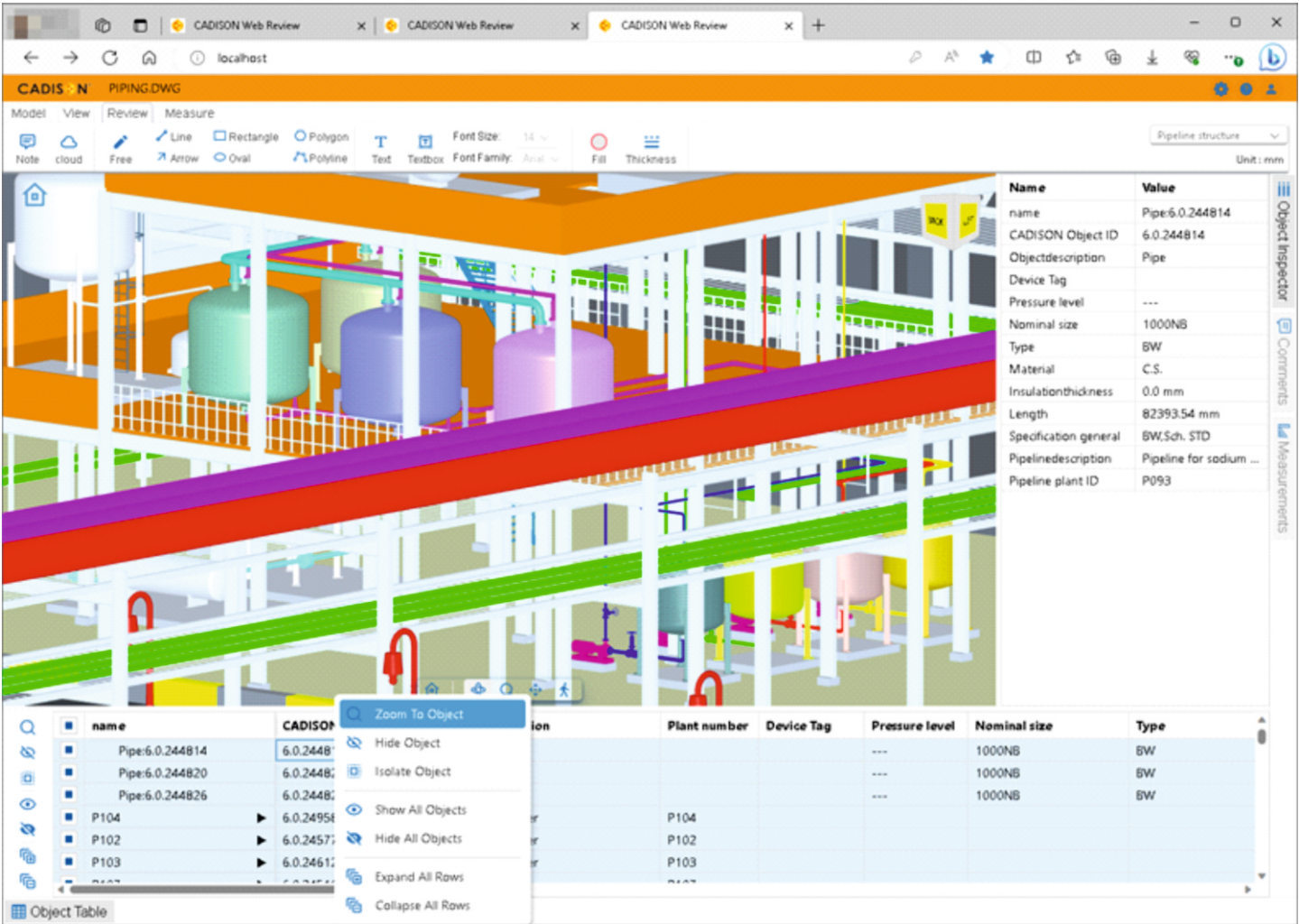
This innovation enhances transparency by enabling easy access to redlining capabilities for all Stakeholders. With this automated process, CADISON ensures that redlining data is efficiently managed and integrated, improving project workflows and fostering smoother communication within cross-functional teams as well as with external partners and customers.

**Enhance Global Team Efficiency with Web-Based 3D Model Redlining and Measurement Solution**

CADISON R23 introduces a groundbreaking web-based system that redefines the way CADISON 3D models are reviewed. It empowers users to seamlessly collaborate and review CADISON 3D models directly within a web browser interface, enabling teams and stakeholders to actively engage in the design review process, ultimately making collaboration more accessible and efficient.

- **Creating 3D Redlining Models with Web-Based Review System:** CADISON Designer allows Users to create 3D redlining models in lightweight format, based on existing 3D drawings. These redlining 3D models, containing both geometry and metadata, are automatically stored in the CADISON Project database and linked to the source 3D drawing.

Once the 3D redlining model has been created, it can be seamlessly pushed to the new CADISON Web Review system. This system can be hosted by the CADISON Customer for access by End Users as well as for internal use within the company Intranet or external use over hosted servers in the Internet. The flexibility of hosting options ensures broader accessibility over VPN and secured connections.



# Highlights of CADISON R23 - Enhancements & Updates

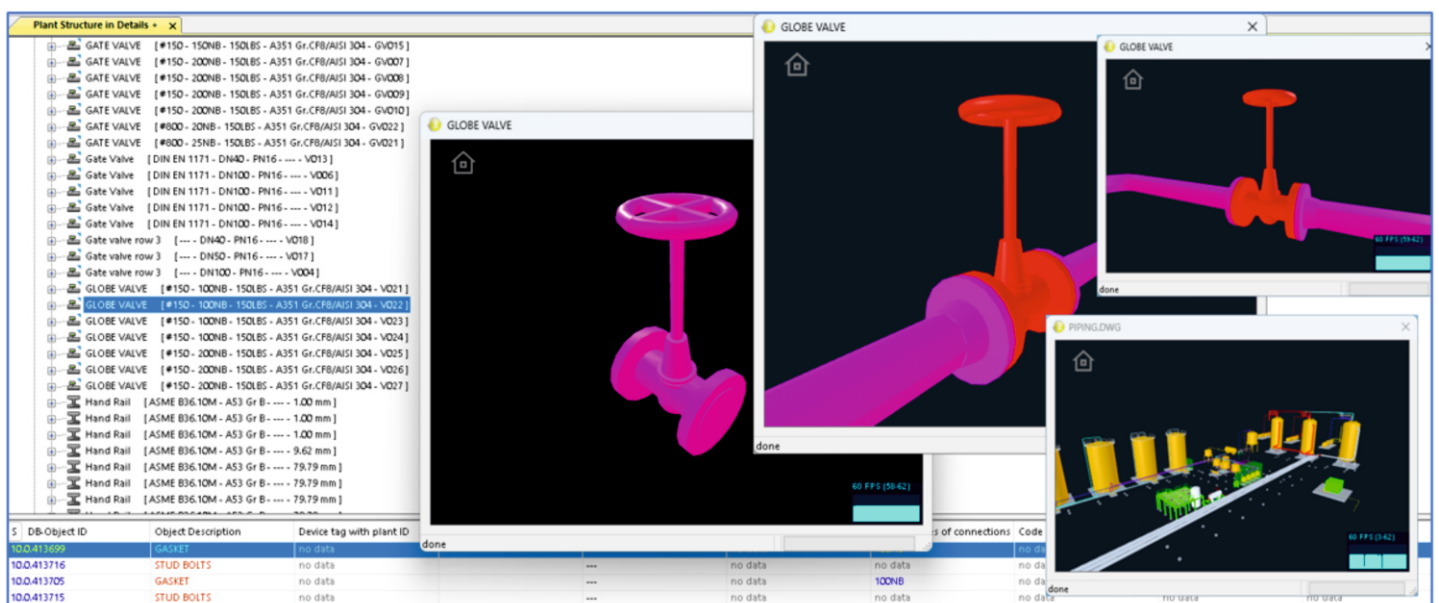
- **User and Project Management:** Upon pushing the 3D redlining models to the Web Review system, a comprehensive User management and project management system is automatically generated based on existing CADISON project permissions.
- **Seamless User Experience:** Every User listed in the User management system can leverage any web browser application or mobile devices to access this Web Review system.
- **Redlining and Measurement Tools:** The Web Review system offers redlining and measurement functionalities, allowing Users to effortlessly add annotations, revision clouds, rectangular notes, etc., directly to the 3D models as additional text information. The review tools also support the CADISON Object Table and help in finding the object in the CADISON Tree.
- **Integration with CADISON Designer:** The CADISON Designer Users can import redlining data directly from the Web Review system. This imported data is stored in the CADISON project database. The Designer User can then open the 3D drawing, view the redlining data, and make the necessary changes & integrations.

