

Track & Trace



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Serialization

Quality assurance

Product safety

PLM Direct

The Easy Way to Serialization

METTLER TOLEDO



Simplified Track & Trace: PLM direct Serialization with no detours

Implementation of Track & Trace requirements for pharma products can be a complicated process when dealing with staged packaging lines with serialization and aggregation, or when the same product is being manufactured across parallel lines. Often these requirements are limited. PLM direct from Mettler-Toledo PCE now offers a direct connection between the XMV or XMV TE serialization station and the outside world. When serialization is running on a single station, PLM direct is the right choice.

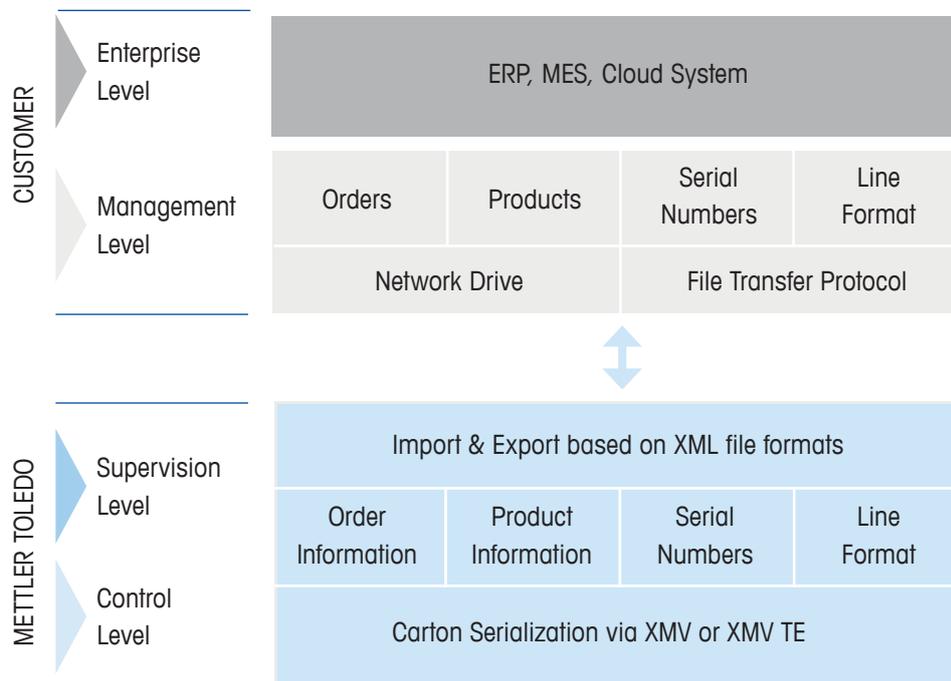
Data exchange is handled using standard XML formats, integrating the serialization station into the customer's system.

Preconfigured for short-term production starts

PLM direct is preconfigured according to customer requirements. To further reduce complexity and increase ease of use, we limit the coding scenarios to those that are really needed—securing a fast production start with minimum downtime.

Safety even at high speeds

The PLM direct database scheme is developed for high-performance data-storage, guaranteeing fast data-exchanges with line speeds up to 400 pieces per minute. Order data is transferred from the customer system to PLM via a direct XML data exchange. When the serialization order is finished, the complete data-set is retransferred via FTP data-upload or local data storage as defined by the customer. PLM direct provides simple connectivity between serialization stations and MES-, ERP-Systems or cloud solutions.



PLM direct: Your entry into serialization with XMV or XMV TE



Serialization Station XMV



Serialization Station with Tamper Evident Module XMV TE

The XMV prints 2D code and plain text on cartons and verifies the printed elements using a Smart Camera, allowing code printing and verification on the front, rear, and / or top side. Different Inkjet or Laser print systems and numerous electrical and mechanical options for the XMV ensure a flexible adaptation of solutions according to customer requirements.

In addition to the functions of the XMV, the XMV TE as an integrated solution provides a Tamper Evident (TE) module. It applies tamper evident seals on both open sides of the carton at speeds of up to 300 pieces per minute. This ensures the integrity of the packaging as prescribed in the European Standard EN 16679.

