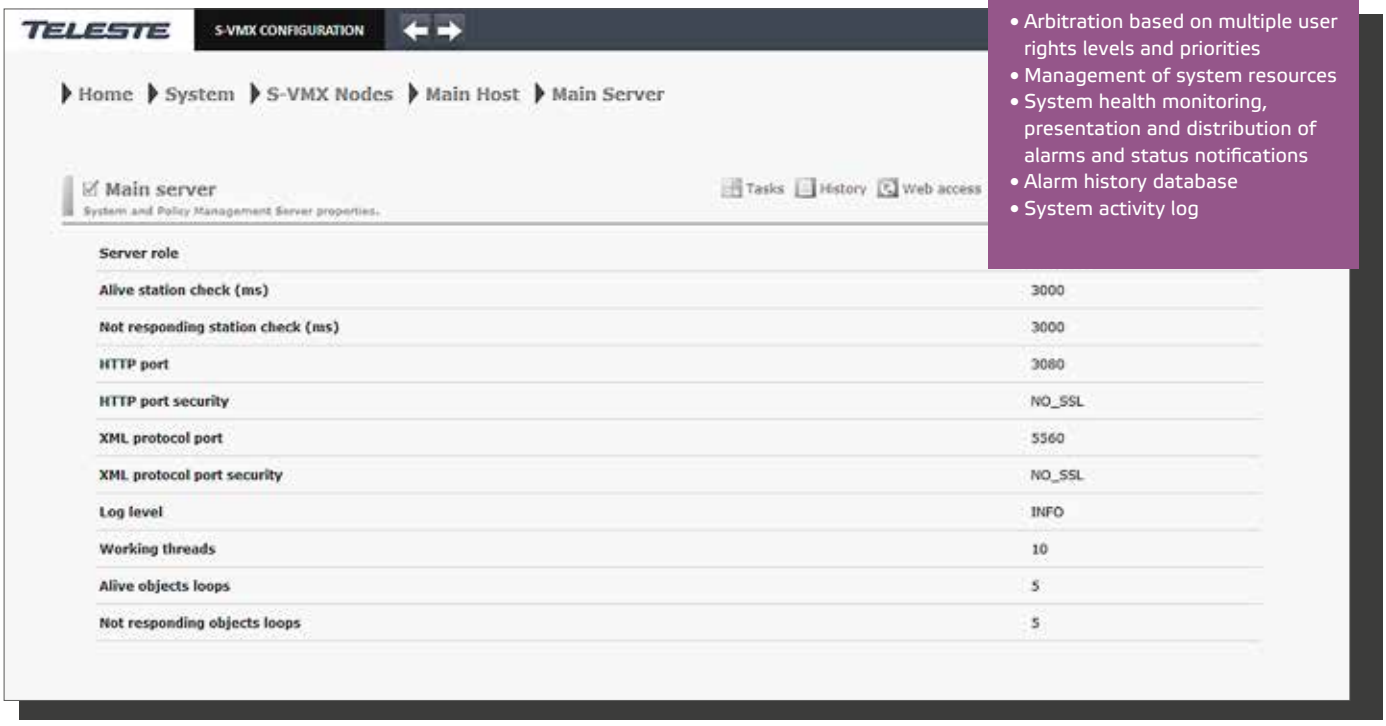
Technical specifications

08/2013

Benefits

- Arbitration based on multiple user rights levels and priorities
- Management of system resources
- System health monitoring, presentation and distribution of alarms and status notifications
- Alarm history database
- System activity log



S-VMX standard Server is delivered in real estate saving 1U rack server. A more feature rich rack server is available for those with need for improved resilience.

S-VMX System Server is the core of Teleste Video Management System. It is hosting multiple applications such as system database, web access server, stream reflector, map server and device controller, needed in modern video management system. In more advanced and resilient systems these hosted services are running on separate stand-alone appliances.

