



**Web site TG1 - Video System Logging
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1. INTRODUCTION

In this document are specified technical and economic offers on which is enough global supply to part by the Aether with regards to the provision of a recording system of video / audio to be published on the website of the TG1.

2. TECHNICAL OFFER

Following is a detailed description of the characteristics of the hardware products that ensure the optimal performance of the system.

2.1. 12 Workstations for video coding

The software used for continuous recording from the entry of Vidigrafo is Etere Memory, which comes with the following requirements:

- Rackmount 19",
- Processor Xeon QC,
- 4GB Ram,
- Hard Drive 1TB for a capacity of recordings of 15 days to quality WMV 3Mbps,
- Doors open PCI card audio / video, GPI, time code readers, etc,
- Graphics Cards with one or more composite video inputs BNC 75 Ohm,
- Sound card with one or more audio inputs balanced stereo XLR,
- Gigabit Network Adapter,
- Windows 2003 Server 32bit oppure XP PRO,
- Latest Microsoft service packs installed,
- Windows Media Player 9, windows Media Encoder 9, DirectX9,
- Any brand: HP, IBM, Dell, Fujitsu Siemens, etc.
- Dual power 230 VAC 50 Hz.

NB: Ether recommended for workstations coding the rack server IBM System X3550 M2, designed with a very innovative concept thermal, new voltage regulators and higher integration to simplify power distribution and reduce energy loss (see Annex A for further details regarding the technical specifications).

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2 Stations for routing video

The requirements for the position responsible for routing video channels are those from a PC Ether Generic, namely:

- Rackmount / Desktop,
- Pentium Core 2 Duo or Xeon multi-core,
- 2GB of Ram,
- Hard disk of 80GB (or more),
- DVD player,
- Doors open PCI cards for any audio / video, GPI, time code readers, etc.,
- Integrated Audio,
- Adapters Gigabit Network,
- Windows 2003/2008 Server or Windows XP Pro,
- Last Microsoft service pack installed,
- Any brand: HP, IBM, Dell, Fujitsu Siemens, etc.

2.2. 1 location for Beta player

The requirements for the position in charge of player Beta are those from a PC Generic ether, or:

Rackmount / Desktop,

- Pentium Core 2 Duo or Xeon multi-core,
- 2GB of Ram,
- Hard disk of 80GB (or more),
- DVD player,
- Doors open PCI cards for any audio / video, GPI, time code readers, etc.,
- Integrated Audio,
- Adapters Gigabit Network,
- Windows 2003/2008 Server or Windows XP Pro,
- Last Microsoft service pack installed,
- Any brand: HP, IBM, Dell, Fujitsu Siemens, etc.

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2.1. 1 Seat Reserve

The requirements for the location of reserves are those from a PC Ether Generic, namely:

- Rackmount / Desktop,
- Pentium Core 2 Duo or Xeon multi-core,
- 2GB of Ram,
- Hard disk of 80GB (or more),
- DVD player,
- Doors open PCI cards for any audio / video, GPI, time code readers, etc.,
- Integrated Audio,
- Adapters Gigabit Network,
- Windows 2003/2008 Server or Windows XP Pro,
- Last Microsoft service pack installed,
- Any brand :: HP, IBM, Dell, Fujitsu Siemens, etc.

2.3. 20 workstations browsing

The requirements for the location of browsing local / remote are those of Ether Web, namely:

- Rackmount / Desktop,
- Pentium Core Duo or Xeon multi-core,
- 2GB of Ram,
- Hard Drive 1TB for a capacity of recordings of 15 days to quality WMV 3Mbps,
- Integrated Audio,
- Network adapters for Gigabit Ethernet communication.
- Windows 2003/2008 Server or XP PRO 32bit,
- Last Microsoft service pack installed,
- Any brand: HP, IBM, Dell, Fujitsu Siemens, etc.
- Recommended redundancy hard drive, power supply and network card.

NB: The supply of workstations browsing is by the company RAI.

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2.3. 1 Control Station

The requirements for the control station via SNMP are those required for the proper functioning of software Ether SNMP, namely:

Rack Mount 19 ",

- Pentium Core 2 Duo or Xeon multi-core,
- 4 GB of RAM,
- Hard disk of 80GB (or more),
- DVD player,
- Doors open PCI cards for any audio / video input, GPI cards, readers time code, etc.,
- Integrated Audio,
- Adapters Gigabit Network,
- Windows XP PRO,
- Last Microsoft service pack installed,
- Any brand: HP, IBM, Dell, Fujitsu Siemens, etc.

NB: Ether recommended for the control place di'allarme the HP Z400 Workstation, a system that provides top performance computing Intel at an affordable price, ideal for professionals working in the fields of video editing, photography, design and design (you see Annex B for further details regarding the technical specifications).

