

Whitepaper:

A guide to consumption-based supply chains in healthcare



Healthcare
Materials Management

BY BINARY STREAM SOFTWARE

Executive summary

The challenges confronting healthcare organizations are numerous and can often feel daunting. Many organizations face large expenditures in materials purchasing as costs continue to escalate across the industry. Despite this challenge, management must run efficiently and at the lowest possible cost per patient.

This paper will explore the complexities inherent in consumption-based supply chains within the healthcare industry and ways to solve the most significant challenges organizations face today. It will shed light on solutions to those complexities by defining the core strategic issues facing healthcare today. It will explain the main functional areas of material workflows, the difficulties encountered, and finally, best practice for solving and streamlining your healthcare supply chain.

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Who should read this whitepaper?

This paper focuses on healthcare organizations with significant investments in materials consumed within their day-to-day operations. Senior management is often tasked with solving many of the issues discussed and will find the insights of particular relevance. However, this paper is of interest to anyone interested in solving supply chain management's complexities in today's healthcare industry.

The business of healthcare

The face of healthcare has evolved dramatically over the past decade. Although healthcare is primarily about easing the pain and suffering of others, it is also a business. Organizations must see themselves as such if they are to survive as costs escalate. By maximizing resources and minimizing overheads, both profit-driven and non-profit organizations will enable the provision of the best possible care to the highest number of patients.



Primary cost drivers in healthcare

The primary cost areas in healthcare are similar to those in other organizations. It takes both human labour and materials consumption to drive operations and produce the services required for patient care.

The highest single cost is labour in the form of wages and salaries. The second- largest cost is materials in the form of daily "consumables" and items with long-term usage lifespans.

The management of materials resources has come under greater scrutiny in recent years.

"Patients deserve and expect a high level of service. Medical professionals are adapting to new clinical demands and research solutions, and administrators must focus on managing resources as effectively as possible. These pressures have led to a rethinking of administrative approaches, especially for back-office functions such as supply chain management."

BPS Supply Chain Secretariat, 2006

Central to managing materials consumption and the healthcare supply chain are the following questions:

1. **What is the level of care required by the organization regarding the materials it must expend/purchase?**
2. **How can this level of care be delivered in a way that minimizes the total cost of materials?**

It is this second question that we will investigate in greater depth.

Best practices in healthcare supply chains

Supply chains are a tricky topic given the different types and levels of healthcare providers that exist. For example, what may be relevant to materials management in a hospital environment may not apply to a physician clinic.

It can be challenging to find new articles that guide healthcare material practitioners toward an optimal model. Usually, approaches suggested cover specific strategic areas, leaving readers to interpret the optimal ways of operating.

For instance, in the Ontario Hospital Supply Chain Metrics Working Group report entitled "Performance Measurement" - (BPS Supply Chain Secretariat, 2006). The article suggests a 4-pillar vision:

- 1 Plan informed decision-making through effective anticipation of product supply and demand.
- 2 Source and procure excellence in strategic and transactional interactions with end-users and suppliers, enabled by supply chain tools and processes.
- 3 Move effectively and responsively: right product, right place, right time.
- 4 Realization of supply chain efficiencies through supply chain payables integration and eCommerce.

These strategic pillars align with the functional areas covered in the next section.

Functional areas in healthcare materials management

Above and beyond the strategic nature of delivering materials at minimum cost to the desired level of patient care, healthcare materials management must be broken down into its functional, operating elements to see where its actual challenges lie.



Consumption areas

such as nursing units or clinical departments that need to requisition the materials they need.



Materials acquisition areas

that procure materials, such as the purchasing department.



Fulfillment areas

where materials are received or fulfilled as required.



Distribution areas

organize how materials are issued and distributed to each consumption site for use in patient care.



Reporting and finance areas

report on current inventory levels on a site-to-site basis, item usages, and forecast into the future using cost reports, determining the operations' financial implications.

Understanding the issues inherent in each of these functional elements is essential to finding the right solutions. We will explore why software applications such as Healthcare Material Management can help enable a busy materials management environment.