The System Server is managing communication between system appliances and handling system alarms. It is responsible for user rights management including arbitration of priorities. The configuration of system and component parameters is handled through Configuration Wizard and stored into system database.

The S-VMX System Server is available in three different flavours depending on the overall size and complexity of the system in terms of camera count, concurrent users, video storage and back-up functionality.

S-VMX System Server is delivered in a real estate saving 1U entry level compact rack-mount server. A more feature rich rack server is available for those with need for improved resilience.

Hosted Services

- HTTP interface with basic information about the component
- Control of video, audio and data connections
- Management of device resources and parameters
- Arbitration based on multiple user rights levels and priorities

Web Access Server

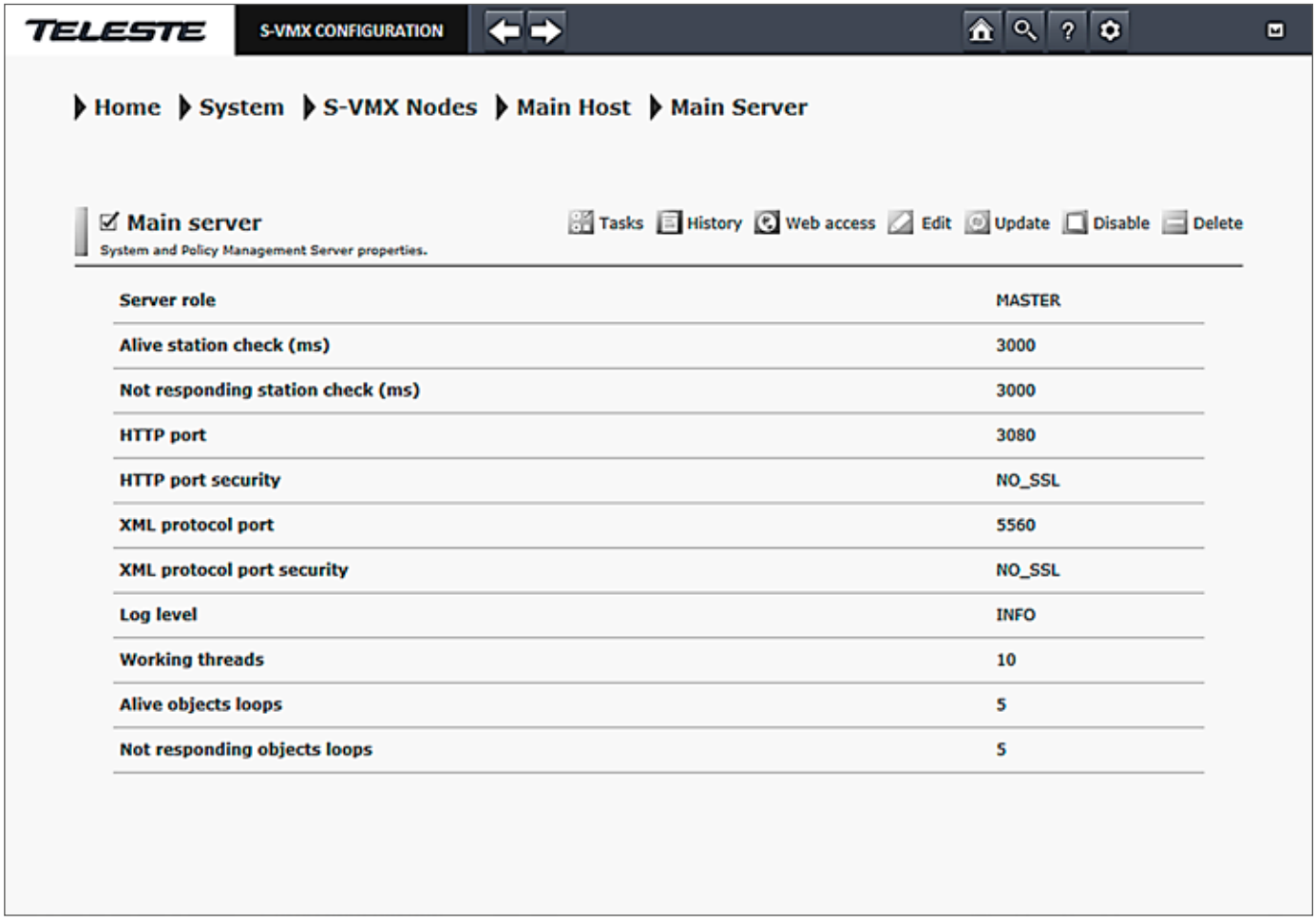
Web Access Server acts as the gateway between the Video Management System and the Client. It provides operator with the user experience over an http interface. It enables the control of system devices, components and resources with applicable user rights using a standard web browser.

