TeleVend International Network Requirements

All 365 kiosks require:

- A persistent internet connection [1]

- A minimum speed of 1 Mbps up and 2 Mbps down [2]

- Firewall exceptions to allow both inbound and outbound connections (ports listed on page three).

> ❶ A "persistent" network connection is always on. This can be the local network of the business where the kiosk is located, a dedicated DSL line, or any other "always on" type connection.

The router creates a secure network connection between the devices plugged into the router and the 365 server. All traffic initiated from the kiosks travels through this secure, private connection.

This connection is called a "VPN tunnel" (**V**irtual **P**rivate **N**etwork) and uses a communication protocol called IPSec with IKE in order to create a private connection over public data pathways. The data is encrypted with two complex ciphers known as 3DES and AES.

Meraki Z1 Router

The steps on the next page describe how to install your Meraki router to ensure that your kiosks network connection is private and secure.

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Installing the Meraki Router

1. Connect an Ethernet cable from your Internet source to the **Internet** port of the Meraki Z1 router.

2. Connect an Ethernet cable from the port labeled **LAN 1** of the Meraki Z1 to the Ethernet port of the ELO Touchscreen POS computer.

3. Verify the following using the "**White List Addresses**" table on page three, that:

   - **UDP Port 7351** is open to the Meraki Cloud servers

   - **UDP Port 9350** is open to the Meraki VPN Registry servers.

   - **UDP Ports 32768 – 61000** are open to the IPSEC VPN server

   - **UDP Port 9001** and **TCP ports 9000, 5000, 26520** are open to the credit card servers.

> **Important 1:** The 365 equipment comes preconfigured to connect to your DHCP network. If you prefer to assign static IP settings, contact the 365 Support Team!
>
> **Important 2:** The Meraki routers each have four ports for devices to connect. LAN1 – LAN3 are for kiosks and POS devices only. LAN4 is for Impact Printers and DVRs.
>
> If you need additional ports, a simple switch can be used to extend LAN4.

Wiring and Network Diagram

TeleVend International Network Requirements

Testing

After setup please run the following tests and email the results to implementation@365smartshop.com

Test	Requirements
http://www.speedtest.net/ ❷	2Mbps download 1Mbps upload
http://www.pingtest.net/	Grade B

Whitelist Addresses	
Meraki VPN Registry	108.161.147.0/24 199.231.78.0/24 64.62.142.12/32 54.193.207.248/32 209.206.48.0/20
Meraki Cloud	199.231.78.0/24 64.156.192.245/32 108.161.147.0/24 209.206.48.0/20
IPSEC VPN	69.39.84.205/32