

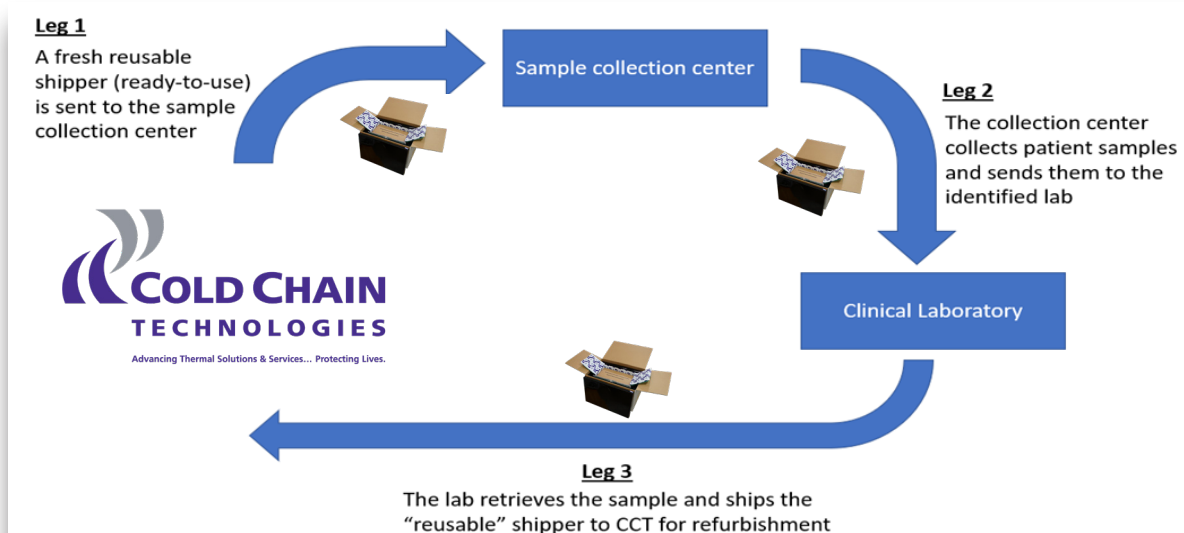
ENHANCING ASSURANCE AND COMPLIANCE FOR CROs

NEED:

The Clinical Research Organizations (CROs) manage various clinical studies across many different sites and provide temperature sensitive shipping solutions for samples from the sample collection sites to laboratories. They need to track each shipment to those sites, and then to the specific laboratories, to ensure the samples, clinical studies are strongly connected and that they have visibility on where these samples / shipments are at all times.

When managing multiple studies across hundreds / thousands of collection sites and labs, this can become extremely complicated. Tradition sample collection programs require CROs to purchase and coordinate the bulk distribution of thermal packaging to clinical sites, and require the physicians, nurses, and clinical coordinators at those sites to correctly condition refrigerants and pack out boxes for shipments.

In many instances, this is a manual process and while some customers may have automated processes internally, they are not integrated with their shipping solutions provider and hence cause significant overheads and logistical challenges to CROs.



Leg 1

A fresh reusable shipper (ready-to-use) is sent to the sample collection center

Leg 2

The collection center collects patient samples and sends them to the identified lab

Leg 3

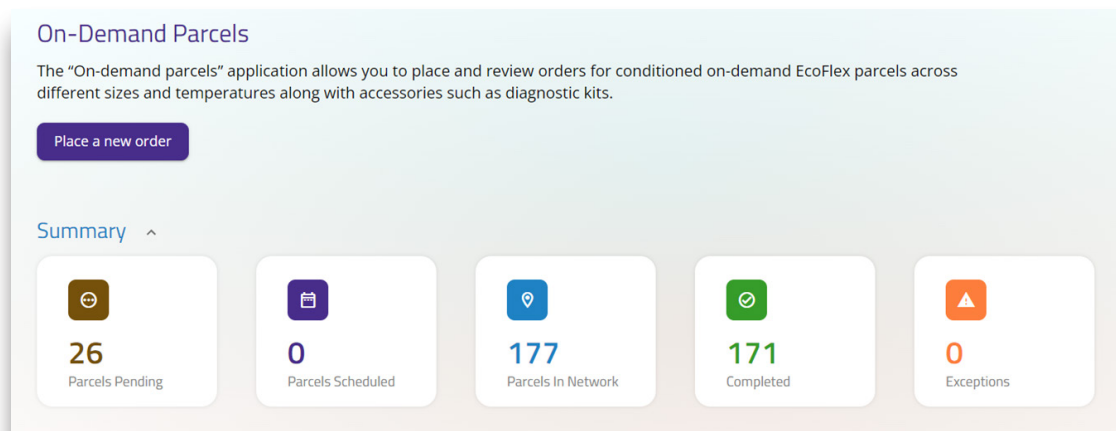
The lab retrieves the sample and ships the "reusable" shipper to CCT for refurbishment

