

# Zao VMS Plus

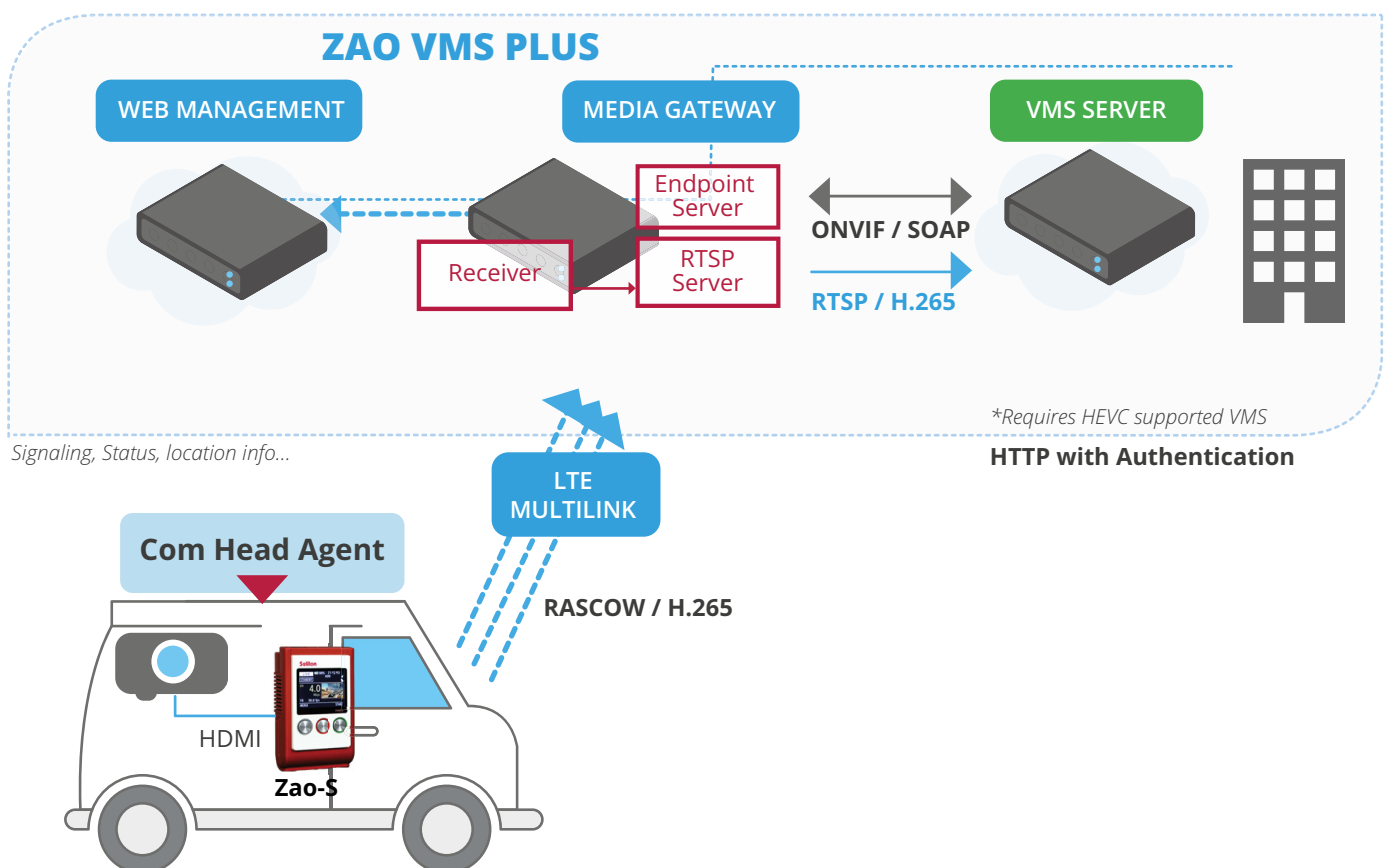
## Mobile Surveillance

Soliton's Zao VMS Plus is a receiving platform that is used as a bridge between Soliton's live H.265 HEVC mobile surveillance products and a commercial-off-the-shelf (COTS) VMS system. Soliton's mobile surveillance products includes the Zao, Zao-S and Zao Android Apps.

The Zao VMS Plus is utilized at the receiving destination to decrypt the incoming RASCOW video streams to provide an output as an ONVIF compliant H.265 HEVC stream that can be used as an input into any existing Video Management System (VMS) platform that supports ONVIF.

## PRODUCT OVERVIEW - ZAO VMS PLUS

### GENERIC VMS SYSTEM



Zao VMS Plus can be installed either on-premise or within a hosted cloud environment such as Azure or AWS. In case of on-prem, it is installed within a VMWare ESXi virtual environment.

Additionally, the Zao VMS Plus set up includes the “Comm Post” which effectively manages the network connections and the interface with the Zao Web Management solution. The Zao Web Management is a hosted service, but it can also be installed alongside the VMS Plus solution in closed networks. It is used to manage Soliton’s mobile surveillance transmission products deployed in the field of operation.

RASCOW (Real-time Auto Speed Control based On Waterway model) is Soliton’s algorithm that optimizes video quality based on the available bandwidth across all the cellular networks, or satellite, at any given time. It adds an extra level of reliability to the transmitting products allowing them to transmit even in low bandwidth or congested situations.

The VMS Plus product will assemble the video arriving from all the separate network connections whether it be multiple 3G/4G connections, Wi-Fi and/or satellite from each device and translate from RASCOW/H.265 to RTSP/H.265 and decrypt the stream. Latency is very low from the camera to the output of the VMS Plus, less than a second, typically 700ms.

Fully Hosted by Soliton (subscription pricing) or can be installed “On Premise” (perpetual pricing model with 3 years support). Annual support can be extended after 3 years.



## KEY FEATURES ZAO VMS PLUS

- ✓ **Creates ONVIF compliant IP video stream from Zao mobile transmitters**
- ✓ **Utilised with off the shelf video management systems such as Milestone, Genetec, FLIR etc**
- ✓ **Can be hosted in a cloud environment or “On-Premise”**
- ✓ **Low latency (from 240ms) with H.265 pass-through**

## SPECIFICATIONS ZAO VMS PLUS

<b>Installation OS:</b>	VMware vSphere Hypervisor ESXi 6.7 (Build 8169922)
<b>Min. Hardware recommendation:</b> (On Premise Install)	Specification (HP DL360 gen10 8SFF) CPU Intel Xeon Silver 4110 2.1 GHz (8 core 16 threads) 2x 16GB RAM (32GB recommended) 2x 1TB (RAID1) – w/ RAID Controller Power Supply: 2x 500W (Redundancy)
<b>Input:</b>	H.265/HEVC (RASCOW) via Zao, Zao-S, Zao Android App
<b>Output:</b>	H.265/RTSP/ONVIF
<b>Latency:</b>	from transmission device to VMS Plus output from 240ms to 30000ms
<b>ONVIF VMS:</b>	Customer supplied - ONVIF Compliant – certified with Milestone, Genetec etc
<b>Encryption:</b>	from transmission devices to VMS Plus Media Gateway- AES256bit

