

MedTracker - Unique Code Software

The Problem - Pharmaceutical Falsification

Counterfeiting in the pharmaceutical market has grown into a highly lucrative industry, posing a serious threat to public health and safety.

In response, governments have introduced legal frameworks to combat counterfeits and protect consumers. While strategies vary by country, they all rely on a common principle: the use of unique product identifiers or serialization codes to ensure authenticity, product integrity, and patient safety.

The Solution - UCS

While these initiatives are both welcome and necessary, they also present a unique challenge for pharmaceutical manufacturers. Companies must ensure compliance with diverse regulatory requirements across all export markets while managing the vast amounts of data generated by individual product codes.

Before products can be packed and shipped, the serialization codes must be printed and verified - typically on flat, unfolded cartons by external print providers acting as CMOs (Contract Manufacturing Organizations) for pharmaceutical manufacturers or Market Authorization Holders (MAHs). Consequently, print shops handling these tasks require specialized software systems focused on high-speed printing and ensuring the absolute uniqueness of each printed code.

UCS is a powerful, flexible, and highly secure solution designed specifically for high-speed printing while guaranteeing the uniqueness of every code. The software facilitates efficient order management and eliminates the risk of duplicate prints, making it especially valuable for print shops operating as CMOs in the pharmaceutical sector

The **UCS** Advantage

Authenticity & Counterfeit Protection

High-Security Architecture

Improving Product Safety & Quality Assurance

Increasing Customer Confidence

Efficiency in Logistics & Inventory Management


Support for Compliance & Regulatory Requirements

High Flexibility & Open Interfaces

Integration of Digital Technologies

Competitive Advantages

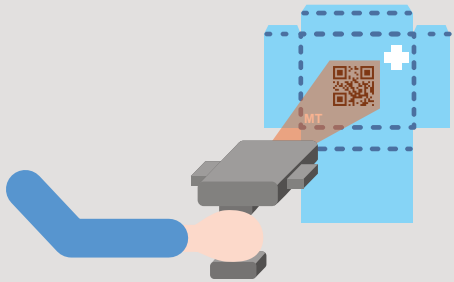
UCS - Key Benefits & Functions



Unique Serial Numbers

UCS ensures that each serial number is imported only once by checking for duplicates during order creation and tracking previously imported codes, even if an order is deleted. Only serial numbers with the status "undefined" (i.e. new and unused) are sent to the printer, and once submitted, their status changes to "marked," preventing reprints.


The Unique Scopes Application allows users to define and manage which codes require uniqueness, with the flexibility to disable checks when printing identical samples.



Last Workstep Monitor


To ensure a 1:1 match between printed items and the **UCS** report, any unverified boxes - e.g. after a machine crash - must be removed from the conveyor. Duplicate codes are prevented, as all printed codes are set to "marked" and cannot be reused.

For QA or retention, verified boxes can be removed during production using handheld scanners (status changes to "NOK"). After job completion, removal must be done via the Manual Rework application.




Order Application

Instead of manually loading production orders via USB, **UCS** automatically sends each machine its dedicated order. This ensures that all serial numbers are unique per order and machine, minimizing human error and improving process reliability.



Reports

UCS generates simple result lists showing the status of each serial number as "OK" (verified) or "NOK" (rejected due to unreadable or mismatched codes). With the Last Workstep Monitor, a precise match between reported OKs and physically delivered items is ensured.



Import Management

UCS supports the import of customer orders in various proprietary formats by converting them into the standardized XOF format (XML-based Order Format by SeriSoft). This ensures smooth integration into the **UCS** database and allows manual, semi-automatic, or fully automatic processing.



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