Pharma Cold Chain Monitoring

Infosys solution for Pharma Cold Chain Monitoring powered by SAP

Ensure drug safety and efficacy throughout the Pharmaceutical Supply chain.

Active Pharma Ingredients (APIs) and finished Drugs are often sensitive to ambient conditions like temperature, light, vibration, humidity etc. To ensure the drug efficacy, Pharma products and APIS must be stored and transported in prescribed ambient conditions.

Drug Manufacturers often had cold chain solutions that operated in silos. Effective Cold Chain solutions are those that monitor and maintain ambient parameters throughout the Life cycle of the drug right from manufacturing to drug administration to the patient.

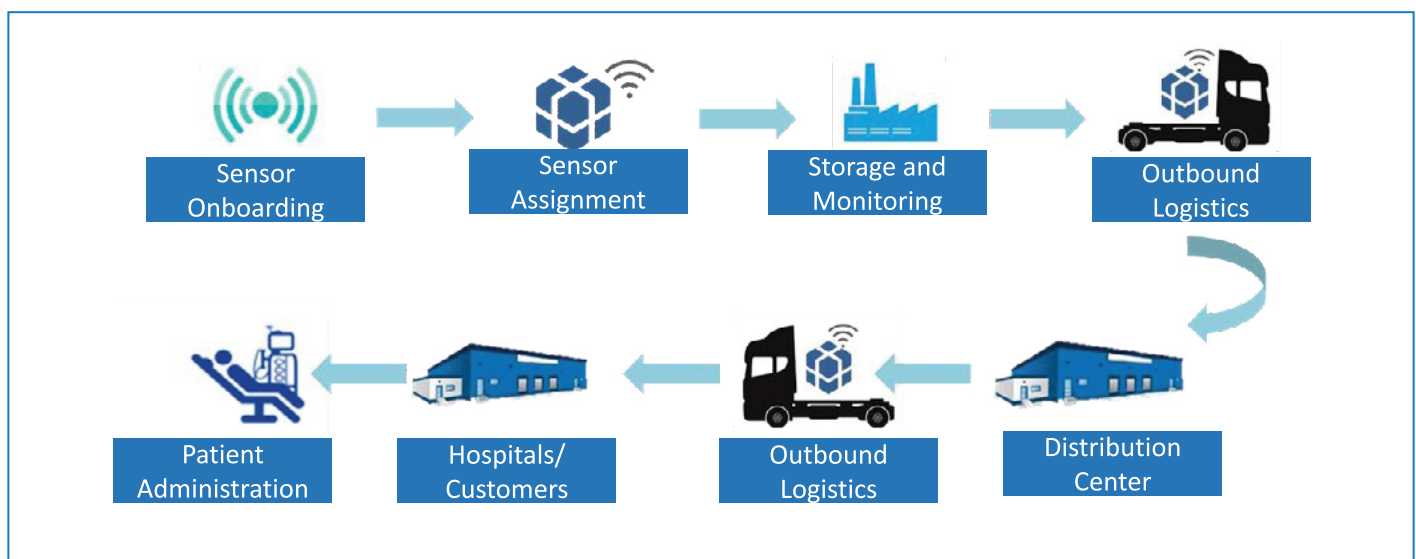20 % of Pharma products are damaged due to temperature excursions alone. Add other parameters like the Light, Humidity etc. and the product losses mount up to $35 billion per year.

Further the costs of regulatory compliance, logistics and corrective and preventive actions (CAPA) add to the actual loss through the lifecycle of the product.

Infosys' Cold Chain solution provides a unified platform leveraging SAP BTP that can be integrated with the Manufacturers ERP and EWM systems. It allows the Drug Manufacturer to Onboard Devices to create Digital Twins', which can then be monitored for various ambient parameters that must be controlled.

