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What is **Serialization** in Pharma?

The implementation of serialization solutions requires unique serial numbers to be encoded to track products throughout the whole supply chain. Learn more.

What is Serialization and Why Does It Matter?

Serialization has become established as one of the most essential components of the global pharmaceutical industry. It is one of the main weapons used in the ongoing fight against fake medicines and counterfeit goods.

The serialization process involves assigning a unique serial number to each pharmaceutical package. This means that goods can be identified and tracked throughout the entire pharmaceutical supply chain, with key information, including the product origin, expiry date, and batch number, being easily identified, and associated with the respective serial number.

Serialization has become so valuable in the fight against fake medicines that governments across the world have now made serialization solutions and pharmaceutical track and trace technology a global standard. Many countries in the European Union, the USA and the Russian Federation have included serialization in their pharmaceutical product safety regulations, introducing many different regulations, such as the GS1 standards.

Advanco's Solutions

Advanco helps pharmaceutical firms across the world to achieve essential global traceability compliance standards. Already trusted by over 100 of the leading global pharmaceutical manufacturers, advanco can provide everything from installation to fully managed solutions across the entire supply chain that can integrate seamlessly with existing software.

Packaging Needs

Counterfeit products are a profoundly serious issue. According to the World Health Organization, roughly 10 percent of medical products circulating in low- and middle-income countries are substandard or falsified. Governments are addressing this global crisis by creating laws that mandate serialization solutions as essential for pharmaceutical companies.

ARC MES/Cockpit is a specialist site management system that handles the entire serialization and aggregation process. It collects data from the packaging lines and sends back printed serial number reports to the company repositories (Level 4) or the country repositories (Level 5). Read more about ARC MES/Cockpit: https://www.advanco.com/arc-mes-cockpit/
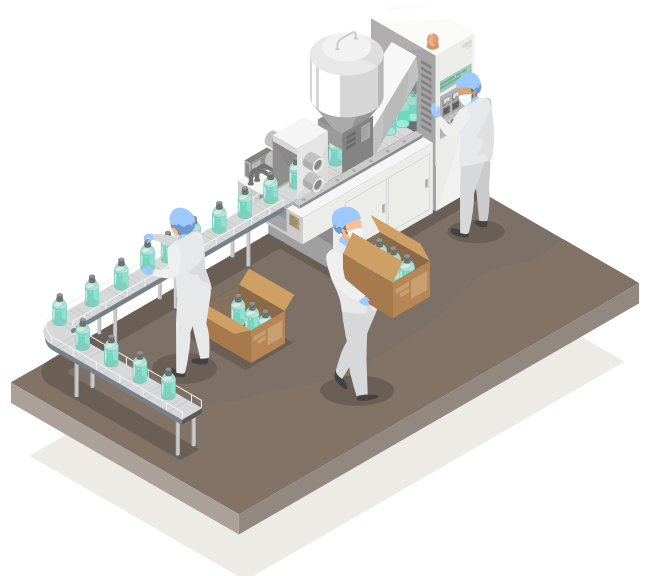
Warehouse Needs

Warehouse management has always been a challenge for pharmaceutical companies because of the manual work required and the hardware restrictions for post-packaging order reprocessing. Newly introduced regulations only make this challenge harder due to pre-existing weak integrations.

ARC LES manages inbound and outbound movements and serialized warehouse operations. With inbound operations, ARC LES integrates with the contract partners to accept goods automatically, or after manual label scanner checks, which is especially useful for returns and goods receipts. When it comes to outbound solutions, ARC LES controls delivery operations from pallet level down to the individual serialized items and integrates with ARC MES/Cockpit to transmit details to the delivery partner.

The ARC LES Workstation is a compact solution for warehouse and shop-floor operations, featuring an industrial PC, touchscreen display, network-connected label printer and wireless handheld scanner. The ARC LES Mobile solution gives the flexibility to manage a serialized inventory from anywhere, using a handheld scanner. Finally, ARC LES

Edge simplifies serialization in warehouse operations further by connecting directly with any serialization solution and ERP system to perform real-time inventory tracking and management.

Read more about ARC LES at https://www.advanco.com/arc-les/

Supply Chain Needs

The implementation of serialization requires unique serial numbers to be encoded to track products throughout the whole supply chain. It is a highly complex process due to data transfer and integration of multiple IT solutions by different companies, providers, and countries.

With its agile supply chain experience dating back to 1981, advanco's ARC platform provides regulated serialization solutions across the entire manufacturing process – from production to packaging and loading.

Advanco's ARC platform for regulated track and trace from Level 2 to Level 5, offers maximum flexibility, extremely high security, and adheres to strict global governmental compliance levels without sacrificing quality standards. Designed to support a variety of packaging-line technologies and production management systems, ARC serves as the central hub for managing pharmaceutical serialization data and simplifies product traceability across the whole supply chain thanks to integration at key enterprise levels.

The full suite of ARC products comprises:

- **ARC MES/Cockpit:** Serves as a packaging management cockpit for serialization and aggregation operations, with an open and secure interface technology: ARC MES/Cockpit - Advanco

- **ARC LES:** Specialises in warehouse and packaging shop-floor operations, including rework-after-serialization and shipment management, to increase inventory management efficiency: ARC LES - Advanco

- **ARC LES/EDGE:** A mobile application supporting the handling of warehouse and packaging shopfloor operations, including rework-after-serialization and shipment management: ARC LES Edge - Advanco

- **ARC Cloud:** Provides supply-chain level data exchange without compromising the on-premises level reliability. ARC Cloud marries strong site management features with the capability to coordinate multiple supply chain partners in the cloud platform: ARC Cloud - Advanco

- **ARC Cold Chain:** Enables easy management, maintains compliance, and utilizes historical data to optimize processes: ARC Cold Chain - Advanco

- **ARC SAP Adapter:** Provides supply-chain level data exchange without compromising the on-premises level reliability: ARC Sap Adapter - Advanco

Helping you meet Pharmaceutical Compliance Requirements

Advanco's serialization solutions are all designed to be fully compliant with specific geographical compliance regulations - we currently work with over 100 leading pharmaceutical firms located across the globe.

Our experts are established as some of the leading innovators in the pharmaceutical serialization sector. We continuously monitor for new developments and are proud that are solutions lead the way when it comes to answering these very specific requirements.

If you would like to request a demonstration of the advanco's ARC platform, please visit: Request a Demo - Advanco.