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# **Hardware Specifications for the Virtual agencies**

*Technical Characteristics and installation specifications*

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# 1 OPERATION

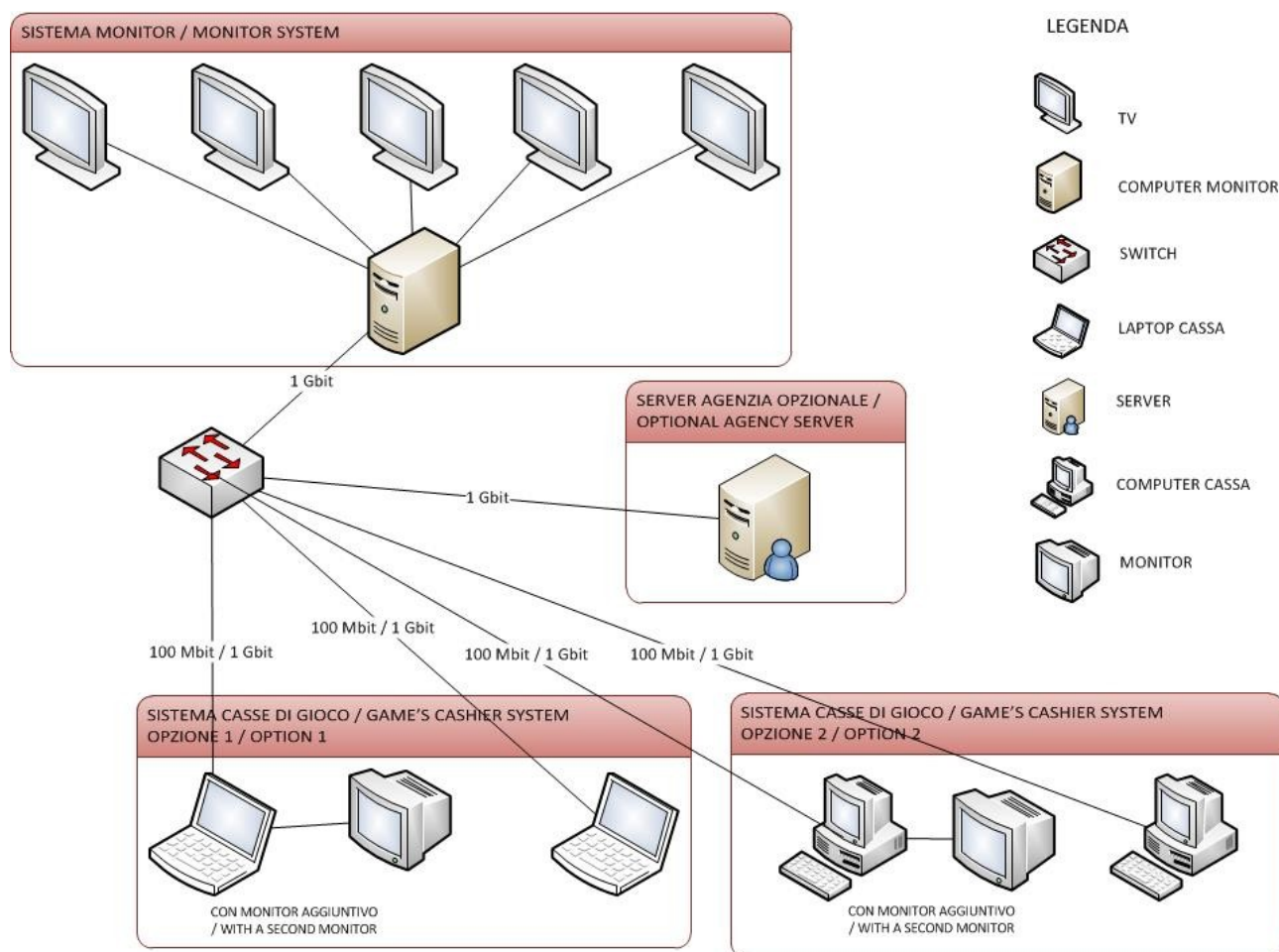


Illustration 1: Fig 2.1

## 1.1 *Hardware Specifications*

As shown in the Figure 2.1, the virtual system has been designed to give to the agency and the customer an optimal gaming experience. To fulfill this task some minimum requirements for the installation of the system must be respected. These features are not obligatory, but the technical assistance will verify their presence before to make sure the problem is not the agency itself.

