



Doubleknot Sales Station Server

Installation Guide

Revision 1.0

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Authors: Roland Tam

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1.0 Revision History

The following is a history log of revisions to the document:

<i>Contributor</i>	<i>Version</i>	<i>Date</i>	<i>Comments</i>
Roland Tam	1.0	6/19/2018	First Draft

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3.0 Doubleknot Sales Station Environment

3.1 Overview

There are six major components in Doubleknot Sales Station – Sales Station Server, iOS Device(s), scanner(s), card reader(s), cash drawer(s), and receipt printer(s). Other than the iOS device, the rest are all optional.

3.1.1 Architecture

Figure 3-1 is a diagram of the complete system.

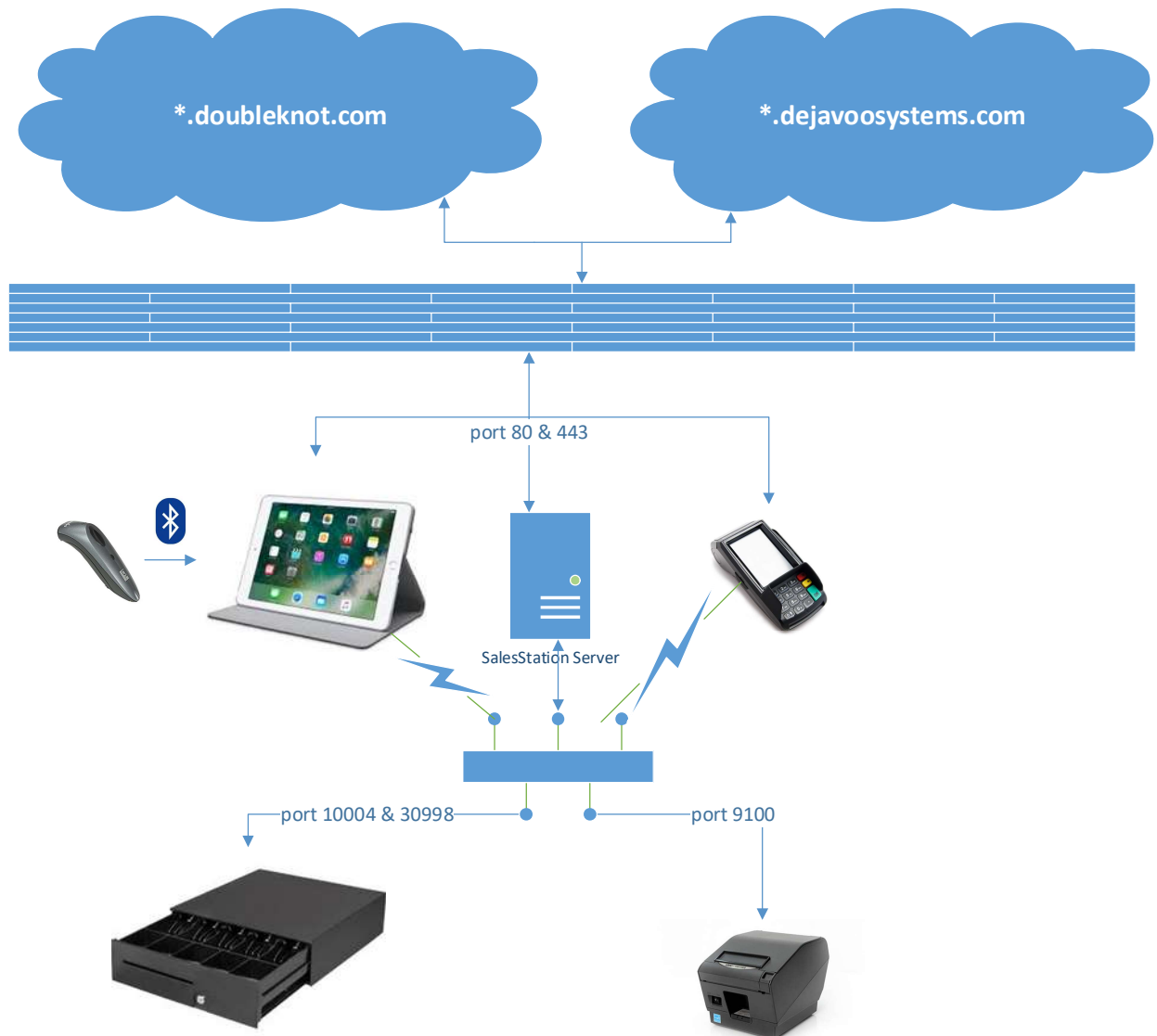


Figure 3-1

4.0 Sales Station Server

4.1 Overview

The Sales Station Server is the interface between the Sales Station app in the iOS device and the cash drawer and receipt printer. If an organization is not using either the cash drawer or receipt printer, Sales Station Server won't be necessary.

4.1.1 System Requirements

Sales Station Server is running on Windows (8 or above, or Server 2012 or above) with a minimum of 4 GB of memory, 100 GB of disk space, and Intel Core i3.

4.1.2 Prerequisites

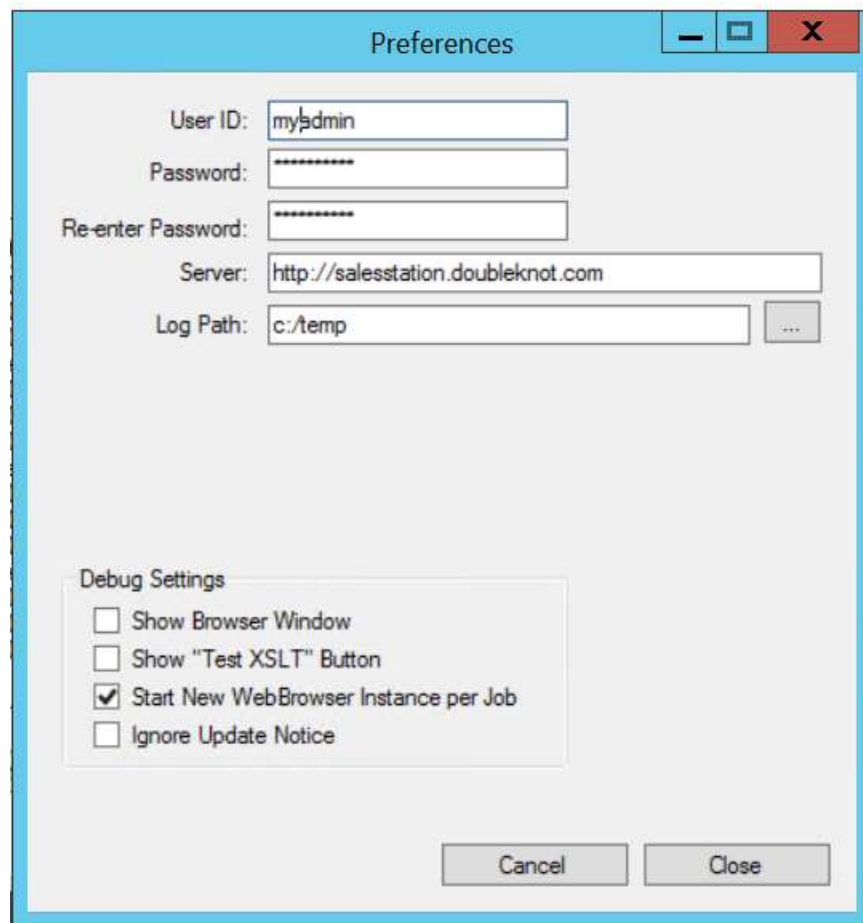
An administrator account must be created for the organization and API Access is required for Sales Station Server to work.

4.1.3 Installation

Unzip the SSS_Install.zip file and put the folder SSS in the C drive

4.1.4 Configuration

Launch SalesStationServer.exe and click the Setting button. The following screen will appear:



The screenshot shows a 'Preferences' dialog box with the following fields and options:

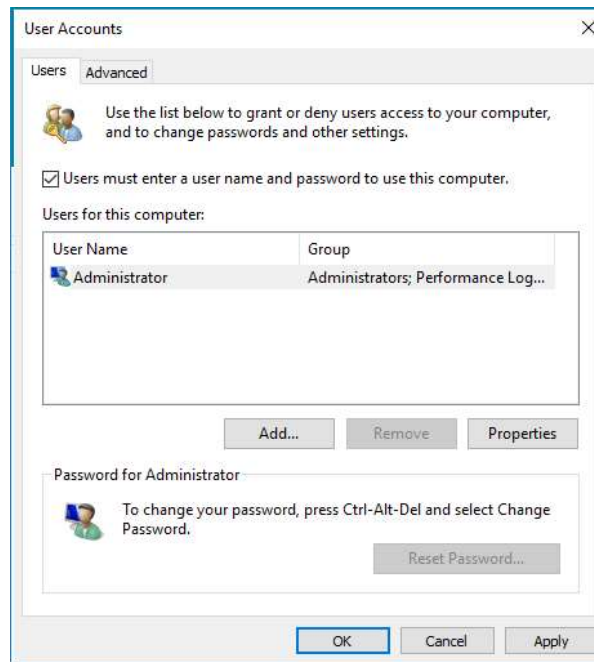
- User ID: myadmin
- Password: [masked]
- Re-enter Password: [masked]
- Server: http://salesstation.doubleknot.com
- Log Path: c:/temp
- Debug Settings:
 - ☐ Show Browser Window
 - ☐ Show "Test XSLT" Button
 - ☒ Start New WebBrowser Instance per Job
 - ☐ Ignore Update Notice

