FIREWALL, IP AND PORT CONFIGURATIONS

NOTE:
Network configurations must be supervised by ICT technicians. Following rules allows using Chimpa MDM correctly over the internet. XNOOVA is not responsible for local network problems or miss-configurations.

Outbound Firewall rules

TCP ports from Clients:

**443,
5223, 5228, 5229, 5230,
8081**

IP Whitelist

You can allow specific IPs in your Firewall:

**17.0.0.0/8
185.78.50.32/29**

DNS

Mobile devices must resolve hostname to communicate with following servers (if you have captive portal on wifi you have to include domains in walled-garden too):
*.chimpa.eu, googleapis.l.google.com, android.googleapis.com, gateway. push-apple.com.akadns.net, gateway.push.apple.com

If you have IPv6 set on local network check that is correctly working and configured to avoid problems with push notifications.

Android Enterprise network requirements

Android devices generally do not require inbound ports opened on the firewall in order to function correctly. However there are a number of outbound connections that administrators should be aware of when setting up their network environments for Android Enterprise.
You can safely block port 80 for most of the services because they are all behind SSL.

Destination host	Port	Grounds
play.google.com android.com google-analytics.com googleusercontent.com gstatic.com *.gvt1.com *.ggpht.com dl.google.com android.clients.google.com	TCP/443 TCP,UDP/5228-5230	Google Play (APKs, apps, icons, etc.), Play Store API, updates and user generated content.
*.googleapis.com	TCP/443	EMM Google API, Play Store API
accounts.google.com	TCP/443	Authentication
gcm-http.googleapis.com gcm-xmpp.googleapis.com fcm.googleapis.com fcm-xmpp.googleapis.com	TCP/443,5228-5230	Push notifications
pki.google.com clients1.google.com	TCP/443	Certificate Revocation
clients[2...6].google.com	TCP/443	Domains shared bu various Google backend services like crash reporting, Chrome Bookmark Sync, time sync, etc.

Google doesn't provide specific IPs, so you should allow your firewall to accept outgoing connections to all IP addresses contained in the IP blocks listed in Google's ASN of 15169.
-       IPv4   http://bgp.he.net/AS15169#_prefixes
-       IPv6   http://bgp.he.net/AS15169#_prefixes6