The power of this feature highlights when a User selects a specific piece of redlining information and the CADISON Designer automatically activates and restores the 3D view that was in use at the time when the redlining information was created. This means that the 3D redlining geometry, including elements like revision clouds, is seamlessly and automatically displayed within the CADISON drawings.

- **Global Collaboration:** CADISON Users can enjoy a smooth workflow where they can import, access, and interact with redlining data effortlessly, enhancing their ability to collaborate, review, and refine 3D designs within the CADISON environment with Stakeholders worldwide. Any device with the internet or intranet access can connect to the CADISON Web Review system, enabling project Stakeholders to participate in the design review process from anywhere in the world.

## CAD-independent 3D Graphic Previews in CADISON Project Engineer and Project Navigator

CADISON R23 introduces an innovative feature that transcends the boundaries of traditional CAD systems. This enhances the approach where the 3D graphics are handled and previewed within the CADISON ecosystem. This innovation empowers Users with enhanced flexibility and efficiency in understanding, reviewing, and interacting with 3D models without relying on CAD systems.





- **Efficient Graphic Data Storage:** CADISON R23 has a new mechanism to extract and store 3D graphic data in a neutral and standardized format within the CADISON project database. Whether it's a valve, pipe, elbow, or any 3D entity, each element's graphic definition is efficiently compressed and stored at the object level. This data management optimizes storage space and sets the stage for powerful previews.
- **CAD-Independent 3D Graphics:** The key advantage lies in the ability to display 3D graphics without relying on a CAD system. CADISON R23 introduces new commands and features within Project Engineer and Project Navigator that enable Users to access 3D graphic previews directly from the database. Users can choose to view a single object's graphic or explore the graphics of entire data structure, like pipelines with their components. CADISON automatically extracts child objects and displays the complete structure in a 3D preview window, simplifying the understanding of complex 3D planning. Furthermore, Users can select a 3D drawing in the CADISON tree and open a 3D preview window, even without CAD system installations. This feature enables efficient previews of entire 3D drawings.
- **Streamlined Data Understanding:** With CADISON's intuitive interface, Project Engineer and Project Navigator Users can easily preview 3D pipelines and other complex structures. The Users can rotate models, adjust camera positions, and change zoom levels in the 3D preview window itself. By selecting the object graphics, the Users can automatically extract the child objects or corresponding object data and use their 3D graphics to display the complete structure in a 3D preview window. This simplifies the understanding of intricate 3D planning, making it accessible to all Users. This new approach has not only enhanced the data comprehension but also saves time and resources. CADISON R23's CAD-independent 3D graphic previews offer a new level of accessibility, collaboration, and efficiency, making 3D planning and design more accessible and streamlined.

### Support for AutoCAD Associative Dimensions for CADISON 3D-Elements

CADISON R23 introduces a significant advancement by supporting AutoCAD Associative dimensions for CADISON 3D entities such as Pipes, Elbows, Tees, Valves, and Cable trays. This feature revolutionizes the design process, as AutoCAD can now seamlessly link its dimensional entities to the geometric properties of CADISON 3D elements. This transformative capability allows AutoCAD to establish dynamic links between its dimensional entities and the geometric properties of CADISON 3D elements. When changes occur within the linked 3D entities, AutoCAD seamlessly updates the associated dimensional elements, ensuring that drawings stay synchronized with evolving 3D models.

- **Precision in Layout Drawings:** This capability proves invaluable in the creation of layout drawings, particularly during the early stages of design when the 3D model may not be finalized. Users can incorporate dimensional entities into their drawing layouts, establishing a precise connection between 3D elements and their associated dimensions.
- **Automated Dimension Updates:** When changes occur in the source 3D elements, positioned within the model space, AutoCAD takes the lead of updating the linked dimensional entities. Whether entities are moved to new positions or the dimensions of an entity, like the length of a pipe, are modified, AutoCAD ensures that the associative dimensions reflect these alterations seamlessly.
- **Time and Efficiency Gains:** The specific ability to automatically update associative dimensions significantly reduces the time and effort required to maintain accuracy in layout drawings when the 3D model undergoes changes. This ensures that design documentation remains precise and up to date.

This feature enhances design precision, reduces errors, and accelerates the design process, where design adjustments are frequent. CADISON R23's support for AutoCAD associative dimensions underscores its commitment to streamlining design workflows and enhancing the accuracy of design engineering projects.

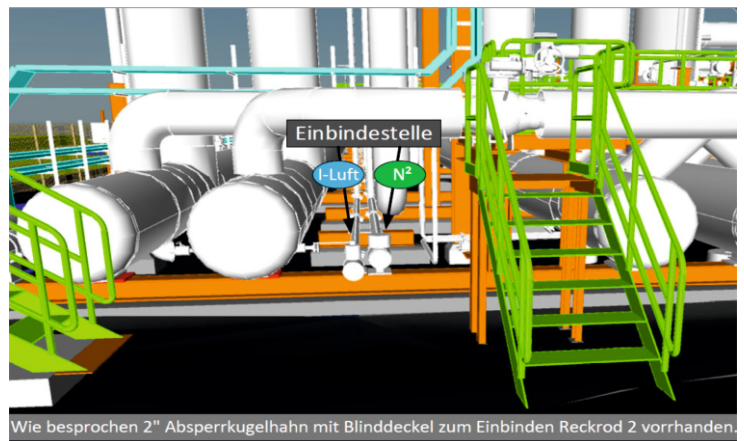
## How GASCADE is breaking new ground with digitalization

The dynamics in the gas transport business are high, and the planning and approval of new gas pipelines and operating facilities are complex. **GASCADE** operates a modern pipeline network with a length of around 3200 km. The company has been using the integrated engineering software **CADISON** for plant design for a long time. With the digitalization of existing systems, **GASCADE** is taking the next steps to prepare for existing and future challenges.

With the development of a realistic digital twin of a compressor station, GASCADE has reached a milestone in the company's digital transformation. In a project phase of just nine months, not only 36 intelligent P&IDs and over 600 pipes, but equipment (compressor with housing, filter, etc.) as well as electrical, measurement, control and regulation technology (weather protection boxes, lamps, etc.) have been created as 3D models. In addition, the associated steel construction (pipe bridges, service platforms, etc.), 17 buildings (operating buildings, compressor halls, warehouses, etc.), roads and grounds have also been digitalized. More than one TByte of laser scan data was processed. As project lead, ITandFactory GmbH based in Bad Soden, Germany, the provider of the engineering platform CADISON, was responsible for the implementation.

### The goal: Reckrod compressor station

The Reckrod compressor station (German: Verdichterstation (VS) Reckrod) is located in the heart of Germany and thus in the center of the GASCADE pipeline network. The plant near the city of Fulda is one of ten compressor stations operated by the company. VS Reckrod started operations in 1994 and has had five gas turbines with a total compression capacity of 76 MW since 2005. The peak operating pressure is 90 bar. In addition to those units, the technical equipment includes various gas pressure control systems and input filters. The 4.3-hectare site also includes an operations building and a supply building as well as various outbuildings and a workshop.



### Documentation status quo

With a system that has already been in operation for more than a quarter of a century and has been constantly further developed, it is a major challenge to keep the documentation up to date at all times and to make all important information easily accessible. What makes things even more difficult is that different IT systems have been used over the years. Some of the older documents were only available in paper form. In the case of the VS Reckrod, the system was initially designed with three compressors, but now there are five. "The system has been consistently further developed over decades. It is therefore only natural for the



situation on site to no longer correspond to the original plans. A new inventory was necessary, especially since the standards for documentation used to be different than they are today. In addition, VS Reckrod II is to be built as an extension of the existing system. In this context, it is important, for example, to create Rohr2 calculations based on current input data,” says Daniel van der Haar, responsible Project Manager with GASCADE, adding: “The digital processing of the existing data will also enable us to take any manufacturing tolerances into account.” During the inventory, all the stops were pulled out in order to save on subsequent measurements. Christian Manshausen, Senior Consultant for Construction / CAD / Engineering with GASCADE, explains: It’s not just about recognizing the situation on site, but also about scanning and digitalizing it, so that the data can be shared with everyone involved in the project. With the information subsequently recorded and its processing in digital form, we can now work consistently and efficiently with future expansions of the existing system with the object-oriented database from CADISON, which we have been using for plant design for years.”