Key healthcare supply chain requisitioning challenges

The requisitioning of materials to numerous consumption sites in a dynamic healthcare organization has always been a challenge for several reasons. Some of these reasons are:



Challenge: the high cost of licensing users for supply chain software

Large numbers of people within the organization need to requisition materials as they need them. These people may not know where these materials come from or the most efficient/cost-effective way to obtain them—they only know that they need them to treat patients. The large number of users that need to access a system to requisition goods translates into high software license costs that every organization tries to minimize.



Solution: minimize licensing costs through third-party integration

To counter these potentially high user software costs, Binary Stream Software has enabled Healthcare Materials Management to "integrate" to particular, best of breed, third-party internet-based requisition applications. In doing so, many requisition users can requisition items into the system at a minimal cost.



**Challenge:
decentralized systems
can cause bottlenecks in
supply chains**

Many healthcare environments operate "24/7" and may need a combination of centralized vs. decentralized methods to get materials to patients within short periods.



**Solution:
hybrid solutions
that allow for both
centralized and
decentralized processes**

Healthcare Materials Management software can work in both centralized and decentralized modes. Using a third-party requisition application, materials requests can go through quick procurement cycles where the users can order goods directly through these internet-based applications described above—bypassing the more centralized processes of centralized purchasing. The resulting purchases still work their way down into the rest of the system as needed.

How centralized requisitioning helps improve processes and lower costs

In centralized mode, third-party requisition applications work only to pass "approved" requisitions to purchasing. When they do this, the system determines whether the item is one that is usually kept in stock (tagged as a "stock" item) or one that must be brought in from a vendor as it is not kept in stock (called a "non-stock" item).

Stockkeeping Unit Card

0001 · 01-BANDAGE

Home Item SKU More options

Variant Code		Qty. on Job Order	0
Assembly BOM	No	Qty. on Assembly Order	0
Shelf No.		Qty. on Asm. Component	0
Last Date Modified	2/12/2024	Usage	Stock
Qty. on Purch. Order	14	Par Quantity	0
Qty. on Prod. Order	0	Manufacturer Code	FIRST
Qty. in Transit	0	Manufacturer Item No.	BANDAGE MFG. CODE
Qty. on Component Lines	0		

Stock items are routed from an inventory "site" within the organization with the item requested, disregarding the need to purchase it unless it is out of stock from the replenishment site. An approved requisition with a non-stock item—which is not kept in stock—gets sent immediately to a PO Preview queue that allows buyers to purchase it.

HMM Purchase Requisition Card

00001

Send for Approval Cancel Approval Release Reopen **Create Purchase Order** Automate Fewer options

Purchase Requisition

Location Code: NURSING Vendor Name: Fabrikam, Inc. Contact: KRYSTAL YORK Document Date: 8/1/2023 Order Date:

Vendor Shipment No. Status: Processed Approval Status: Open Our Account No.:

Purchase Requisition Lines

No.	Description	Item Reference No.	Vendor Item No.	Manufacturer Code	Manufactu... Item No.	Location Code	Vendor No.	Quantity	Unit of Measure Code	Unit Cost
→ 02-GLOVES	SURGICAL GLOVES					NURSING	10000	10	PCS	47.00

Due to the financial ramifications of the requests, approval processes may be needed before such materials requests can be fulfilled. The approval processes of the third-party requisitioning packages are embedded in each product. They send email notifications to each approver. The approval process works typically on dollar amounts/limits.

Procurement

Healthcare Materials Management can work in both a decentralized procurement mode or a centralized purchasing mode, as illustrated above. The remainder of this paper will focus solely on using Healthcare Materials Management in a centralized mode.

Consumption-based procurement operates typically in two distinct workflows: order specific goods from a user requisition and order goods to replenish an inventory site. Let's take a closer look at each.

1. Ordering specific goods from a user requisition

Once an approved requisition reaches purchasing (for example, a non-stock item), it can either be purchased directly through PO Preview or procured through the PO Entry interface shown below.

Purchase Order

106100 · First Up Consultants

Home Prepare Print/Send Request Approval Order Actions Related Automate Fewer options

Post... Create Whse. Receipt Send Intercompany Purchase Order HMM Create Purchase...er From Requisition

Release... Create Inventory Put-away/Pick... Archive Document

Vendor Name: First Up Consultants Vendor Shipment No.:

Contact: Evan McIntosh Status: Open

Document Date: 8/1/2023 Our Account No.: Test 20000

Vendor Invoice No. *

Lines Manage Line Functions Order

New Line Delete Line Select items...