Buttons at the bottom: Cancel, Close

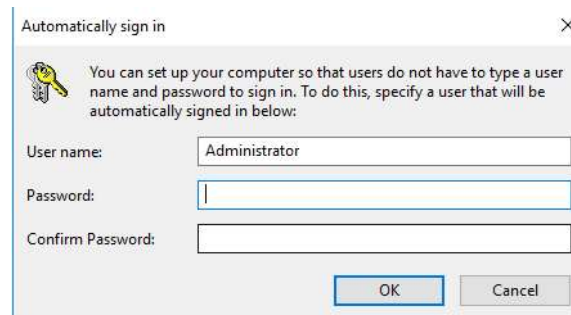
Enter user ID and passwords of the administrator account that was created earlier. The server will be set to <http://salesstation.doubleknot.com> and log path will be set to c:/temp. Check the box "Start New Web Browser instance per job" and then click the "Close" button.

To make sure Sales Station Server is launched after a reboot, we must set the machine to do auto login. Follow these steps.

1. Navigate to C:\Windows\System32
2. Launch the application Netplwiz.exe. The following screen will appear.



3. Uncheck "Users must enter a user name and password to user this computer" and click the "OK" button. The following screen will appear

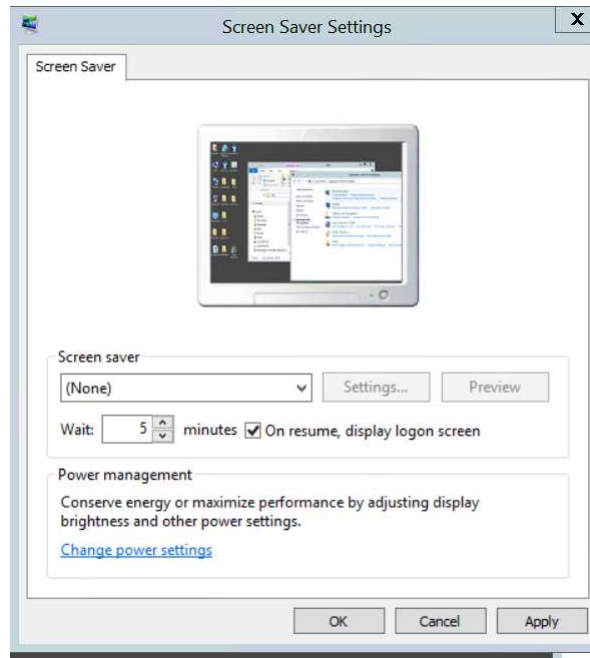


4. Enter the user name and passwords, and then click the "OK" button
5. After that, the user will be logged in automatically after a reboot

If security is a concern, you can set the screen to auto lock after a period of time without user actions. Here are the steps.

1. Open Control Panel
2. Go to "Appearance and Personalization"

3. Underneath the Personalization section on the right, click "Change screen saver." "The following screen will appear.



4. Check the box "On resume, display logon screen" and enter a number of minutes. The machine will be locked after that many minutes without user actions.

5.0 Cash Drawer

5.1 Overview

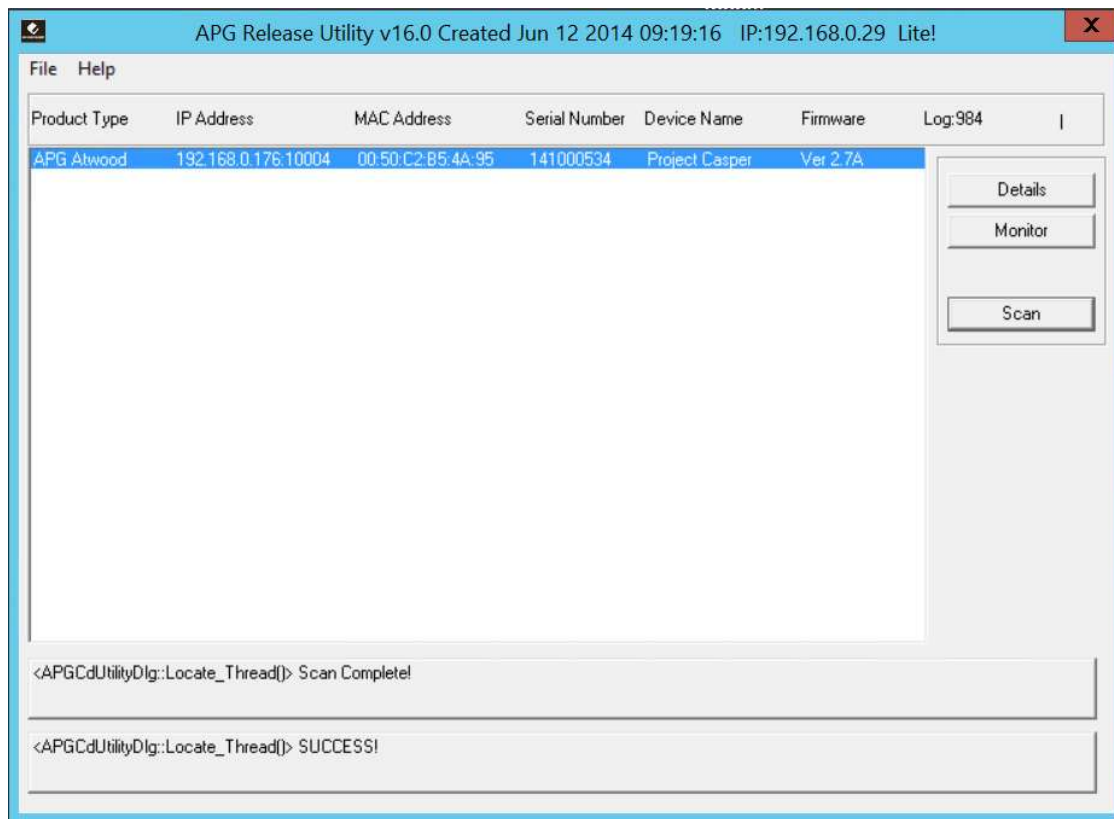
The cash drawer can be used to store cash, checks, as well as credit card receipts. It will be connected to the local area network (LAN) of the organization. When the user opens the cash drawer via the Sales Station app, a message will be sent to the Doubleknot cloud server(s) and then another message will be sent from the Doubleknot cloud server to the Sales Station Server for this organization. Lastly, the Sales Station Server will send a message to tell the cash drawer to open.

5.1.1 Prerequisites

A static IP address is required for each cash drawer.

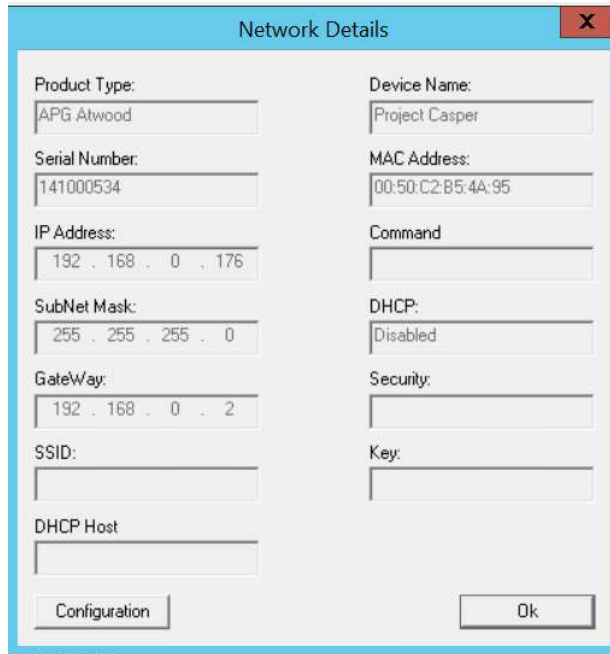
5.1.2 Configuration

1. Launch APGCdRelUtil.exe on the Sales Station Server machine



2. Click the "Scan" button and the cash drawer(s) will appear on the list

3. Select the cash drawer you want to work on, and click on the “Details” button. The following screen is displayed.

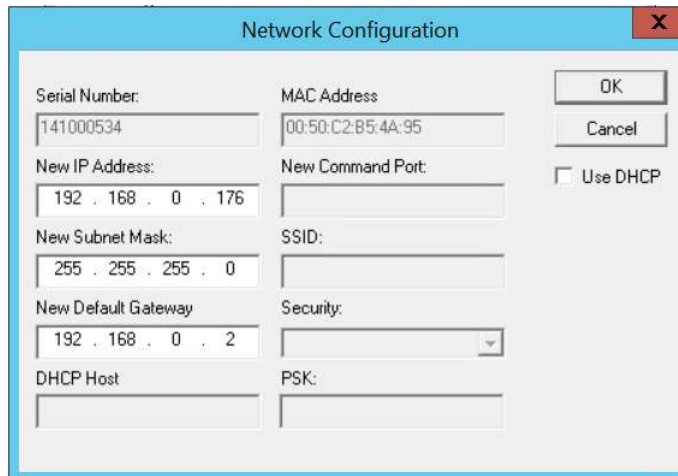


The "Network Details" dialog box displays the following information:

Product Type: APG Atwood	Device Name: Project Casper
Serial Number: 141000534	MAC Address: 00:50:C2:85:4A:95
IP Address: 192 . 168 . 0 . 176	Command:
SubNet Mask: 255 . 255 . 255 . 0	DHCP: Disabled
GateWay: 192 . 168 . 0 . 2	Security:
SSID: 	Key:
DHCP Host: 	

Buttons: Configuration, Ok

4. Click the “Configuration” button at the lower left.

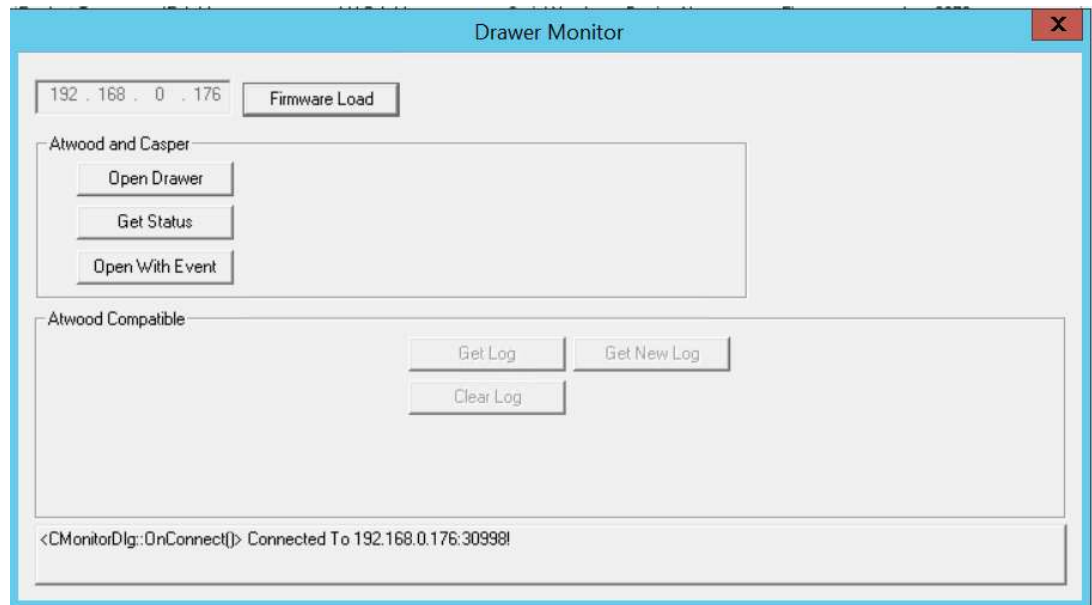


The "Network Configuration" dialog box displays the following information:

Serial Number: 141000534	MAC Address: 00:50:C2:85:4A:95	OK Cancel <input type="checkbox"/> Use DHCP
New IP Address: 192 . 168 . 0 . 176	New Command Port: 	
New Subnet Mask: 255 . 255 . 255 . 0	SSID: 	
New Default Gateway: 192 . 168 . 0 . 2	Security: 	
DHCP Host: 	PSK: 	

5. Enter the static IP address, subnet mask, and default gateway. Then click the “OK” button, and then click the “OK” button one more time.
6. Click the “Scan” button again. The new IP address should be reflected on the list.

- Click on the “Monitor” button



- Click on the “Open Drawer” button and the drawer should open.

6.0 Receipt Printer

6.1 Overview

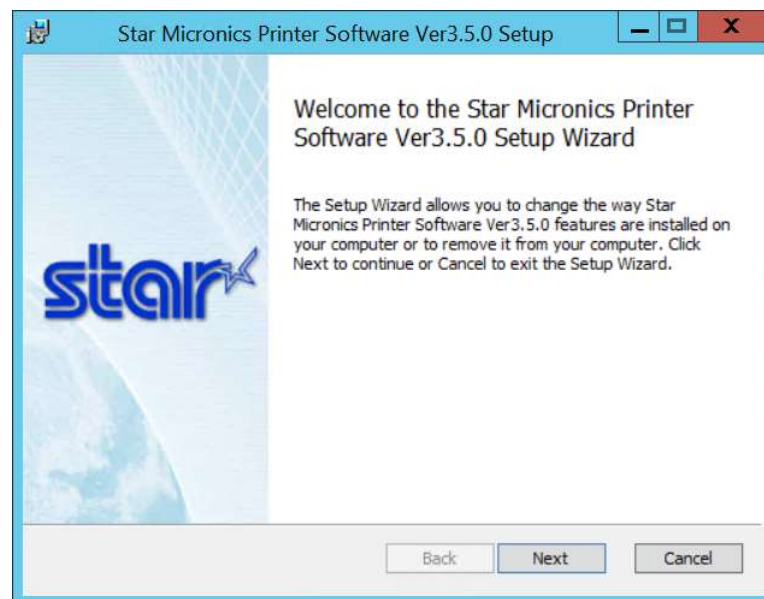
The receipt printer can be used to print sales receipts or cash drawer reports. It will be connected to the local area network (LAN) of the organization. When the user print via the Sales Station app, a message will be sent to the Doubleknot cloud server(s) and then another message will be sent from the Doubleknot cloud server to the Sales Station Server for this organization. Lastly, the Sales Station Server will send a message to tell the printer to print.

6.1.1 Prerequisites

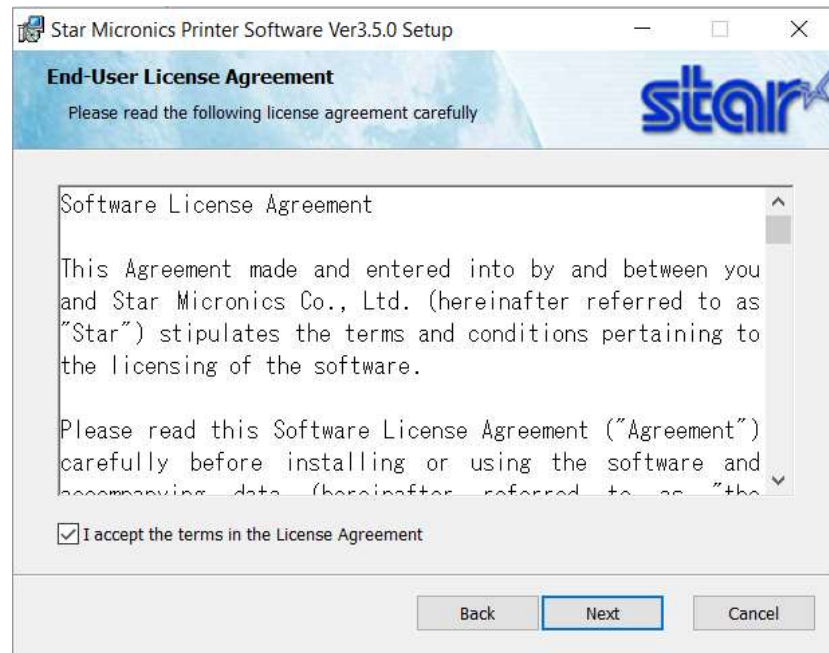
A static IP address is required for each receipt printer.