### **Digital plant structure based on a point cloud**

The P&IDs of the VS Reckrod available in AutoCAD had to be transferred to smart CADISON P&IDs to create a digitally available plant structure. The as-built plant model could be created in 3D based on a point cloud. In the course of this work, the P&IDs were compared with the current status of the plant. This enables

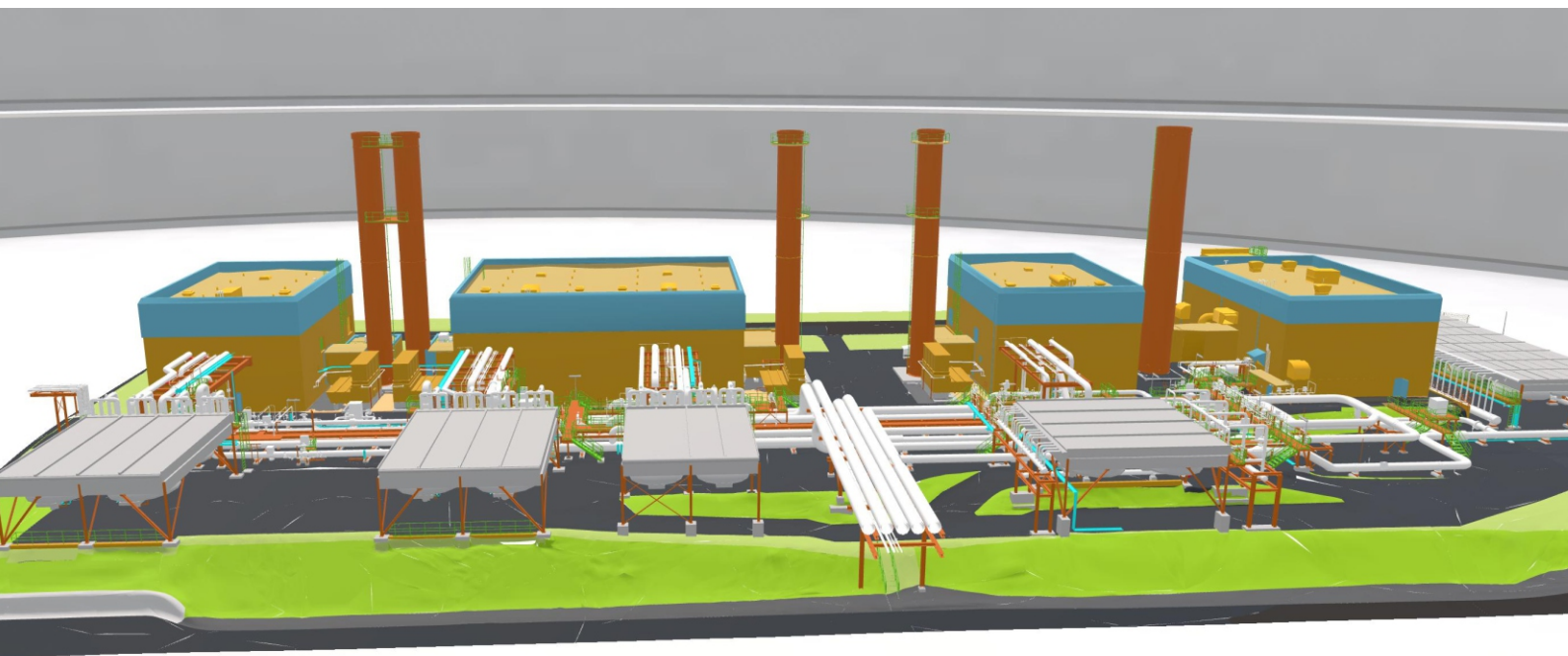


continuous control of the data quality. In order to implement this complex project, the close coordination between GASCADE as the client, ITandFactory as project lead, the subcontractors of ITandFactory, Laserscan OM (Laserscan Oldenburger Münsterland) and the Neilsoft team was crucial. The main contact for GASCADE was ITandFactory. The Neilsoft team, the parent company of ITandFactory, took over the majority of services. A CADISON server was set up during the project phase. Access via Citrix was possible for P&ID creation and data control.

### **Automatisms in CADISON to boost project progress**

Many smart CADISON functions ensure efficient project processing, such as the feature ‘display object status in color’. This feature has been set to display in red for all P&ID items where the count number or identifier fields were not populated. This made it immediately clear which symbols lacked information. A

report was defined for the automated updating of the missing information, in which the objects marked in red were listed with the database ID and the reference to the grid segment. After the list had been filled in, the data was imported again. The P&IDs to be checked afterwards were summarized in a task container and assigned to an examiner. “Another important point was the existing isometrics and pipe books,” explains Michael Brückner, Senior Manager of ITandFactory, adding: “First, the team imported the pipe books as a separate document group into CADISON. They had been assigned the pipe numbers. They were then subordinated to the individual pipes so that the pipe in the P&ID can be used to access the associated pipe book. Since this project involves 600 pipelines, any kind of automation was mandatory. We were able to do this within CADISON via a rule-based assignment of objects.” A key factor in the successful digitalization of the existing system was also the continuous tracking and evaluation of the project progress. “This was important because it was a project that had to be implemented within a defined time frame. The number of completed or tested pipelines is part of the evaluation of the progress of the project,” says Mr. van der Haar. The number of matched P&ID piping elements, such as fittings, was queried using CADISON's Logic Analyzer. For this, the project team used the total number of pipelines, the number of pipelines in 3D, the completed pipelines in 3D and the tested and approved pipelines in 3D. In order to be able to monitor the data over a longer period of time, an illustration was made in the form of a diagram with a chronological progression and quantity information (see graphic). Logic Analyzer also proved helpful when it came to getting an idea of the quality of the pipe components: A query clarified the type of drawing in which an object is placed. Thus, the total number and the number of fittings as well as the number of those that are already placed in the 3D and P&ID can be put in relation to each other.



### **CADISON database as master**

“The CADISON database was the master for project management, and we split the tasks with the associated information via data containers. This enabled the GASCADE employees to access reports with the current project status in real time via Citrix access,” says Mr. Brückner. As a subcontractor of ITandFactory, Laserscan OM used 3D laser scanners to conduct the extensive measurements. The Neilsoft team processed the scans, including photos and transferred data from existing pipe books to CADISON. The data from the fittings photos was assigned to the fittings and the pipe books to the fittings (via redlining, etc.).

## Benefits for the efficient handling of brownfield projects



Mr. Manshausen

The effort involved in creating a digital twin of an existing industrial plant that has been growing for more than 25 years ('brownfield project') should not be underestimated. However, the added value that results from this for future operations is obvious. "Economic benefits only come after the project is complete. First of all, it's about efficient feasibility, but then very specifically about possible added value," explains Mr. Manshausen. "When measuring methane emissions, MEMI for short, for example, we have to show the Federal Network Agency for Electricity, Gas, Telecommunications, Post and Railway where leaks could occur in the pipes. As the operator of a gas network, we are obliged to record and document this. Thanks to the digitalization measures implemented, we can now come up with P&IDs that are absolutely reliable in terms of their informative value." Further advantages of the digital twin arise for plant extensions.

"Isometries can now be extracted just by the click of a button and used immediately for planning. We expect considerable increases in efficiency for the processing of upcoming brownfield projects," explains Mr. van der Haar, continuing: "In order to capture all eventualities that can occur when converting existing systems, we have expanded the pipe classes and recorded them in the pipe books. We also logged additional materials and wall thicknesses used, so alternatives are now available. This is important for the Rohr2 calculations during conversion. Capturing detailed information in this way leads to high gains in efficiency for further planning tasks in the inventory."



Mr. Van der Haar

## Conclusion

Has the digital twin been completed on time and to GASCADE's satisfaction? And: What's next? "Everyone involved in the project has a desire for more," confirms Mr. van der Haar, adding: "The methodologically optimized approach to project management is a good template for further projects of that kind." This statement is important as the initial situation with regard to the as-built documentation is similar for other GASCADE facilities. Mr. Manshausen is extremely satisfied with the project coordination by the vendor. Despite additional services, the budget was not stretched too far: "We worked with experts who are very keen to advance digitalization. Dealing with unforeseen challenges that always arise in such a large and demanding project was absolutely professional. ITandFactory always brought about a solution with which all parties were satisfied." One last comment: So far, GASCADE has been using the CADISON Suite as an isolated design suite. But this will change in the future. The existing applications and databases in the company are gradually being connected to one another. Programmable interfaces are intended to create a linked 'archipelago' from the 'data islands' – a fundamental requirement for the further digitalization of planning and plant operation.



# Plant Design & Equipment Engineering Solution

**CADISON® Project Engineer:** A non-CAD solution for Project Planning, Cost Estimation, Engineering Document Management, Workflow & Change management throughout the Plant Design Life Cycle. It enables managers / leads to plan conceptual engineering, generate bidding proposals and schedule tasks with or without MS Project. This helps to track and monitor the complete project data / information from Concept-to-Commissioning. CAD-independent 3D graphic preview feature is in-built in CADISON Project Engineer.

**CADISON® PED** add-in enables classification of the pipelines and equipments into the corresponding category of the Pressure Equipment Directive (RL 2014/68/EU) - including determination of the necessary assessment modules.

