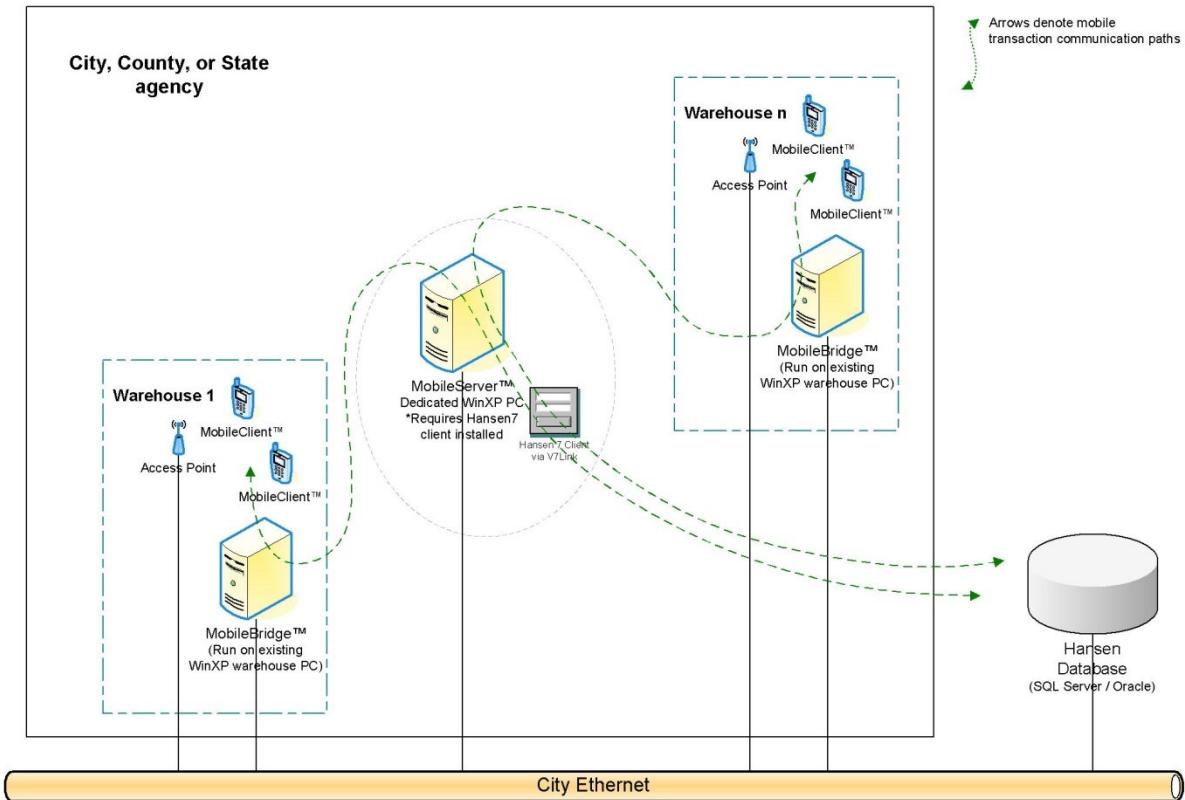


# JMT Falcon Automation for Hansen 7

White Paper - Autonomously Managed, Multi-Warehouse Configuration

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## Falcon Automation for Hansen 7 Multi-Site Configuration -Option 1



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Figure 1 - System Configuration / Multi-Warehouse

## Background

The diagram detailed in Figure 1 depicts the proposed solution configuration for an autonomously managed multi-warehouse environment. We will recommend this solution where warehouses are autonomously managed through the Hansen 7.x ERP.

JMT utilizes the Hansen gateway utility, Hansen® V7link, to provide real-time two-way communication between the mobile devices and Hansen®. This utility communicates directly with the Hansen® user interface, as if it were a user sitting at a logged in Hansen® terminal. Because of this, the Hansen® client for which the V7link is attached will absorb one concurrent license and one of each module license enabled for that user (typically, one of each module license which may receive an Issued part).

JMT is aware of the Hansen® module license costs and also of the limited availability of such licenses under most agencies. We are conscientious of the concern for minimizing the use of Hansen® licenses. This option will reduce the number of licenses absorbed when running under an autonomously managed multi-warehouse environment.

## Definitions

### Falcon MobileClient

Mobile software that resides on the mobile device, providing a user interface that allows the mobile user to submit transactions to Hansen®; transactions are sent to either a MobileServer, or a MobileBridge; and then to Hansen®.

### Falcon MobileServer

Communication software that handles data communication between Hansen® and one or more MobileClients and/or one or more MobileBridges. Must be installed on a dedicated Windows XP PC, with Hansen® installed.

### Falcon MobileBridge

Communication software that handles data communications between one or more MobileClients and a MobileServer.

### Hansen® V7link (gateway)

The V7link is a Hansen® gateway utility product; a library allowing applications to communicate with the Hansen® user interface. The V7link is used by the Falcon processor engine to handle all communication with Hansen®.

## Detail

Considering each warehouse manager requires specific control over their own warehouse operation, a Falcon MobileBridge will be installed on their own desktop PC for autonomously managing their mobile Hansen® functions.

The Falcon MobileClients, that are operating under a given warehouse manager's control, will be configured to communicate directly to their respective MobileBridge. The MobileBridge will then handle data communications with the MobileServer.

This configuration should be duplicated at each warehouse. Each MobileBridge installation will accommodate one or more MobileClients in use at the respective sites.

The MobileServer can be installed anywhere but does require a dedicated Windows XP PC having the Hansen® client software installed, and with connectivity to the agency network. \*\*

Data communication between the scanning devices and Hansen® travels as noted by the dotted green line in the figure, or more literally:

(User enters transaction) → MobileClient → MobileBridge → MobileServer → Hansen-V7Link → Hansen Client → Hansen DB →  
[Hansen validation] → Hansen Client → Hansen V7Link → MobileServer → MobileBridge → MobileClient → (User notification)

#### \*\*NOTE:

*The MobileServer should be stationed in a location convenient and accessible by a warehouse manager or a system administrator knowledgeable in the operation of Hansen® and Falcon. Since the Falcon solution communicates with Hansen®, and where the V7Link can prove a bottleneck to the solution, occasional intervention may be required should the V7link stall or the Falcon MobileServer lose connectivity to a MobileBridge.*

## Pros/Cons

### Pros

- Reduction in cost: MobileServer vs MobileBridge at each location.
- Save licensing costs by having only one set of Hansen® module licenses absorbed by the V7Link.
- Expandable for throughput – Adding another MobileServer can help reduce transaction bottlenecks.

### Cons

- Adds a layer of complexity and management to an otherwise simplistic configuration.
- A relatively new method developed to help customers work around the loss of licenses due to Falcon's use of the Hansen® V7link.