6.1.2 Installation

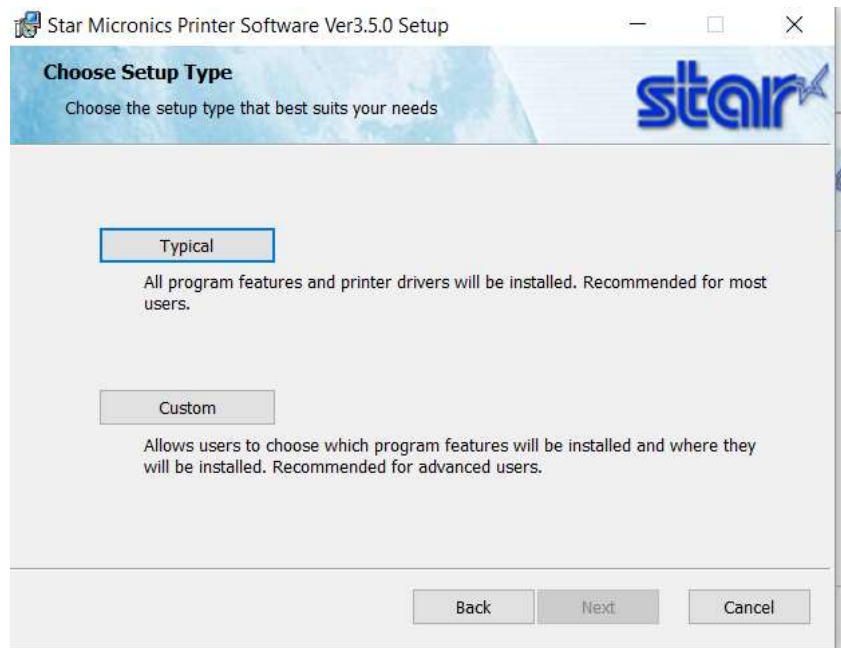
1. Download the installer from Star Micronics
http://www.starmicronics.com/Support/download.aspx?type=1&tabText=StarPRNT%20V3.5%20FULL%2032/64-bit&path=DriverFolder\drv\starpnt_v350.zip&id=1743&referrer=http://www.starmicronics.com/support/default.aspx
2. Extract starprnt_v350.zip in the Sales Station Server machine
2. Navigate to the Setup folder inside the Windows folder
3. Launch Setup.exe



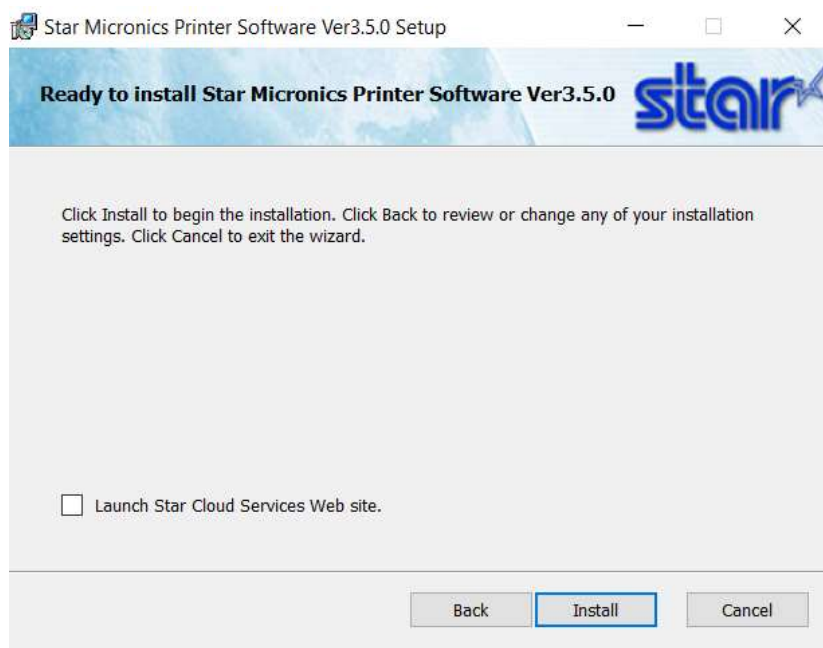
- Click on the "Next" button



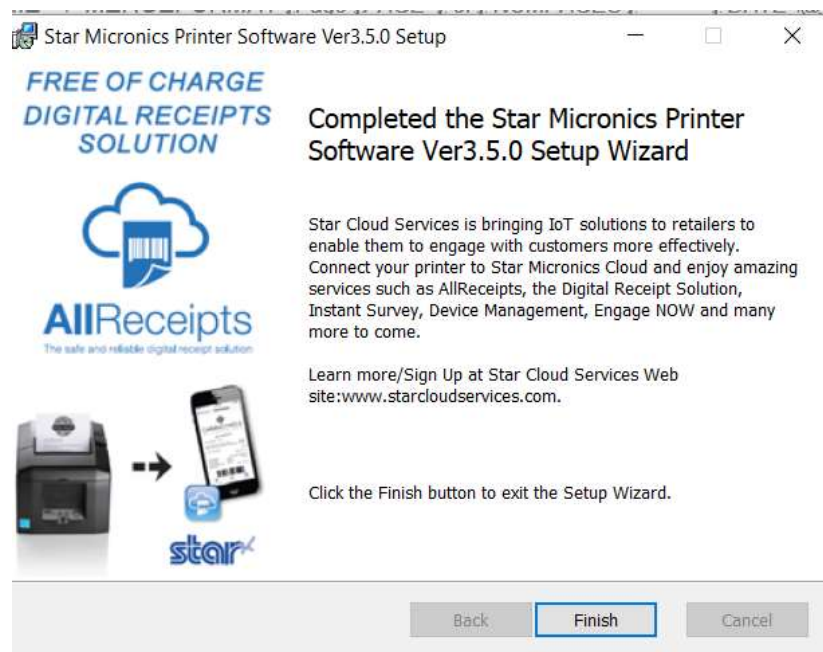
- Check "I accept the terms in the License Agreement" and click on the "Next" button



- Click on the “Typical” button



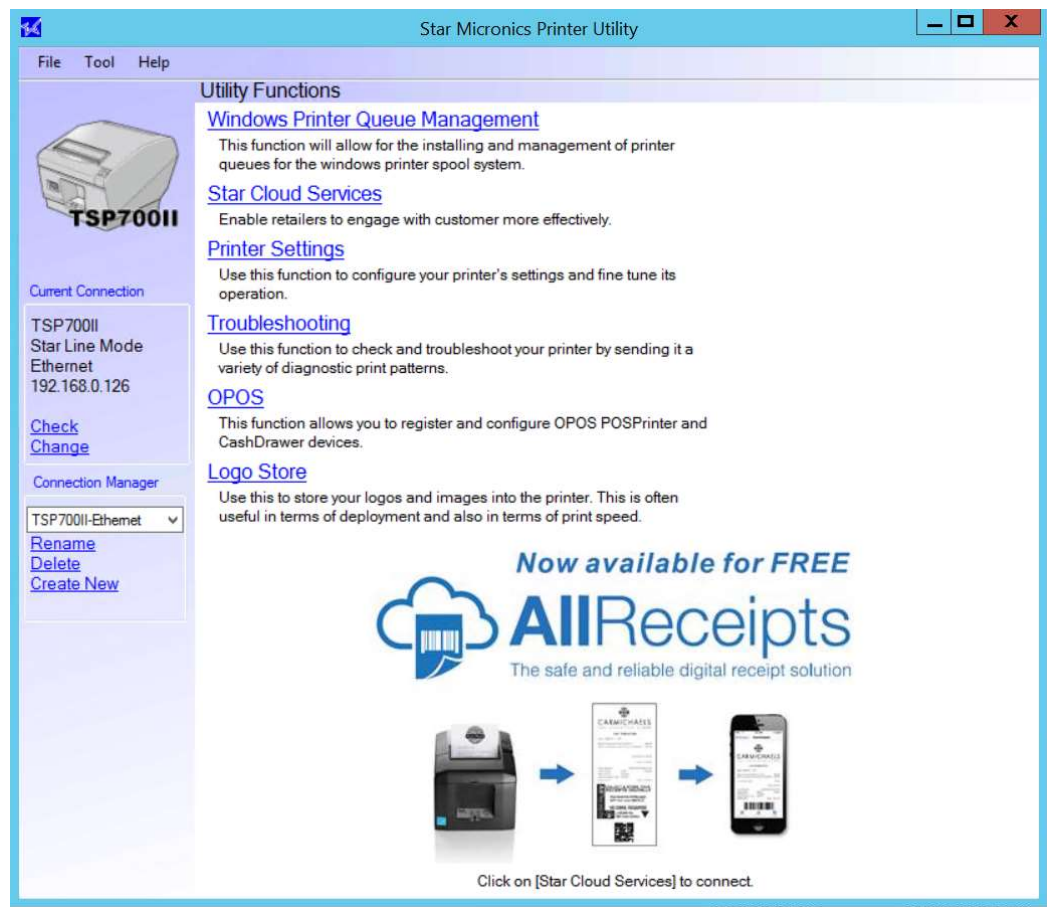
- Uncheck “Launch Star Cloud Services Web site” and then click on the “Install” button