**CADISON® P&ID Designer:** A comprehensive spec-driven module for the 'creation of Intelligent PFDs / P&IDs' and 'Instrumentations (measurements & hook-ups)'. It can perform Pipeline Sizing and Utility Pump Sizing Calculations for optimum selection of equipment at the P&ID stage. It supports various standards (DIN, EN, ISO 10628, ISA 5.1, ANSI, etc.) and can be easily adapted to the company standards. Preconfigured-design rule-based checks for Data and Drawing Validation, built-in Symbols and Construction sets creation, Auto Legend, Auto Tagging, etc. and **PDF Redlining** for design reviews significantly improves the design process. The **Process Documentor** feature enables the documentation of each Process steps, e.g., to define starting, cleaning or shut down of equipments / open and close of valves for operation & maintenance or to show media separation ways.

**CADISON® 3D Designer:** A complete 3D plant design module for Plant Layout, Pipe Routing, Equipment Modeling, GA & Isometric Drawing creation and Report Generation (BOMs, MTO & Datasheets). With various time-saving wizard and design assistant such as Section Box for GA drawing creation, 'Tank Assistant' & 'Nozzle Assistant' for creating 3D vessels and tanks. Data export /import in neutral formats and 'PCF import' of isometrics brings 3D Designer to the core of the Plant design. The ability to graphically synchronize and validate the 3D Plant data with P&IDs caters to design consistency & operational safety at all design stages. It is enhanced with **Web-Based 3D Model Redlining and Measurement** for review & collaboration.

**CADISON® Electrical Designer:** A comprehensive solution for Electrical Engineering Design, Documentation and Management. It is a unique combination of tools for 2D Schematics & Controls Designs; Sizing Calculations (Cables, Earthing, Transformers & UPS); with 3D Conduits & Trenches, 3D Cable Tray & Panel Layouts. Productivity tools such as automatic generation of Terminal Drawings, Contact Sets, PLC I/O Board Drawings, Reports (BOMs, MTO & lists), and PDF Redlining improves the design process.

**CADISON® Steel Layout:** A wizard-driven module for planning and creating 3D Steel Structures like Ladders, Staircases, Platforms, Handrails, Trusses, Water Tanks and custom assemblies such as Pipe supports, Spiral staircases, etc. It's SDNF export interface enables the users to export steel structure data to Tekla and Advance Steel for detailing. It is configurable to adapt design standard and custom guidelines for validation of parameters and steel profiles for improved designs.

**CADISON® MATPIPE:** A Parametric Catalog Engine for creation and management of Pipe Classes, 3D Catalog Objects and integration of Manufacturer's Catalog with the import & export functionality for maintenance. Database of Templates, Piping Component Libraries from Design Standards and an extensive list of Catalogs from prominent vendors are also available. User Management with Revisions of Master & Working Catalogs enable to standardize and maintain versions (replica and extended replicas) of catalogs at the organization level. The **'Catalog2Cloud'** feature enables a central Catalog Management System over the intranet or Internet for multi-site catalog management.

**CADISON® Pipe Support Modeler:** An intelligent wizard for Standard Pipe Supports to the Users to create and edit different types of pre-defined Secondary supports in an easy and intuitive manner. Users can also quickly create non-standard pipe supports manually. Automatic hook-ups (production drawings) creation and Reports generation reduces the documentation efforts. It can further be used for Electrical Cable Trays, HVAC Ducting Systems and Bus-ducts Supports as well.

**CADISON® Project Navigator:** A navigation tool to access engineering data of a project with a user interface similar to the Project Engineer module. It can be used for project review and also for further processing of project data during the plant operation and maintenance, which also serves as a paperless documentation platform.

**CADISON® P&ID Designer for Visio:** A spec-driven process engineering solution for Conceptual & Detailed Engineering that can be used for Proposal Generation. This is an easy and quick to use tool to create intelligent P&IDs and PFDs using MS Visio® Platform and still all the data is integrated with other CADISON modules in realtime. Its ability to export to AutoCAD, Pipe and Pump Sizing, Generation of Automatic Legend, Tagging, Report and integration with the 3D Designer makes it a powerful tool for the process industry.

**CADISON® Archiver & Browser:** An independent tool for Archiving of completed project databases from CADISON production environment. Archived Projects can be quickly and easily viewed with CADISON Archive Browser like a knowledge management platform. The archived projects can be re-activated or restored to work on future developments at any time.

**CADISON® Maintenance:** The CADISON Maintenance Management Tool is a tool for planning, managing and documenting technical inspection and notifications, schedule / planning of maintenance, repairs, and other measures for various objects in plant to maintain the operations efficient and reduce breakdowns. It also includes scheduling and tracking deadlines for next maintenance after the service is completed. It supports creation of test and inspection reports in different forms and management of the test history for corrective and preventive maintenance.

**CADISON® ROHR2 / CAESAR II Interface:** It has the feature and ability to export all pipeline systems created with CADISON 3D Designer to ROHR2 or CAESAR II for the quick and accurate static and dynamic analysis of piping system. All the required information will be completely exported in the form of .ntr files in ROHR2 or .cii file in CAESAR II for analysis based on user-defined variables and accepted industry guidelines.

**CADISON® ERP Interface:** CADISON provides interface with well-known ERP systems like SAP, Movex, Infor and others for dynamic data exchange. It establishes a mutual connection wherein Orders like purchase requisition can be directly released and also controlled within engineering workflow.

**CADISON® Inventor Interface:** It enables the Users to import an Autodesk Inventor part or assembly file along with the inventor properties in SAT and XML format into the CADISON environment as a CADISON object. It helps to import & update objects from the Inventor original / updated model.

**CADISON® IFC interface:** This provides exchange of graphics and data between AEC industry tools and CADISON 3D Designer with import revisions. The interface supports IFC2x3 and IFC4 configuration mappings for exchange. All object data in IFC can be imported into CADISON objects. Export process supports mapping of CADISON object properties with AEC objects.

**CADISON® Equipment Simplifier:** A customized wizard designed for the automatic simplification of large equipment models. It reduces the size and complexity of models upto 90% from different CAD formats with (interactive) manual or auto mode options and exports the results in DWG for CADISON.

**CADISON® Application Programming Interface:** CADISON API enables the Users to integrate CADISON engineering workflow with business workflow and organization specific document management tool. API developed for external access of CADISON data, contents, structures and even dynamic exchange of data / information.

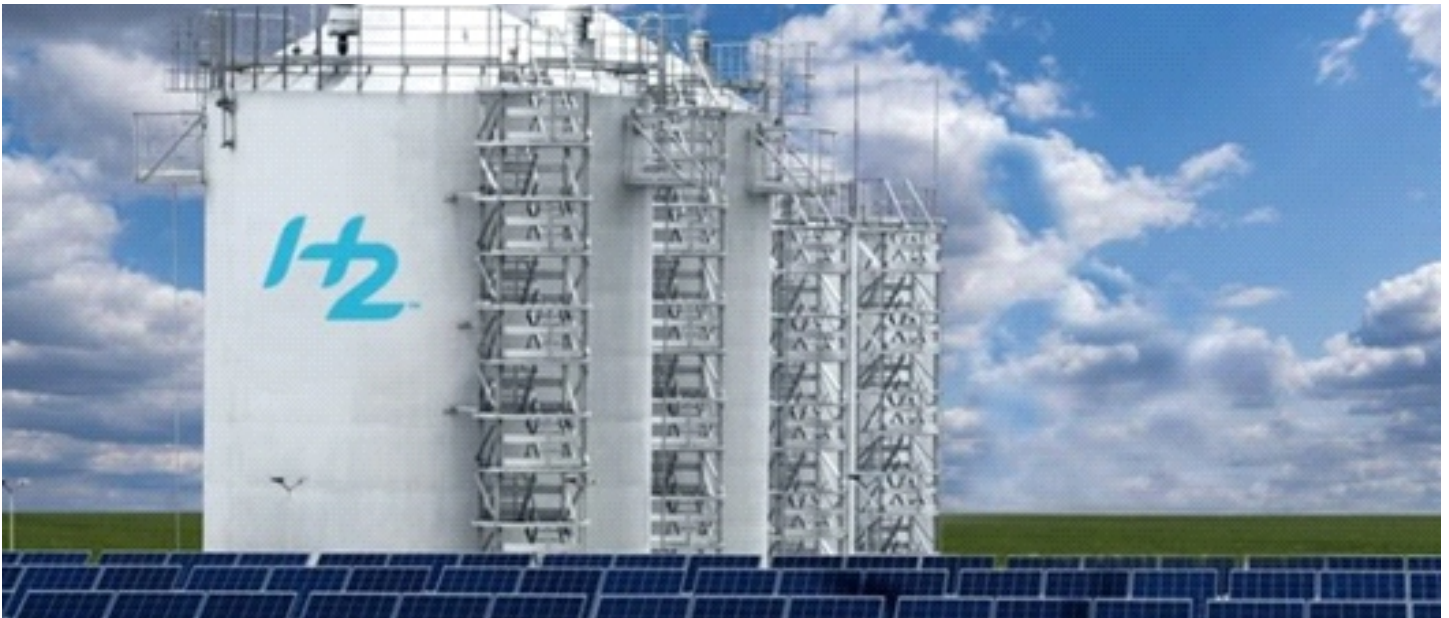


# GenH2 Accelerates Hydrogen Infrastructure Development with CADISON PID Designer for Visio

## Introduction:

GenH2, a US-based hydrogen infrastructure leader that specializes in developing solutions for the commercialization of carbon dioxide-free hydrogen liquefaction, storage, and dispensing. The GenH2 team offers 30 years of combined experience in advanced engineering and testing capabilities, cutting-edge research, and technology development to accelerate the clean hydrogen economy! GenH2 is a technology leader in hydrogen infrastructure systems for advanced clean energy.