Type	No.	Item Refe... No.	Des...	Manufacturer Code	Manufactu... Item No.	Purchase Requisition No.	Location Code	Bin Code	Qua...	Res... Qua...	Unit of Mea... Code	Direct Unit Cost Excl. Tax	Tax Area Code	Tax Group Code	Line Amount Excl. Tax	Qt
→ Item	01-BANDAGE		BAN...	FIRST	BANDAGE ...	00009	EAST		1		BOX	50....		*	50.00	

Note the following features specifically designed for busy healthcare situations

PO document types:	You can define different kinds of POs. For instance, you define a PO type for typical consumables, another for capital projects or maybe another for items that come from requisition requests as per the above example (a "REQ" PO type).
Site ID/facility:	The specific inventory "site" and specific facility associated with the PO project type, whether the PO should be assigned to a specific capital project or not.
Unit of Measure (U of M):	On every PO, the purchasing U of M is defaulted. In this example, a case with six boxes of six each (CS/6/6).

2. Ordering goods to replenish an inventory site

This is also known as site replenishment. Better materials systems should have an automated way to replenish sites from their existing stock levels to the desired level – whether it be minimums, maximums, par levels (which we will detail later), etc.

Healthcare Materials Management provides this functionality and more. One inventory site can be replenished all at once or many times. Restock items from locations within the organization. Others must be purchased from outside vendors.

Once many POs have been generated during a heavy day of purchasing, and through the mass PO automation shown above, Healthcare Materials Management automates each PO generation.

Auto Replenishment Card

TEMP1

Process | More options

Auto Replenishment

Template ID	TEMP1	Item No.	02-GLOVES
Template Description	353453	Vendor No.	
Transaction Type	All	Location Code	NURSING
Replenishment Level	By Par Level	Replenishment Location	

Auto Replenishment Line




Item No.	Item Description	Base Unit of Measure	Location Code	Location Description	Replenish... Location	Document Type	Quantity on Hand	Par Quantity	Par Measure
→ 02-GLOVES	SURGICAL GLOVES	PCS	NURSING	NURSING		Purchase R...	30	200	PCS


EAST · East Warehouse



HMM Location Par List

Search Analyze + New Edit List Delete

Item No. ↑	Item Description	Manufacturer Code	Manufacturer Item No.	Replenishment Location	Replenishment Location Desc	Stock	Shelf No.	Auto Issue (Sto...)	Par Measure
→ 01-BANDAGE	BANDAGE	FIRST	BANDAGE ...			<input checked="" type="checkbox"/>		<input type="checkbox"/>	P
1896-S	ATHENS Desk			WAREHOUSE	CENTRAL WAREHOUSE	<input checked="" type="checkbox"/>		<input type="checkbox"/>	P

HMM Auto Replenishment Process ✓ Saved   

Template ID ----- TEMP3 

☒ Analyze ☐ Process  

Item No.	Item Description	Base Unit of Measure	Location Code	Location Description	Replenish... Location	Document Type	Quantity on Hand	Par Quantity	Par Unit of Measure	Quantity to Order	Unit of Measure
01-BANDAGE	BANDAGE	PCS	EAST	East Warehouse		Purchase R...	10	100	PCS	45	BOX
03-GAUZE	GAUZE	PCS	ICU	ICU UNIT	STOREROO...	Transfer Pr...	2	5	SET	23	PCS
01-BANDAGE	BANDAGE	PCS	NURSING	NURSING	WAREHOU...	Transfer Pr...	0	200	PCS	200	PCS
02-GLOVES	SURGICAL GLOVES	PCS	NURSING	NURSING		Purchase R...	30	200	PCS	17	BOX
01-BANDAGE	BANDAGE	PCS	OPD	Outpatient Department	WAREHOU...	Transfer Pr...	0	10	PCS	10	PCS




There are many different transmission methods from Email, Fax, EDI, etc. All selected POs will be sent off to the individual supplier(s) by selecting the appropriate lines and processing. Once sent, the PO status changes from "New" to "Released" in Microsoft Dynamics 365 Business Central.




