



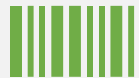
AutoSimply Barcode

Implementation

Barcode



Bring warehouse transactions to the front-line



In the warehouse

Initiate inventory transactions

Scan barcodes to record the transactions

Post the documents directly into Sage 300 real-time



In the back office

Transactions are up-to-date

No more data entry



Purchase Order

- Goods receipt and return

Order Entry

- Shipment and return

Inventory Control

- Stock transfer
- Internal usage
- Physical count
- Receipt / shipment / return
- Assembly / disassembly

Manufacturing

- Issuance / receipt
- Backflush
- Kanban

Shop Floor Control

- Shop entries

Serialized Inventory and Lot Tracking

Bin Tracking

Inquiry

GS1 / HIBC

GS1/HIBC barcodes

Multiple information can be encoded in a single barcode

Product
number

Lot number

Serial
number

Expiry date

Quantity



One scan captures all



Implementation

Requirements



Sage 300

Sage 300 2014 – 2020

1 Lanpak for connection regardless of number of Barcode users



Windows Server

Windows Server 2012 or above with IIS



Handheld devices

Android 4.4 (Kitkat) or above

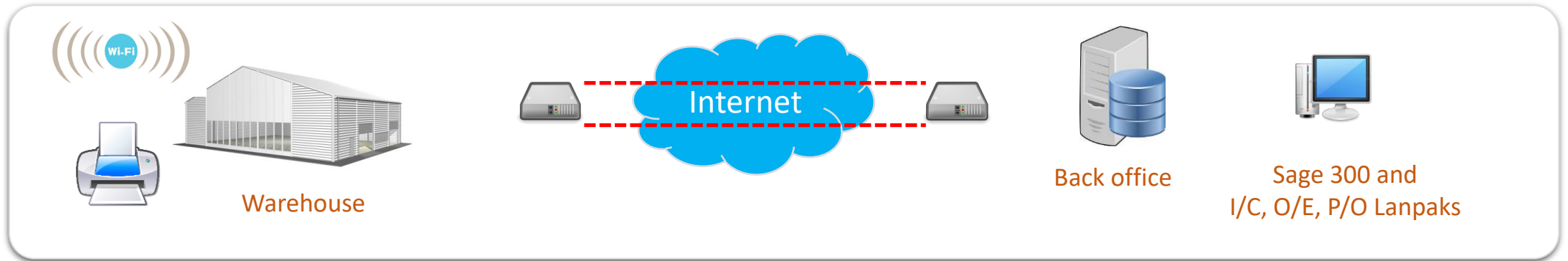
iOS 8 or above

Windows 10 Home or above

Windows CE 6.0 or Windows Mobile 6.0 or above

Wi-Fi or 4G connection to the Barcode web server

What
customers
already have



Just add



AutoSimply
Barcode

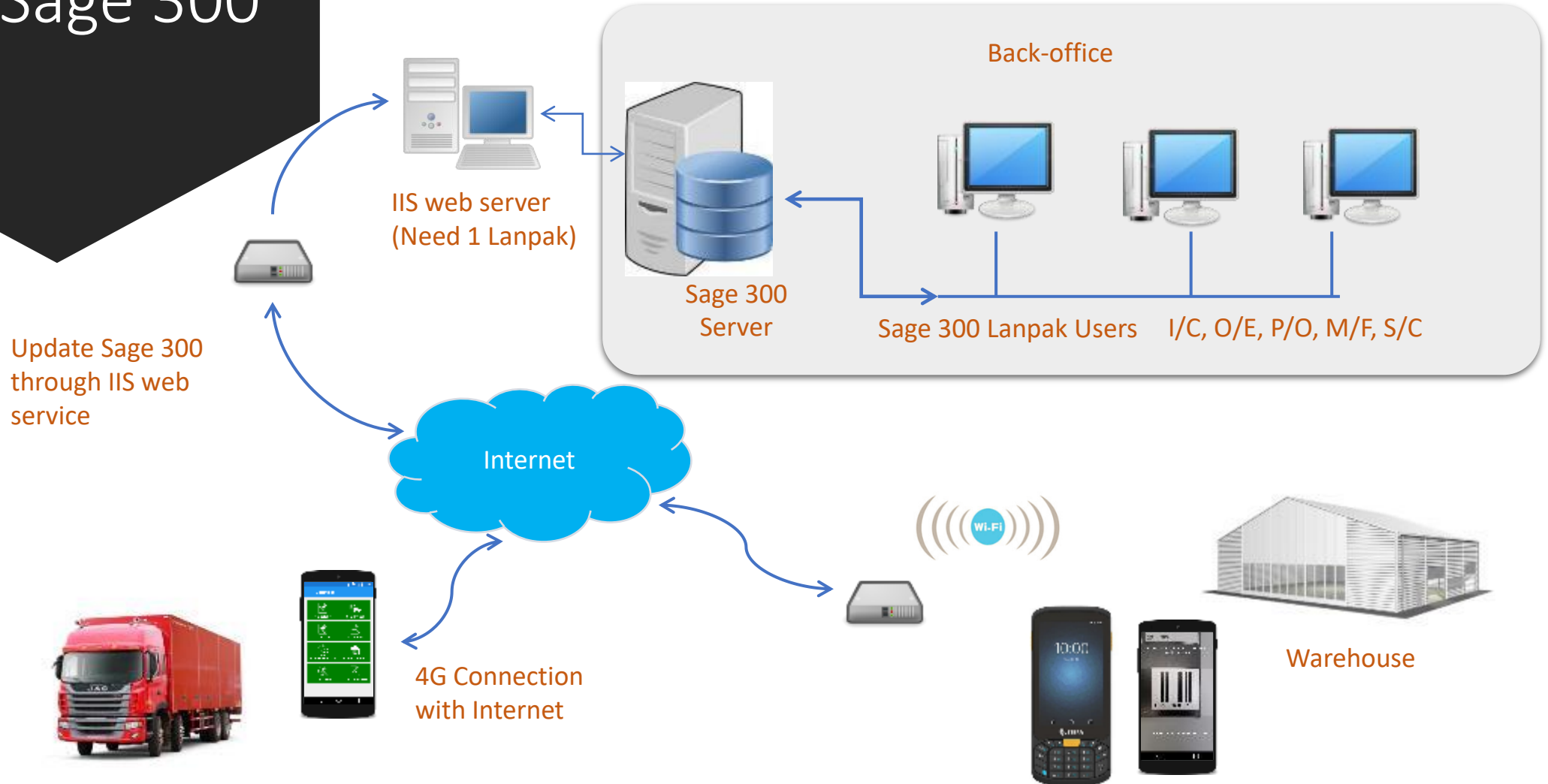


Barcode scanners



Barcode printing with Excel, Crystal Reports or
Barcode generation software

Integration with Sage 300



Installation – Web Server

To turn a feature on, select its checkbox. To turn a feature off, clear its checkbox. A filled box means that only part of the feature is turned on.