The company focuses on mass-producing light-scale equipment to speed infrastructure buildout and make hydrogen accessible for everyday use around the globe. The Titusville, Florida-headquartered technology team includes former researchers who possess decades of experience researching, engineering, and building hydrogen solutions.



## Why GenH2 selected CADISON as an ultimate solution:

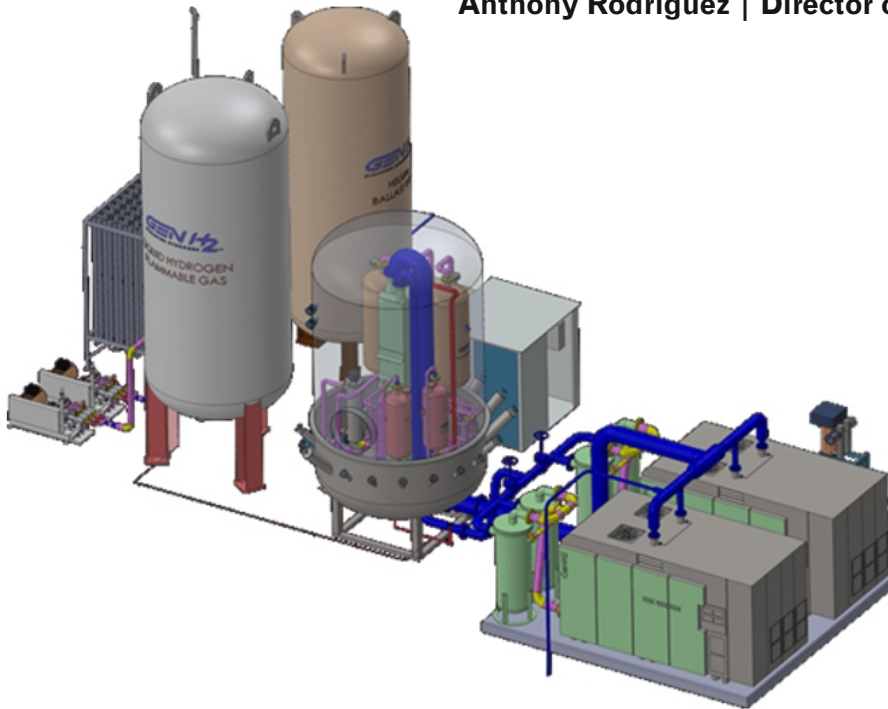
As GenH2 creates P&IDs for hydrogen Liquefaction and Storage units they wanted a faster, more intelligent solution with a legend sheet. Additionally, they needed a solution that could automate data updates during the modification and maintenance project process. The team already had experience using MS Visio, and they found CADISON PID Designer for Visio to be a better fit for their needs. The company liked the capabilities of exporting out of Visio PID and importing the data from vendors in excel files.

CADISON PID Designer for Visio was found to be an effective tool for GenH2's engineers to use during the front-end development phase of their projects. CADISON has all the default symbols required for hydrogen plants and makes it easy to customize objects like de-oxy units, coolers, hydrogen gas purification systems, piping fittings, valves, with required instrumentation, and other items using industry standards with process specifications.

**“CADISON P&ID based on Visio is great tool for P&IDs preparation. PDM helps from initial planning and conceptual design thru the commissioning process. We can create different customized reports to meet our customer needs with a robust workflow that simplifies the process.**

**CADISON Visio P&ID is an integral tool during our development process and we would recommend it to anyone looking for similar functionality.”**

**Anthony Rodriguez | Director of Information Technology**



The GenH2 product management team provides engineering and commissioning support for advanced clean hydrogen technology systems. Intelligent P&IDs help in the development of plant operational logic, and the import/export of Excel data allows the team to mass-update to save significant time. Floating licensing is very helpful since the team can work together on the same project database. As there is a separate team to review the P&ID diagrams it is very easy to use CADISON to review, and perform quality checks without any hassles. CADISON PID Designer for Visio can connect with other CADISON modules like CADISON Electrical Designer for seamless integration to allow future expansion within the same solution group. With the flexibility to work in either Imperial or Metric units, it is much easier to manage different P&ID projects. Thus, the review and validation process is easy while saving a lot of time for the team.

Due to the built-in PDM tool in CADISON, it's easy for the construction site members to access the legend sheet and reports to save significant coordination time. This functionality streamlined the complete process workflow that helped engineers store, manage, and share their designs and data with other team members. The easy access allowed the team to save significant time in simplified collaboration during the front-end development phase of their projects.

CADISON PID for Visio can help GenH2 engineers create intelligent P&IDs, manage their designs and data more efficiently, streamline their work process, and ensure compliance with industry standards. This can help to increase efficiency, reduce errors, and improve overall project outcomes.

GenH2 is looking forward to implementing other CADISON modules in the future so that all the disciplines will be in a single platform and single database.



### CADISON Implementation for Seamless P&ID and 3D Collaboration: PRAJ HiPurity's Experience

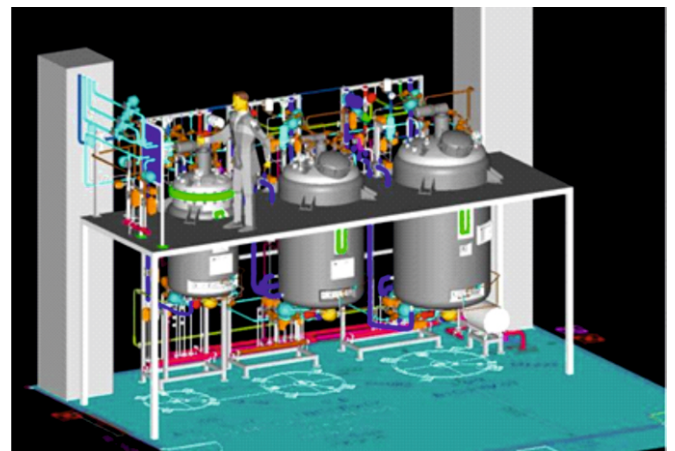
Praj HiPurity Systems Limited, an end-to-end solutions provider to the pharmaceutical and biotech industry believes in redefining the future. Being founded in 1989, with its 30 years of young and growing integrated approach, Praj HiPurity Systems Limited has established itself as a leading supplier for the bio-pharma, sterile formulations, topical & orals, cosmetics & personal care and nutraceutical industry across the world. Having presence over four continents, the company designs systems across the globe to ensure seamless integration with other systems in the plant while adhering to stringent quality standards and regulations as per geographies.

#### Why CADISON for Praj HiPurity Systems Limited – From the Users View!

Praj HiPurity Systems Limited is backed by strong infrastructure and skilled specialists. Their efficiency was getting hampered with their basic CAD tools for BFD/PFD and P&ID creation, which lacked crucial specification/ library design capabilities. Moreover, the modifications and maintenance required by the system was time consuming and report extraction was also a tedious task. CADISON offered the perfect solution with its seamless integration with AutoCAD, their base platform.

#### Quest for a Comprehensive Solution: Key Features Sought by Praj HiPurity

1. **High Man Hours Reduction:** Praj HiPurity sought a solution that could significantly reduce the labor-intensive process of extracting tubes/fittings Bill of Quantities (BOQ) and generating isometric drawings from 3D models.
2. **Seamless Collaboration:** The company needed a solution that effortlessly linked P&ID and 3D models, ensuring accurate data exchange and minimizing discrepancies during the design process.
3. **Enhanced Data Integration:** The ability to attach 3D models to catalogs, data sheets, and specification sheets was crucial, providing a centralized repository for comprehensive and up-to-date information.
4. **Customizable Reports:** Praj HiPurity required the flexibility to tailor output reports according to their specific user formats, streamlining documentation processes and improving overall productivity.
5. **Standardization and Module Management:** The new solution aimed to streamline the standardization of modules and introduce different pipe classes, reducing engineering time and promoting consistent practices.