SOLUTION:

CCT, a leader in the Reusable passive thermal packaging space recognized this need and worked with a leading Global Clinical Research Organization (CRO) to develop a "On-demand Parcel" application that can help automate this entire process. This leads to a reduction in study management, logistic overheads, reduction in errors, manual interventions, easier clinical shipping process and end-to-end tracking to enhance compliance and assurance. This application enables a closed loop system, including a web ordering portal, offering just-in-time ordering and ensuring all sample logistic activities are well-coordinated.

This application is available through the CCT Smart Solutions™ portal and provides customers the ability to set up new clinical studies, onboard clinical sites and manage testing laboratories, while placing orders online for ready-to-use shippers. Through the platform, the location and progress of these samples can be tracked and monitored at any time. The visibility to the shipment is provided at each leg of the journey as well as at the Composite level (so that the shippers can be tracked individually and tagged to a specific trial).

Below are some snapshots from the On-Demand Parcel application - how the customer can see a summary of all shipments in the network:



Parcels in Network ^

Search parcels

ORDERS TO SHIP TODAY

Order	Clinical Study	Clinical Site	Shipper	Kit	Laboratory	CCT Ship Date	Clinic Receive Date	Clinic Ship Date	Status
552570			Small (6L), 15 to 25...	Small Diagnostic Kit		10/Nov/2022	11/Nov/2022	11/Nov/2022	In Network
552569			Small (6L), 15 to 25...	Small Diagnostic Kit		10/Nov/2022	11/Nov/2022	11/Nov/2022	In Network
552567			Small (6L), 15 to 25...	Small Diagnostic Kit		09/Nov/2022	10/Nov/2022	10/Nov/2022	Completed
552558			Small (6L), 15 to 25...	Small Diagnostic Kit		09/Nov/2022	10/Nov/2022	10/Nov/2022	Completed
552549			Small (3L), Dry Ice. I...	Small Diagnostic Kit		14/Nov/2022	15/Nov/2022	15/Nov/2022	In Network
552508			Small (3L), Dry Ice. I...	Small Diagnostic Kit		14/Nov/2022	15/Nov/2022	15/Nov/2022	In Network
552507			Small (6L), 2 to 8C. I...	Small Diagnostic Kit		14/Nov/2022	15/Nov/2022	15/Nov/2022	Completed
552463			Small (3L), Dry Ice. I...	Small Diagnostic Kit		08/Nov/2022	09/Nov/2022	09/Nov/2022	In Network
552462			Small (6L), 2 to 8C. I...	Small Diagnostic Kit		08/Nov/2022	09/Nov/2022	09/Nov/2022	Completed
552454			Small (6L), 15 to 25...	Small Diagnostic Kit		14/Nov/2022	15/Nov/2022	17/Nov/2022	In Network


Order:552570 [In Network](#)

Small (6L), 15 to 25c. Includes Small Diagnostic Kits: Fits 6 Vials.

From _____ To _____

Clinic receive on 11/Nov/2022 Clinic ship on 11/Nov/2022

Status(ship|pickup): [Leg-1:Track|OK \(295016CJQJ3\)](#) [Leg-2:Track|OK \(29\)OIN3E068\)](#)
[Leg-3:Track|OK \(29HOIE08GNK\)](#)

 Shipping Tracking Business Solutions Support

Your shipment

Delivered On
Friday, November 11 at 7:13 A.M. at Office

Delivered To: MIAMI, FL US
Received By: VALDES
[Proof of Delivery](#)

[Get Updates >](#) [View Details](#)

CONCLUSION:

The global CRO has seen immense benefits from this application, has fully onboarded and expanded this CCT application for their studies in the US and are now in the process of deploying these globally. CCT continues to expand the deployment of this application to many other users with a similar need and expanding the use of this application ot many other segments with a similar need.