SYNTEL
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Syntel's Smart Pharma Solution – Improving Quality of Life for Patients
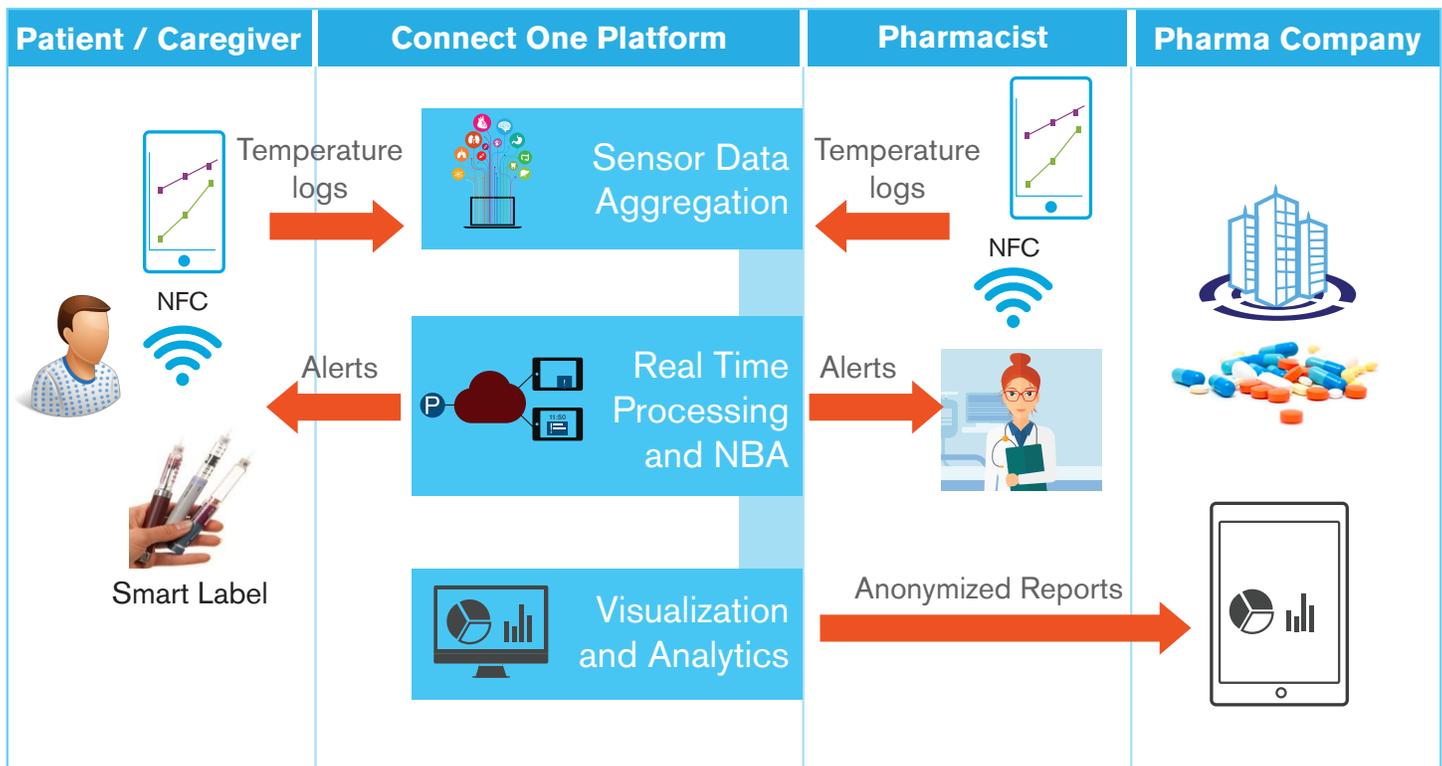
In today's world, digital innovation in life sciences predominantly focuses on consumers and external collaboration, not on end-user empowerment. Syntel's Smart Pharma solution takes the next step, delivering a comprehensive digital platform that empowers patients, pharmacists and pharma companies with a suite of smart interactive apps and platform services that span various interaction points.