- .NET Framework 3.5 (includes .NET 2.0 and 3.0)
- .NET Framework 4.7 Advanced Services
- Active Directory Lightweight Directory Services
- Containers
- Data Center Bridging
- Device Lockdown
- Guarded Host
- Hyper-V
- Internet Explorer 11
- Internet Information Services
 - FTP Server
 - Web Management Tools

Windows Features

Turn Windows features on or off

To turn a feature on, select its checkbox. To turn a feature off, clear its checkbox. A filled box means that only part of the feature is turned on.

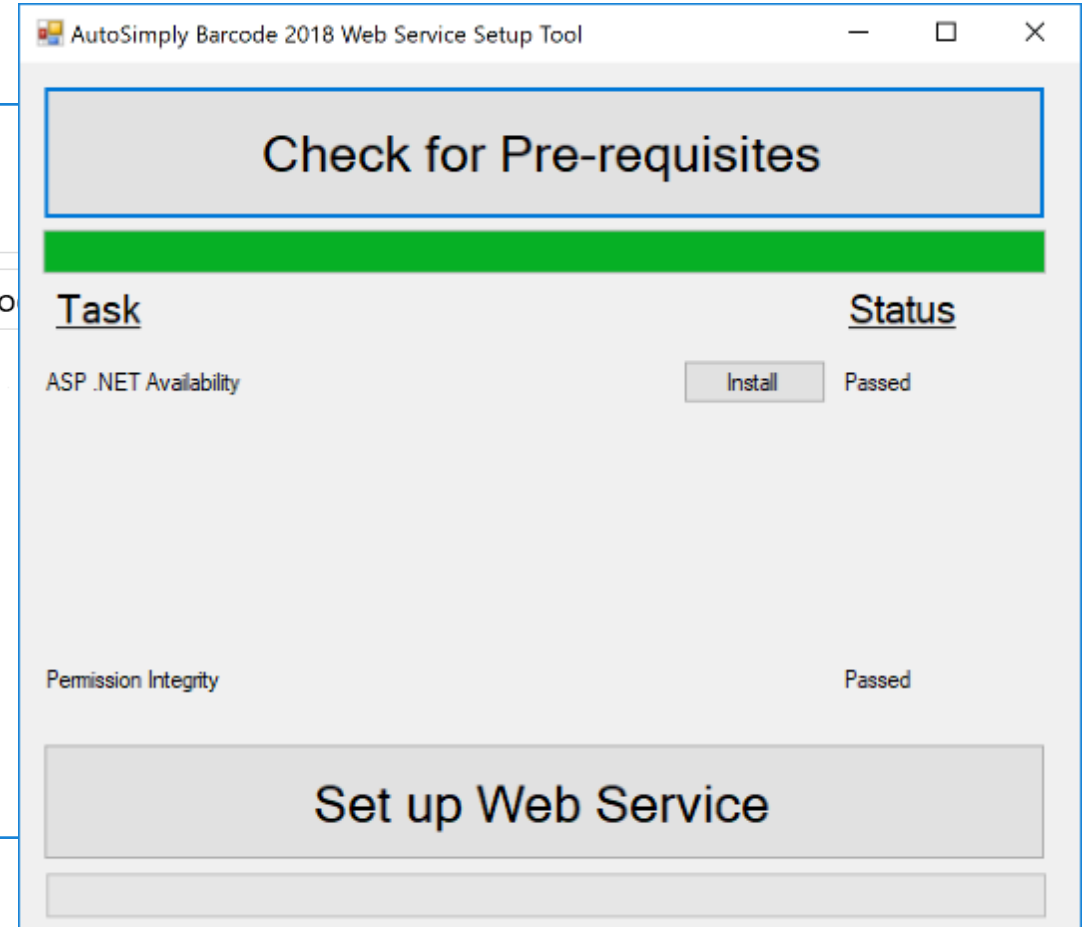
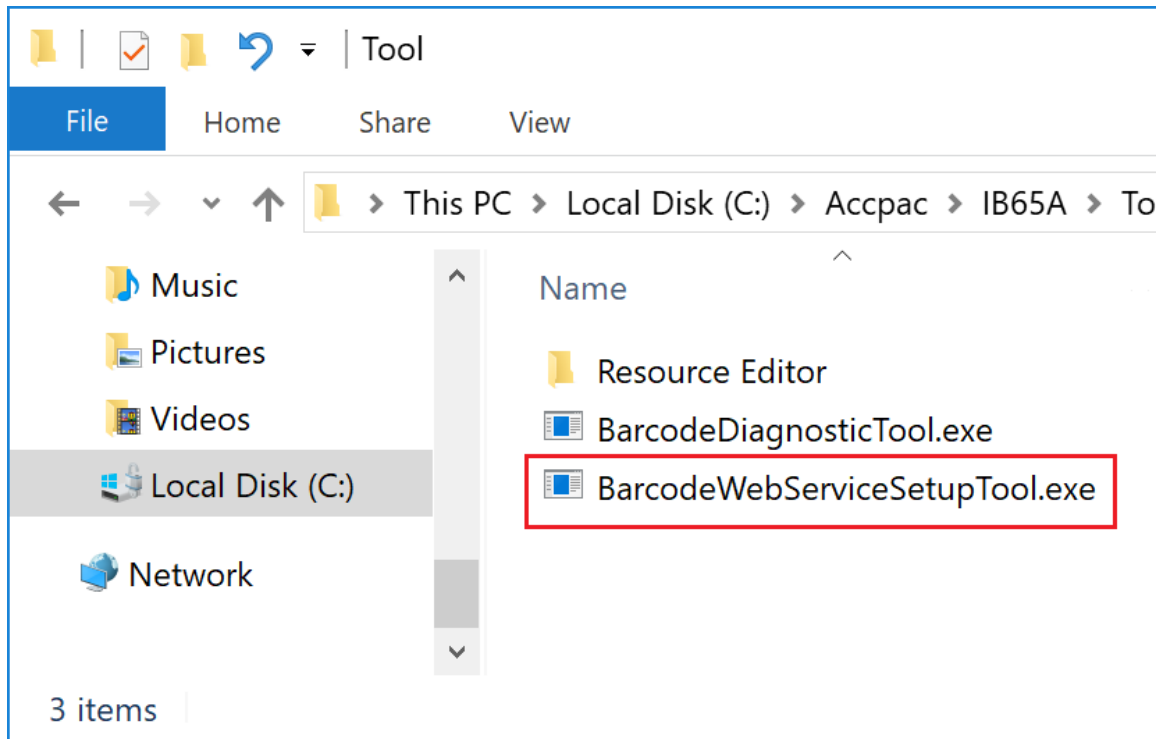
- World Wide Web Services
 - Application Development Features
 - .NET Extensibility 3.5
 - .NET Extensibility 4.7
 - Application Initialization
 - ASP
 - ASP.NET 3.5
 - ASP.NET 4.7
 - CGI
 - ISAPI Extensions
 - ISAPI Filters
 - Server-Side Includes
 - WebSocket Protocol

