



Consolidated Pharmacy Service Center



CPSC

A consolidated pharmacy service center (CPSC) is a centralized facility that combines and manages various pharmacy services to streamline operations, improve efficiency and enhance patient care within a healthcare organization. It serves as a hub where multiple pharmacy-related functions are integrated to optimize processes and resources through centralized management and the utilization of advanced technology.

In a CPSC, various pharmacy services that were traditionally dispersed across different locations or departments are brought together under one roof. This includes services such as repackaging, kits and tray replenishment, automation replenishment at the hospital, regulatory adherence, 340B and Drug Supply Chain Security Act (DSCSA) capabilities, medication and inventory management, specialty and mail order, medication therapy and clinical patient management, sterile and non-sterile compounding, order verification, and more.

A consolidated pharmacy service center is a holistic approach that aligns with the evolving landscape of healthcare, enabling organizations to provide safer and more efficient pharmaceutical services.





Current Challenges in the Pharmacy Supply Chain

The healthcare industry is undergoing an unprecedented wave of mergers and acquisitions. The resulting consolidated hospitals and health systems are facing a new set of business challenges in managing an already complex pharmacy supply chain.

- Considering medications account for the second-largest portion of a hospital's supply spend, mismanagement is an expensive liability, and the challenges are escalating.



Lack of inventory and data visibility

The inability to know and see where all medication and supplies are stored leads to several issues. These include stockpiling, excess inventory and duplicate storage locations for the same item. Additionally, it can result in stock outs, potential errors as well as expired and lost medications.



Non-standardized systems

Disparate and non-standardized systems, automation and processes impede effective multiple site management and prevent intra-site staff transfers.



Labor and logistics activity challenges

Labor shortages are causing pharmacies to utilize highly compensated pharmacists to engage in logistics activities like purchasing, inventory management and data maintenance rather than direct clinical support and patient care.



Regulatory compliance challenges

Increased DSCSA traceability regulations demand integrated track and trace capabilities. Other regulatory requirements such as 340B require precise purchase order (PO) processing while others like USP, accreditation bodies, the Drug Enforcement Agency (DEA) and boards of pharmacy require strong alignment with rules and regulations.

Tecsys' **Elite™** Healthcare Supply Chain platform

Tecsys' Elite™ Healthcare supply chain platform features a proven and robust pharmaceutical distribution management solution for consolidated service centers. Building on this foundation, Tecsys is extending its pharmacy supply chain solution all the way to dispensation at the point of consumption inside the hospital.

Elite™ Pharmacy Inventory Management Solution (PIMS) enables the hospital pharmacy to implement efficient automated processes across the entire pharmacy supply chain, up to the point of use. This allows healthcare institutions to fully recover avoidable expenses sustained in the management and dispensation of medications, while preserving accuracy and timeliness.

Using Elite™ PIMS for CPSC

- Achieve efficiency and redeployment within the pharmacy workforce by allowing pharmacy staff to focus on other clinical and operational activities in competing workflows.
- Accurately track medications and supplies through the pharmacy supply chain workflow from planning, procurement, storage and manipulation to delivery and administration.
- Realize returns on investment in inventory optimization, shrinkage, pricing and 340B accuracy, productivity gains, distributor cost fee elimination and group purchasing organization (GPO) administration fee reduction through a host of automation and software integrations, robust capabilities, and streamlined and automated workflows.
- Standardize pharmacy products and centralize pharmacy services, such as inpatient inventory management, mail order, specialty pharmacy, kit and tray replenishment and management, redistribution, sterile and non-sterile compounding, nuclear pharmacy and EMS servicing, among others.
- Gain system-wide visibility across all areas of storage including automation and non-automated storage locations.
- Reduce medication waste by mitigating drug shortages and time devoted to recalls and expired medications.
- Govern regulatory requirements effectively such as 340B, U.S. Pharmacopeia (USP), accreditation bodies, the boards of pharmacy and DSCSA.

Pharmacy Inventory Management in a CPSC

As healthcare continues to evolve, the advantages of centralizing pharmacy services have become increasingly apparent:

Reduced costs

Enhanced patient
safety

Optimized medication
management

This is where a pharmacy inventory management solution steps in — a cutting-edge tool tailored to fit the intricate needs of a consolidated pharmacy service center with end-to-end capabilities.

Discover how an integrated approach and state-of-the-art technology can revolutionize pharmaceutical care, ensuring a healthier future for both patients and providers.