A dedicated Web Access Server is needed when the number of concurrent user connections exceeds that available with the Combo Server.

Stream Reflector

Stream Reflector provides the video content to the Clients not capable of receiving multicast video traffic. It transcodes the video streams into MJPEG format with suitable target resolution for the connected Client, whether a laptop or a PDA.

A dedicated Stream reflector is needed when the number of video channels decoded by the WAN clients exceeds that available from the integrated Stream Reflector. Adequate scalability can be achieved by connecting multiple Stream Reflector units to the Web Access Server.



An example view from S-VMX Server. Each application appears on the separated window view.

Device Controller

Device Controller provides a universal communication and control gateway for devices connected to the S-VMX system. The Device Controller acts as a protocol translator between the S-VMX system and device specific commands such as SNMP for IP camera or encoder as well as camera vendor specific protocols for PTZ telemetry control. It is also talking ONVIF with products compliant to ONVIF standard.

Check he latest documentation for supported device protocols.

Device Controller is built-in functionality of the S-VMX Server. A separate Device Controller is needed when the number of controlled devices becomes higher than what can be supported by a single System server unit. This number depends on the type of devices to be controlled.

Database Server

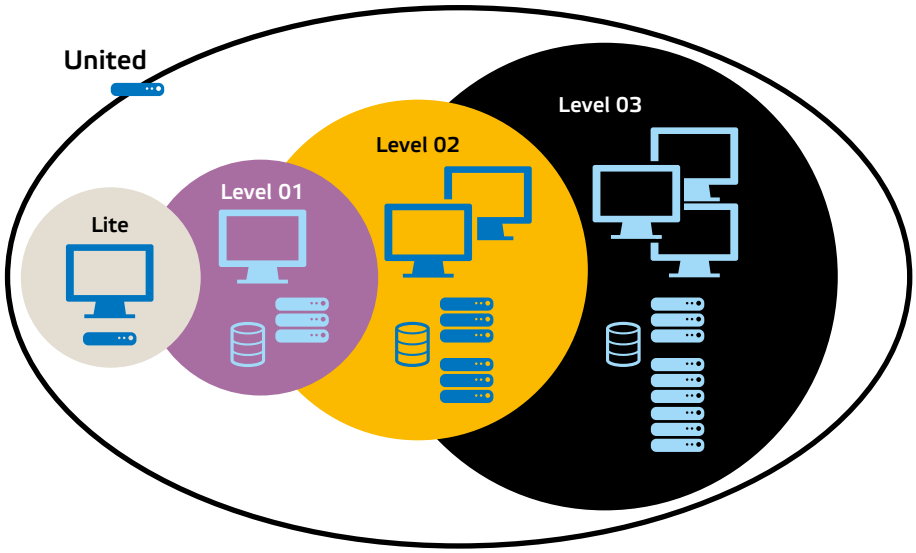
Database Server stores the configuration of system and component parameters into the database. This includes information about activity logs, alarms and events, pre-sets of cameras, users and user rights.

Dedicated database servers are deployed in pairs when the system is required to handle database redundancy.