OK Cancel

Installation – Web Server

Download	Download Barcode installation from autosimply.com
Run	Run installation
Activate	Activate Inventory Barcode on Sage 300 company

Installation – Web server



Set up in 3 simple steps

2 Set up user security

MFGLTD - User Security

File Help

User ID [i] Barcode User 1

Select to grant permission

<input checked="" type="checkbox"/> P/O Receipt	<input checked="" type="checkbox"/> I/C Internal Usage
<input checked="" type="checkbox"/> P/O Return	<input checked="" type="checkbox"/> I/C Stock Count
<input checked="" type="checkbox"/> O/E Shipment	<input checked="" type="checkbox"/> I/C Transfer
<input checked="" type="checkbox"/> O/E Return	<input checked="" type="checkbox"/> I/C Transfer Receipt
<input checked="" type="checkbox"/> M/F FG Receipt	<input checked="" type="checkbox"/> I/C Shipment

1 Set up users

MFGLTD - User Master

File Help

User ID [i] Inactive

User Name Barcode User 1

Password * Verify *

Linked S/C User ADMIN

Save Delete Close

3 Web Service Configuration

Barcode Web Service Configuration

Web Config Location	C:\inetpub\wwwroot\WS\Web.config
SQL Database Server IP Address	localhost
Sage 300 Application Server IP Address	localhost
Database User ID	sa
Database User Password	*****
Accpac User ID	ADMIN
Accpac User Password	*****

Web Service Configuration

The image shows the Sage 300 software interface for 'Sample Company Limited' running as Administrator. The main window displays the 'Inventory Barcode (Web Service Configuration)' screen, which is highlighted with a red box. The screen shows the 'Inventory Barcode' menu item selected in the left-hand navigation pane. Below the navigation pane, there are several configuration options: 'Options', 'User Master', 'User Security', and 'Web Service Configuration' (highlighted with a red box). The 'Web Service Configuration' option is represented by a gear icon and a blue box with the text 'Web Service Configuration'. Below this, there are two printer icons labeled 'Label-Lot' and 'Label-Serial'. The main content area of the 'Inventory Barcode (Web Service Configuration)' screen shows 'Licensed to: , AutoSimply Company Limited', 'Dealer:', and 'CC:'. At the bottom of the main window, the 'Session Date: 08/01/2019' is displayed.

The 'Barcode Web Service Configuration' dialog box is open in the foreground, showing the following fields and options:

- Web Config Location: C:\inetpub\wwwroot\WS\User.config (with an 'Open' button)
- SQL Database Server IP Address: localhost
- Sage 300 Application Server IP Address: localhost (with a 'Port' field)
- Database User ID: sa
- Database User Password: (masked with dots)
- Sage 300 User ID: BARCODE
- Sage 300 User Password: (masked with dots)
- Use HTTPS:
- Enable Session Date Change:

Buttons at the bottom of the dialog box include 'Save', 'Test SQL', 'Test Sage', and 'Close'. A yellow callout box points to the 'localhost' field in the 'Sage 300 Application Server IP Address' field, containing the text 'IP address or server name'.

Web Service Configuration

- SQL Database Server
 - Include instance name if set up as an instance
 - E.g. DB1\SQLEXPRESS
- Sage 300 Server and port
 - Actually it should be the web server name, just leave it as localhost
 - Port is the port number of web service
 - Leave it empty for standard configuration
 - Only used by Barcode Login

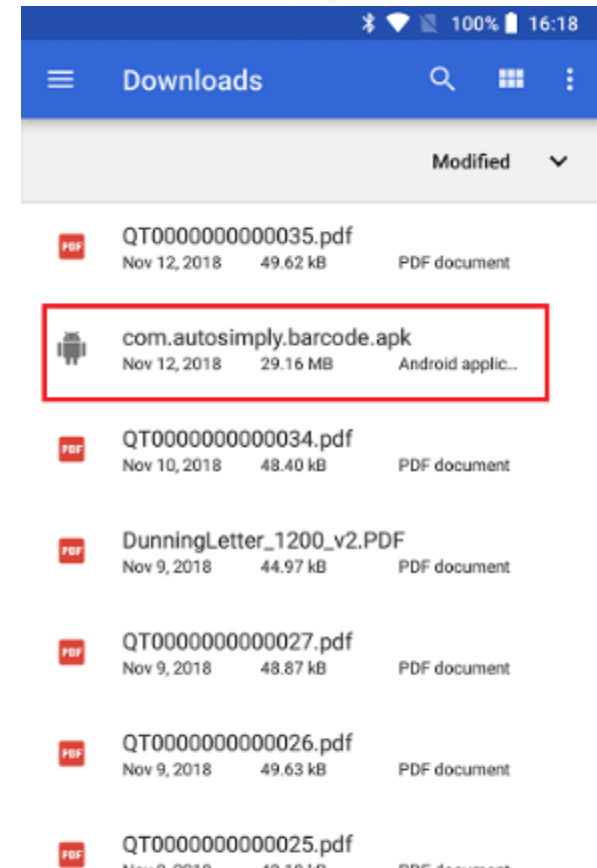
Phones / tablets

AutoSimply Barcode 2020



Android devices without Google Play

1. Download AutoSimply Barcode APK from autosimply.com
2. Copy the APK file to Download folder on device
3. Run Downloads or Files (or equivalent) on device
4. Find APK file, select to install



Windows 10



Microsoft Store

← Home Gaming Entertainment Productivity Deals Search

↓ This product is installed. Launch

AutoSimply Barcode 2020

AutoSimply Company Limited • Business > Inventory & logistics

Share

AutoSimply Barcode streamlines your business processes by bringing Sage 300 warehouse transactions to the front-line. Scan barcodes of items and post transactions online real-time to your Sage 300 system.