Fulfillment

Fulfillment covers the receiving of goods into the organization and inventory site maintenance and par-level maintenance. It also utilizes handheld scanners as they are now prevalent in busier healthcare environments to streamline busier receiving areas.

1. Receiving

The receiving of goods in a typical consumption-based organization has two facets: the physical receiving of the goods and the delivery of such goods to specific consumption sites "on receipt" in some cases.

HMM Process Receiving ✓ Saved   


☒ Analyze ☐ Manage ☒ Process Automate  Fewer options  

Purchase Order No.	Item No.	Item Reference No.	Item Description	Location Code	Vendor No.	Unit of Measure	Quantity Received	Transaction Date	Portal User
106063	02-GLOVES		SURGICAL GLOVES	NURSING	10000	PCS	15.00	2/29/2024	THOMAS@B
106039	1016		1016	EAST	10000	PCS	1.00	1/22/2024	DEEPAK@B
106011	01-BANDAGE		BANDAGE	EMERGENCY	10000	PCS	1.00	1/22/2024	DEEPAK@B
106006	WRB-1000		Whole Roasted Beans, Columbia	YELLOW	10000	PCS	1.00	1/23/2024	DEEPAK@B

Receivings

Filters

Item No. / Item Reference No.






<< Back

PO Number : 106039

Item Number	Item Description	Total Qty. Ordered	Total Qty. Received	Quantity to Receive
1016	1016	1	0	
1014	dsfsfsdf	5	2	

Auto-Receiving allows users to receive goods over many lines/many POs very quickly. Goods received but destined for immediate shipment to a consumption department can be instantly sent with a delivery ticket.

Labels needed to put goods into central supply locations or to identify goods can be instantly run on demand during the receiving process.

 Home Materials Management  Contact Us Deepak Saini 

Receivings

Filters

Search By

Purchase

Receivings Process Log

Purchase Order No.	Item Reference	Item	Quantity Received	Status	Error
106039		1016	1	Success	

Purchase Order No.	Vendor	Vendor Name
106039	10000	Fabrikam, Inc.

2. Inventory site maintenance

Inventory sites in healthcare have many functions. They can be as small as a nursing cart on a floor that only dispenses materials to patients. They can be used to both dispense and replenish materials.

The screenshot shows a web application interface titled 'Locations'. It features a navigation bar with tabs: Search, Analyze, + New, Manage, Home, Location, and Report. Below the navigation bar are buttons for 'Convert to Warehouse location' and 'Assign Tax Area'. A table lists various locations with columns for Code, Name, and Location Type. A dropdown menu is open over the table, showing options: New Document, HMM, Other, Par List, Copy Par List, Wall Label, XML, and CSV. The 'Wall Label' option is highlighted by a mouse cursor.

Code	Name	Location Type
0001	TEST forChandigarhLoc	Consumption
0002	New Location	Consumption
CH	ch	Consumption
EAST	East Warehouse	Consumption
EMERGENCY	EMERGENCY CELL	Consumption
FRONTDESK	FRONT DESK	Consumption
GENERAL	General Ward	Consumption
ICU	ICU UNIT	Consumption
LOC1	Loc1	Consumption

Sites can have their items controlled at Par levels, can have the right to requisition goods in decentralized modes, to act as a replenishment site and to be replenished by a (default) replenishment site. Whether a site is a small nursing cart or a large central store, Healthcare Materials Management handles them through the same interface.

3. Par level maintenance

Par level is a concept used extensively in healthcare. It is an arbitrary amount/ inventory level of any item in stock and represents the desired inventory level for an item at a site. It may be different than a maximum number, a minimum number or an average. It is what the organization feels that they must carry to ensure proper patient care.