SAP Fiori based intuitive User interface ensures consistent user experience across all the supply chain functions.
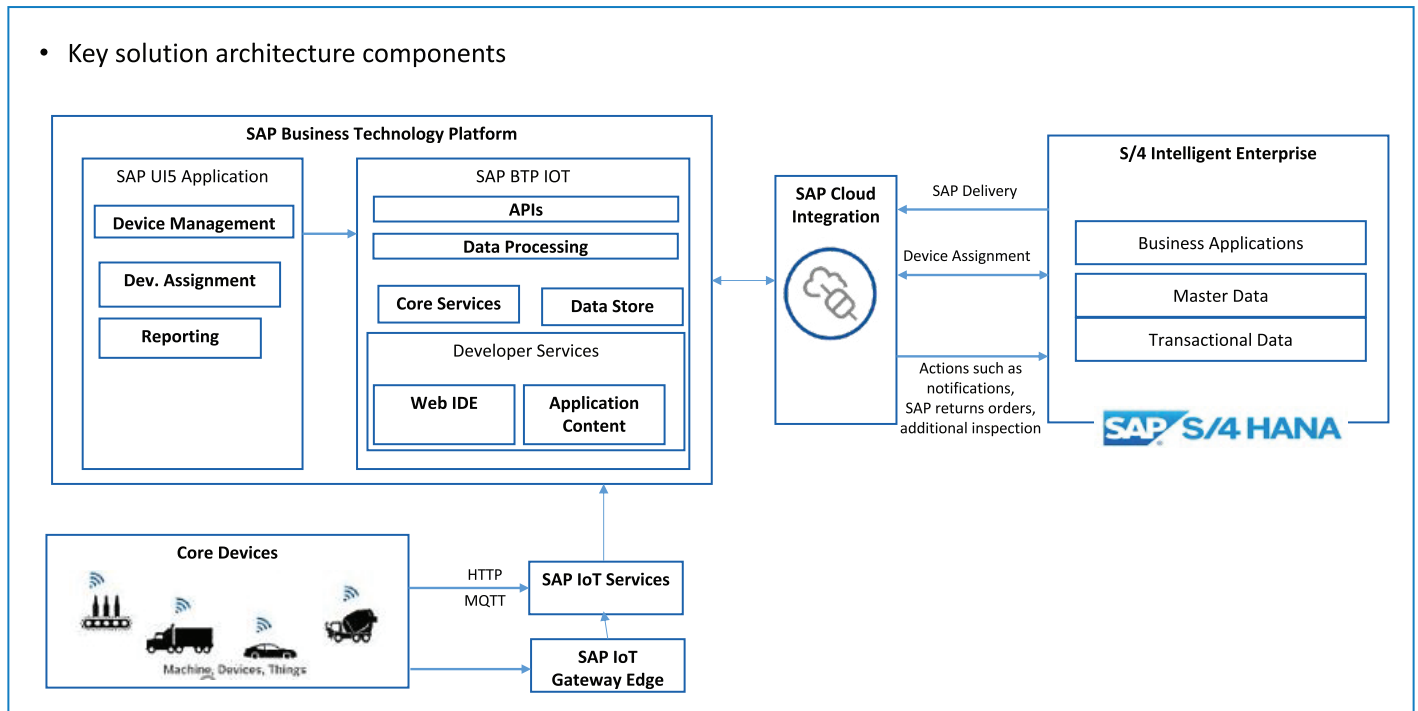

Key Elements of Infosys Cold Chain solution are based on Best Practices and Rich Domain and technology Experience

Sensor Onboarding → Sensor Assignment → Storage and Monitoring → Outbound Logistics → Distribution Center → Outbound Logistics → Hospitals/Customers → Patient Administration

---

Infosys Cold Chain Monitoring Solution leverages SAP BTP for developing the application that allows device onboarding, device assignment and monitoring. The User interface is built using SAPUI5 technology for consistent user experience. The design is modular and can be integrated with Manufacturers ERP and EWM Solutions.

Solution Architecture:

- Key solution architecture components

Key Solution components & Benefits
Infosys Cold Chain Management Solution delivers the following key features-

Key Features

- Unified Platform for Onboarding, Assigning Devices and Monitoring ambient parameters.
- Ability to track Temperature, Humidity, Light, Vibration, Pressure.
- Graphical representation of ambient conditions through intuitive graphs and charts.
- Consistent User experience across the supply chain
- Automated monitoring of Time out of refrigeration
- No Loss in the available TOR for a Material/Batch combination even when the product changes ownership in the supply chain.

Benefits

- Reduction in product losses due to ambient condition excursions
- Faster, Leaner, and integrated process execution
- Improved accuracy of Realtime TOR Data and Monitoring
- Improved decision making with TOR Based Priority Picking. Batches nearing Max TOR limit could be picked first.
- Improved Regulatory Compliance
- Added Support for Stability and Reserve Samples.

For more information, contact askus@infosys.com

Infosys®
Navigate your next

Infosys.com | NYSE: INFY

Stay Connected