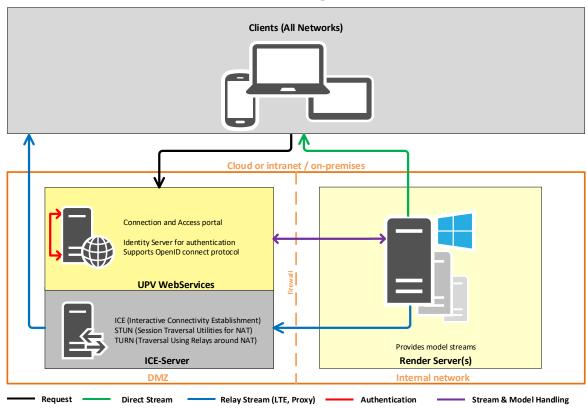


UniversalPlantViewer

BrowserBasedViewing hosting and architecture

UniversalPlantViewer is a simple and easy viewer. Hosted on Oracle cloud, bring the best performance to your clients, regardless of the hardware used.

UPV BrowserBasedViewing (BBV) Architecture



System Prerequisites

UPV WebServices

- Hardware recommendation:
 CPU 4 cores, 16 GB of RAM
- Software requirements:
 MS Windows Server (IIS) or
 Linux (apache or nginx)
- Ports required: TCP 443 (SSL)
- · Certificate from official authority

ICE-Server (optional)

- Hardware recommendation:
 CPU 2 cores, 8 GB of RAM
 High bandwidth (>100Mbit bidirect.)
- Software requirements: Linux (with coturn)
- Ports required: TCP 443 (SSL)
 UDP ports depending on settings, 3 ports per concurrent stream, e.g.:
 50000 - 50300 for 100 conc. streams.
- Certificate from official authority

Render Server

- Hardware recommendation: Nvidia GPU (e.g. RTX 5000) 2GB VRAM + 4 GB RAM per stream Min. 8 CPU cores, setup may vary according to use case
- Additionally, multiple render servers can be used on one WebServices Unit for load balancing.
- Software requirements:
 Microsoft Windows
- Ports required: Access to ports defined for UPV WebServices and ICE-Server