PLM direct - The Advantages:

- **Buy what you need:** PLM direct is made for standalone stations with their specific requirements in serialization.
- **Preconfigured,** so it fits all the customer requirements without long preparation times.
- **On-site set-up and start-up services** are included in the package.
- **Software supports all coding scenarios** of the relevant markets like GS1, non-GS1 or China Coding.
- **Open XML-interface** allows direct data-integration into the customer's MES- or ERP-system or the preferred cloud system.
- **Flexible and scalable:** once requirements increase e.g. in the direction of managing entire lines or if aggregation is needed, the software can be upgraded.
- **Special training** imparts all the knowledge for serialization on single stations.
- **Draws on our extensive experience** in designing and controlling hundreds of pharmaceutical packaging lines.



Depending on the complexity of Track & Trace requirements, Mettler-Toledo PCE's new PLM direct or the combination of PLM and PSM are the right choice:

	PLM direct	Combination of PLM and PSM	
		PLM	PSM
			
Serialization	✓	✓	
Aggregation	X	✓	
Preconfigured coding scenarios	✓		
Serial Number Handling	✓		✓
Line management (from carton to pallet)	X	✓	
Control of parallel lines on one site	X		✓
One product manufactured on multiple parallel lines	X		✓
Open XML-format for data-exchange	✓		
FTP-Upload	✓		
Flexible data-format due to customized connectors	X		✓
Local database	✓		
One customer database for multiple lines	X		✓
Product Data Storage	X		✓
Imported order data contains product master-data	✓		

Why Serialization?

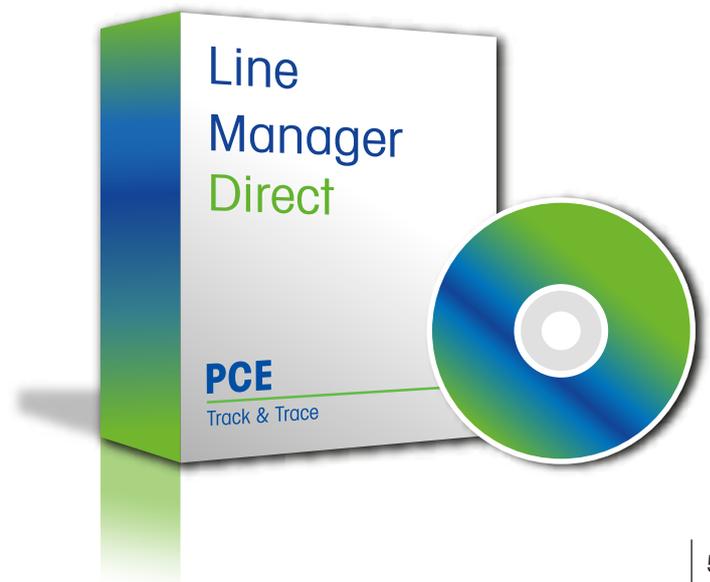
Following international standards with T&T

For manufacturers in a variety of industries, the successful tracking and tracing of products along the sales and logistics chain is becoming an important requirement for success. Whoever implements a consistent Track & Trace by means of serialization takes an important step in the quality assurance process.

The pharmaceutical industry is facing far reaching requirements for product marking and verification in order to protect goods against product piracy and counterfeiting. An increasing number of countries are releasing laws asking for in-line printing of product data, unique serial numbers, expiry dates, batch data and potential other information.

The European Union's EU-2011/62 regulations require serialization with direct product marking and immediate verification of printed data, as does the US Drug Quality and Security Act (DQSA). Other geographical markets across the globe such as China, Korea, Brazil and Saudi-Arabia have issued similar regulations. All data must be stored and submitted to a central database to verify products have not been counterfeited.

For many years, Mettler-Toledo PCE has offered the PLM and PSM software suite for the in-line management of all printing, verification and data management processes. While the PLM manages the line processes, the PSM handles the interaction and synchronized data exchange across multiple lines of a production site and provides an interface to the customer's ERP or external cloud system. The combination of PLM and PSM provides integration of parallel manufacturing processes in complex lines with serialization and aggregation from single cartons up to pallets.



Competence through experience

METTLER TOLEDO PCE develops solutions drawing on over 25 years of experience with customers in the pharmaceutical industry. We meet even the strongest regulations worldwide delivering rapid installation and efficient operation of our equipment and software solutions. Every day, our solutions are checking, serializing and verifying millions of pharmaceutical products in more than 600 production lines all over the world.

www.mt.com/pce

For more information



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