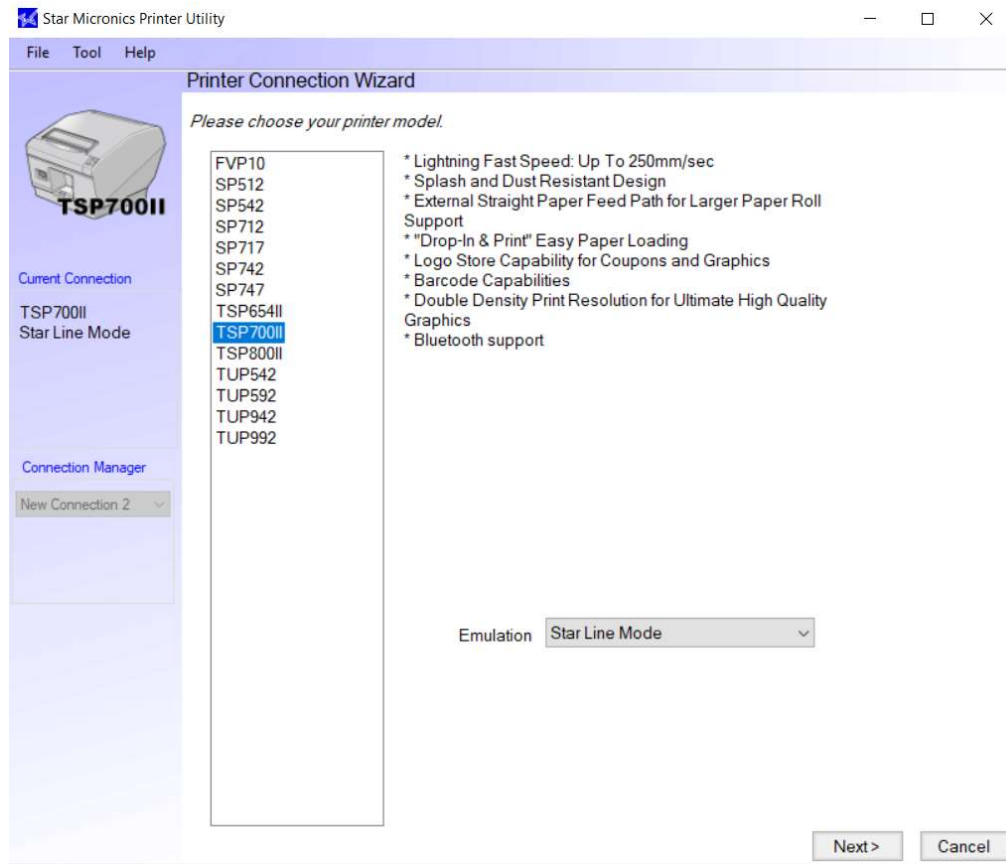
- Click the “Finish” button

6.1.3 Configuration

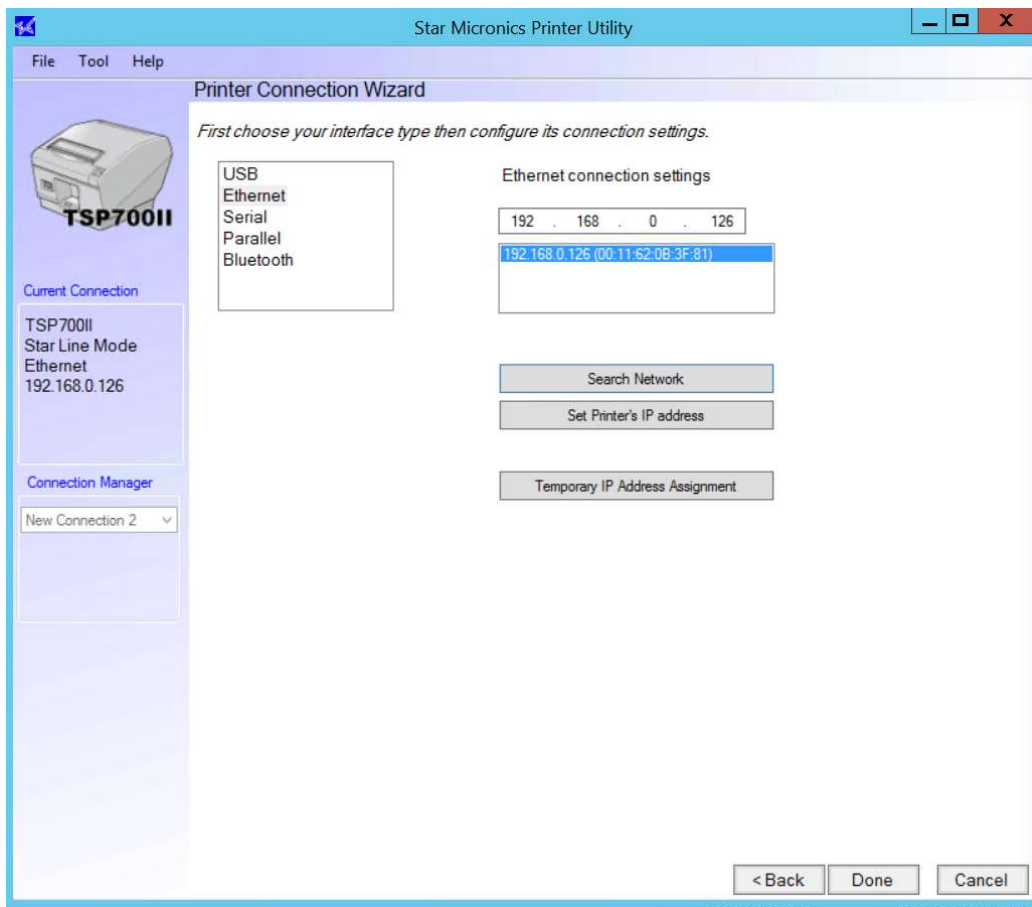
1. Launch Printer Utility Star PRNT



2. Click on “Create New”




3. Select TSP700II and click on the “Next” button



4. Select Ethernet and click on the “Search Network” button and the current IP address of the printer will show up. Then click on the “Set Printer’s IP address” button

Star IFBD-HE07/08
Network Utility



Contents	System Access	Network Configuration	Display Status	Contact us										
Network Configuration IP Parameters System Configuration Change Password Save Set Default		IP Parameters <input checked="" type="radio"/> Static //following addresses are used. <table border="1"> <tr> <td>IP Address</td> <td>0.0.0.0</td> </tr> <tr> <td>Subnet Mask</td> <td>0.0.0.0</td> </tr> <tr> <td>Default Gateway</td> <td>0.0.0.0</td> </tr> </table> <input type="radio"/> Dynamic //Addresses are obtained from network. <table border="1"> <tr> <td>DHCP/BOOTP</td> <td>ENABLE</td> </tr> <tr> <td>RARP</td> <td>ENABLE</td> </tr> </table>	IP Address	0.0.0.0	Subnet Mask	0.0.0.0	Default Gateway	0.0.0.0	DHCP/BOOTP	ENABLE	RARP	ENABLE		
IP Address	0.0.0.0													
Subnet Mask	0.0.0.0													
Default Gateway	0.0.0.0													
DHCP/BOOTP	ENABLE													
RARP	ENABLE													
Display Status Network Card Info. Network Status Device Info. Device Status														
System Access Logout														
Contact us Star Web Site E-Mail														

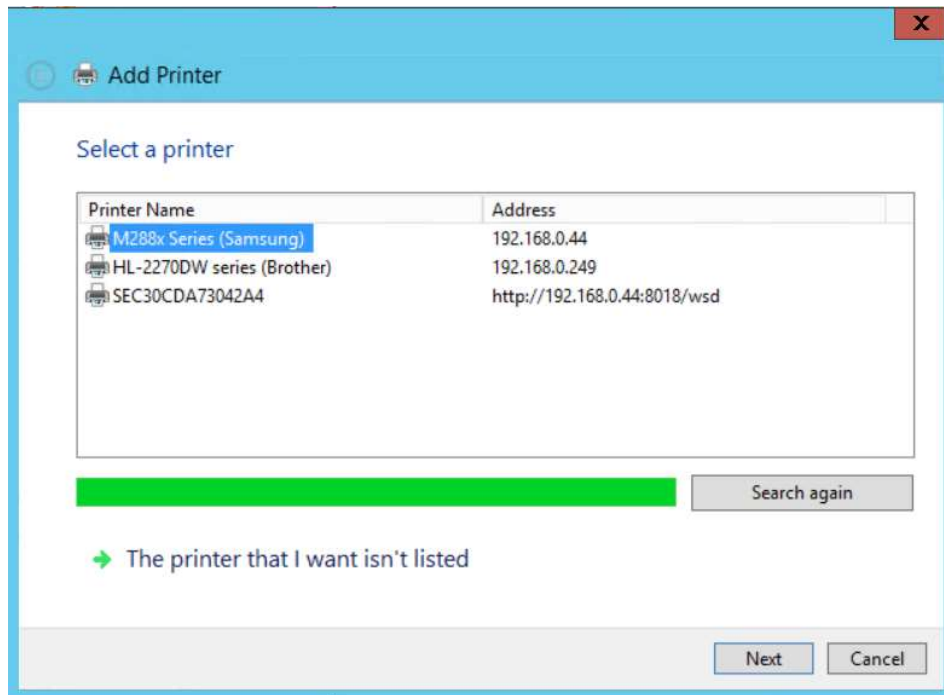
Device Model: TSP743II (STR_T-001)
MAC Address: 00:11:62:0B:3F:81