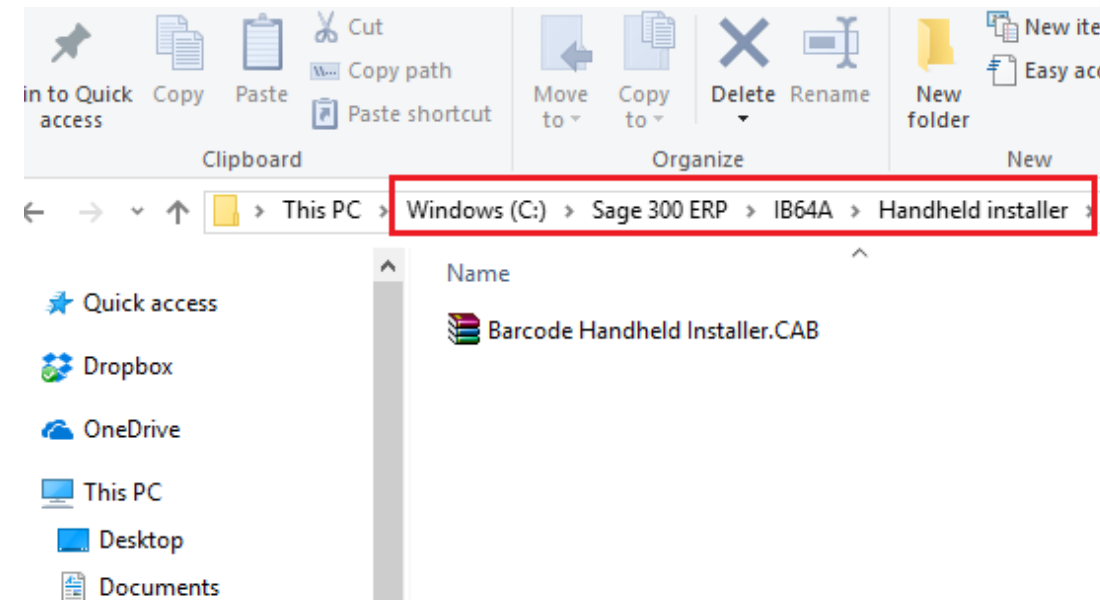
More

Wish list

3 PEGI 3

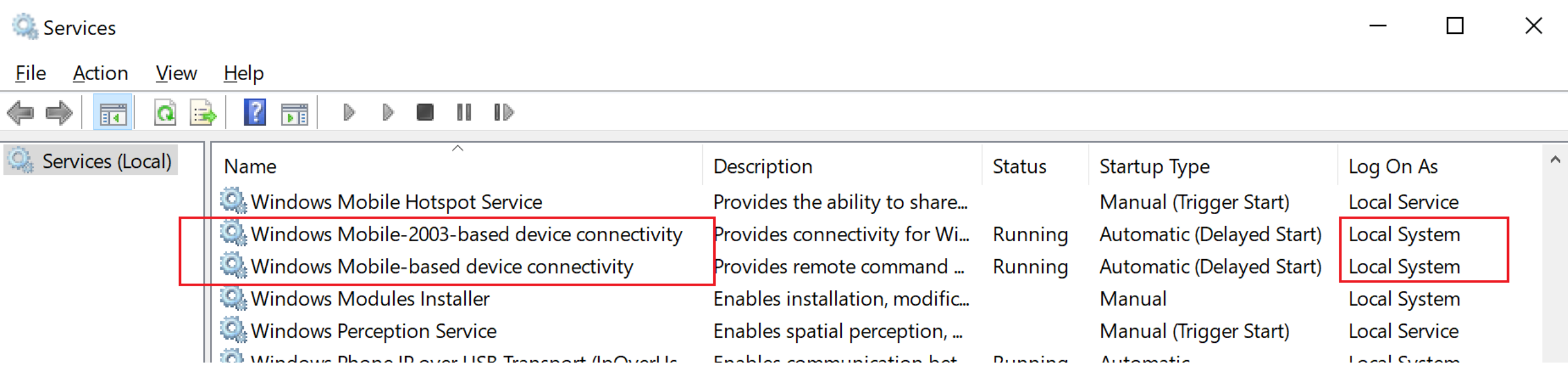
Windows CE / Mobile

1. Locate IB67A\Handheld folder in Sage 300 programs folder
2. Use ActiveSync to transfer Barcode Handheld Installer.CAB onto the mobile device
3. On the handheld
 - i. Run File Explorer and locate CAB file
 - ii. Run Barcode Handheld Installer.CAB to install



Windows CE / Mobile

ActiveSync on Windows 10

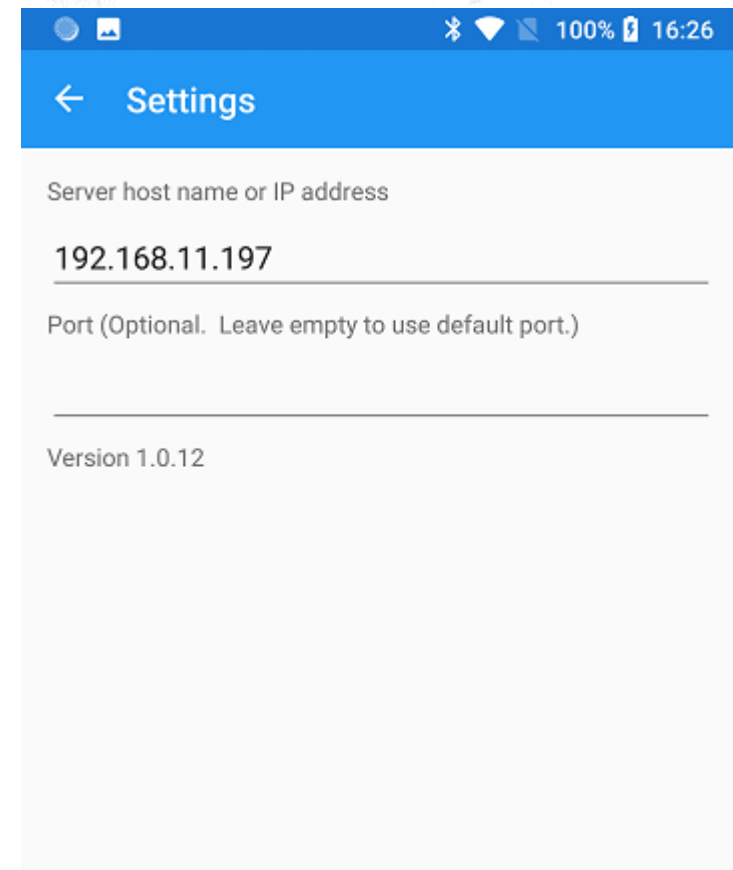


The screenshot shows the Windows Services console window. The title bar reads "Services" and the menu bar includes "File", "Action", "View", and "Help". The main area displays a list of services for "Services (Local)". The service "Windows Mobile-2003-based device connectivity" is highlighted with a red box, and its "Log On As" column value, "Local System", is also highlighted with a red box. Other services listed include "Windows Mobile Hotspot Service", "Windows Mobile-based device connectivity", "Windows Modules Installer", "Windows Perception Service", and "Windows Phone ID over USB Transport (InOverl...)".

