Product Information / VMX Suite 6.0

VMX Client – User interface

Teleste VMX system is a modular system for surveillance applications containing video streaming, transmission, switching, recording and video management. VMX Client is an interactive interface for Teleste VMX system control.

VMX Client provides the operator an interface to control system devices, components and resources. Additionally the application delivers a system configuration interface for administration.

The File Player tool is part of client component functionality. It allows operators to replay the material exported from the VMX system.

VMX Client incorporates CCTV keyboards into the client machine.

VMX Config is an integral part of VMX Client application. VMX Config provides configuration interface for system administrators.

The Client component is designed to operate in a multi-server environment according to hierarchy defined in the system configuration.

VMX Client is a scalable module. The standard Client hardware is based on a mini tower chassis (T1) supporting up to 6 monitor outputs. Alternatively the Client is also available in rack mounted mechanics.

Custom designed HW watchdog increases component reliability and greatly improves the system uptime.

User interface

- ISO/IEC compliant MPEG-2/4/H.264 video decoding
- Low latency
- Multiple user groups
- Multi-stream support
- Unicast and multicast support
- NTP support
- Multicriteria search
- Internal communicator
- Map support
- Public/private camera switching
- List player
- Emergency mode operation support
- PTZ camera control via virtual joystic, computer keyboard from GIS map and optionally from traditional CCTV keyboard or joystick

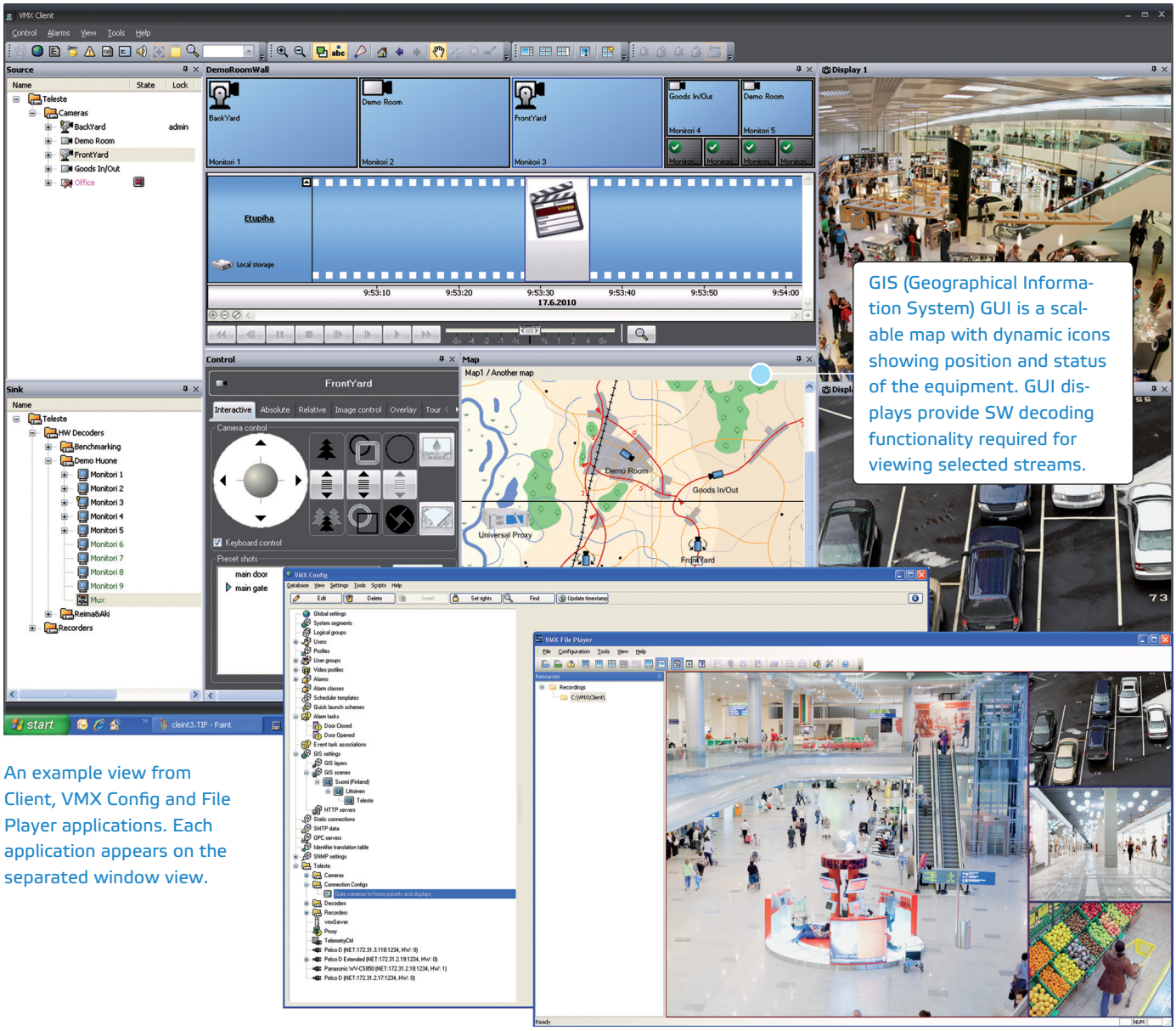
VMX Client allows the operator to control the video system using keyboard, mouse or joystick

Operators can choose between multiple GUI (Graphical User Interface) views and themes. A tree structure GUI lists all the controllable devices in Windows Explorer style, allowing easy interconnection between devices acting as, stream sources and destination devices. GUI can be flexibly customized.

