



CONNECT
STANDARDIZE
DIGITALIZE

TMC SERVER BY KÖHL

Standardized Machine Communication for
digital Tobacco Production

KÖHL TMC Server according to OPC UA-Standard

A single platform. One language for all machines.

The advantages - TMC Server by KÖHL

Production lines in the tobacco industry often consist of machines from different manufacturers and different generations. Proprietary interfaces and data formats frequently complicate integration with MES/MOM, WMS, SCADA, ERP, and analytics systems, limiting the ability to efficiently digitize the production process.

The **TMC Server by KÖHL** offers a unified data model for bidirectional data exchange and enables:

- Plug-and-produce integration
- Manufacturer independence
- Faster commissioning
- Unified production and status data
- Greater transparency and comparability
- A foundation for Industry 4.0 and digitalization

TMC Server by KÖHL for OEMs & Tobacco Manufacturers

Perfect for Machine Manufacturers

For OEMs without their own TMC solution, we offer standard compliant integration of the TMC software into their machines.

Perfect for Tobacco Manufacturers

The **TMC Server by KÖHL** enables the integration of new and existing machines without fundamentally altering their control programs. The benefits include faster digitization, improved data transparency across the entire production process, optimization through reduced interfaces, benchmarking, and more.

CONNECT. STANDARD.



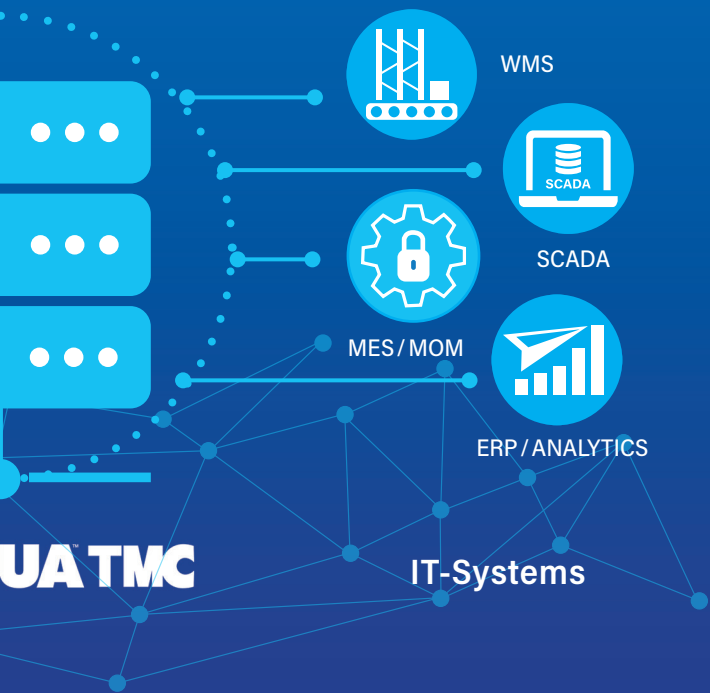
TMC Server by KÖHL - Features &

- ✓ **Based on the KÖHL IIOT Server**
Industrially tested and approved
- ✓ **Lean and efficient**
Edge-optimized, requires minimal resources
- ✓ **Maximum interoperability**
Supports leading PLC systems and communication protocols
- ✓ **Scalable**
From a single device to a complete production line
- ✓ **Secure**
Encrypted security mechanisms, certificate management, roles & permissions
- ✓ **Platform-independent**
Windows, Linux, Edge, and industrial PCs

Bidirectional Data Exchange

From the Shopfloor to IT-Systems & the Business Level

STANDARDIZE. DIGITALIZE



OPC UA TMC-Functions

Full TMC Support

Supports all TMC Conformance Units in accordance with OPC UA TMC

Standardized Information Model

Machines, Modules, Production Data & Plant Structures

Event Management

Real-time Collection & Forwarding

Alarm Management

Unified Management & Analysis of Faults

Methods and Control Functions

Interfaces for Machine Interactions

Historical Data

Provision of Production, Status, & Quality Data

Production and Quality Data

Machine Statuses, Production Metrics & Performance Data

Quality and Asset Management

Control & Management of Master Data

advantages of the proven platform

- ✓ **Container-ready**
Easy deployment via Docker
- ✓ **Data-centric architecture**
Structured and standardized for advanced applications
- ✓ **Data harmonization**
Simplification of different data structures and signal definitions
- ✓ **Data normalization**
Comparable information for a common data language
- ✓ **Data engineering**
Captures, calculates, combines, and aggregates raw data into meaningful metrics

TMC Server by KÖHL - Can do even more

Monitoring & Alerts

Full transparency into production and malfunctions in real time

Edge Architecture

Data processing where it is generated. Reduces network load and response times

Brownfield & Retrofit

Integration of existing machines without costly modifications or PLC adjustments

Automation Support

Experience with Siemens, Beckhoff, and other automation systems

Support & Training

From implementation to operation: consulting, training, and technical support

TMC Server by KÖHL: Expertise & Support

Retrofit. Greenfield. OEM Integration



Retrofit of Existing Machines

TMC integration is also available for existing systems without manufacturer support. The digital upgrade for your existing machines can be performed without the need for complex control system modifications.



TMC for new KÖHL Projects

Seamless integration of the TMC standard right from the machine development phase. For maximum interoperability and faster commissioning at the customer's site.



Support for OEM Integration

We integrate machines from other manufacturers into TMC-based production environments. From PLC connectivity to full TMC integration, we support OEMs on their path to standard compliance.

INFO · CONTACT

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Additional information