Name	Description	Status	Startup Type	Log On As
Windows Mobile Hotspot Service	Provides the ability to share...		Manual (Trigger Start)	Local Service
Windows Mobile-2003-based device connectivity	Provides connectivity for Wi...	Running	Automatic (Delayed Start)	Local System
Windows Mobile-based device connectivity	Provides remote command ...	Running	Automatic (Delayed Start)	Local System
Windows Modules Installer	Enables installation, modific...		Manual	Local System
Windows Perception Service	Enables spatial perception, ...		Manual (Trigger Start)	Local Service
Windows Phone ID over USB Transport (InOverl...)	Enables communication bet...	Running	Automatic	Local System

Setting up handheld devices

- Server IP address or name
- Port
 - Leave it empty unless
 - IIS is configured to listen on non-default port
 - Connection goes through specific port of firewall with port forwarding to web server
 - Uses default ports if left empty
 - HTTP – 80
 - HTTPS - 443



The screenshot shows a mobile application interface with a blue header bar containing a back arrow and the word "Settings". Below the header, there are two input fields. The first field is labeled "Server host name or IP address" and contains the text "192.168.11.197". The second field is labeled "Port (Optional. Leave empty to use default port.)" and is currently empty. At the bottom of the screen, the text "Version 1.0.12" is displayed. The top status bar shows various icons including Bluetooth, Wi-Fi, signal strength, 100% battery, and the time 16:26.

Additional requirements – GS1

- Scanner must support GS1 barcodes

Symbology Decode Capability

1D	UPC/EAN, UPC/EAN with supplementals, Bookland EAN, ISSN, UCC Coupon Extended Code, Code 128, GS1-128 , ISBT 128, ISBT Concatenation, Code 39, Code 39 Full ASCII, Trioptic Code 39, Code 32, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI, Chinese 2 of 5, Matrix 2 of 5, Korean 3 of 5, GS1 DataBar variants
2D	PDF417, MicroPDF417, Composite Codes, TLC-39, Data Matrix, GS1 Data Matrix , Maxicode, QR Code, GS1 QR Code , MicroQR, Aztec, Han Xin
Postal	US Postnet, US Planet, UK Postal, Japan Postal, Australia Post, Royal Mail 4 State Customer, KIX Code (Dutch), UPU 4 State Postal FICS (Post US4), USPS 4 State Postal (Post US3), Mailmark

Additional requirements – GS1 and HIBC

Scanner configuration

- Enable AIM Code ID
 - Scanner sends special codes to identify barcode type

Set up Manufacturers' Item Numbers

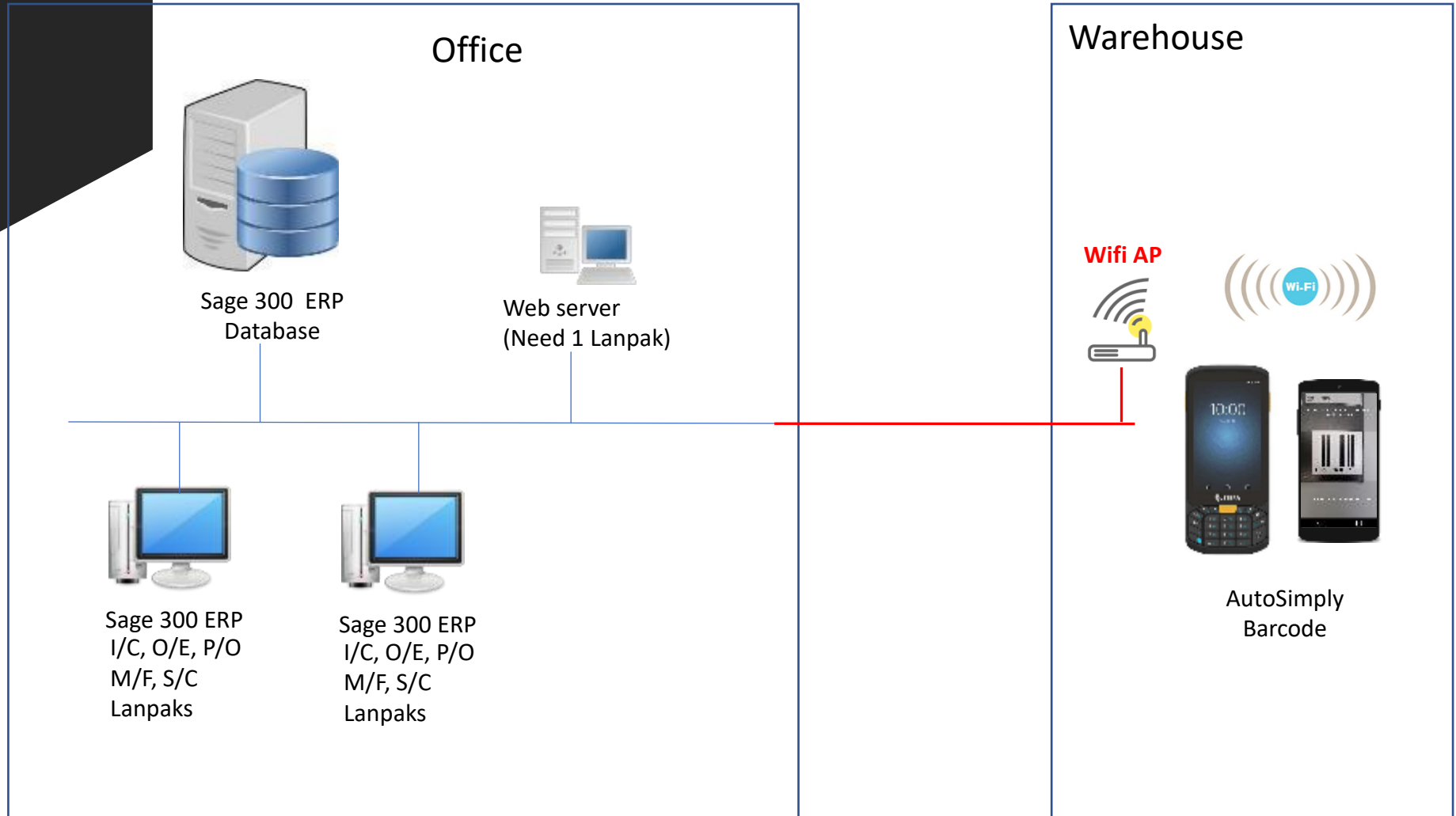
- GS1
 - GS1 product numbers must be 14-digit Global Trade Identification Number (GTIN)
 - Map GTINs to I/C item numbers
- HIBC
 - Product ID should be set up as manufacturers' item number

