

Migration solutions

MiBridge – Migration made easy

From old to new PLC / DCS with minimised downtimes



Weidmüller 

Why migration is needed

Migration solutions avoid downtime and maintain productivity

Due to continuous technological changes, PLC/ DCS systems become obsolete and need to be replaced with new models. Many industries in process and energy, such as Pulp & Paper, Water Treatment, Oil & Gas, Power Generation and Metal Manufacturing require PLC / DCS system updates with minimum downtimes.

Migration is necessary due to the aging of the old system and becomes a priority when:

- the PLC or DCS manufacturer is discontinuing technical support and spare parts service for their system.
- the PLC or DCS is unable to interconnect with new or existing third-party systems and applications.
- the PLC or DCS cannot achieve the technical requirement (speed, reliability, scalability) of the new demands of the plants.

Converting a legacy system to a modern platform allows for an opportunity to improve plant operation, eliminating obsolescence risk and accelerates progress. Rewiring from the controllers to sensors, and field devices can make replacement a lengthy and costly challenge. To save costs and increase plant availability, MiBridge can retain the existing wiring.

THE LATEST TRENDS AND TECHNOLOGIES IN PLC/ DCS MIGRATION

Request your free white paper!

www.weidmuller.com/MiBridge



In our latest whitepaper we give you an overview of the most important theses and state the reasons for the necessity of a PLC/ DCS migration. Additionally we show you the cost of a conventional PLC migration and the possibilities for an efficient PLC/ DCS migration and how it is done in the most effective way.

PLC/DCS System Cabling & Migration Solutions

Renew what`s necessary: Your PLC, not your field wiring

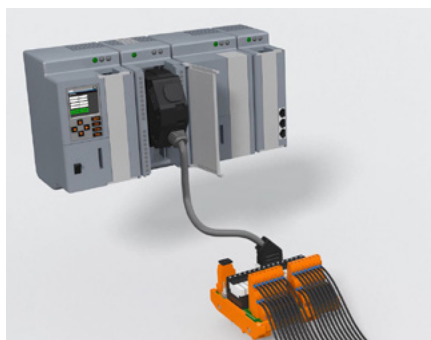
Weidmüller is able to support migration in 3 diferent scenarios.

Scenario 1: PLC/DCS system was installed with PLC interface modules

In this case, only the PLC/DCS cable with proper connector and the PLC/ DCS itself has to be replaced.



Old PLC/ DCS system



New PLC/ DCS system

Scenario 2: Card solution (rack in place)

If in the new installation has enough space to add the rack of the new PLC/ DCS without disassemble the old one. In this case, the adaptor card can be placed in the old rack, while the new control system is located in a different cabinet/ location. The adaptor card is provided with 2 connectors: the first one is used to connect the old PLC/ DCS connector to the filed wiring and the second one will be connected to a pre-assembled cable which will connect to the new PLC/ DCS.



Scenario 3: Bridge solution

The Bridge solution does not require any additional space in the control cabinet. The adapter chassis and bridge take the place of the old controller and combine the connections from the field devices to the new controller into one compact unit. With the new I/O mounted on the bridge, there is no need for additional cabinets and minimized length of cables anymore.



Overview

Space-saving bridge system

Convenient PLC/ DCS changeover within a few hours

With Weidmüller PLC/ DCS migration interfaces, there's no need to make any changes to the field cabling, so this shortens the amount of time needed to upgrade the entire plant. Indeed, what used to be a PLC/ DCS migration process that lasted a good few weeks is now an update that can be completed in just a few hours – including the system tests. Production facilities can return to operating as normal even after the briefest of downtimes.

MiBridge features

- No additional space required in the control cabinet
- Eliminates wiring errors. Existing field wiring remains as is and not disturbed
- Significantly reduces downtime
- Plug-and-play

DIGITAL SERVICES

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Space-saving bridge system

11500

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Selection Guide

Find the right interface cable for your I/O cards easily

galaxy-dev.weidmueller.com/wi_plc_migration/



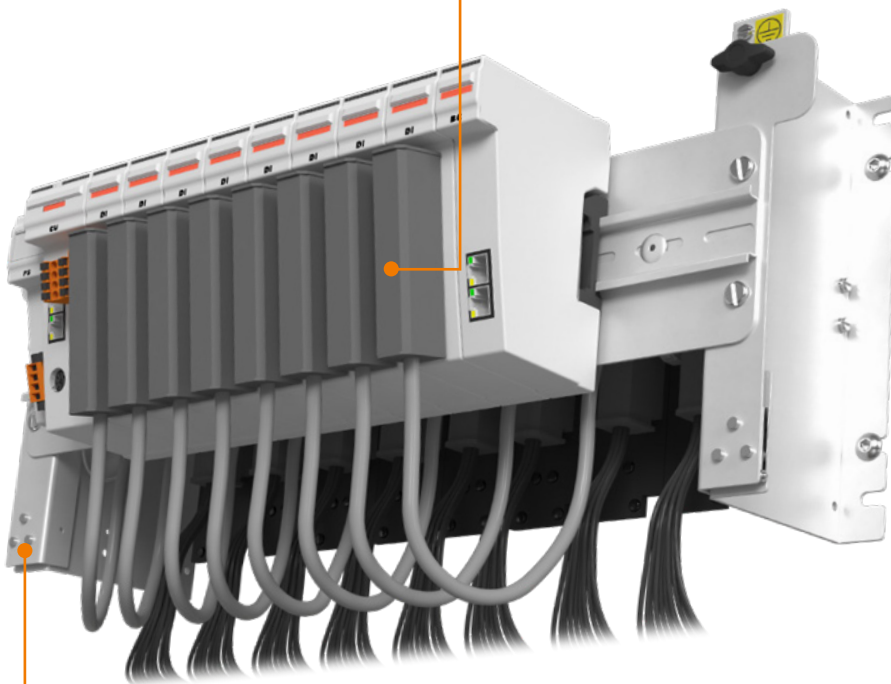
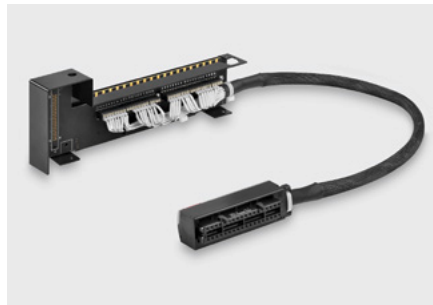
Use independent of the manufacturer