ICU - ICU UNIT ✓ Saved

HMM Location Par List Search Analyze + New Edit List Delete

Item No. ↑	Replenishment Location	Replenishment Location Desc	Stock	Shelf No.	Auto Issue (Sto...	Par Unit of Measure	Par Quantity	Total Quantity	Qty in Base Unit of Measure	Current Cost	Par Cost
→ 01-BANDAG ▾	WAREHOUSE	CENTRAL WAREHOUSE	<input checked="" type="checkbox"/>		<input type="checkbox"/>	PCS	5	5	5	25.00	125.00
02-GLOVES	WAREHOUSE	CENTRAL WAREHOUSE	<input checked="" type="checkbox"/>		<input type="checkbox"/>	PCS	10	10	10	47.00	470.00
03-GAUZE	STOREROOM	STORE ROOM	<input checked="" type="checkbox"/>		<input type="checkbox"/>	SET	5	5	25	250.00	1,250.00
07-CASTS	WAREHOUSE	CENTRAL WAREHOUSE	<input type="checkbox"/>		<input type="checkbox"/>	PCS	10	10	10	50.00	500.00

Sites can control items at par levels, can have the right to requisition goods in decentralized modes, act as a replenishment site, and be replenished by a (default) replenishment site. Whether a site is a small nursing cart or a large central store, Healthcare Materials Management handles them through the same interface.

Handheld devices and bar-coding

One of the fastest-growing areas in hospital materials management today is handheld devices with bar code scanners. They make product recognition quick and straightforward while still reducing errors.

While warehouse workers primarily use handheld scanning devices in central stores, many more are being used at the consumption site level to keep current inventories in balance and issue goods to patients.

Consumption/issuance

We have covered many of the issues concerned with getting materials to the foot of the patient. But the act of "issuing" these goods is fraught with problems for today's healthcare centers.

Many healthcare organizations wrestle with how and when to expense/relieve goods out of inventory. The problem is one of control. Many healthcare organizations do not have the workflows to instantly expense goods from a consumption site inventory to a patient, i.e. perpetual inventory control. Staff at healthcare consumption sites have the primary responsibility of patient care, not relieving inventory from computers.

Many healthcare organizations still manage smaller consumption site inventories periodically. In other words, unless a stock count is taken and the difference is written off against inventory in the financial system, the actual items in inventory versus what the computer is showing is almost always incorrect.

Many healthcare organizations use an "issue" transaction when they get goods from either a supplier or another inventory site. An issue transaction says that as soon as a consumption site receives the goods, they must be expensed—not recorded in the inventory valuation. In this way, the organization is expensing everything as soon as possible, meaning that they need only take year-end inventory counts of each consumption site.

While this appears to be a clean and efficient answer, many healthcare organizations still require greater control of their inventory. While the above solution solves accounting issues, it does not address inventory control/shrinkage/lost charges. These are areas many healthcare providers still want greater control over.

Binary Stream Healthcare Materials Management can handle both scenarios—those using expensed "issue" transactions and those wanting inventories to be transferred to inventory sites and then expensed as they are consumed.

HMM Supply Requisitions

Search Analyze + New Manage More options

No. ↓	Description	Requested Date	Replenishment Location	Destination Location	User ID	Reference
SR071	From Par Count Process	8/1/2023	WAREHOUSE	OPD	THOMAS	Created by Par Count from 08/01/23
SR070	From Par Count Process	8/1/2023			THOMAS	Created by Par Count from 08/01/23
SR069		2/26/2024			THOMAS	
SR066	From Par Count Process	8/1/2023			THOMAS	Created by Par Count from 08/01/23
SR064		8/1/2023			THOMAS	
SR060	From Par Count Process	8/1/2023			DEEPAK	Created by Par Count from 08/01/23
SR059	From Par Count Process	8/1/2023			DEEPAK	Created by Par Count from 08/01/23
SR058		8/1/2023			SHIVAM	

Materials can be sent either as an expensed issue transaction to a site or a more typical inventory transfer, meaning that it can be expensed later in the consumption site.

Lost charges

Many healthcare organizations wrestle with inventory shrinkage. For example, your inventory should have ten in stock, but you only have five on the shelves.


In many busy and for-profit healthcare environments, materials can get used in many ways and become unaccounted for. While theft is always a prevalent issue, defective items, spoiled or expired items sometimes get disposed of in consumption areas and do not get accounted for or relieved from computer inventory balances.

