Overview

This document describes LAN/wifi network requirements for PDi products limited to the following product families:

A-series   model numbers PDI-A**A,   PDI-A**B,   PDI-A**C
medTAB-D   model numbers medTAB**D-***-*
medTAB-E   model numbers medTAB**E-***-*

Firewall

While the PDi A-Series Smart TV and PDi medTAB may be used without an internet connection, they can be connected to the internet to provide more patient infotainment options. For connecting to most web sites, including the PDi Genio and OTA servers, the following must be allowed in the network firewall.

Domain Name	Port	Protocol	Reason
connectivitycheck.gstatic.com	HTTPS (443)	TCP	Android devices use this Google server to determine if the device has internet connectivity.
2.android.pool.ntp.org time.android.com	NTP (123)	UDP	PDI devices lose their real time clock when power is lost. One of these NTP servers is required to restore proper system time.
genio.pdiarm.com genio-api-s0.pdiarm.com genio-dn-s0.pdiarm.com genio-wss-s0.pdiarm.com	HTTPS (443)	TCP	If subscribed to PDI Genio service, these must be allowed.
ota.pdiarm.com	HTTP (80)	TCP	Over the air TV system updates use this server.

IPTV (Live/Linear TV over IP)

If live/linear TV is being distributed over the IP network, all network switches must support IGMP v2 or v3. IGMP snooping must be enabled on the vlan on all switches. At least one IGMP querier must also be present on the vlan. This is usually a service enabled in one of the layer 3 or smart switches. More information is available in the PDI IPTV App User Manual (PD196-460).

Wifi Captive Portal

If the PDi A-Series TV or medTAB is using wifi, attaching to guest networks is discouraged. Many guest networks are configured with a captive portal that will block internet access on a TV any time the TV loses its network connection.

Content Filtering

PDi products allow unrestricted web access when the browser is enabled. PDi does not offer content filtering. If that is desired, it must be managed by external means such as the network firewall.