Submit Cancel

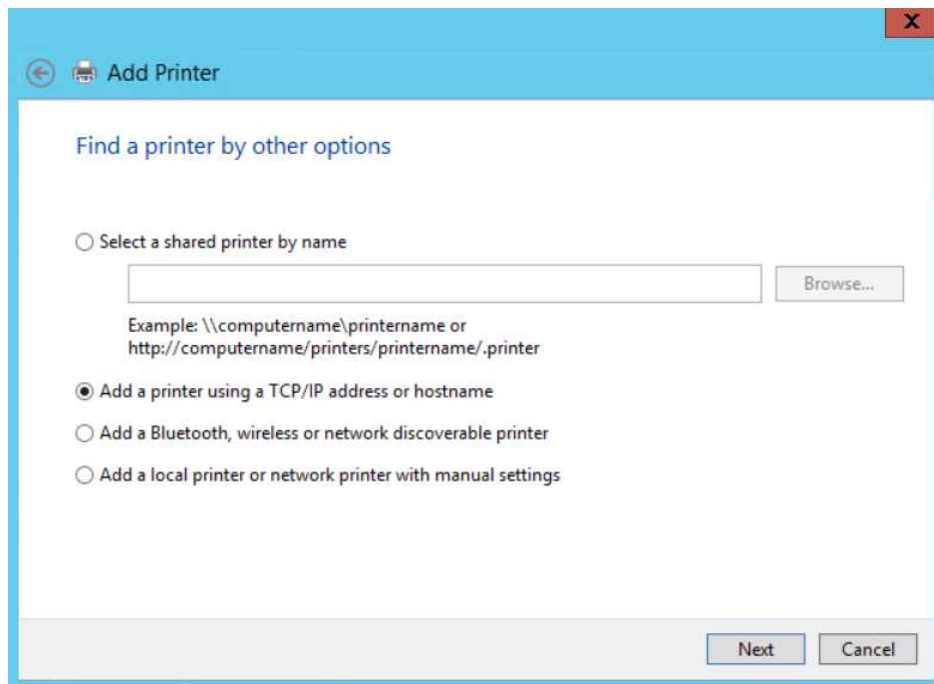
Notes:
This web site is used with inline frame and style sheet. Set Font size to medium.
This web site can be used by the following browsers with Javascript activated:
* Mozilla Firefox 1.0 or above
* Netscape 7 or above

5. Click on IP Parameters and enter the static IP address, subnet mask, and default gateway. Then click on the “Submit” button
6. Close the browser window
7. Click on the “Search Network” button again and the new IP address should appear
8. Quit the application
9. Open Control Panel
10. Go to “Devices and Printers”

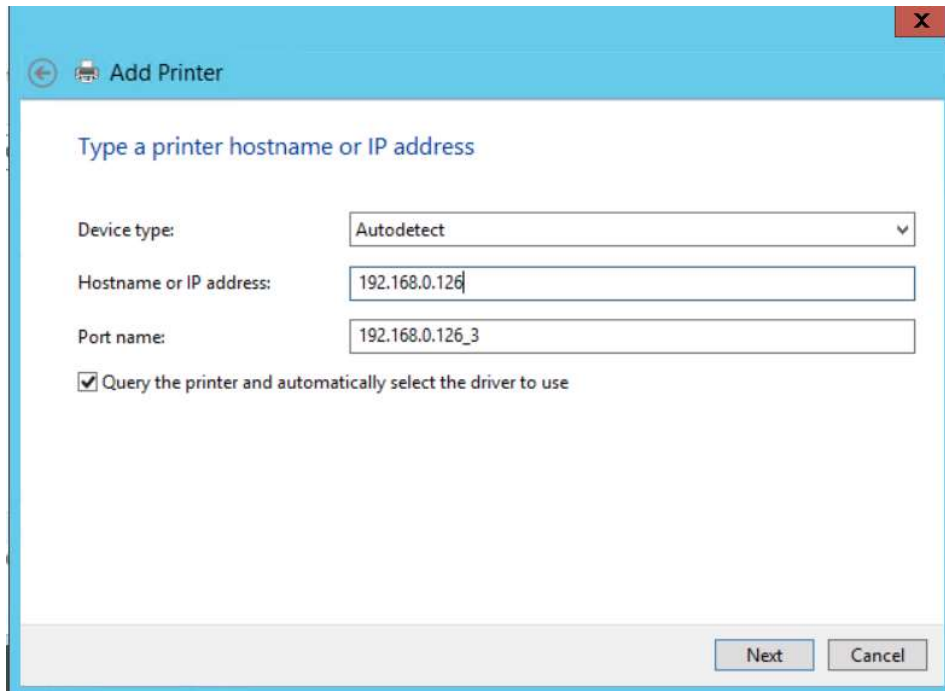
11. Click on “Add a printer”



12. Click on “The printer that I want isn't listed”

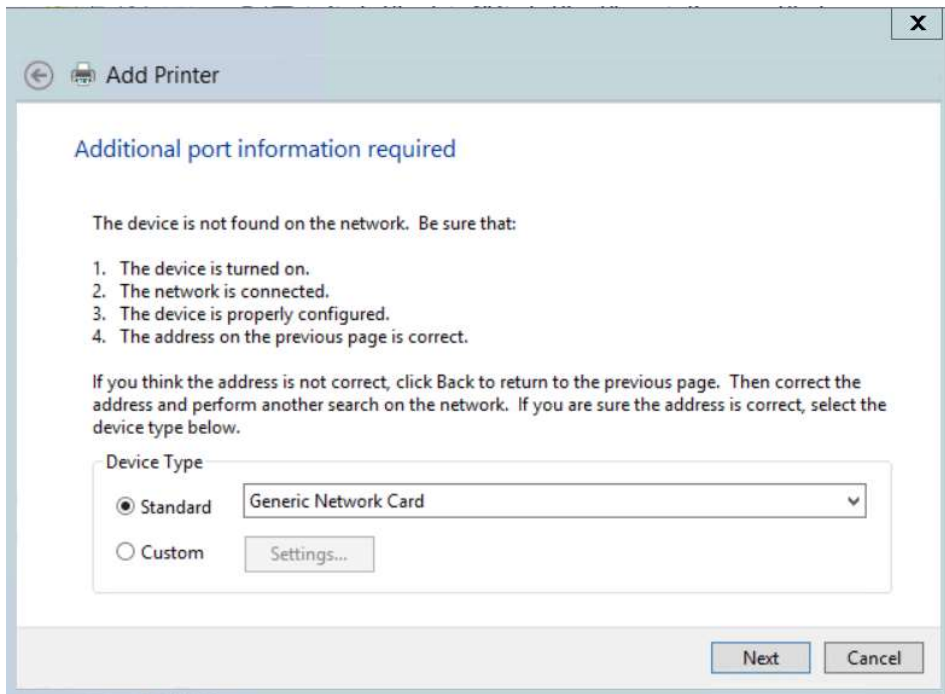


13. Select “Add a printer using a TCP/IP address or hostname” and click on the “Next” button



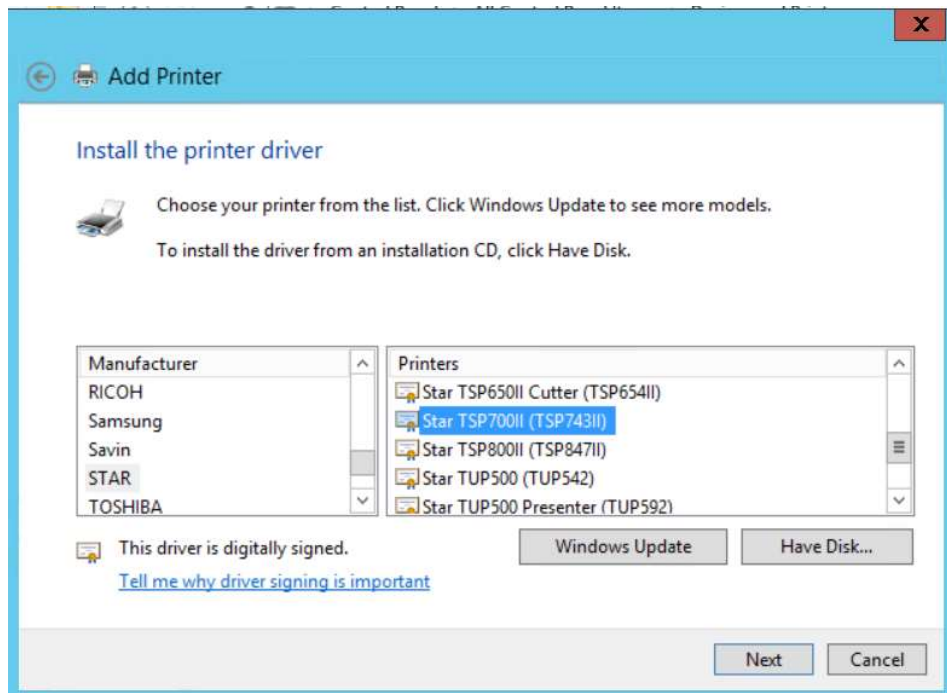
The screenshot shows the 'Add Printer' window with the title bar 'Add Printer'. The main heading is 'Type a printer hostname or IP address'. Below this, there are three input fields: 'Device type:' with a dropdown menu set to 'Autodetect', 'Hostname or IP address:' with the text '192.168.0.126', and 'Port name:' with the text '192.168.0.126_3'. A checkbox labeled 'Query the printer and automatically select the driver to use' is checked. At the bottom right, there are 'Next' and 'Cancel' buttons.