In pursuit of improving engineering efficiency and eliminating laborious tasks, Praj HiPurity embarked on a journey to find an intelligent solution that could address their specific needs. CADISON proved to be the ultimate choice, providing seamless collaboration, enhanced data integration, and customizable reports to meet their requirements.



Mr. Sankhajeet Kole,  
Sr. General Manager



Mr. Parag Mhatre  
CADISON Admin

**“CADISON was the perfect solution for us with its advanced capabilities, seamless integration with AutoCAD, and the ability to handle repetitive elements efficiently. It eliminated the tedious tasks of P&ID modification, report extraction, and library creation that we faced with basic CAD tools. The ease of implementation and customization further convinced us to adopt CADISON. A lot of time was spent in the standardization of modules and the introduction of different pipe classes – where we now benefit from due to embracing CADISON. It is easy to use, easy to learn and easy to adapt!”**

### **CADISON Empowering Praj HiPurity with Seamless Engineering Efficiency: The Outcomes**

1. Seamless integration with AutoCAD, Praj HiPurity's base platform, minimized the need for extensive training and accelerated the implementation process.
2. CADISON proved helpful in creating a tailored library of components and piping specifications, streamlining business processes.
3. With the solution, the users experienced a remarkable 70% reduction in engineering man-hours for 3D modeling, piping BOQ extraction, and isometric drawing submissions, saving time and resources.
4. The smart and intelligent symbol system of CADISON, featuring automatic tagging proved beneficial for the customers standards, and enhanced their design efficiency and consistency.
5. CADISON's utilization of the users BOM formats streamlined the documentation and data management system, optimizing workflow.
6. Pipeline Auto Tagging philosophy facilitated seamless access to all pipeline information, simplifying project management.
7. In the bio-pharmaceutical sector, the solution offered tailored settings for special fittings, such as tubing and fittings, ensuring compliance with industry standards (ASME BPE, ASTM A 269).
8. The template and Title block formats for P&ID drafting enabled standardized and efficient project documentation.
9. Automatically retrieving the unique SAP code for each component from MATPIPE during skid modeling, led to more efficient component management and better control over inventory.
10. CADISON's Logical Container feature facilitated quality checks, ensuring error-free designs and seamless project execution.

Through the adoption of CADISON, Praj HiPurity transformed its engineering processes, unlocking enhanced efficiency, accuracy, and collaboration for better project outcomes.

### **Praj HiPurity's Journey with CADISON**

The unwavering support and expertise offered by the CADISON India team have been pivotal in ensuring a smooth and successful implementation. Praj High Purity appreciated CADISON team for their dedication, enabling a paradigm shift in their engineering processes. As they continue to partner with CADISON India, we eagerly anticipate a future brimming with growth and continued success.

# INOX India Ltd. Achieves Unprecedented Efficiency, Collaboration and Accuracy in Skid Design with CADISON

### Overview:

Inox India Ltd. also known as INOXCVA, has grown to become a market leader in the highly challenging field of vacuum insulated cryogenic equipment in India and across the world. It is a globally acclaimed company offering comprehensive solutions in cryogenic storage, vaporization and distribution engineering. The main forte of Inox is design, engineering, manufacture, supply & commissioning of turnkey packaged systems, INOXCVA is among the largest manufacturers of standard & engineered cryogenic equipment.

They were seeking a solution that can be used to overcome the limitations of their previous AutoCAD 2D software in generating Piping and Instrumentation Diagrams (P&IDs) and balance drawings. The lack of smart P&IDs and 3D capabilities in their previous software often resulted in errors, leading to numerous revisions and additional engineering hours. To address these challenges and streamline their design process, Inox India Ltd. turned to CADISON, a specialized software solution for skid design.

### The Challenge: Improving Efficiency and Accuracy in Skid Design

Skids, complex systems resembling large plants but occupying a smaller footprint, presented unique design challenges for Inox India Ltd. The precision of pipe and tube routing was critical in ensuring the successful implementation of these systems. The company recognized the need for a software solution that could integrate P&ID and 3D layout seamlessly and provide a comprehensive library of components and designs.



### Finding the Solution: CADISON as the ultimate Skid Design Software

After an extensive search for a specialized skid design software to enhance their design efficiency and accuracy, Inox India Ltd. discovered CADISON that offered an innovative approach to P&ID diagrams through its intelligent and data-driven design capabilities. It also offered an extensive library of components and designs, setting it apart from other solutions in the market. The integration of P&ID and 3D layout capabilities within CADISON provided the company with a unified platform to streamline their design process. With CADISON's support, Inox India Ltd. aimed to reduce engineering hours and generate accurate isometric drawings efficiently.



## CADISON Implementation Process: A Collaborative Effort

The configuration and implementation of CADISON took approximately six months for Inox India Ltd. This timeframe allowed for the proper configuration of the solution and library to align with the company's specific requirements. Throughout the implementation process, the CADISON team provided exceptional support, addressing all queries, doubts, and suggestions promptly, regardless of their significance. The continuous assistance from the CADISON team helped Inox India Ltd. overcome any initial challenges and ensured a smooth transition to the new software and laid the foundation for a successful partnership.

## Results and Benefits: Unveiling Efficiency and Accuracy

Inox India Ltd. expects significant efficiency improvements in their design process and a reduction in errors due to the adoption of CADISON. Its data-driven approach empowers the engineers and designers of Inox to create P&ID diagrams that are not just graphical representations, but dynamic entities connected to a wealth of information. By accessing the relational database, users can retrieve, and update data associated with each symbol and connection line, ensuring accuracy and consistency throughout the design process that were prevalent in their previous AutoCAD 2D workflow. By integrating P&ID and 3D layout, Inox India Ltd can now design skids with greater precision and accuracy, resulting in reduced engineering hours and fewer revisions.

Moreover, the comprehensive library of components and designs within CADISON enables Inox India Ltd. to create isometric drawings more effectively. The company foresees a reduction in engineering hours associated with isometric drawing generation, similar to the efficiency gains already achieved in P&ID development.

At present INOX India Ltd. has started to develop PID diagrams and 3D layout for their running projects by adaptation of CADISON and results are being analyzed in micro level by engineers. The necessary compliance of data base and methodology of prevention of errors are being updated in the system to get accurate design. It is expected to seal up the entire programming in due course of time.

**“The entire configuration and implementation took close to 6months, but we feel this time is required to get the software and library configured correctly. The CADISON team has been extremely supportive and continues to assist us with all our queries, doubts and suggestions – be it minor or major. We are expecting massive efficiency improvements in our design process and a lot of mistake-proofing. And we are just scratching the surface.”**



