

Brochure

# LTIMindtree's T-Cell Therapy Deployment Solution

SAP-Based Personalized  
Supply Chain

## Current Business Scenario

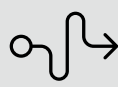
T-cells, also known as CAR T-cells, are genetically engineered chimeric antigen receptor cells. These T-cells produce artificial T-cell receptors used in immunotherapy for cancer patients. When infused into a patient, the T-cells act as a "living drug" against cancer cells.



**Today, life sciences organizations experience specific challenges across the T-Cell delivery process, including:**



Complex process with limited real-time monitoring for therapy registration, transportation, processing, and treatment appointments



Lack of end-to-end process track and trace capabilities in real-time within SAP system connected with hospital patient monitoring systems



Difficulty in patient scheduling aligned with the production schedule



## What is LTIMindtree's T-Cell Therapy Solution?

- LTIMindtree's T-Cell Therapy Solution addresses relevant challenges and provides a seamless platform to track the end-to-end patient treatment cycle

---

- Our solution tracks all the stages – from patient registration to T-cell sample infusion – delivering real-time visibility into the entire chain of events. It helps plan the capacity in the plant and schedule the patient infusion accordingly

---

- With LTI's T-Cell Therapy Solution, you can handle multiple therapies in multiple regions, while ensuring tight integration with the ERP system



## Salient Features of LTIMindtree's T-Cell Therapy Solution

- Efficient compliance scheduling and monitoring system
- Closely integrated with ERP Systems and Warehouse Management
- End-to-end supply chain process at the plant, including patient information, Apheresis, and infusion center, physician, and logistics carrier
- Provides visibility into patient's time and temperature-sensitive blood during shipment
- LTI's solution is compatible with both ECC as well as S/4 Hana platform
- Validates appropriate Logistics carrier and Apheresis inbound transport, outbound to the infusion center
- Ensures T-cells are processed and returned to the same patient according to the required timelines
- Improves capacity planning for T-cells therapy deployment
- Enables real-time processing of Apheresis at the plant, enforcing quality control norms and documentation requirements
- Handles multiple therapies in multiple regions



# How LTIMindtree's T-Cell Therapy Solution Helps Pharmaceutical Companies?

Our SAP-certified solution is a best-fit, holistic supply-chain delivery capability encompassing processes and procedures compliant with local regulations (FDA, HIPPA, GMP, and more) and a self-contained audit trail. **The solution provides:**



**100%** tracking and tracing of batch numbers with both external and internal stakeholders



Improves capacity planning at the processing plant by **25%** or more



Provides infusion appointment at the time of Apheresis appointment with **100%** accuracy



Enhances process efficiency with auto-notifications circulated to external parties for transportation, highlighting the requirement for timely delivery



Ensures up to **30%** shorter cycle time to complete vein-to-vein process with improved visibility into process stages in real-time



Comes with an intuitive dashboard providing color coding for deployment stages, allowing users to track and trace the process at a glance

# CAR-T Process Tracker

4

in Treatment



@ Apheresis



to Plant



@ Plant



to Infusion























@ Infusion



Completed



Cancelled

Patient Id	Treatment Id	Name	Apheresis Ctr.	Current Status	Registration Date	Stage
6EPP-788A-	68DPP-85YD	Richardson, David	0001000086	Drug Received by Infusion Cent	09/07/2020	    
7ED-887A-Y	7ED-AMYD01	Henrich, Mark	0001000086	Process Order Created	09/06/2020	    
EF-8810YZ	ZZ-ZMY919	Block, Joe	0001000086	Process Order Created	08/28/2020	    
4EPP-777A-	48DPP-7MYD	Sydiangco, Pamela	0001000086	Process Order Created	08/28/2020	    

## About LTIMindtree SAP Life Science

LTIMindtree has a long-term relationship with SAP, which spans over 20 years. In this collaboration with SAP, we are uniquely positioned as Partner, Co-Innovator and Customer. Being the pioneer of the first SAP implementation in India, SAP has deep expertise coupled with an Engineering DNA, which enables our clients to build a robust digital ecosystem.

As our crucial Line of Business, LTIMindtree's deep expertise in the Life Sciences domain, coupled with our solutions across digital, automation and smart manufacturing, can help drug makers effectively address industry challenges. LTIMindtree strives on optimizing the client's businesses with improving the business process efficiency with robust ERP implementations and application portfolio rationalization.

**Limitless  
Life Sciences**

#limitlesslifesciences

### About LTIMindtree

LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 84,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit <http://www.ltimindtree.com>.