14. Enter the IP address of the printer and click on the “Next” button

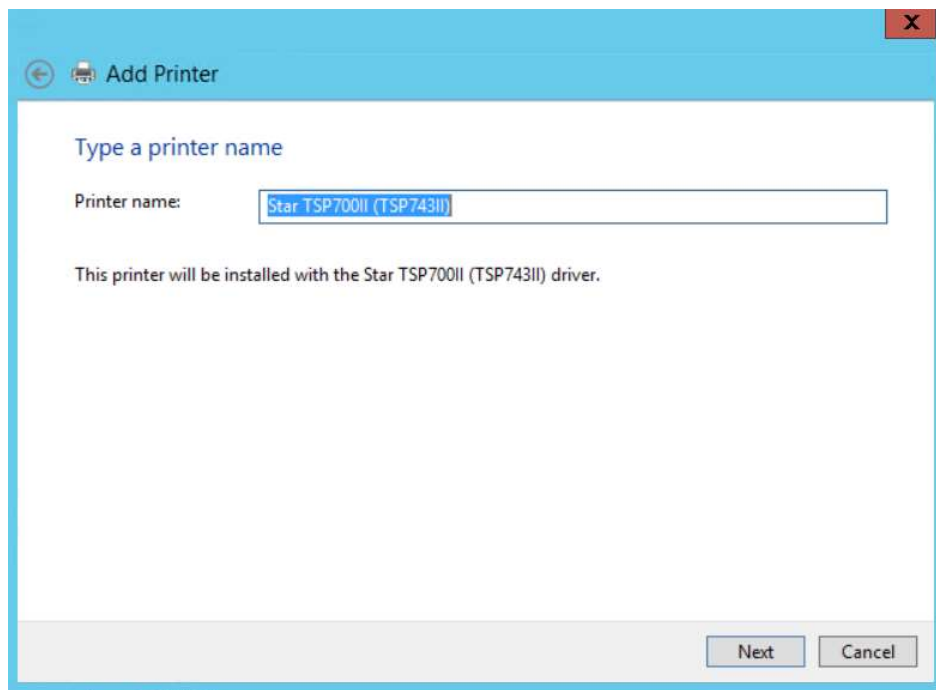


The screenshot shows the 'Add Printer' window with the title bar 'Add Printer'. The main heading is 'Additional port information required'. Below this, there is a message: 'The device is not found on the network. Be sure that:'. This is followed by a list of four items: 1. The device is turned on., 2. The network is connected., 3. The device is properly configured., 4. The address on the previous page is correct. Below the list, there is a paragraph: 'If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.' Below this paragraph, there is a 'Device Type' section with two radio buttons: 'Standard' (selected) and 'Custom'. The 'Standard' radio button is selected, and next to it is a dropdown menu showing 'Generic Network Card'. There is also a 'Settings...' button next to the 'Custom' radio button. At the bottom right, there are 'Next' and 'Cancel' buttons.

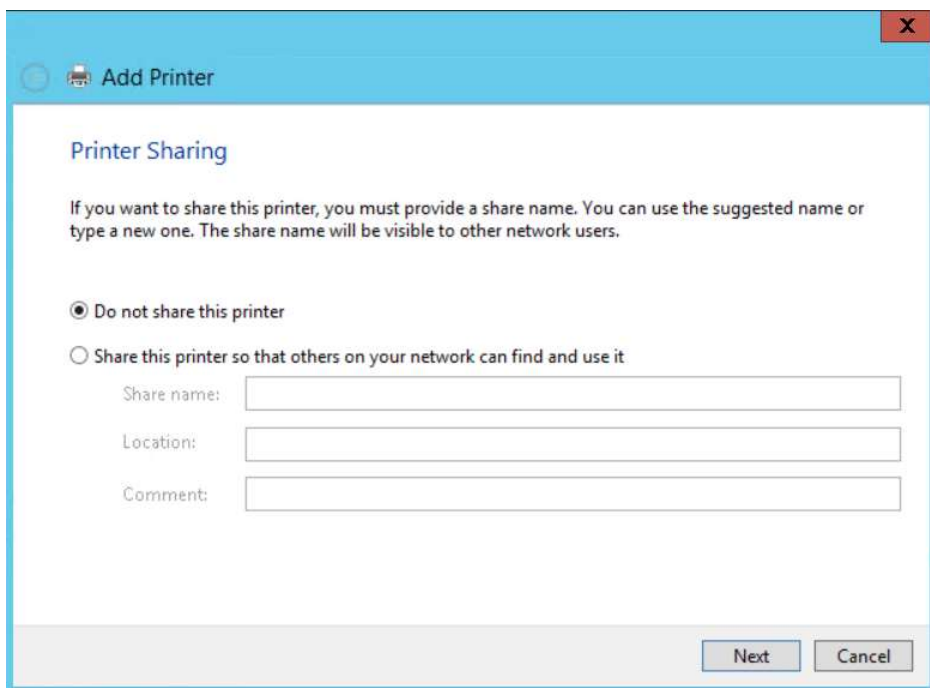
15. Select “Standard” and click on the “Next” button



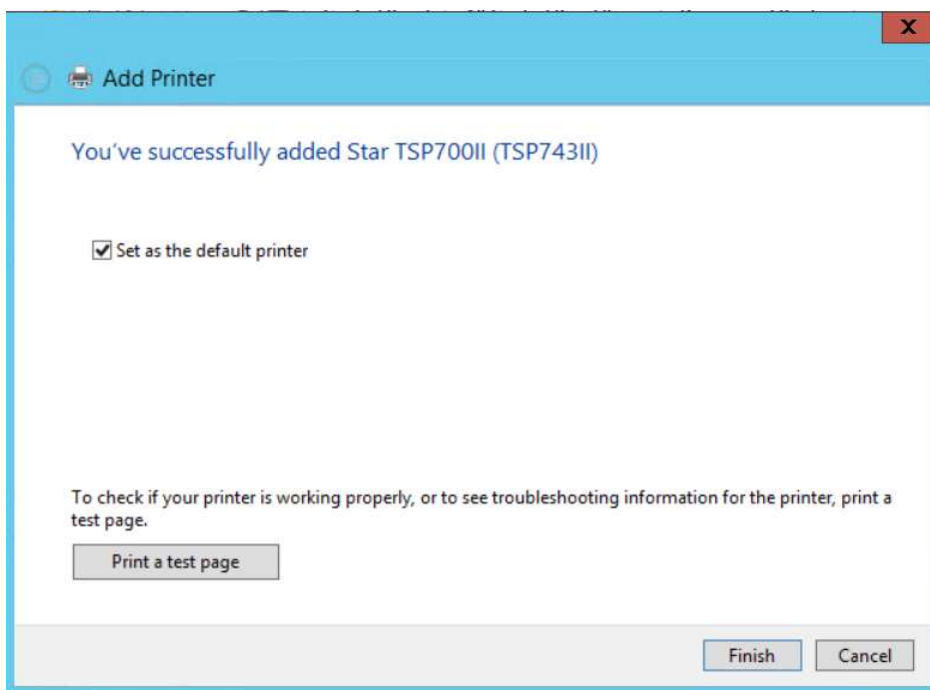
16. Select Manufacturer “Star” and Printers “Star TSP700II (TSP743II)” and click on the “Next” button



17. Enter your desired name for the printer



18. Select “Do not share this printer” and click on the “Next” button



19. Click on “Print a test page” to make sure the printer is working and then click on the “Finish” button

7.0 Devices

7.1 Overview

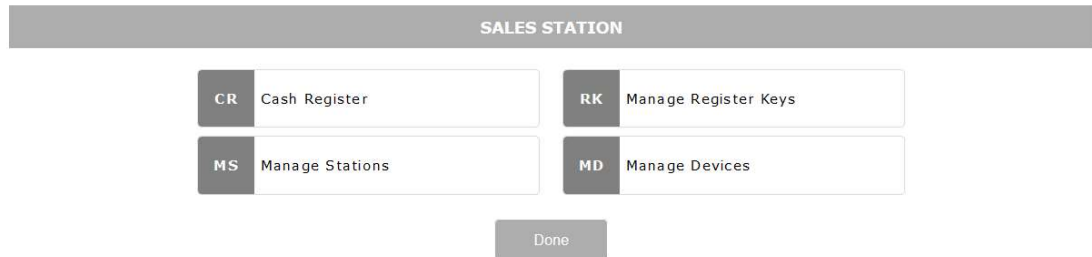
The card reader(s), cash drawer(s), and receipt printer(s) need to be added to the Doubleknot Sales Station Configuration.

7.1.1 Prerequisites

A Doubleknot administer account is required.