ANNEX A

System features IBM System X3550 M2



Form factor / height	Rack 1 U
Processor (max)	Up to two quad-core Intel® Xeon® processor 5500 series with Intel QuickPath Interconnect (QPI), up to 2.93 GHz and up to 1333 MHz front-side bus
Numero di processori	(std/max) 1/2
Cache (max)	Up to 8 MB
Memory 1 (max)	SODIMM DDR3 1, 2, 4 or 8 GB with 16 DIMM (dual inline memory module) for a maximum memory of 128 GB
Expansion Slots	2 slot Gen 2 PCI-Express x16; a metà lunghezza e ad altezza piena e a basso profilo (ciascuno slot può essere convertito in PCI-X con opzione riser)
Disk bays (total / hot-swap)	Up to six SAS (Serial Attached SCSI) / SATA (Serial Advanced Technology Attachment) hot-swap (2.5-inch) or solid-state drives (Solid State Drive, SSD)
Maximum Internal Storage	Hot-swap SAS or up to 1.8 TB hot-swap SATA or SSD storage 1.8 TB hot-swap 300GB
Network interface	Dual-GbE (Gigabit Ethernet) Integrated two ports, plus 2 ports optional
Power supply (std / max)	1/2; 675 W each
Hot-swappable components	Power supplies, modular fan, Records
Supporto RAID (Redundant Array of Independent Disks)	RAID-0, -1, 1E or RAID-0, -1, -10, -5, -50 hardware (with additional option -6, -60) (depending on model)
Supported operating systems	Microsoft Windows Server 2003 and 2008, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES) and VMware ESXi 3.5 embedded hypervisor



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ANNEX B

System features HP Z400

Operating system installed	Windows Vista® Business autentico con downgrade a Windows XP Professional installazione cliente
Processor Type	Processore Intel® Xeon® Dual Core W3503 / W3505 (da 2,40 a 2,53 GHz, 4 MB di cache L2, 1066 MHz di memoria) o processore Intel® Xeon® Quad Core W3520 / W3540 / W3550 / W3570(da 2,66 a 3,20 GHz, 8 MB di cache L2, da 1066 a 1333 MHz di memoria)
Chipset	Intel® X58 Express
Format	Convertible Minitower
Memory	Up to 16GB 1333MHz DDR3 ECC Unbuffered DIMM
Memory slots	4 o 6 slot DIMM
Internal data storage	2 internal 3.5 "(up to 4 with converter)
External storage data	3 bays external 5.25 "
Internal Drives	- SATA (7200 rpm) Da: 160 GB Fino a: 1,5 TB - SATA (10000 rpm) Da: 160 GB Fino a: 300 GB - SAS (15000 rpm) Da: 146 GB Fino a: 600 GB
Storage controller	SATA 3 Gb / s controller with RAID (0,1, 5 or 10), optional SAS controller, LSI 3041E SAS / SATA 4-Port, with RAID (0, 1 or 10)
Optical drives	HP SATA DVD-ROM Drive, HP SATA DVD+/-RW Drive, HP SATA Blu-Ray Writer
Graphics Card	- Professional 2D: NVIDIA Quadro NVS 295 (256MB), the NVIDIA Quadro NVS 450 (512 MB) - Entry-level 3D: NVIDIA Quadro FX 380 (256MB), ATI FirePro V3700 (256 MB), the NVIDIA Quadro FX 580 (512MB) - Midrange 3D: NVIDIA Quadro FX 1800 (768MB), ATI FirePro V5700 (512 MB) - High-end 3D: NVIDIA Quadro FX 3800 (1 GB), ATI FirePro V7750 (1 GB), NVIDIA Quadro FX 4800 (1.5 GB), NVIDIA Quadro CX (1.5 GB). All cards are optional and are all PCI Express. Dual Graphics on selected cards.
I / O Ports External	-Front: 2 USB 2.0, 1 microphone, 1 headphone out, optional 1 IEEE 1394a -Back: 6 USB 2.0, 1 audio input, 1 audio out, 1 mic, 2 PS / 2, 1 RJ-45 to integrated Gigabit LAN, optional 1 serial Internal: 4 USB 2.0
Slot	2 PCI Express Gen2 x16, 1 PCI Express Gen2 (x8 meccanicamente, x4 elettricamente), 1 PCI Express Gen1 (x8 meccanicamente, x4 elettricamente), 2 PCI
Network interface	Integrated Broadcom 5764 10/100/1000 PCIe LAN, optional Broadcom NIC, optional Intel NIC
Audio	High Definition Audio Realtek ALC262 integrated sound card Creative X-Fi Titanium PCIe optional, optional HP Thin USB Powered Speakers
Power Requirements	475 watts wide-ranging, active Power Factor Correction, 85% efficient power supply
Product Dimensions (L x W x H)	16,79 x 45,53 x 45,02 cm