



Industry 4.0 Software Solutions

Setting new standards in Industry 4.0 Software Solutions,
IIoT Platforms and Multi-Enterprise Applications

CLEVERDIST helps you to...

Enhance Operations & Maintenance. So you **improve your return on assets.**

Secure your project deadlines. So you **shorten lead time to production.**

Articulate C-level needs and priorities into technological solutions, so you **reduce payback period and increase ROI.**

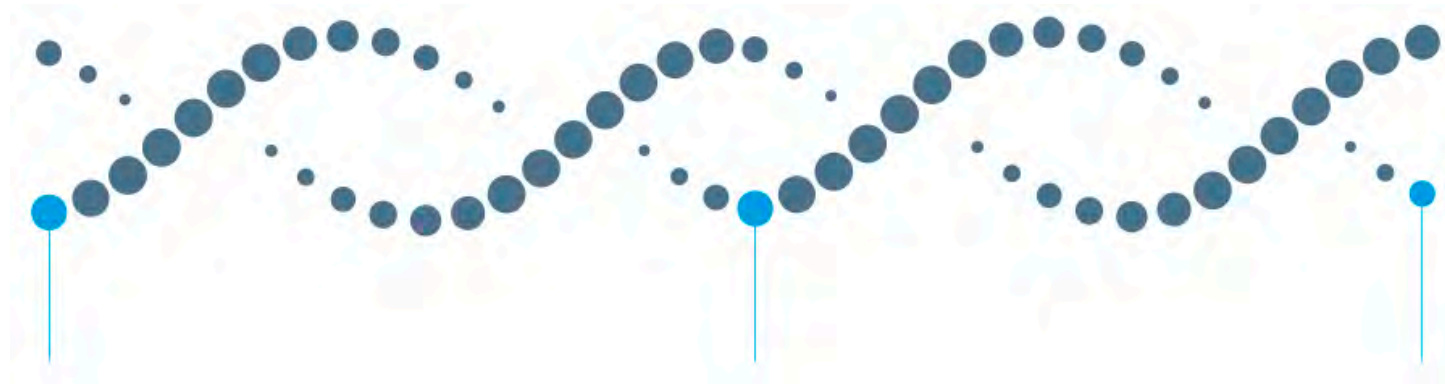
Integrate heterogeneous systems into centralized Control Centres concentrating millions of parameters. So you **improve your O&M.**

Quickly solve any connectivity needs across Industrial Control Systems (ICS), IT systems and Enterprise systems. So you **automate your processes.**

Develop ICS Solutions for your new projects, upgrade legacy control systems and shift features from OT to modern IT so you **increase flexibility and facilitate your innovation.**

/ CLEVERDIST D.N.A

Our staff has many years of experience in the design and development of control systems for the world's most advanced scientific experiments and industrial infrastructures with requirements covering today's Industry 4.0 demands.



Our DNA

is rooted in the world's most advanced High Energy Physics laboratory: The European Centre for Nuclear Research (CERN).

Our Know-how

and expertise combines a strong research background with industrial knowledge and profiles (e.g. former GE, Siemens, McKinsey).

Our team

has a successful track record providing consulting and software solutions for Industry 4.0 in Infrastructure, Mobility, Energy and Manufacturing.



/ CERN EXPERIENCE

Our Cleverdist consulting and product teams include former lead architects and developers of CERN LHC CMS Experiment Data Acquisition and Control Systems.

Unprecedented amounts of data to manage

60 Million data acquisition channels with a total throughput of 2000 TB/s.

World's Largest Industrial Control Systems (ICS)

10 Million tag Industrial Control System based on SIMATIC WinCC Open Architecture.

Pioneers at integrating ICS with modern IT

High Availability cloud-based automated control system infrastructure.

/ CLEVERDIST **Solutions**



Industrial Control Systems (ICS)

Our teams have extensive and unique industrial software experience

We quickly develop industrial software solutions ranging from hardware controllers, Distributed Control Systems (DCS) to Supervisory Control And Data Acquisition (SCADA) systems. This includes the provision of **Operations Management features**.

We are **world leaders** in designing and developing with Siemens flagship software for Industrial Systems: **SIMATIC WinCC Open Architecture (WinCC OA)**. We are a Premium Solution & OEM Partner and registered as preferred supplier by Siemens in several regions. We provide solutions based on this technology at an unparalleled speed. We are at ease with large systems needing broad connectivity, requiring integration of other 3rd party ICS systems and providing as much scalability as required.