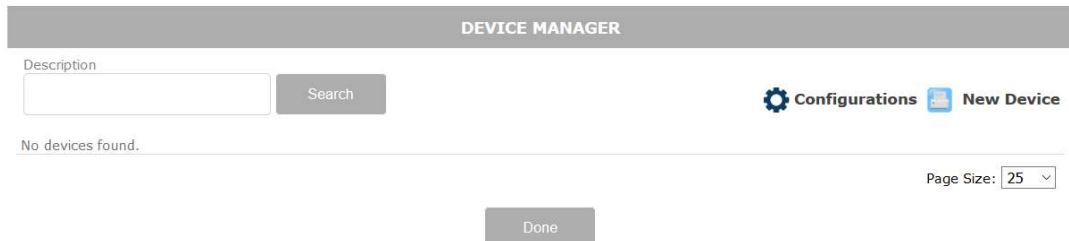
7.1.2 Configuration

1. Logon to Doubleknot via www.doubleknot.com using one's account
2. Navigate to Sales Station



The screenshot shows the 'SALES STATION' configuration interface. It features a header bar labeled 'SALES STATION'. Below the header, there are four buttons arranged in a 2x2 grid: 'CR Cash Register', 'RK Manage Register Keys', 'MS Manage Stations', and 'MD Manage Devices'. At the bottom center, there is a 'Done' button.

3. Click on Manage Devices



The screenshot shows the 'DEVICE MANAGER' interface. It has a header bar labeled 'DEVICE MANAGER'. Below the header, there is a search bar with the label 'Description' and a 'Search' button. To the right of the search bar, there are two links: 'Configurations' (with a gear icon) and 'New Device' (with a plus icon). Below the search bar, it says 'No devices found.' At the bottom right, there is a 'Page Size: 25' dropdown menu. At the bottom center, there is a 'Done' button.

4. Click on New Device and then select APG Series 100 from Device Type



The screenshot shows the 'Add Device' dialog box. It has a title bar with the text 'Add Device' and a close button (X). Inside the dialog, there are five input fields: 'Device Type' (with a dropdown menu showing 'APG Series 100 T470-I'), 'Description', 'Location', 'IP Address', and 'MAC Address'. At the bottom of the dialog, there is an 'Add New Device' button.

5. Enter all the fields and then click on the "Add New Device" button

- Click on New Device again and then select Star TSP700II from Device Type

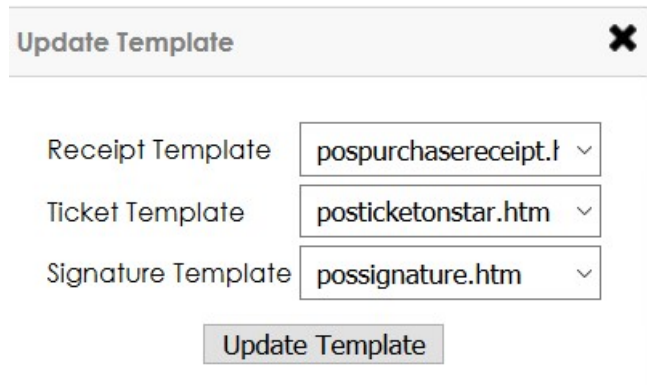


The 'Add Device' dialog box contains the following fields and values:

Field	Value
Device Type	STAR TSP 700II
Description	
Location	
IP Address	
MAC Address	
Orientation	Portrait
Width	2
Height	2

At the bottom of the dialog is an 'Add New Device' button.

- Enter all the fields and then click on the "Add New Device" button. Be sure the Description is exactly what the printer is named in Windows
- Click on Terminal



The 'Update Template' dialog box contains the following fields and values:

Field	Value
Receipt Template	pospurchasereceipt.t
Ticket Template	posticketonstar.htm
Signature Template	possignature.htm

At the bottom of the dialog is an 'Update Template' button.

- Select pospurchasereceipt.htm for receipt template, posticketonstar.htm for ticket template if your organization has tickets, and possignature.htm for signature template if you want the customer's signature to be printed on the receipt printer

10. Click on New Device again and then select Payment Terminal from Device Type

Add Device
✕

Device Type

Payment Terminal

Description

Location

IP Address

MAC Address

ProcessorID 1

ProcessorID 2

ProcessorID 3

ProcessorID 4

ProcessorID 5

ProcessorID 6

Add New Device

11. Enter all the fields and then click on the “Add New Device” button

12. Click on the “Done” button to go back to Sales Station. Click on “Manage Stations”

STATION MANAGER

Station

Search

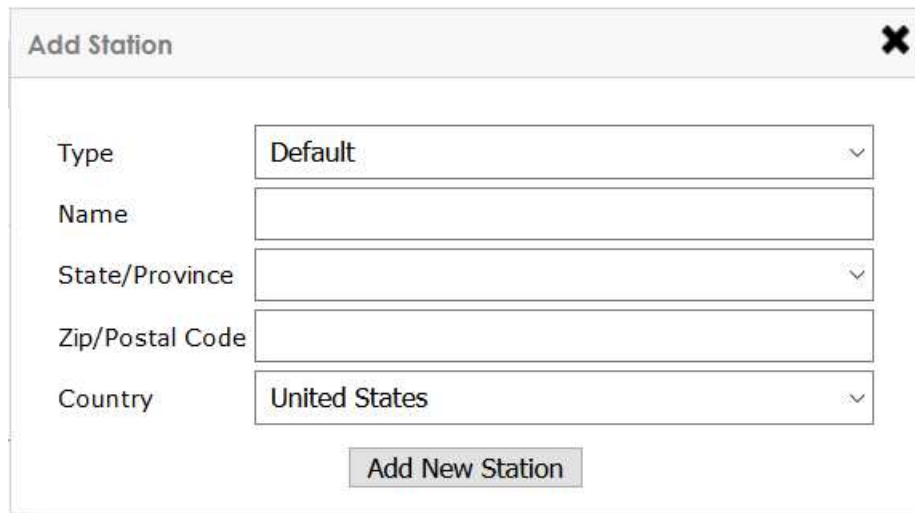
Station Types
New Station

Station	Type	Users Devices Edit Delete
Default Devices: Users:	Default	

Page Size: 25

Done

13. Click on New Station



The "Add Station" dialog box contains the following fields and controls:

- Type: Dropdown menu with "Default" selected.
- Name: Text input field.
- State/Province: Dropdown menu.
- Zip/Postal Code: Text input field.
- Country: Dropdown menu with "United States" selected.
- Add New Station: Button at the bottom.

14. Enter all the fields and then click on the "Add New Station" button. The state/province and zip/postal code information will be used for sales tax if that is applicable

15. Click on Devices of the station and add all the devices to the list by clicking on the "+" button multiple times



The "Devices" dialog box displays a list of devices and a section to add new ones:

Device Name	Action
StarTSP700II (DKI)	
Cash Drawer	
Dejavoo Z9	

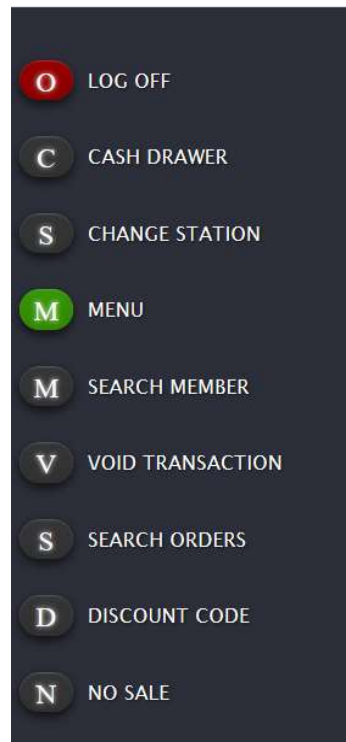
Select device to add

StarTSP700II (DKI) 

16. Close the window and click on the “Done” button to go back to Sales Station. Click on “Manage Register Keys”

Station Type Setup	
Amount Requiring Signature:	<input type="text" value="1"/>
Allow Drawer to Open on No Sale:	<input type="text" value="Yes"/>
Receipt Options:	<input type="text" value="Show receipt"/>
Receipt Details:	<input type="text" value="Hide"/>
Electronic Signature Capture:	<input type="text" value="No"/>
Display Cash Drawer Balances:	<input type="text" value="Admin Only"/>
Allow Payment Amount Override:	<input type="text" value="No"/>
Network Connection:	<input type="text" value="High Speed"/>

17. Set “Allow Drawer to Open on No Sale” to true so you can test the cash drawer. Set Display Cash Drawer Balances to Admin Only so you can test the receipt printer
18. Click on the “Done” button to go back to Sales Station. Click on “Cash Register”
19. Click on the icon on the lower left



20. Click on “NO SALE” and the cash drawer should open

21. Click in “CASH DRAWER”

Declare	Insert The Cash Drawer	>
Read (X)	From The Last Reset To Now	>
Read (X)	End The Shift	>
Read (X)	Close The Day	>
Reset (Z)	Remove The Cash Drawer	>
Reset (Z)	Remove The Cash Drawer And End The Shift	>
Reset (Z)	Remove The Cash Drawer And Close The Day	>
Reset (Z)	Remove The Cash Drawer, End The Shift, And Close The Day	>

22. Click on “From The Last Reset To Now” and then click on the “PRINT” button and there should be a print out on the receipt printer