In for-profit healthcare situations, inventory shrinkage due to items physically consumed but not issued off computer item balances is called Lost Charges. For example, if we start with an inventory balance of ten units and three are billed out to patient care, we should balance seven remaining. If we do a stock count and find that only five remain, we have potential lost charges of two.

So, the question is then how healthcare organizations bring in data from a billing software package and blend it with materials data? While the data can be extracted manually when the amount of data is small, what happens when you need to analyze data over many items?

Completing an inventory count

Inventory counting in Healthcare Material Management typically involves the use of specialized handheld devices equipped with barcode scanners. The HMM portal allows users to log in, select a location and an item, scan inventory, verify count and submit count data back to MS D365 Business Central. To reconcile any discrepancies between the physical count and the recorded inventory levels, HMM will leverage Business Central functionalities by generating and posting Physical Inventory Orders.


Binary Stream
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Materials Management ▾
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Deepak Saini ▾

Stock Count

Filters

Item No. / Item Reference No.

[<< Back](#)

Phys. Inv. Order No. : PHIO00023
Recording No. : 1

Items per page : 10 ▾

Item Number	Item Description	Location	Unit Of Measure	Quantity Expected	Quantity Counted
01-BANDAGE	BANDAGE	EAST	PCS	9	<input type="text"/>
1014	dsfsfsdf	EAST	HOUR	11	<input type="text"/>
1015	1015	EAST	PCS	50	<input type="text"/>
1016	1016	EAST	PCS	3	<input type="text"/>

HMM Process Stock Count ✓ Saved 🔍 📄 🔗

☒ Analyze ☐ Manage ☒ Process ☐ More options 🔗 🔍

Phys. Inv. Order No.	Recording No.	Item Number	Item Description	Location	UoM	Quantity Expected	Quantity Counted	Transaction Date	Portal User
PHIO00033	8	1017	Non-Inventory	EAST	PCS	1	1	1/23/2024	DEEPAK@BINA...
PHIO00026	2	01-BANDAGE	BANDAGE	EAST	PCS	9	2	1/23/2024	DEEPAK@BINA...
PHIO00023	1	01-BANDAGE	BANDAGE	EAST	PCS	9	9	1/23/2024	DEEPAK@BINA...

eCommerce and EDI

Recent materials management reports have demonstrated distinct financial benefits and patient care advantages in implementing eCommerce and EDI.

As in requisition management, Healthcare Materials Management produces integration to eCommerce and EDI in a best-of-breed approach. eCommerce functionality is handled through the "punch-out" capabilities provided through our approved requisition management vendors. EDI functionality is dealt with through approved integration to best of breed EDI vendors.

"A wealth of evidence demonstrates that implementing e-commerce and other supply chain leading practices can improve patient care, enhance service levels and produce financial savings."