Quality control is of paramount importance for the Pharma industry, but for temperature sensitive and biological engineered drugs, the logistics chain takes on even greater significance. For such drugs, Syntel's Smart Pharma solution ensures original quality and Good Manufacturing Practice from manufacturing, distribution, and the "last mile" from pharmacy to patient.

Syntel's Smart Pharma consists of the following modules:

- **Patient app** – Reads temperature history from smart label and displays drug quality information.
- **Pharmacist app** – Reads temperature history from smart label, provides access to temperature log and receives alerts.
- **Connect One IoT platform** – Aggregates sensor data and advises the next best action.
- **Web dashboard** – Enables visualization of various reports based on analytics.

Benefits of SyntBots

Patient / Caregiver	Connect One Platform	Pharmacist	Pharma Company

Temperature logs → Sensor Data Aggregation ← Temperature logs

NFC

Alerts ← Real Time Processing and NBA → Alerts

NFC

Smart Label

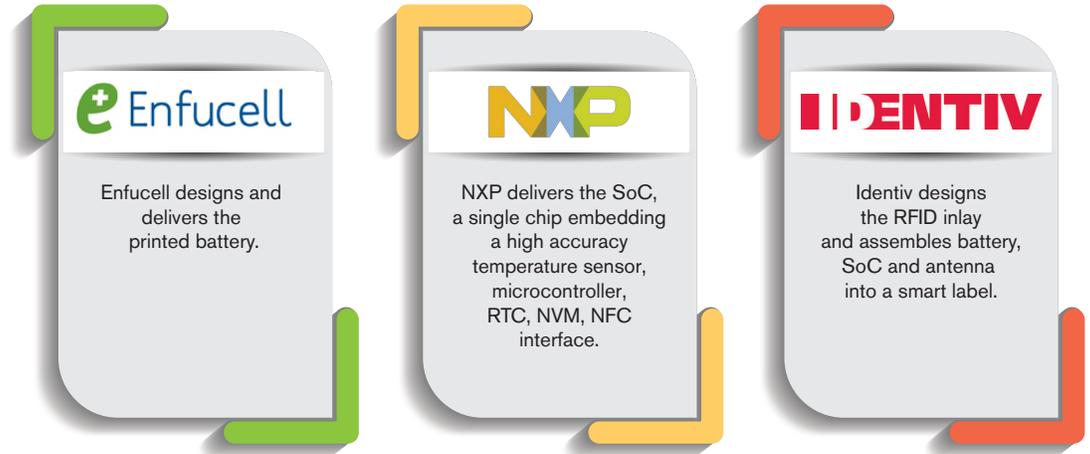Visualization and Analytics → Anonymized Reports

SOLUTION HIGHLIGHTS

- Mobile app for Android that reads smart labels via NFC and checks the drug's validity
- Easily configured temperature boundaries can be set for each smart label
- Enables different temperature logging intervals, from several seconds to many hours
- Syntel's Connect One IoT platform aggregates sensor data and performs real-time processing of next best action
- Dashboard and reporting for pharmaceutical manufacturers enables trend and safety analysis
- Helps the supply chain and logistics team identify counterfeit products

Business Benefits

- Quick identification of temperature excursions
- Reduced intake of invalid drugs
- Improved patient outcomes
- Reduced cost of care

Syntel is developing the Smart Pharma solution along with the following partners:

Enfucell

Enfucell designs and delivers the printed battery.

NXP

NXP delivers the SoC, a single chip embedding a high accuracy temperature sensor, microcontroller, RTC, NVM, NFC interface.

IDENTIV

Identiv designs the RFID inlay and assembles battery, SoC and antenna into a smart label.

Digital One™

Syntel **Digital One** enables enterprises to transform into digital enterprises by leveraging the power of mobility, social, Big Data Analytics, Internet of Things and cloud technologies. Digital One combines Syntel's domain and enterprise systems expertise with next-generation technology capabilities to deliver end-to-end digital transformation to drive business outcomes.

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