Our specialists have experience engineering and integrating other Industrial Software vendors (e.g. Schneider, Honeywell, Yokogawa, Emerson and others).



IT / OT Integration

Leveraging our rich R&D experience we excel at using Information Technologies with Operational Technologies

Industrial systems are often highly dependent on rigid automation technologies to achieve monitoring, control and operation functions. As a result of their inflexibility, modifying these systems has high direct and indirect costs.

IT solutions are highly competitive in cost while exponentially increasing the flexibility and adaptability of the system. Our experts assist with strategic decisions when choosing how to combine IT and OT for specific critical features. Integrating these two technologies helps to **close the gap between enterprise systems and automation technologies**, increasing efficiency and reliability of the processes that combine business and operations data. In addition, the inclusion of IT in the operations domain allows for **quicker and cost-effective adaptation to your evolving operational needs**.

Our teams also have experience of implementing innovative approaches by integrating the use of technologies such as Augmented Reality, 3D, Predictive Maintenance and Analytics with automation/operation systems.

From Projects to Product

We create Industrial Software Products for leading companies in different sectors

Industrial Software projects are traditionally implemented by the repetition of tasks from project to project. This approach is cost ineffective and reduces standardization between systems making them difficult to maintain and adapt. Efforts and budgets are spent on maintaining multiple different systems rather than on keeping the systems capabilities up to date.

We help our customers and their partners to create engineering software products or frameworks that encapsulate the commonalities and **minimize the engineering time and effort required to complete a project**. Furthermore, this approach results in standardized systems that are much **easier to maintain and modify**. Using this approach, our customers centralize the development of their ICS solution, which is then configured by engineering teams for each site and project. This enables the quick rollout of new installations and features to keep systems state-of-the-art, efficient and competitive.





Multi-Enterprise Applications, IIoT Platforms and Cloud-based ICS

Our patented secure data sharing enables our users to safely share data with partners outside their enterprise

MEIOTE is Cleverdist's platform to rapidly connect, monitor and control your assets and processes. With broad support for industrial communication standards, it can **efficiently integrate and digitalize ICS equipment and link to existing business applications**. Available also as a service, MEIOTE minimizes infrastructure costs and upgrades as our customers expand their digital transformation.

Future Control Centers are powered by decisions taken on data from numerous information sources, requiring a balanced approach between openness and data protection. MEIOTE combines Industrial Control System and IIoT platform technologies together with **patented technology for ensuring data traceability & protection**. MEIOTE provides each data contributor with control and management of all possible consumers of their information and any derived work. Our disruptive multi-enterprise approach **unleashes the value of automated process and cyber-physical data streams shared across every stakeholder in a supply chain**.

CLEVERDIST **References**

SIEMENS GAMESA

INTEGRATED SOLUTION FOR WIND PARKS



In 2018 Siemens Gamesa Hamburg office requested support from Cleverdist to speed up development to meet their critical deadline for finalizing a brand-new Industry 4.0 Solution for the planning, engineering, monitoring and control of Wind Parks.

A group of Cleverdist Industrial Software specialists provided support to a Siemens Gamesa team in the German city of Hamburg over a period of six months. This team was developing a 4.0 Wind Power solution with a state-of-the-art architecture and design, applying the best programming and engineering practices and making use of the very latest Industrial Software solutions and features. The project had very tight deadlines and expertise was required immediately with a very short time for onboarding. Our teams integrated smoothly with Siemens Gamesa teams, tools and best practices.

IMPACT

- Doubled project velocity (x2 productivity)
- Solved critical software-tech issues
- Deadlines met



