

Your NextGen Shop Floor Connectivity (Series 3 of 4)

FAST AND FLEXIBLE CONNECTIVITY

AC4DC is the next generation of shop floor connectivity: the solution enables simple connectivity of factory assets, rapid scaling and delivers highly available and secure data streams from production to planning. AC4DC ensures a robust database in your IT systems - for industrial use cases from simple to complex.

Executive Summary

In the digital era, value creation has to be secured by smart manufacturing - i.e. digitization has become essential for business success. Major goal: transparency on the shop floor. For this, legacy and new systems have to get connected. Different data languages have to be converted into one unified data model suitable for any industrial application. A connectivity solution should also be scalable to accommodate growth beyond the POC.

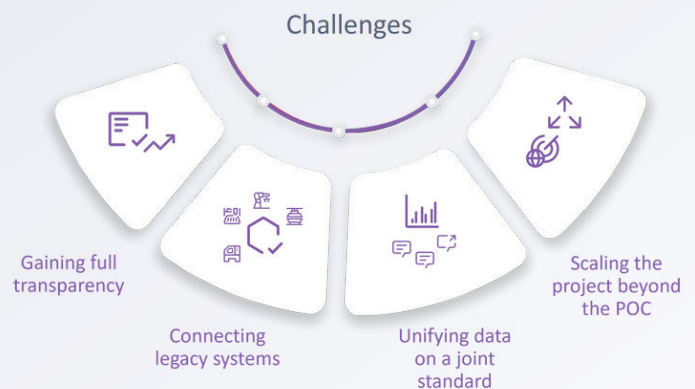
The Challenges

Gaining full transparency

Comprehensive and trustworthy data from the production environment enhance visibility and the decision-making process in industrial applications. Accessing information is crucial for generating meaningful insights. Thus, achieving complete transparency is vital, yet it presents significant challenges.

Connecting legacy systems

One of the challenges is to connect heterogeneous machine parks, which consist of machines and PLCs (Programmable Logic Controller) from different generations. The connectivity of these assets involves dealing with various data formats, volumes, and velocities, which means some will be more easily digitized than others. Therefore, extracting data within the capabilities of individual assets can be a challenge for a global rollout.



Unifying data on a joint standard

The PLCs contain different data languages. Once data is extracted, it is required to unify it into a common standard for industrial applications. They can provide the expected value only with meaningful information on a joint standard.

Scaling a project beyond POC

The goal is to effectively execute digitization initiatives worldwide. To get beyond proof of concept (POC), appropriate technologies have to be selected that fulfill both present and anticipated requirements of different regions. It's important to ensure seamless integration with legacy systems. Without necessary features, scaling can be time-consuming and resource-intensive.

The Objective

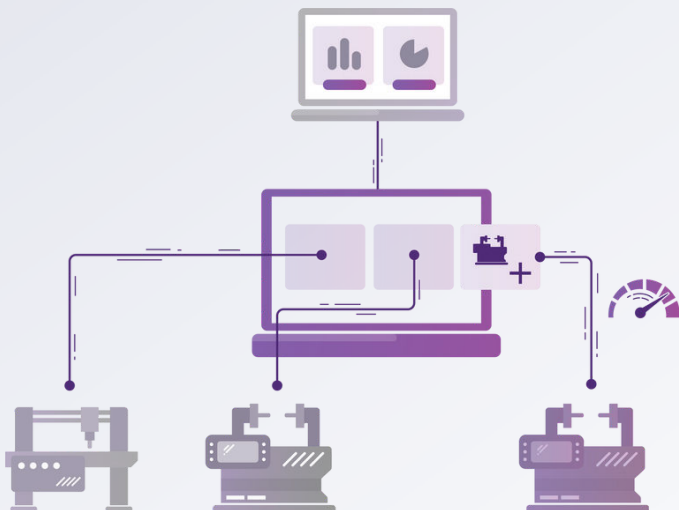
The primary goal is to provide a seamless, efficient pathway for connecting shop floor assets. This involves reducing implementation time, ensuring system flexibility to adapt to future technologies, and enhancing the user experience for swift adoption and minimal disruption.

Solution

AC4DC solution offers you a fast and flexible implementation framework designed to fit into any existing infrastructure with minimal setup time. AC4DC helps you to reap the expected value of your digitization projects fast and secure.

User Interface: reducing complexity in connectivity

AC4DC comes with an intuitive user interface. Connecting shop floor assets becomes accessible and manageable for users of varying technical expertise. Guided workflows and clear, understandable feedback minimize the potential for errors and accelerate the connectivity process.



Standardized templates: fast time to value

AC4DC aligns with IEC standard for signal interpretation. You can create standardized templates based on your shop floor assets and publish them to a global library. Assets of the same type can thus be connected much faster. It also ensures a uniform connectivity and signal interpretation.

Central Control Center: design to scale at the start

Configure and manage connectivity in one central control center via the cloud. This streamlines the connectivity process and ensures efficiency and scalability.

Easy installation and maintenance

AC4DC operates efficiently with minimal hardware demands, necessitating only industrial mini-PCs. The use of smaller hardware translates into lower power needs, cutting down on energy use and operational expenses. Moreover, its compact size simplifies installation and maintenance processes.

Summary

Rapid machine connectivity is pivotal for extracting value from shop floor data. User-friendly solutions like AC4DC streamline asset integration, allowing for swift access to critical insights. Standardized templates and a central control center ensure rapid machine connectivity and deployment. Thereby, it accelerates the journey towards data-driven decision-making and empowers the teams to stay agile and competitive in a rapidly evolving landscape.

Looking for a connectivity solution?

Experience the transformative potential of AC4DC firsthand - schedule your personalized product demo today and contact us at

customerrelations@forcam.com