### 1.1.1 TV

For the TV size in inches can vary from 38 up to 60. An important thing for the TV is that the output in HDMI and the supported resolution of 1920x1080 in 16:9. Below is a list of recommended TVs:

- Samsung UE46F6500 104.24 x 68.24 x 30.72 cm ( 1920x1080 16:9)
- Sony KDL-50W815B 111.6 x 65.6 x 17.9 cm (1920x1080 16:9)
- Panasonic TX-L47ET60E 106.7 x 62.7 x 3.5 cm (1920x1080 16:9)

### 1.1.2 SWITCH

The switch that connects all devices of virtual management system as speakers, monitors and optional server would be a good idea to isolate it from other switches, eventually already present within the agency to ensure that the internal traffic is not disturb by any other equipment.

- TPLINK TL-SG1024D Minimum Performance
- 3COM 3C16479-US Medium Performance
- WS-C3750G-24TS-S1U High Performance

### 1.1.3 COMPUTER MONITOR

The computer that has to manage the TVs is one of the most important parts and it is required to have the following minimum requirements:

- **CPU:** Intel Core i7-4770K 3.5 Ghz
- **RAM:** DDR 3 1600 Mhz 4 GB
- **Motherboard:** ASUS Z87 PRO (or other with chipset Intel Z87) This model supports already the Trial Head (management of 3 monitors)
- **Video card:**

(one of these models)

1. Matrox M9188-E2048F M9188 ( 8 Monitor )
2. Nvidia Quadro 420 ( 4 Monitor )
3. Nvidia Quadro NVS 510 ( 4 Monitor )

- **Power Supply:** ThermaltakeCooler master 530 W
- **Hard Disk:** Sata 7200 RPM 3.5 320GB Internal
- **Case:** ATX (Recommended at least 2 Fans)
- **Operating System:** Windows 7 Professional 64 bit

#### 1.1.4 [AGENCY SERVER FOR VIDEO STREAMING](#)

For the server room, the configuration is as follows:

- **CPU:** Intel Core i7-4770K 3.5 Ghz
- **RAM:** DDR 3 1600 Mhz 2 GB
- **Motherboard:** ASUS Z87 PRO (or other with chipset Intel Z87) This model supports already the Trial Head (management of 3 monitors)
- **Video card:** it is not needed, a motherboard integrated one is enough.
- **Power Supply:** ThermaltakeCooler master 530 W
- **Hard Disk:** Sata 7200 RPM 3.5 500GB Internal
- **Case:** ATX (Recommended at least 2 Fans)
- **Operating System:** Windows 7 Professional 32 bit (if you install more than 4 GB of RAM, put the 64Bit version)

#### 1.1.5 [CASHIER LAPTOP](#)

In the case you want to use a laptop as cashier PC, it is important it has:

- Operating system Windows 7 Professional also 32-bit (if you install more than 4 GB of RAM, put the 64Bit version)
- minimum 2 GB of ram
- CPU minimum 3 Core
- that supports the operating system WIN 7
- The monitor resolution higher than 1024 x 768. If you want to add the second monitor to show the customer receipt during the bet, the laptop should have a monitor output.

- at least 3 USB.
  - 1 for the Thermal 80mm printer
  - 1 for the optical gun
  - 1 for the mouse

### **1.1.6** [CASHIER COMPUTER](#)

If you use for the cashier a desktop computer, it must have the same characteristics as described in the CASHIER LAPTOP section.

### **1.1.7** [MONITOR](#)

The secondary monitor to connect to your cashier computer/laptop can be a normal secondary monitor with a minimum resolution higher than 1024 x 768