Floreo Network Requirements

Crystal Levy
VP of Operations

Phone: (240) 442 - 9473
Email: support@floreovr.com
Web: https://floreovr.com

2 Wisconsin Circle, Suite 700
Chevy Chase, MD 20812

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Version: July 2025

Applies to: FloreoVR system using Agora for real-time streaming and custom APIs hosted under floreovr.com

Overview

The Floreo system requires reliable network connectivity to support:

- VR headset (iPhone/ Quest/ PICO)
- Coach web browser interface
- Backend API services
- Agora-based real-time streaming (video, audio, and data)

5 Mbps is the recommended download speed, but you will need at a minimum 20 Kbps for a consistent experience.

This document specifies the domains and ports that must be allowed through customer firewalls and proxy systems to ensure uninterrupted access and performance.

Required Destination URLs and Ports

Floreo API Services

Purpose	URL	Protocol	Port(s)
Main API	https://api.floreovr.com	HTTPS	443
Content Gallery	https://gallery.floreovr.com	HTTPS	443

Agora Streaming Services

Agora is used for low-latency media and data transmission between Coach and Learner.

Required Domains

Domain	Purpose
.agora.io	Core Agora services
.edge.agora.io	Real-time streaming
.sd-rtn.com .edge.sd-rtn.com	Smart media relay network
web-1.ap.sd-rtn.com web-2.ap.sd-rtn.com web-3.ap.sd-rtn.com web-4.ap.sd-rtn.com ap-web-1.agora.io ap-web-2.agora.io ap-web-3.agora.io ap-web-4.agora.io webcollector-rtm.agora.io logservice-rtm.agora.io rtm.statscollector.sd-rtn.com rtm.logservice.sd-rtn.com	Real-time signaling

Required Ports for Video Streaming

Ports	Port Type
80, 443, 3433, 4001 - 4150 4700 - 5000 5668, 5669, 6080, 6443, 8667, 9667, 30011 - 30013 (for RTMP converter)	TCP
3478, 4700 - 5000	UDP

Required Ports for Real-time Signaling

Ports	Port Type
443, 7384, 8443, 9130, 9131, 9136, 9137, 9140, 9141, 9591, 9593, 27387	TCP
1080, 3000, 8000, 8130, 8443, 9120, 9121, 9700, 25000	UDP

Additional Details

Port Range	Protocol	Description
80, 443	TCP	HTTPS signaling & fallback media
3478	UDP/TCP	STUN for NAT traversal
5349	TCP	STUN over TLS (secure fallback)
4000–4999	UDP	Media streaming (audio/video)
9500–9700	TCP	WebSocket signaling (RTM/WebRTC)
27387	TCP	Signaling fallback

WebSocket Requirements (Agora RTM)

Some Agora services use **WebSockets (WSS)** over non-standard ports such as **9591**, **9593**, etc., which may be dynamically assigned within the 9500–9700 range.

To ensure full support:

- Allow **WSS connections** (wss://) to:

- - *.edge.agora.io
  - *.edge.sd-rtn.com
- Allow **outbound TCP connections** on ports **9500–9700 and 27387**, or use DNS-based filtering if possible.
- If firewalls restrict port ranges, ensure WebSocket fallback to **TCP 443** is not blocked by HTTPS intercepting proxies or DPI systems.
- WebSocket connections must not be stripped or downgraded.

Recommendations

- **Quality of Service (QoS):** Prioritize UDP ports 4000–4999 for media traffic.
- **SSL Inspection:** Bypass SSL inspection for Agora domains to avoid handshake or WebSocket failures.
- **Proxy Handling:** If using a proxy, confirm it supports WebSocket tunneling.

Support

For technical questions or to request a call with our support team, contact: **support@floreovr.com**