Network implementation scenarios

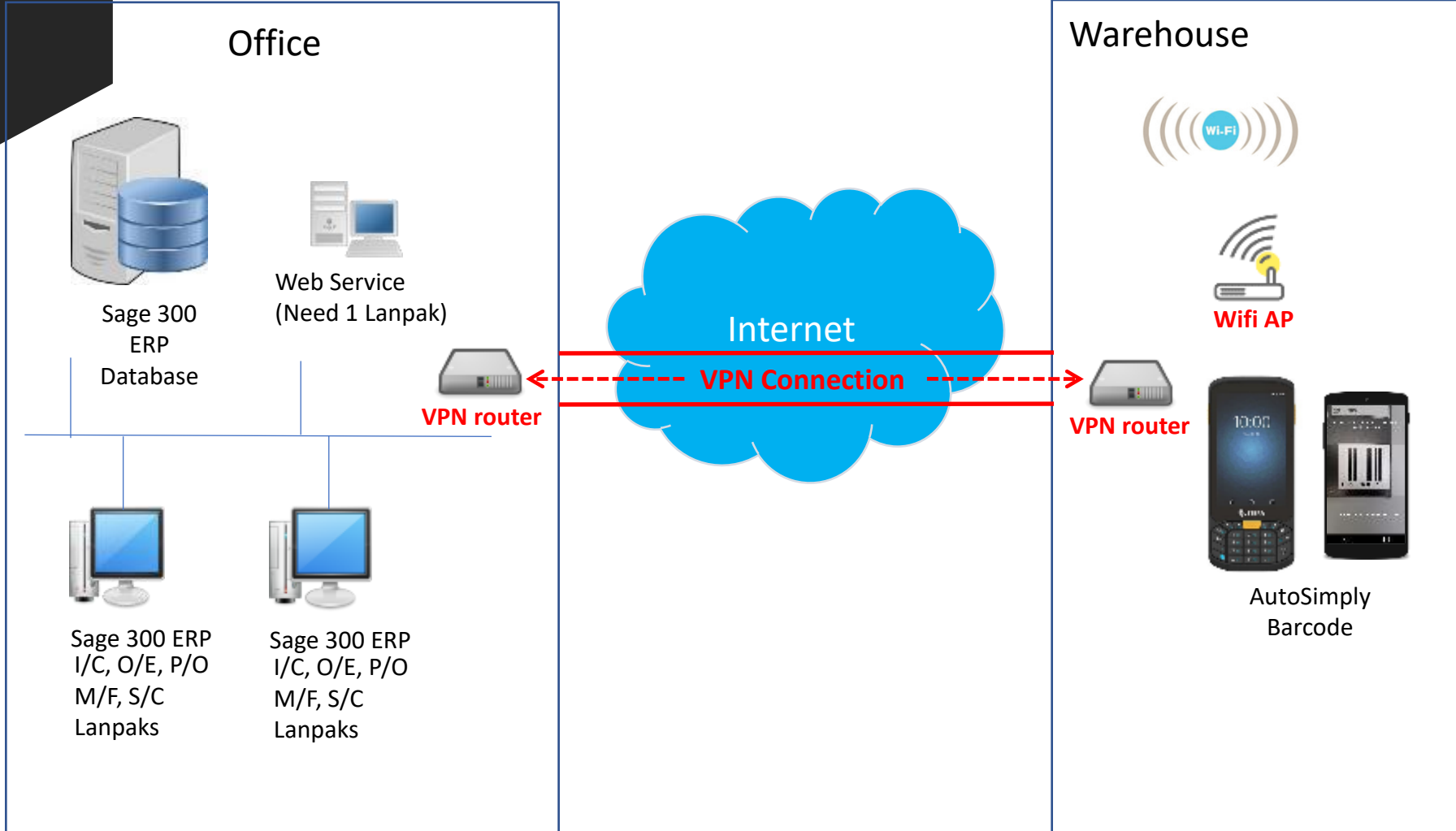


- Case 1
 - Warehouse has direct network connection to back office
 - Located in same office space
- Case 2
 - Warehouse needs internet connection to back office
 - Some devices are used outside of warehouse with 4G connection

Case 1



Case 2



Case 2 – security options

Option 1

VPN between
warehouse and
back office

- Warehouse needs access to other back office servers
- Set up with VPN routers

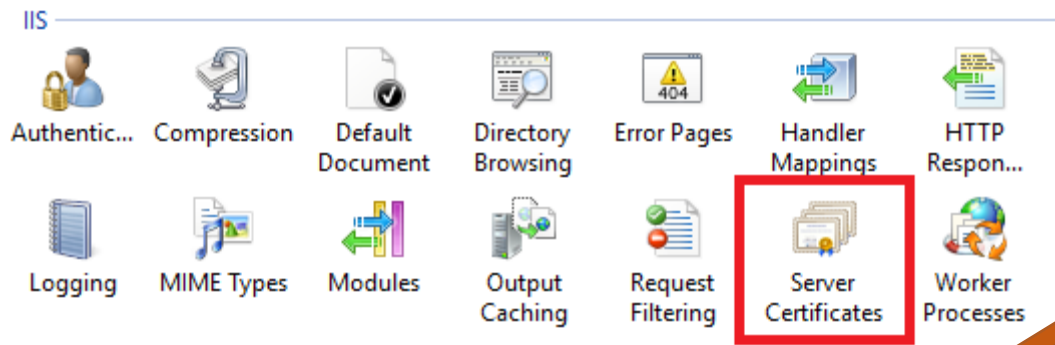
Option 2

Use HTTPS

- Some devices are used outside with 4G connection

Enabling HTTPS

1. Create a Certificate Request in IIS



Common name must match fully qualified server name when accessed through internet

The screenshot shows the 'Request Certificate' dialog box with the 'Distinguished Name Properties' tab selected. The dialog contains the following fields:

- Common name:** server.company.com (highlighted with a red box)
- Organization:** ABC Company Limited
- Organizational unit:** Operations
- City/locality:** Hong Kong
- State/province:** Hong Kong
- Country/region:** HK