VMX Client also provides the interface for recording and alarm handling. The recording interface allows for management of existing and new recordings. The alarm interface displays active and historical alarms, enables alarm filtering, and provides the information about the alarm status and affected devices.

The client application is enhanced with additional functions, such as e-mail or SMS notifications, communicator with pre-configured messages or a post-recording tool for processing recorded material.

It provides also a secure access to VMX Config tools for system configuration.



GIS (Geographical Information System) GUI is a scalable map with dynamic icons showing position and status of the equipment. GUI displays provide SW decoding functionality required for viewing selected streams.

An example view from Client, VMX Config and File Player applications. Each application appears on the separated window view.

Configuration Tool

- Easy to use interface with tree structure
- Help menu
- Password protected access based on user rights
- Easy editing, adding, deleting and replicating system components
- Automatic validation of setup data
- Drag-and-drop functionality for moving components in system hierarchy
- Database fields export/import
- Device search based on various cathegories
- Remote access

VMX Config is an integral part of VMX Client application. It is a configuration tool for Teleste VMX System administrators. The application stores system configuration data in an SQL database. The stored information includes setup data of each system element (e.g. camera, monitor), and system module (e.g. Server, NVR).

Additionally, the application allows the administrator to configure the details of user profiles, and also setup rights and priorities to system resources.

The access based on VMX Config is independent of the physical location of the administrator – it can be used as a remote administrator tool.

The configuration application is designed to operate in a multi-host environment and can manage well distributed database systems. Multiple instances of system modules are synchronized according to hierarchy defined in the VMX Config.

Map Interface

- Multiple types of map object
- Camera positions representation on the map

Map interface allows for integrating, storing, editing, analyzing, sharing and displaying geographical information. VMX allows user to create interactive objects, place and locate objects (cameras, displays, multiplexers, alarm sensors and stations) in a map and present them in a visual format.

Maps can be either stored locally on the client machine or they can be stored on VMX server and distributed to all the system clients.

Material

- Easy marking and exporting of material
- Export support of multiple formats: AVI, MPEG, DVD
- Encryption of exported material
- Password protection of exported material
- Audit trail functions
- Checksum verification
- Snapshots of recorded material
- Video processing tools adjust video quality
- Customized overlays
- Copyright statement

