

Trackman V3 Server IT/Firewall Needs

Please pass this information to your IT department as soon as possible to ensure that the server can function properly at the time of installation and throughout use of the system. If we cannot see the server online due to firewall it will prevent completion of the installation.

- Wired internet connection
 - The server requires a wired internet connection (not applicable to laptop servers). It is the customer's responsibility to protect the server from the public Internet by configuring a firewall. Please provide reliable wired internet access with a minimum download and upload speeds of 10 Mb/s. This should include standard public firewall security with preferably no limitation on outgoing or return traffic. If possible, an isolated VLAN is preferred to limit interaction with customer networks.
- Place Trackman server on internal stadium network
 - Tagging page should only be accessible to devices on the stadium network
- Allow server MAC address on network
 - MAC address of the server will be provided by Trackman once configured. We request a MAC reservation on the network.
- Set firewall rules for provided ports (see next page)
 - To be operational, V3 server requires certain endpoints outside of local network to be reachable.

Required Ports and Endpoints

Internal Network

Please note that because some of our services are behind load-balancers with dynamically changing IP addresses, we cannot provide a list of IPs to use. IPs and DNS addresses are only listed to give an idea of what services are used by Trackman.

Enable Outbound and corresponding return traffic to these ports/protocols to any IP address

Port	Description
80/tcp, 443/tcp – HTTP(S)	EventHub Namespaces <ul style="list-style-type: none">• metadata-v3-stadium-bb-trackman.servicebus.windows.net• control-v3-stadium-bb-trackman.servicebus.windows.net• ball-v3-stadium-bb-trackman.servicebus.windows.net• login.trackmanbaseball.com• account.trackmanbaseball.com• sastokenprovider.trackmanbaseball.com• heartbeatprocessor.trackmanbaseball.com• taggingappdispatcher.trackmanbaseball.com• tscservices.trackmanbaseball.com• contextualdatacacheservice.trackmanbaseball.com• tmtrackingsystemconfiguration.servicebus.windows.net
22/tcp	SSH tunnel
53/tcp, 53/udp	DNS
5671/tcp, 5372/tcp	AMQP / Azure ServiceBus
9243/tcp	Allow TCP outbound traffic for data upload

Enable Outbound and corresponding return traffic to these ports/protocols to any IP address (continued)

Port	Description
ICMP	Ping / network testing
20999	Scoreboard feed: UDP packets are broadcasted with destination port 20999 (required for scoreboard to be operational). Not applicable to laptop server systems.
20998	Broadcast feed: UDP packets are broadcasted with destination port 20998 (required for scoreboard to be operational). Not applicable to laptop server systems.
5671 and 5672	EventHub Namespaces <ul style="list-style-type: none">• metadata-v3-stadium-bb-trackman.servicebus.windows.net• control-v3-stadium-bb-trackman.servicebus.windows.net• ball-v3-stadium-bb-trackman.servicebus.windows.net• tmtrackingsystemconfiguration.servicebus.windows.net

No Inbound traffic from the Internet is needed, but local Inbound traffic for these ports/protocols to the BB server IP must not be blocked in the firewall:

Port	Description
80/tcp, 443/tcp – HTTP(S)	Tagging App: Local taggers will connect to the server by opening a web page in a browser. Not applicable to laptop server systems.

Features and services used by Trackman subject to change over time

TRACKMAN