Key Benefits

Effectively manage and gain visibility to inventory and data

Through data analysis, the integrated data collected in a CPSC can be analyzed to identify trends, improve processes and make informed decisions for better patient outcomes.

- **Manage the one-to-many relationships**
needed to calculate inventory quantity and value of a drug when multiple national drug code (NDC) numbers are purchased for the same medication.
- **Transfer and rebalance inventory**
to reduce waste, stock outs and expired medications and manage recalls effectively.
- **Increase stock turns**
to reduce inventory carrying costs and the risk of expired products.
- **Gain inventory visibility**
across the entire system, including medications in transit, stored inside automation technologies, such as carousels, robotics, and dispensing cabinets, or outside automation on shelves, in storage rooms or areas, or other departments.
- **Streamline your procurement process**
by managing and improving the complex pharmaceutical pricing and purchasing processes.
- **Support centralized packaging operations**
and reduce the need for equipment and packaging, sterile and non-sterile compounding, kits and trays compilation and replenishment activities at every facility.
- **Improve quality control**
of packaging operations ensuring delivery of the right drug for increased patient safety.

Achieve a single standardized and integrated entry point

Integration of PIMS plays a vital role in a CPSC. This technology allows for electronic prescription processing, automated dispensing, inventory management, patient data tracking and reporting. It enhances accuracy, reduces manual errors and improves overall efficiency.

- **Establish a single entry point**
to all pharmacy supply chain automation, transactions and databases ensuring a seamless information flow by interfacing with key systems, including pharmacy information systems, electronic health record systems and financial systems.
- **Enable hardware agnostic integrations**
to existing supply chain technology partners through automation including automated dispensing cabinets, robotics and carousels, 340B third-party administrators, and vendor and wholesaler order entry systems, maximizing current capital investments.
- **Optimize internal returns**
as well as expired and recalled medications processes.
- **Centralize services**
to allow for the implementation of standardized protocols, formularies and best practices across the organization.



Redeploy pharmacy staff to critical clinical and operational duties and roles

By centralizing pharmacy services, organizations can eliminate redundancies, reduce the need for duplicate equipment and staffing, and simplify communication and collaboration among pharmacy staff members to create efficiencies throughout.

● Consolidate and streamline labor

engaged in centralized services, reduce operational overhead and reduce the need for assignment at individual facilities and locations.

● Integrate and enhance pharmacy workflows

that effectively support all pharmacy organizational models regardless of whether they are centralized, decentralized or hybrid.

● Centralize resources

to help pharmacists and pharmacy technicians focus more on clinical aspects of care, providing medication therapy management, drug counseling and patient education.



Obtain regulatory requirements compliance including DSCSA, 340B, USP, accreditation bodies, the DEA and boards of pharmacy

A CPSC can implement consistent quality control measures for medications, compounding processes and dispensing practices, ensuring that patients receive safe and effective treatments.

- **Comply with track and trace requirements**
by efficiently tracking lot number and expiration date as well as full product pedigree in accordance with DSCSA regulations, including pharmaceutical sales and transfers to non-affiliated facilities.
- **Improve the management of medication reimbursements**
and capture all applicable information required for the federal government's 340B drug discount pricing program.
- **Receive, store and dispense medication**
in alignment with medication management standards for all regulatory bodies.
- **Mitigate liability risk**
through barcode scanning and verification where appropriate, from receiving to picking and checking of medications. Centralized operations enable standardized processes, reducing the risk of medication errors and enhancing patient safety. Centralized records also provide a more comprehensive view of patient medication histories, helping to avoid drug interactions or duplications.



New opportunities for revenue and growth with Tecsys' pharmacy supply chain solution

- **Move beyond the hospital walls**
to support patients in outpatient facilities, home infusion, mail order and specialty pharmacy, clinics and the community.
- **Expand outpatient pharmacies**
to ensure patients leaving the hospitals fill their prescriptions, to aid recovery and avoid readmission through meds-to-beds programs and retail services.
- **Accommodate scalability**
and changing demands more easily than multiple smaller pharmacy units.

About **Tecsys**

Since our founding in 1983, so much has changed in supply chain technology. But one thing has remained consistent across industries, geographies and decades – by transforming their supply chains, good organizations can become great.

Our solutions and services create clarity from operational complexity with end-to-end supply chain visibility. Our customers reduce operating costs, improve customer service and uncover optimization opportunities.

We believe that visionary organizations should have the opportunity to thrive. And they should not have to sacrifice their core values and principles as they grow. Our approach to supply chain transformation enables growing organizations to realize their aspirations.



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