EBG 219-EN





C Connector

Shop floor connectivity for enterprise solutions

Increase visibility and boost productivity

Improve manufacturing performance









Acquire Real-Time shop floor data from enterprise systems



Control shop floor activities directly from enterprise application via PLC

Collect data more easily from field devices



Field level information becomes easily obtainable

As automation increases in production and logistics, the number of devices which monitor and control individual steps in the process rises almost exponentially. This makes processes faster but also requires higher transparency to allow for further optimization and prompt reaction, e.g. in case of machine failures.

With Ethernet, field bus etc. data from around the plant can be collected over a network such as Mitsubishi's iQ. It allows the integration with field devices from many different manufacturers.

However, for real time control, information about machine conditions, process values and stock level must be communicated as fast as possible through the entire company's control system. The systems integration necessary for this becomes increasingly difficult as overall system complexity increases.

Perhaps most significantly, Enterprise Resource Planning (ERP) such as SAP® systems must be capable of integrating with Manufacturing Execution Systems (MES), i.e. the factory or warehouse floor control system must integrate with the commercial systems used in the company's offices.

ubigrate's C Connector for Enterprise solutions is a component which makes the connection between both worlds. For the automation engineer the C Connector is intuitively operable and for office staff information is presented in a manner which they will find instantly understandable.

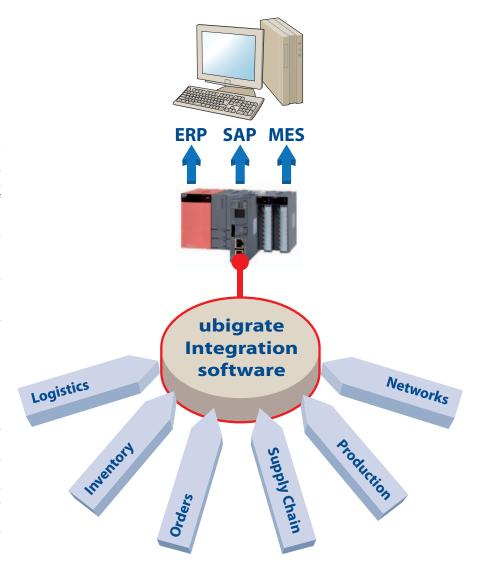
Cross-platform integration closes gaps

ubigrate's C Connector greatly simplifies the cross-platform vertical integration from field level to MES and ERP systems. Its software facilitates direct bidirectional exchange of data between a PLC and the ERP system. This allows both the collection of field device data and the sending of instructions directly from the ERP system.

The C Connector is so streamlined and efficient that it runs directly on a Mitsubishi C-CONTROLLER-CCU. It is very robust, so can be used on the shop floor and connected directly to I/O. Alternatively, it can be used as an aggregator to collect data from multiple PLCs, including 3rd-party products.

Wide fields of application

ubigrate's C Connector can be used literally anywhere a seamless integration from field level to ERP and other Enterprise software is required. This is profitable, for example, in the traceability in the automotive, pharmaceutical and chemical industries. Machine monitoring such as maintenance provision and quality control also benefit from the direct connection to field level data.





A library of template data sets

Templates

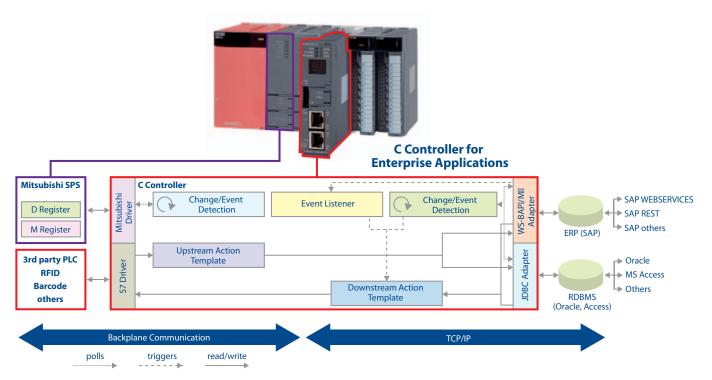
Target systems for the integration are individually selectable using a library of pre-configured integration templates that cover many different SAP® solutions (including PLM, EWM, and MII), Oracle and other databases as well as Web Services and CSV/ Excel file output.

This enables automation engineers to setup a direct connection to a target system just by using the selecting template. Using an intuitive graphical user interface, the template data can be filled in to complete the C Connector setup. Detailed knowledge of the target system and its interfaces is not necessary, as the correct communication is ensured by the template.

The C Connector is a standard component which minimizes integration expenditure, saves development time, reduces potential errors in the program code and lowers overall costs.

Connectivity ///

■ Mitsubishi Electric Hardware Specifications*



^{*}Minimum configuration: Power supply, PLC, C Controller, backplane

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