

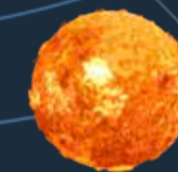
# TECHNOLOGY ▶▶▶ FUTURE MAP

A standard is like learning a different language. Bachmann's M1 system is based on modern hardware and software standards with one common character: Industrial!



## OPEN PROCESS CONTROL UNIFIED ARCHITECTURE (OPC UA)

A machine to machine communication protocol for industrial automation. OPC UA is an open interface standard that defines the mechanisms of cooperation in the industrial environment. It enables industries to network its production digitally.



## MODULE TYPE PACKAGE (MTP)

In the process automation industry MTP is used as a standard of communication between systems and supervisory level or backbone. Currently it is being adapted by our shipbuilding industry e.g. with the VDMA working group MTP in shipbuilding.



## FUNCTIONAL MOCK-UP INTERFACE (FMI)

FMI defines a standardized interface to be used in computer simulations to develop complex cyber-physical systems. It is well known with users of model-based engineering as it is very well suitable for hardware in the loop simulations.



## DATA DISTRIBUTION SERVICE (DDS)

DDS is a fast and scalable connectivity standard for IIoT working together with other protocols like OPC UA. It was designed for real-time systems e.g. for air-traffic control.