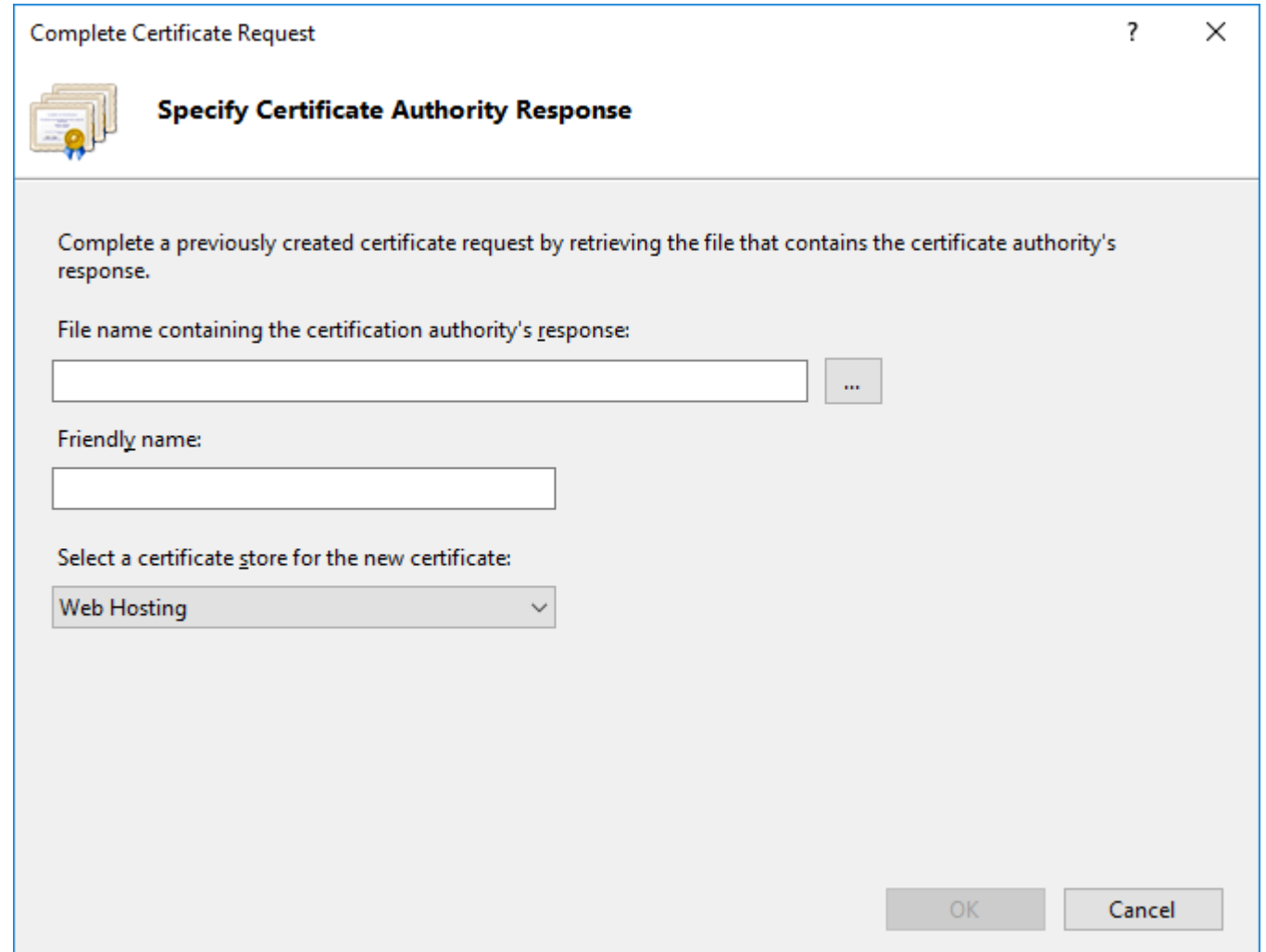
At the bottom of the dialog, there are buttons for 'Previous', 'Next', 'Finish', and 'Cancel'. The 'Next' button is currently active.

Enabling HTTPS


2. Purchase a server (SSL) certificate
 - i. 3rd party certificate issuers, e.g. GoDaddy, Symantec, etc.
 - ii. Submit Certificate Request file
 - iii. Issuer will verify ownership of company domain
 - iv. Download certificate file

Enabling HTTPS

3. Install the certificate in IIS
 - Server Certificates
 - Complete Certificate Request



Complete Certificate Request

 **Specify Certificate Authority Response**

Complete a previously created certificate request by retrieving the file that contains the certificate authority's response.

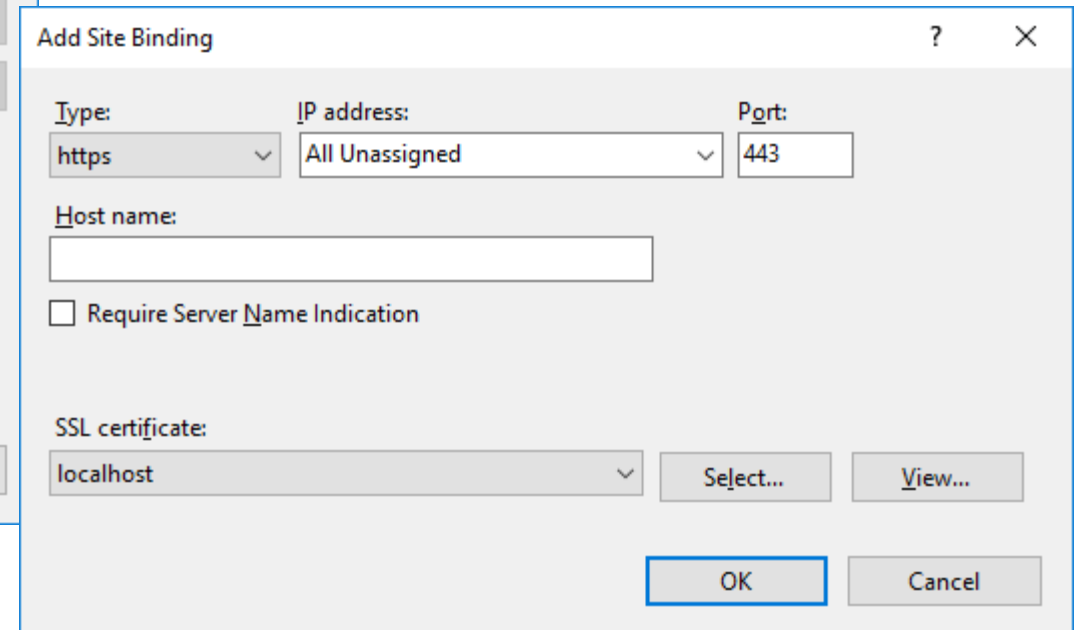
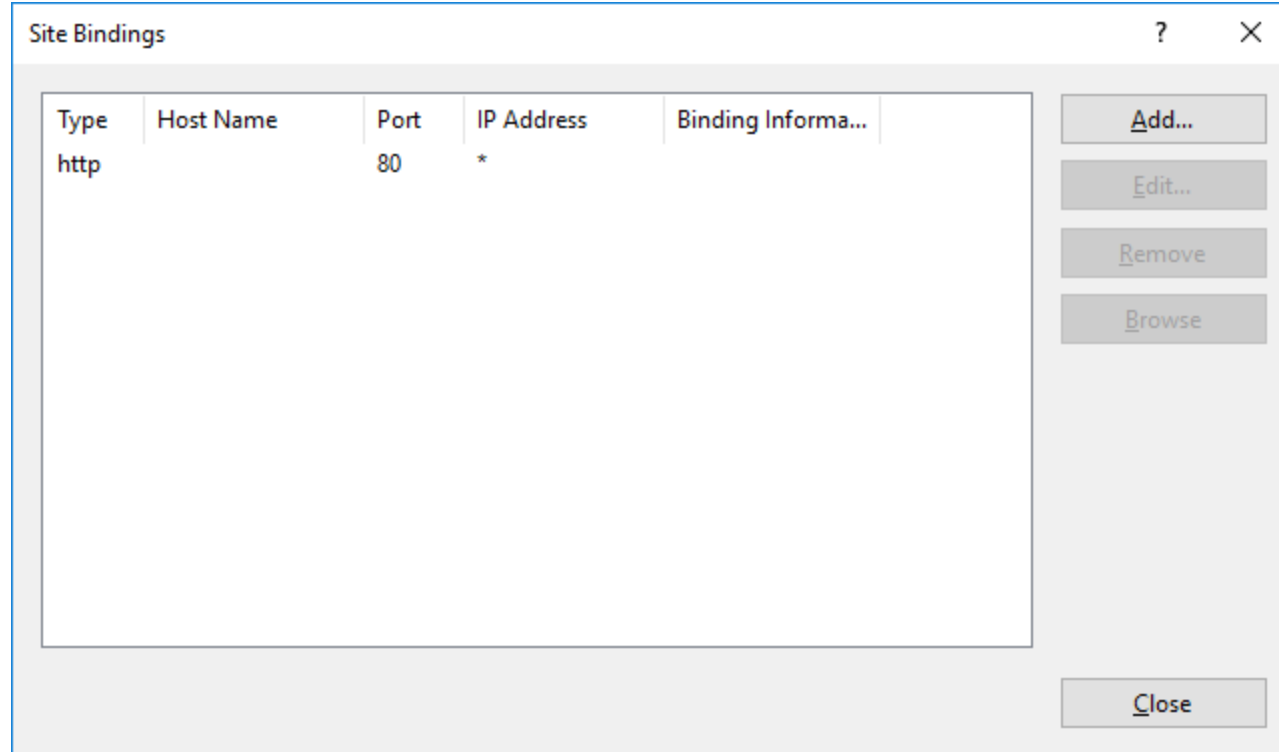
File name containing the certification authority's response:

