



Re: TrafficVisionTMC Server Specifications

Date Last Updated: June, 2023

Requirements:

- **OS:** RHEL 8 or binary-compatible derivative such as AlmaLinux 8
- **CPU:**
 - 1 core per 2 video streams for processing video streams ingested at 240p OR
 - 3 cores per 4 video streams if decoding HD is necessary or higher resolution video streams
 - Intel Xeon Gold or better released within the last three years
- **Memory:** 250MB per video stream + 1 GB for OS
- **Storage:** 5 GB per video stream processed on the server for 30 days of retention of video clips and 5+ years of retention on data + 10 GB for OS.
Note: it takes approximately 5 MB to store a 1-minute of video (at 240p).
- **Ports:** 443 and 8443 should be accessible

Notes:

- For deployments with more than 50 cameras/streams, TrafficVision software is typically deployed on multiple VMs.
 - These VMs separate stream processing across multiple nodes and use an aggregator to provide a single interface to all the processing systems.
 - The stream processing stays the same as above and the aggregator generally requires 4 vcpus and 8GB Ram for 20-30 users and for each additional 20-30 users add 2 additional vcpus and 2 GB RAM.
 - For more specific configurations TrafficVision engineers can help in sizing these VMs for optimal performance in coordination with the customer's IT department.
- For redundancy Agencies generally use the VMWare or other hypervisor failover solutions where TrafficVision is running, the only requirement is that TrafficVision will rely on consistent DNS/IP addresses for access between the nodes.
- Public video streams (e.g. live streams published on state 511 website) can be processed when available without any customer-side configuration.
- VPN can be configured for accessing video streams in the customer's network if video streams are to be kept private. Optionally a video-restreamer can be configured in the customer's environment to limit access to a single endpoint

from the internet.

- An agreed-upon method of remote access (e.g. vpn, shared desktop session) to the system is expected for best results. This access will be limited to TrafficVision support engineers for remote deployment, configuration and troubleshooting.