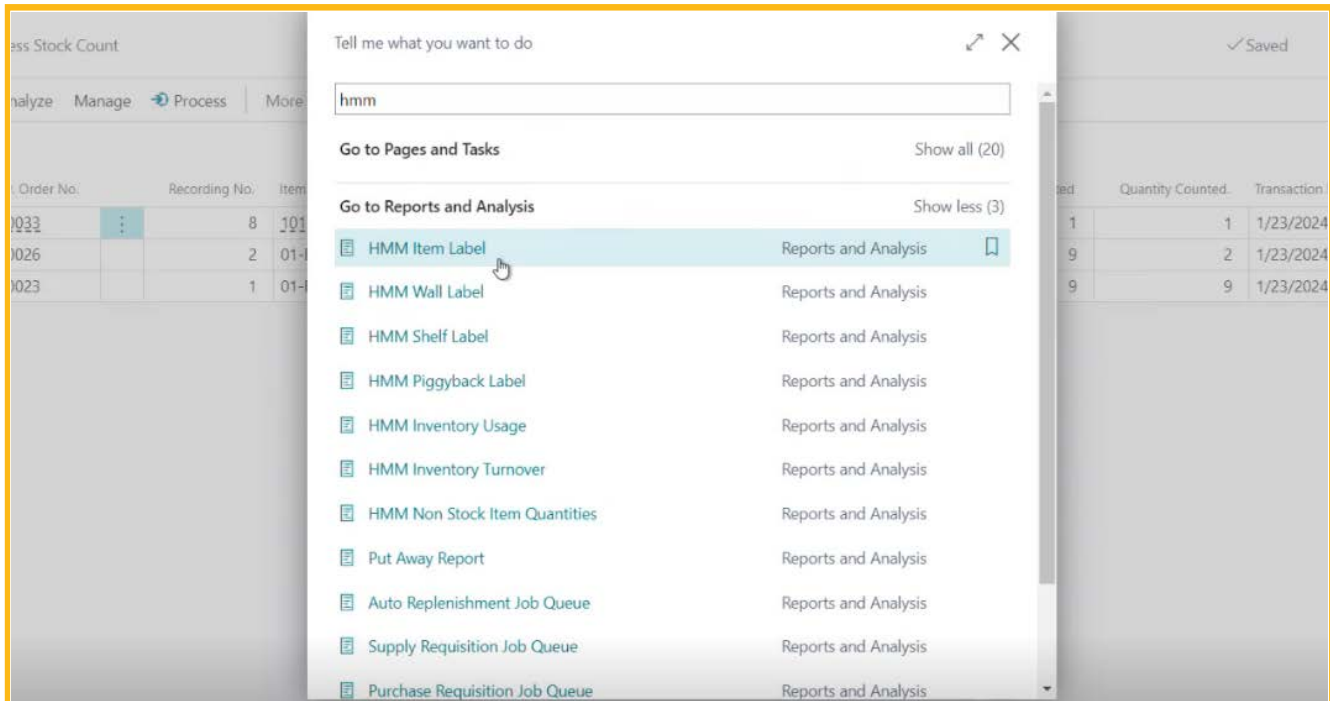
**BPS Supply Chain
Secretariat, 2007**

Reporting

Most Materials systems always rely on robust reporting, and it is also one of the most significant areas of concern for today's supply chains.

Effective reporting in Materials Management not only looks at the performance "after the fact" but should help anticipate how to manage for the future. Again, citing the Ontario Hospital Supply Chain Metrics Working Group and its first pillar "functional vision", which describes planning as "informed decision-making through effective anticipation of product supply and demand." (BPS Supply Chain Secretariat, 2006).

This reference mentions both supply and demand. While most of this article has concentrated on the supply side, what does the demand side entail? The demand side in healthcare usually centers on historical material usage or consumption to infer future demand.



Item usage reports can be run across one site or many, based on time periods or across multiple items. Most reporting screens in Healthcare Materials Management can be easily exported into Excel for further analysis.

On the supply-side, a flexible materials application will have out-of-the-box "canned" reports as well as the ability to create quick "queries" on the fly.

One of the most significant advantages that a Microsoft D365 Business Central application brings to the table is its data accessibility. Using reports we can run relevant and user-friendly queries in real-time.

HMM Inventory Turnover

CRONUS USA, Inc.

March 1, 2024

1 Of 3

For the period of 12/1/2021 - 3/31/2024

DEEPAK

Location EAST

2 Bin No

Usage Date	Item Number	Item Description		Unit of Measure		Current Cost
Stock	Par List Qty	Transfer In	Transfer Out	Qty Used	Inventory Turnover	Days Inventory
8/1/2023	01-BANDAGE	BANDAGE		PCS		25.00
Yes	100	2	0	0	0.00	0.00
8/1/2023	1015	1015		PCS		0.00
Yes	100	2	0	0	0.00	0.00
8/1/2023	1896-S	ATHENS Desk		PCS		780.70
No	100	2	0	-3,000	-62.10	-5.88
8/1/2023	1906-S	ATHENS Mobile Pedestal		PCS		338.20
Yes	100	2	0	0	0.00	0.00

Quick query was developed to show receipts that are now past the promised delivery dates. Many relevant queries such as this are supplied out-of-the-box, as well as queries you can create as you require them.

Works cited

1. BPS Supply Chain Secretariat, T. B. (2006). Performance Measurement - A report by the Hospital Chain Metrics Working Group. Toronto: Ontario Ministry of Finance.
2. BPS Supply Chain Secretariat, T. B. (2007). Supply Chain Modernization in Ontario Health Care. Toronto: Ontario Ministry of Finance.



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