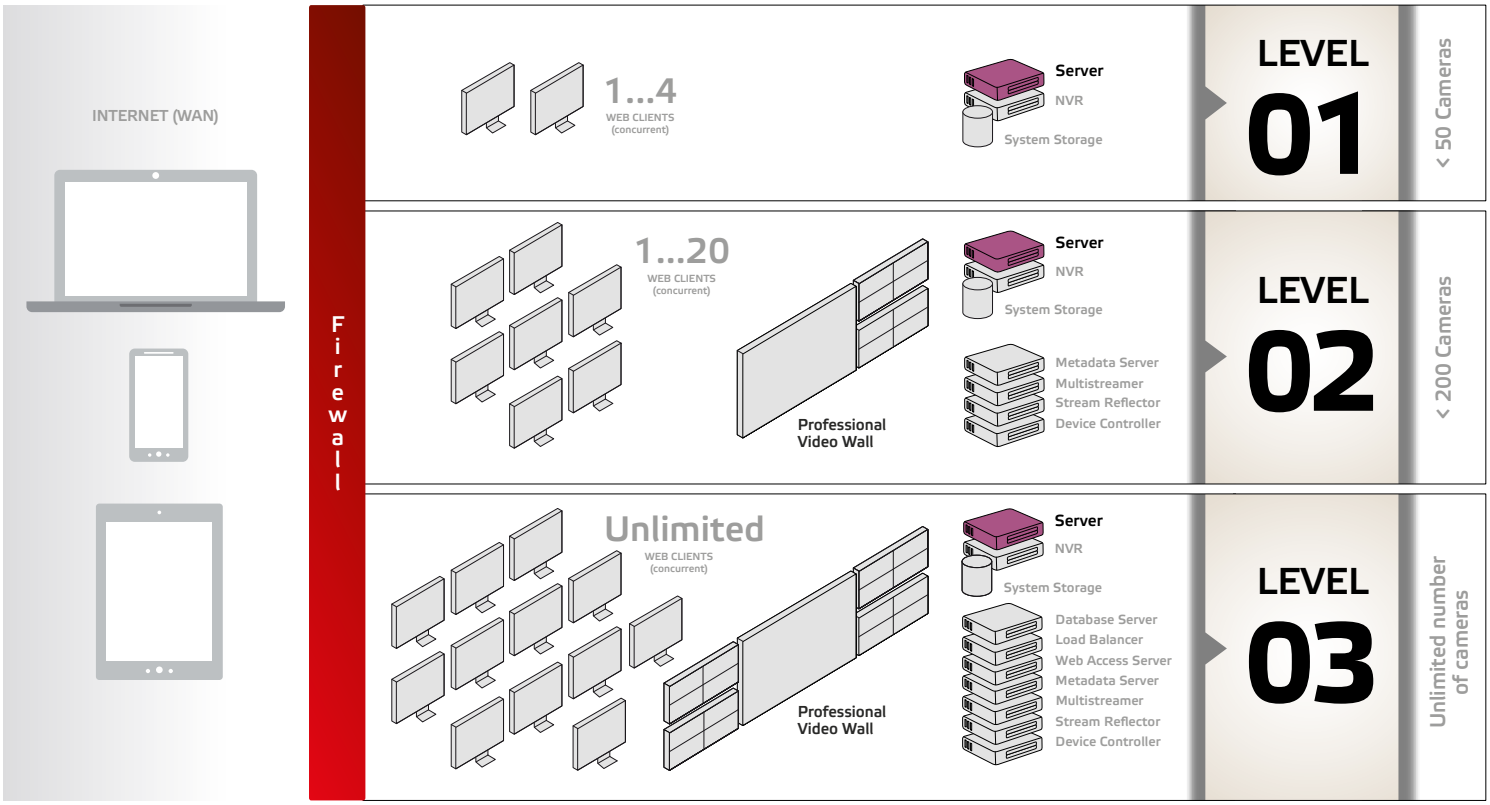
GIS Server

Geographical Information System (GIS) Server is a built-in functionality of the S-VMX System Server. It provides support for georeferenced maps, which are utilized on the user interface in order to have a map view of the video system with camera locations. The GIS Server is using Open Geospatial Consortium (OGC) standard interface for accessing map data.

