



Handheld Portal for Healthcare
Materials Management (HMM).



Overview.

The Handheld Portal is a web-based solution designed to enable seamless and efficient inventory management for healthcare facilities. Integrated with Business Central and Healthcare Materials Management (HMM) extension, it allows users to perform essential inventory operations remotely using mobile devices, reducing reliance on desktop-based Business Central access.

Key Benefits.

- ❖ Remote Inventory Management: Users can request issue, transfer, pick, and receive inventory from any location using their mobile device, even when away from Business Central.
- ❖ Offline Capability*: When working in remote warehouse locations without internet connectivity, users can save transactions offline and submit them to Business Central once they reconnect.
- ❖ Cross-Device Compatibility: The portal runs on any modern web browser and is compatible with:
 - Android and iOS devices (mobile phones & tablets) using an external Bluetooth barcode scanner.
 - Android-based handheld scanning devices with suitable hardware configurations.
 - Desktop computers for flexible usage.
- ❖ Business Central Integration: The portal syncs inventory transactions directly into Business Central, enabling real-time visibility and streamlined workflows.
- ❖ Cost-Effective Licensing: Users can perform transactions without requiring a full Business Central license—a Power Apps license is sufficient to access the portal.

- ❖ Flexible Authentication Methods: Secure access using Azure Active Directory (AAD) authentication alongside traditional Email, User ID, and Password-based login.
- ❖ Scalability & Ease of Use: Unlike traditional applications, the Handheld Portal requires no prior device setup and operates on any browser-enabled device, making it highly adaptable for various healthcare environments.
- ❖ Eliminates the Need for Expensive Handheld Devices: With this portal, users do not need to invest in costly handheld scanning devices. They can simply use the portal on any mobile phone with an external barcode scanner, significantly reducing hardware costs.
- ❖ Target Audience: The Handheld Portal is ideal for Hospitals, Clinics, Pharmacies, and other healthcare-related businesses that require efficient inventory management without costly infrastructure investments.
- ❖ Access Control for Locations: Portal users can have restricted access to specific locations, ensuring security and control over inventory management.
- ❖ Module-Based Access Restrictions: Administrators can restrict portal module access for users from HMM in Business Central, providing role-based control over different inventory functions.

Key Features & Functionalities.

The Handheld Portal enables healthcare facilities to execute crucial inventory operations in Business Central's Healthcare Materials Management (HMM) module, including:

1. Issue Inventory – Creates issuing transactions (Item Journals) to allocate inventory to specific locations.
2. Request Inventory – Generates Supply Requisition/Purchase Requisition considering location-based Par Setup for optimized inventory management.

3. Transfer Inventory – Facilitates Item Reclassifications between locations and allows returning stock to replenishment locations.
4. Pick Supply Requisition Items – Streamlines the picking process for supply requisition items and enables direct processing from the portal.
5. Receive Purchase Order Items – Updates Quantity Received for Purchase Orders in Business Central without requiring direct access.
6. Physical Inventory Recording – Ensures accurate stock tracking and verification by updating Physical Inventory recordings directly into Business Central.
7. Bulk & Real-Time Processing – Users can choose to submit inventory transactions in bulk or process them one by one, offering flexibility based on their workflow needs.

Competitive Advantage.

The Handheld Portal outperforms similar solutions by offering:

- ❖ Web-based accessibility across multiple device types (computers, mobile phones, tablets, and scanning devices) without the need for device-specific setup.
- ❖ Offline transaction saving for continued operations in network-restricted environments.
- ❖ Integration with Business Central and HMM module for real-time inventory updates.
- ❖ Cost savings by enabling Business Central interactions without requiring a full Business Central license.
- ❖ Secure and flexible login using Azure Active Directory authentication.

- ❖ Eliminates the need for expensive handheld scanning devices, making inventory management more affordable for healthcare providers.
- ❖ Access control mechanisms to restrict users' access to specific locations and portal modules.

Hardware Requirements.

The Handheld Portal can work on a handheld device that supports an HTML5-compatible browser.

Handheld Portal can also be used on a mobile phone or tablet, but an external barcode scanner device must be attached via Bluetooth to scan barcodes, such as [Socket Mobile 860](#).

For running Handheld Portal on a handheld or mobile device, the following hardware specifications are recommended:

- ❖ Device Type:
 1. Dedicated Handheld Scanner (e.g., Zebra, Honeywell, Datalogic)
 2. Smartphones/Tablets (Android/iOS) with an external Bluetooth barcode scanner such as [Socket Mobile 860](#)
- ❖ Core Hardware Specifications:
 1. Processor: Quad-core (or higher) with at least 2.5 GHz clock speed
 2. RAM: 6GB or more (to ensure smooth multitasking)
 3. Storage: Minimum 64GB (expandable preferred)
 4. Operating System:
 - a. Android 11 or higher
 - b. iOS 14 or higher
 - c. Windows 10 or higher (for rugged handheld devices)
 5. Connectivity Options:
 - a. Wi-Fi (Dual Band 2.4GHz/5GHz) for stable network access
 - b. Bluetooth 5.0 or higher (for external barcode scanner connectivity)
 - c. 4G/5G LTE (if mobile data is needed)



❖ Browser Support:

HTML5-compatible browser (Chrome, Edge, Firefox, Safari)

Conclusion.

The Handheld Portal is the ultimate solution for healthcare facilities seeking to modernize their inventory management processes. With seamless Business Central integration, offline functionality, and cross-device compatibility, it provides a cost-effective, scalable, and efficient approach to healthcare inventory operations.