Friendly name:

Select a certificate store for the new certificate:

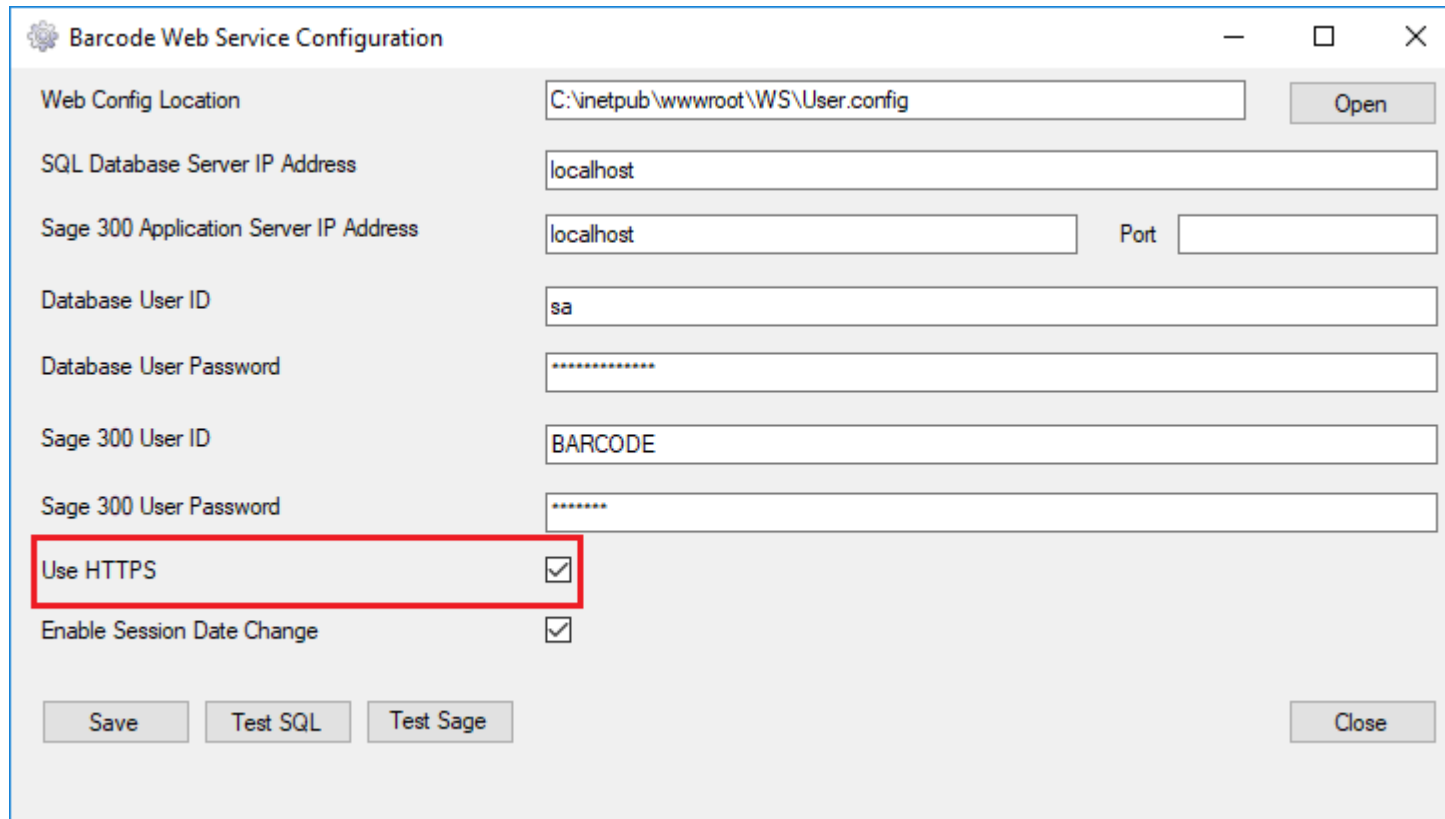
Enabling HTTPS

4. Enable HTTPS on the Default Web Site



Enabling HTTPS

5. Turn on “Use HTTPS” in Web Service Configuration



The image shows a Windows application window titled "Barcode Web Service Configuration". The window contains several configuration fields and checkboxes. The "Use HTTPS" checkbox is highlighted with a red rectangle and is checked. Other fields include "Web Config Location" (C:\inetpub\wwwroot\WS\User.config), "SQL Database Server IP Address" (localhost), "Sage 300 Application Server IP Address" (localhost), "Database User ID" (sa), "Database User Password" (masked with asterisks), "Sage 300 User ID" (BARCODE), and "Sage 300 User Password" (masked with asterisks). The "Enable Session Date Change" checkbox is also checked. Buttons for "Save", "Test SQL", "Test Sage", "Open", and "Close" are visible.

Web Config Location	C:\inetpub\wwwroot\WS\User.config	Open
SQL Database Server IP Address	localhost	
Sage 300 Application Server IP Address	localhost	Port
Database User ID	sa	
Database User Password	*****	
Sage 300 User ID	BARCODE	
Sage 300 User Password	*****	
Use HTTPS	<input checked="" type="checkbox"/>	
Enable Session Date Change	<input checked="" type="checkbox"/>	

Buttons: Save, Test SQL, Test Sage, Close

Enabling HTTPS

6. All handhelds connecting with HTTPS must use the fully qualified server name of Barcode web server