Material Export

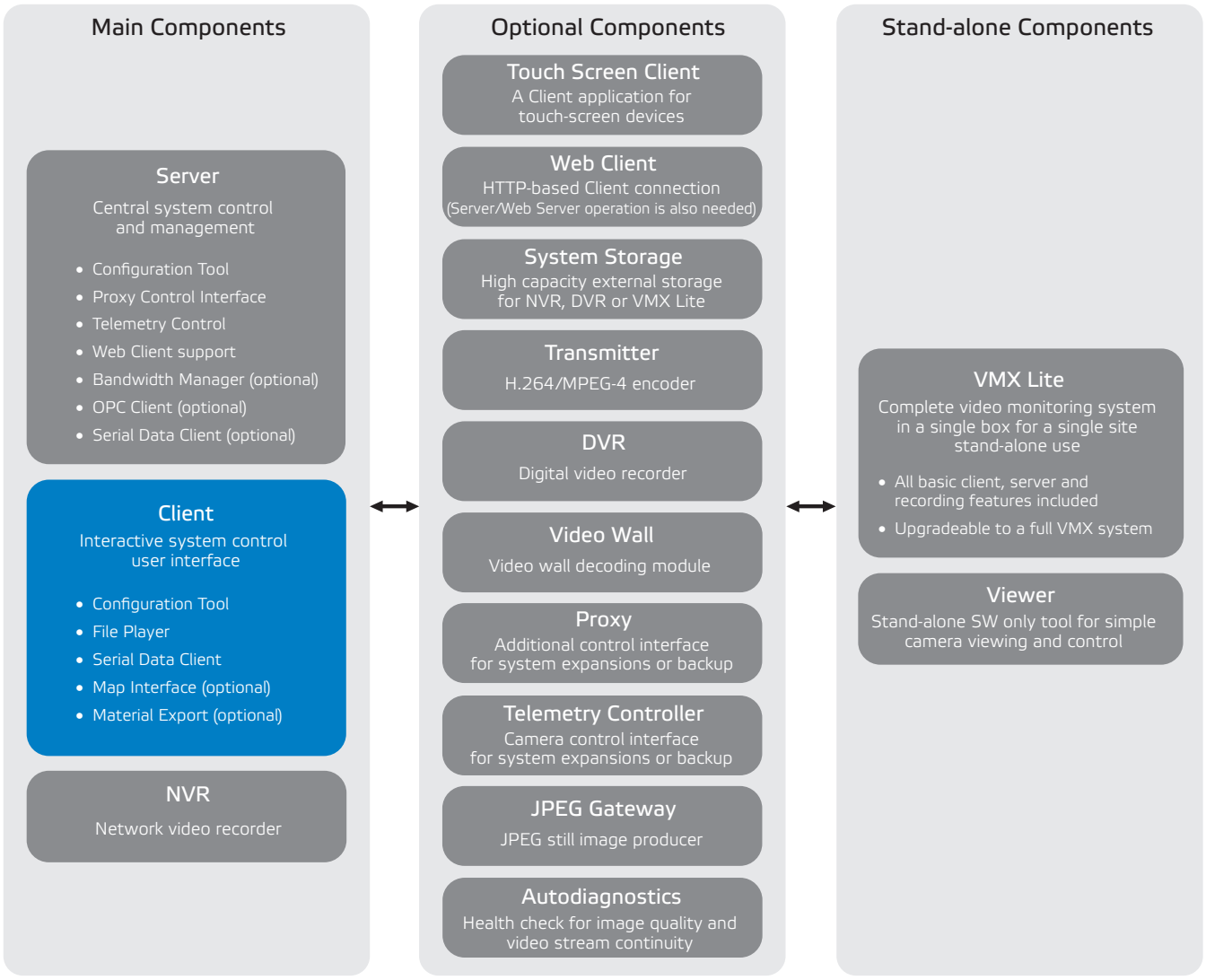
Material Export is an add-on functionality of VMX Client. It allows exporting downloaded media content into external storage devices. The export function supports multiple media formats and storage devices.

File Player

VMX File Player allows operators to replay the video material exported from Teleste VMX system. File Player allows encrypting of exported material and a password protection. Audit trail function provides tracking of operations performed on files and other system level information.

Customized copyright statements can be embedded into exported material. The player application is designed to operate in a multi-host environment – the same recorded material can be processed independently by multiple File Player installations.

VMX system components



Technical specifications (Typical values unless otherwise stated)

Video		
Decoding formats	JPEG, MJPEG, MPEG-1, MPEG-2, MPEG-4 SP, H.264	
Transport	HTTP/HTTPS/RTP/UDP/IP multicast and unicast	
Audio		
Coding	ITU G.711	µ-law
Sampling rate	8 / 32 kHz	
Software		
Operating system	MS windows XP embedded, MS windows XP	
Application	VMX Client	
Split screen	max. 16 (4 x 4)	
Hardware		
Processor	Intel I5	
Motherboard	ATX	
Memory	2048 MB	
Boot device *	HDD, SSD or flash	
Monitor output	DVI, VGA, HDMI	
Monitor ratios	16:9, 16:10 to 4:3	scaling and native ratio
Ethernet	2 x 1000Base-Tx	
Power supply	Standard, redundant *	
HW watchdog	Built-in	R3, R5
Storage		
Built-in (max) *	3 x HDD 8 x HDD	T1 R3, R5, T5
HDD *	500GB, 750GB, 1TB	additionally 2TB
RAID *	JBOD, RAID 0, RAID 1, RAID 5, RAID 6	

Tested performance on Teleste HW		
Local SW decoding (max) ***	MPEG2/4(25fps)@D1 MPEG2/4(25fps)@2CIF H.264@1280x960 H.264@D1	24 streams/PC 32 streams/PC 12 streams/PC 24 streams/PC
General		
Supply voltage	100...240 V AC / 50...60 Hz (± 3 Hz)	
Power consumption	200 W	
Operating temperature	+5…+40 ºC (+41...+104 ºF)	
Relative humidity	< 90% (no condensing)	
Housing	Industrial PC 19" wide rack mount (3U or 5U high) and tower or mini tower	
Weight **	15 Kg (33 lbs) 15...22 kg (33...48.5 lbs) 20...30 kg (44...66 lbs)	T1 R3 R5, T5
Dimensions (H x W x D)	420 x 200 x 420 mm (16.6 x 7.9 x 16.5") 3U x 19" x 445 mm (3U x 19" x 17.5") 5U x 19" x 620 mm (5U x 19" x 24.4") 425 x 220 x 620 mm (16.7 x 8.7 x 24.4")	T1 R3 R5 T5
Safety	EN60950	

Notes

* = optional

** = depends on configuration options

*** = tested for suite 5.0

P4P_VMX_Client s6 28042011

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