Regardless of the legacy PLC/ DCS manufacturer, at Weidmüller you'll find the perfect portfolio of migration solutions to suit your needs.



Error-free migration

Easy-to choose migration components and the possibility of combining tested, pre-assembled cables and front plug-in adapters make for error-free connection of the new PLC/ DCS.



Maximum space savings

With the bridge solution, the existing control rack is replaced, meaning that no extra space is required in the control cabinet. On two levels, the new PLC/ DCS is mounted in the same place above the existing controller. Migration is performed via an adapter card and a cable with the new PLC/ DCS connector.

Less space required

The rack system replaces the old control system and combines connection levels and the new control to create one compact unit. Due to the possibility of easily turning down the upper deck the connection components are accessible without any difficulty.



Needs-based solution

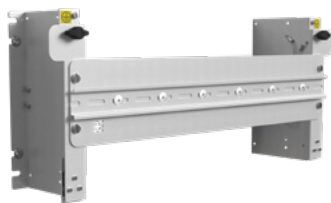
Our adapters and interfaces are the easiest way of combining old plants with new PLC/ DCS systems. There are no limits to the potential uses of our retrofitting components.



Retrofitting made easy – the migration process

Step 1

The bridge takes the place of the old control system so that no additional space is required in the panel.



Step 2

Front adapters are added so that the existing field wiring signal can be carried with pre-assembled cables to the new PLC/DCS.



Step 3

Lastly, the rail with the new PLC/DCS is positioned and the pre-assembled cable from the FAD is connected to the appropriate new I/O card.



Uniquely designed solution

The key to our migration platform is the design. It permits your existing field wiring to remain in place and undisturbed on the front panel adapter, and eliminates the need to wire-trace or ring-out.



Compatibility means flexibility

Weidmüller's migration solution includes several versions of card adapters and cable types enabling you to seamlessly migrate to any control system.



Minimal components maximise migration efficiency

The assembly is a universal conversion/migration system for main legacy PLC/DCS systems, enabling you to seamlessly migrate to any new control system.



Quick and efficient

Time savings up to 95% thanks to reduced cabling combined with a reduction in the testing and marking workload.



Safe and reliable

Convenient plug-and-play solution without the error sources typically seen in conventional cable processing and point-to-point wiring.



Equipped for the future

The control system can be updated and retrofitted without having to re-wire the sensors and actuators in the field.

Increase flexibility, simplify the update process

System cabling solutions for machine construction

MiBridge from Weidmüller offers a complete or partial solution for numerous manufacturers of PLC/ DCS – fast, easy, efficient. We can extend our current portfolio on demand.

Siemens	Schneider	Rockwell	Honeywell	GE-Fanuc	Emerson	ABB
Solutions for:						
S5-95U	TSX 47	SLC500	IPC 620 / Logic Manager	GE 9030 (Rx3i)	Westinghouse	S800
S5-100	PB400	PLC-5	C200	GE 9070	Provox	Bailey INFI/NET 90 (TA)
S5-115	TSX Premium	Control Logix	C300	Series 6 T (Salem)		Bailey INFI/NET 90 (TU)
S5-135	TSX Momentum	Compact Logix 5069	TDC 3000, PM, HPM, APM	Series 6 T (C'ville)		
S7-300/ET200M	M580 (BMX)	Compact Logix 1769	(PMI/O)			
Moore APACS	M340 (BMX)	Micro Logix 1500 / (1769 I/O)				
	Foxboro IA (100 Series)					
	Foxboro IA (200 Series)					
	Modicon Quantum					
	Modicon 984 (S800)					
	Modicon 584 (B200)					
	SYMAX					
	SCADA Pack					

Find the right accessories, cables and PLC interfaces for your time saving PLC / DCS System Cabling & Migration Solutions



Accessories

The racks have the same dimensions as the original old PLC/ DCS. The front adapters (FAD) are installed in the bottom section of the rack while the new PLC/ DCS is located in the top section. The racks are fitted with a hinge that provides access to the old cabling.



Custom cable assemblies

Consisting of either standardised or specific connecting lines – we provide you with the optimal solution for every cabling task



PLC/ DCS interfaces and pre-assembled cables

Future-proof cabling of your control systems with manufacturer-specific interface solutions

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