RALLYTECH – COPENHAGEN OFFSHORE PARTNERS

CONTROL SYSTEM FOR SUBSTATIONS AND WIND TURBINES



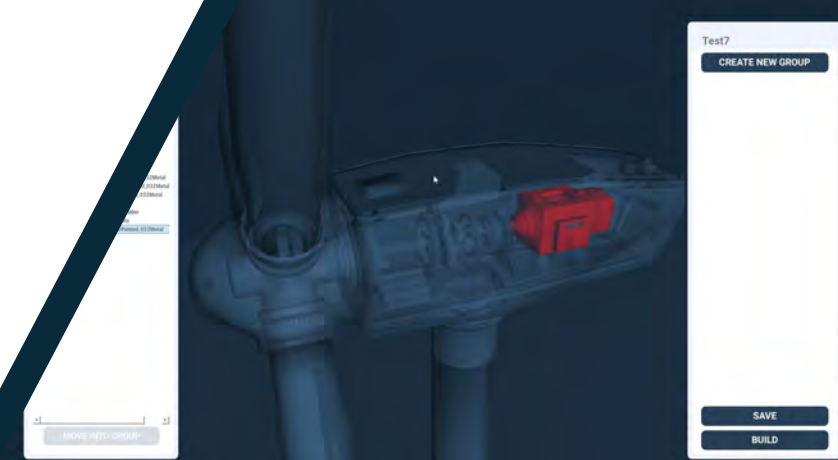
COPENHAGEN
OFFSHORE
PARTNERS

In 2019 a COP System Integrator – RallyTech in Taiwan – requested our services to ramp up their knowledge in the newest Industrial Control technologies, create a PoC to validate the technology and approach with COP and provide them support during the development of a new control system for wind turbines and substations.

Cleverdist frequently provides support to Industrial System Integrator companies in different countries. We proposed RallyTech a package to quickly increase their team competences and create a PoC that would guarantee customer satisfaction. We hosted a training and workshop for COP and RallyTech in our office in Switzerland. We trained and certified their engineers in SIMATIC WinCC OA and we developed a PoC application for COP approval. We are currently supporting RallyTech in the development of the full solution.

IMPACT

- Full project awarded to RallyTech with support of Cleverdist
- PoC generated acceptance and confidence
- RallyTech engineers acquired a high degree of development autonomy



SPAIN-BASED WORLD LEADER IN RENEWABLES

MIGRATION OF CONTROL CENTRE O&M SOFTWARE

In 2019 on request of a Spanish company – world leader in renewables – we helped their supplier to prepare a roadmap and architecture for the renovation of the Control Centre software. This software concentrates the information of their power plants and centralizes operations and maintenance. The customer requested WinCC Open Architecture to be the core software solution.

With our experience in very large and highly geographically distributed systems we proposed a scalable, modular and maintainable software architecture for this solution. In addition, we advised our customer on how to integrate modern IT continuous integration and continuous development techniques into the project.

IMPACT

- Sound architecture and great end customer acceptance
- Robust development cycle to avoid production interruptions



UAE LEADER IN OPERATION AND MAINTENANCE FOR POWER PLANTS

CONNECTIVITY TO CONTROL CENTRE

Since 2020 a leading company in Operation and Maintenance of Power Plants headquartered in the United Arab Emirates is relying on Cleverdist for quick and direct assignments to enable the connectivity of their managed power plants in different countries to their main Control Centre in UAE.

We quickly respond to our customer's requests involving multiple systems across different plants and using various Industrial Software technologies. We facilitate the communication between fields specialists and their HQ needs and for each requested issues we quickly propose a clear solution requiring only a few weeks of our time for implementation.

IMPACT

- Customer confidence of having a guaranteed answer to requests in a few days and solutions to any ICS related problem within weeks
- Unblocking large projects that are stuck by specific technical issues
- Integration and/or migration of siloed or legacy systems



01 ○ Start small, start fast... and measure our impact

Your operations teams have standing ICS-related issues. We start with one of them and **solve it in a period as short as 2 weeks.**

02 ○ You want to innovate but worry about payback and ROI

We speak C-level, finance, operation and IT language. With your teams, we build cases for which we can implement a technological solution **having a payback < 12 months.**

03 ○ Improve operations and maintenance

We offer you our expertise to develop a corporate standard for your ICS system. **You save development and maintenance costs and improve your system resilience.**

04 ○ Get a success-guaranteed supplier for new developments

High quality fast development is in our DNA. If you already have a business case and need a partner to quickly implement a software Pilot, then we can deliver. **We develop Pilot systems in 3-6 months.**



 www.cleverdist.com

 www.linkedin.com/company/cleverdist

 info@cleverdist.com

 +41 78 309 25 10



ISO 27001
INFORMATION SECURITY
MANAGEMENT SYSTEM



ISO 9001
QUALITY MANAGEMENT
SYSTEM