Mr. Vipul Ladani  
Deputy General Manager

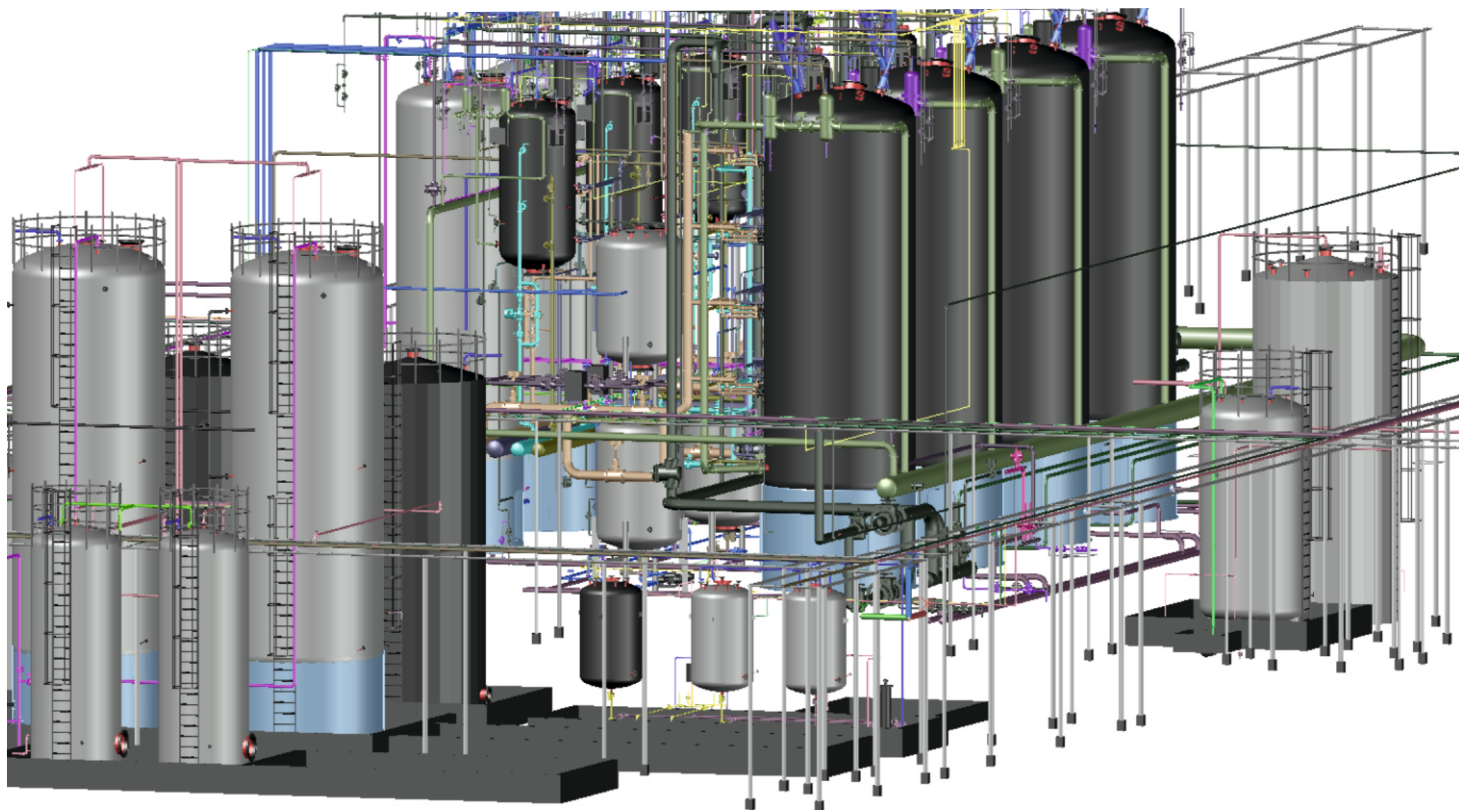
## Benefits:

The decision to implement CADISON for skid design has already yielded promising results. By moving away from their previous AutoCAD 2D software, the company has overcome the limitations of traditional design methods and embraced a more efficient and accurate approach. With CADISON, Inox India Ltd. has experienced enhanced productivity, reduced errors, and improved collaboration between the design teams.

As Inox India Ltd. continues to explore the capabilities of CADISON, they anticipate further improvements in their design processes and expect to uncover additional benefits yet to be realized.

### CADISON Plant Design Engineering Service for Incotec

ITandFactory GmbH with its team of CADISON Experts, of multi-disciplinary skills in providing complete Plant Design Engineering services to Incotec, an Italian Engineering Services Consultancy Company.



### About Incotec

Incotec is an Italian Engineering Consultancy Services company that provides professional services for plant design consultancy, commissioning, and design qualification, mainly for Pharmaceutical Plants and Food Industrial Plants. The other disciplines where they are expanding their presence nationally are Renewable Energy, Food & Beverages, Cosmetics, Healthcare and Environmental. Recognizing the need for advanced engineering software solutions, Incotec partnered with CADISON for our expertise in integrated engineering and comprehensive consulting services.



## Business Need

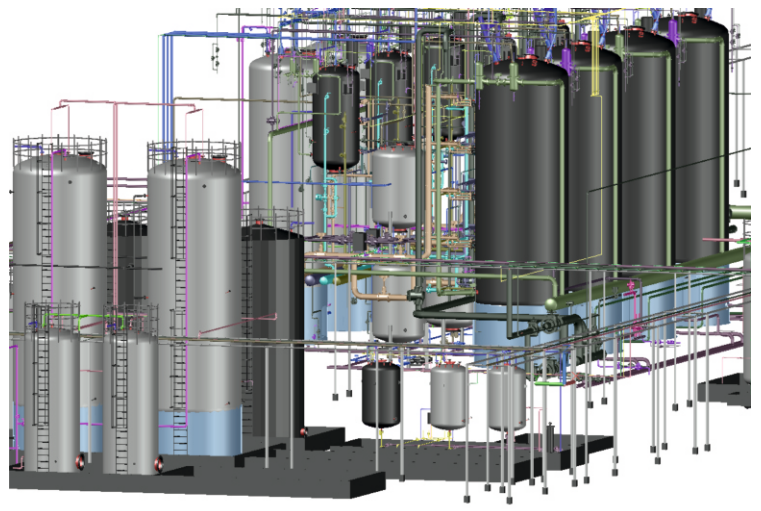
The client had a strong engineering team in-house, but the internal resources were tied up with multiple other projects and thus needed additional bandwidth, which meant they had to either increase the strength of internal staff or utilize an external engineering services provider. The project they received was a prestigious one for the Client and they were committed to delivering the project on time, with improved system efficiencies and within budgets.

Due to the engineering bandwidth limitation internally, the Client needed a separate team that was efficient, had domain knowledge and could be relied upon to deliver against commitment. Incotec also, faced several challenges in their plant engineering processes, including fragmented data management, time-consuming documentation processes, and lack of collaboration between different engineering disciplines. This would have led to delays in the project execution, inefficient workflows, and increased costs. After several internal discussions and evaluation of multiple options, the Client decided to have the engineering and procurement support handled by the CADISON Team of ITandFactory - their offshore engineering partner who they knew had a strong multi-disciplinary engineering team.

## Why ITandFactory – CADISON Team

The Client made a strategic decision to engage the CADISON team for their project based on a range of distinctive capabilities that promised clear value. This choice was primarily rooted in the positive experience of working with CADISON during the initial implementation of CADISON in their IT environment.

CADISON offered extensive consulting services to Incotec, focusing on three primary areas: Basic Engineering, Detail Engineering, and Electrical Engineering. The project encompassed a wide spectrum of tasks, such as P&ID Creation, Piping Specification Creation, Report Generation, Foundation and Equipment Layout, Steel Structure and Piping Layout, Isometrics Extraction, GA (General Arrangement) extraction, SLD (Single Line Diagram) creation, and panel layout design.



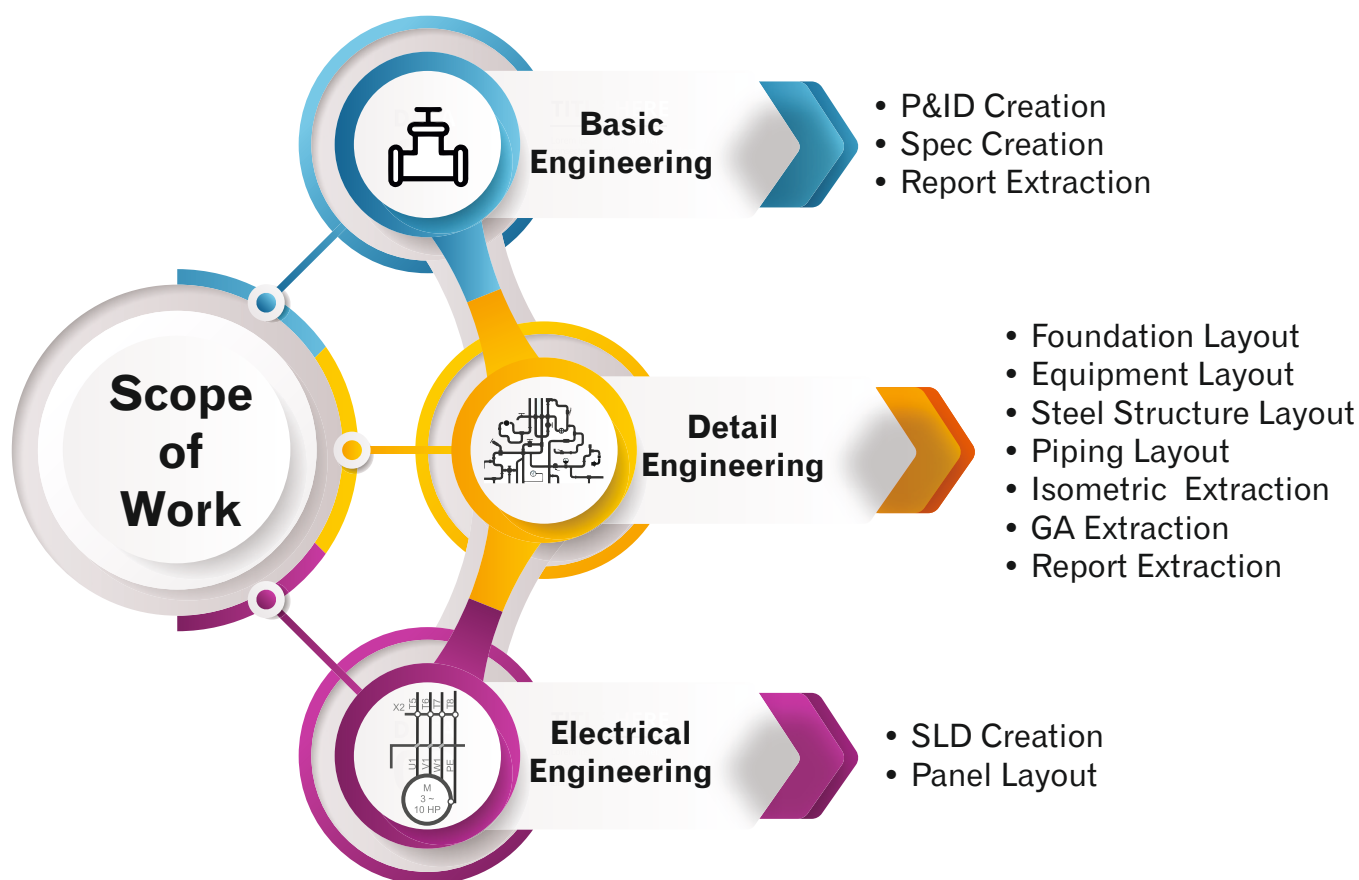
The following key differentiators contributed to the client's confidence in selecting the CADISON Team for the Engineering Service Project:

