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Overview

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

A-Series	model numbers PDI-A**A, PDI-A**B, PDI-A**C, PDI-A**C2
medTAB-D	model numbers medTAB**D
medTAB-E	model numbers medTAB**E
PDi TV BOX	model numbers PDI-TV7000, PD251-052-US

Firewall

While the PDi A-Series Smart TV, PDi medTAB, and PDi TV Box may be used without an internet connection, they can be connected to the internet to provide more patient infotainment options. When 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. Some PDi devices will try these additional NTP servers when the primary Android server cannot be reached. pool.ntp.org time1.google.com time.apple.com android.pool.ntp.org time.windows.com time.nist.gov If you don't wish to open this port on the firewall, you may assign your internal NTP server to the following address. ntp.internal
ota.pdiarm.com	HTTP (80) HTTPS (443)	TCP	Over the air TV system updates use this server. Newer device firmware only needs HTTPS (443). Older firmware defaults to using HTTP but can be manually changed to use HTTPS.
genio.pdiarm.com genio-api-s0.pdiarm.com genio-dn-s0.pdiarm.com genio-wss-s0.pdiarm.com genio2pdiarm.com genio2.pdiarm.com	HTTPS (443)	TCP	If subscribed to PDi GENiO service, these must be allowed.
epgproxy.pdiarm.com	HTTPS (443)	TCP	If subscribed to PDi Electronic Program Guide (EPG) service, this must be allowed.

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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).

Wi-Fi Captive Portal

If the PDi A-Series TV or medTAB is connected to Wi-Fi, 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.