Simplified levels presentation



S-VMX System



Technical specifications (Typical values unless otherwise stated)

Software

Operating system	Microsoft® Windows Server® 2008
Application	S-VMX System Server
Built-in applications	Device Controller, Database Server, Web Access Server, Stream Reflector, GIS Server

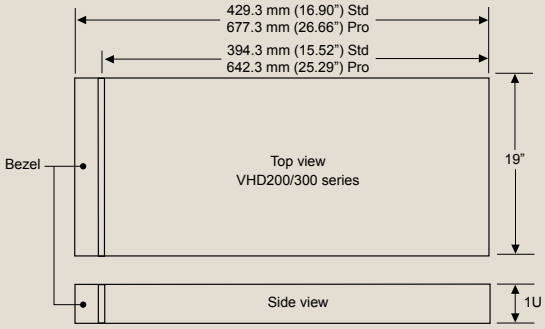
Hardware (*80GB partition for OS and application, **based on PSU max wattage)

Chassis	1U rack server 1U rack server, deep	VHD200 series (std) VHD300 series (pro)
Processor	E3-1200 family E5-2400 family	Std Pro
Memory	8 GB RAM 12 GB RAM	Std Pro
Graphic adapter	VGA	
Network	2 x 10/100/1000Base-T	
Optical drive	16 x DVD ±R/W	
HDD*	500GB, no RAID 2 x 3.5", RAID1	Std Pro, hot swap
Power supply	1 x 250W 2 x 350W, redundant	Std Pro, hot plug
Heat dissipation**	1040 BTU/hr 1356 BTU/hr	Std Pro

General (*10% of annual operating hours, **1% of annual operating hours)

Operating temperature range	+10...+35ºC (50...95ºF) +5...+40ºC (41...104ºF)* -5...+45ºC (23...113ºF)**	
Storage temperature	–40...+65ºC (–40...149ºF)	
Relative humidity	20...80% 10...80% 5...85%* 5...90%**	Non-condensing, std Non-condensing, pro Non-condensing, pro Non-condensing, pro
Weight	8.05kg (17.76lbs) 19.3kg (42.55lbs)	Std, max Pro, max

Dimensions:



Ordering codes (Suite 2.2)

SC1201-2.2	S-VMX Standard Server	Level 1, Max. 50 cameras & 4 users
SC2201-2.2	S-VMX Standard Server	Level 2, Max. 200 cameras & 20 users
SC3201-2.2	S-VMX Standard Server	Level 3, Unlimited cameras and users
SC1301-2.2	S-VMX Professional Server	Level 1, Max. 50 cameras & 4 users
SC2301-2.2	S-VMX Professional Server	Level 2, Max. 200 cameras & 20 users
SC3301-2.2	S-VMX Professional Server	Level 3, Unlimited cameras and users

Hardware services ordering codes

VSD031	VHD200/300 series HW, On-site diagnosis service for 3 years
VSD041	VHD200/300 series HW, On-site diagnosis service for 4 years
VSD051	VHD200/300 series HW, On-site diagnosis service for 5 years
VSD032	VHD200/300 series HW, Data protection service for 3 years
VSD042	VHD200/300 series HW, Data protection service for 4 years
VSD052	VHD200/300 series HW, Data protection service for 5 years
VSD240	VHD200 series HW warranty extension from 3 years to 4 years
VSD340	VHD300 series HW warranty extension from 3 years to 4 years
VSD250	VHD200 series HW warranty extension from 3 years to 5 years
VSD350	VHD300 series HW warranty extension from 3 years to 5 years
VSD260	VHD200 series HW warranty extension from 3 years to 6 years
VSD360	VHD300 series HW warranty extension from 3 years to 6 years

P4P S-VMX Server