- **Proven Track Record:** CADISON Team had previously served as a reliable engineering partner, demonstrating their competence and reliability in similar projects.
- **Expert Engineering Team:** The CADISON team boasted a strong and knowledgeable engineering workforce with expertise in the relevant domains.



## Customer Success Story - Engineering Services

- **Effective Offshore Project Management:** CADISON had a mature and robust offshore project management system in place, ensuring efficient project execution.
- **Adaptive Team Structures:** The CADISON Team had the flexibility to swiftly adapt/ramp up their team structures to meet evolving business requirements, providing scalability and agility.
- **Commitment to Customer Satisfaction:** CADISON was dedicated to ensuring customer satisfaction. This was evident through their active project monitoring and regular communication, including weekly calls between teams.
- **Customer-Centric Service Systems:** CADISON maintained excellent customer service systems with clear communication channels, facilitating a smooth and transparent collaboration.



### The Solutions:

The CADISON Process Engineering Team got started on the project by commencing a detailed analysis of the initial P&IDs received from the client. Diligent scrutiny of the engineering documents, project specifications, and supporting documentation proceeded under the astute supervision of the Project Lead. The allocation of team members was meticulously orchestrated, ensuring a judicious alignment of their respective expertise and proficiencies to the project's exacting demands.

Subsequently, a comprehensive project execution plan was formulated, encompassing elements such as the Work Breakdown Structure, Milestones, Risk Analysis & Mitigation Strategy, Roles & Responsibilities, and Team Structure. The team has established a clear roadmap for a seamless project's execution. The Client had given two back-to-back projects with a timeline of 6 months, and we completed that on-schedule.

## The Benefits

**Enhanced Efficiency:** With extensive domain expertise, CADISON's expert team delivered high-quality deliverables within specified deadlines, thus improving project efficiency.

**Risk mitigation:** With CADISON's collaborative design review process, the client experienced effective risk mitigation and streamlined communication among stakeholders ensuring smoother project execution and reducing the likelihood of costly errors or delays.

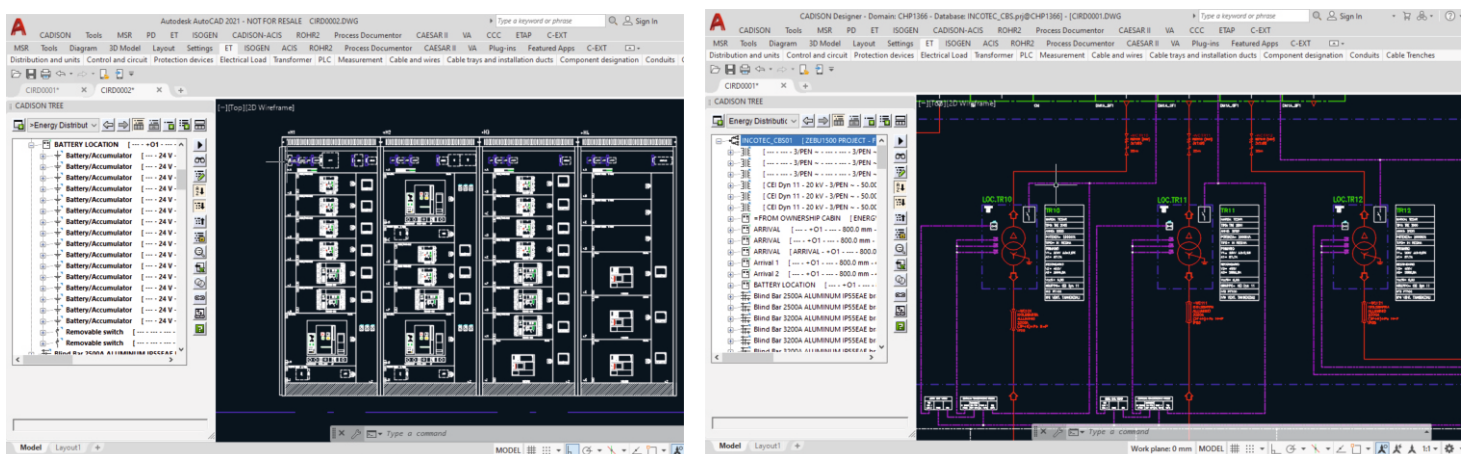
**Time Zone Advantage:** With CADISON and the Client's teams operating in different time zones, the collaboration benefited from continuous work progress. The time zone advantage ensured a faster turnaround time for project tasks and streamlined communication between the teams.

**Optimal Resource Utilization:** CADISON's services allowed the client to focus on core functions while entrusting non-core activities, resulting in optimal resource allocation. This optimal resource utilization allowed the client to allocate their internal resources strategically, maximizing efficiency and productivity in critical business areas.

**Cost Savings:** CADISON's streamlined processes and reduced manpower requirements resulted in significant cost savings for the client. This cost benefit enhanced their overall project profitability and competitiveness in the market.

**Value Engineering:** CADISON's value engineering services provided innovative solutions, contributing to substantial cost savings without compromising technical, quality, and safety requirements. By identifying opportunities for optimization and implementing CADISON solutions optimally, we helped the client realize cost savings while maintaining the desired project outcomes.

**Timely Project Completion:** CADISON's efficient project execution enabled the client to meet project milestones promptly and achieve desired outcomes.



ITandFactory consulting services proved to be instrumental in transforming Incotec's Plant Engineering Projects. CADISON Team as a service provider has Significantly Streamlined Project Workflow, Fostered Enhanced Collaboration, Improved Project Execution Time & Budget for Incotec. The successful partnership between CADISON Team and Incotec stands as a testament to the value of Integrated Engineering in the Process Industry, driving efficiency, and achieving business objectives.

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**WEBINAR**

**Streamlining Your Plant Design Workflow with Multidisciplinary Interoperability**

16 June 2023  
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**Streamline Workflow**

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**Enhance Productivity**

**Unlock Efficiency and Collaboration with CADISON's Data-Driven Approach**

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## CADISON in the media

**AUTOCAD**  
MAGAZIN

**AutoCAD**

Wie Ingenieurdienstleister von der dynamischen und digitalen Anlagenplanung mit CADISON

**CHEManager**

**CHEManager**

New Approach in the Biopharma Industry: CADISON's role in Zeta's digitization strategy

**LEBENSMITTEL**  
**TECHNIK**

**Lebensmitteltechnik**

Am Beginn eines jeden Projektes stehen bei ALPMA die CADISON Engineering Tools

**WIRTSCHAFTSFORUM**  
Wir nehmen Wirtschaft persönlich!

**Wirtschaftsforum**

"Vom Technologie- zum digitalen Lösungsanbieter" Interview mit Ajit Joshi, Geschäftsführer der ITandFactory GmbH



## CADISON Upcoming Events

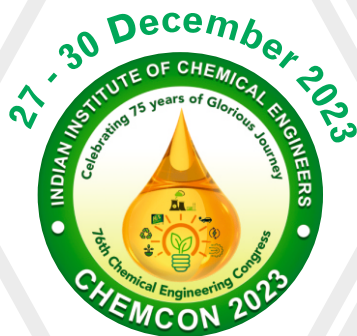
ACHEMA2024

10 - 14 June 2024  
Frankfurt

28 - 29 November 2023

**BIMWORLD**  
**MUNICH**

You are welcome to  
**meet us!**



**2023** / **AIChE**  
**ANNUAL**  
**MEETING**

5 - 10 November 2023  
Orlando, FL

 **CIC 2024**

## CADISON Past Events



**ITandFactory Global Team Meet 2023**



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