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## **Annex G – Minimum Technical Requirements**

Ref: ***CFT-EUI-ICTS-2017-002***

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This document describes in detail the configuration of the Personal Computer requested as the Workstation. It sets out the mandatory **Minimum Technical Requirements**.

**All the PCs proposed must be available on the market when the Call for Tender closes. Prototypes will not be accepted.**

The Candidate may present only one configuration of the Personal Computer proposed. This configuration must respect the mandatory **Minimum Technical Requirements** described in detail in **Table 1**.

<b>Table 1 - Reference Personal Computer Configuration</b>	
Description	The configuration of the Personal Computer proposed is suitable for use in a normal advanced Office Automation environment.
<i>The Configuration proposed must be <b>equivalent or superior</b> to the minimum requirements described below:</i>	
CPU	A single CPU Quad Core x 64 (Certificate for Windows 10 and equipped with support for hardware virtualization)
Memory	4 Slots (2 Slots free as Minimum) 8 GB DDR4 @ 2.133 MHz Upgradable to at least 32GB
Benchmarks Minimum Results	<b>PCMark 10 Professional Edition v1.1275.0 rating: 3500</b> This rating is obtained under conditions detailed in " <b>Annex I - Installation and Execution Guidelines for Technical Benchmarks</b> ".
BIOS	Power Management standby, hibernation and resume PXE and WOL activated UEFI capable
Graphics	Graphics subsystem supporting DirectX 12 capable of displaying at least 1920x1080 pixels in 24bits color
Internal storage	250 GB SSD NAND TLC (Triple Cell Technology) <sup>1</sup>
Expansion slot	1 PCI Express x16 (full or half height)
Optical Unit	Internal, ability to read DVD at 8x speed and CD-ROM at 24x speed

<sup>1</sup> MLC (Multilevel Cell Technology) will be an advantage

Keyboard	USB; all reference layouts in <b>“Annex J – Reference Keyboard Layouts”</b> of the tendering specifications available at no additional cost
Pointing device	USB Optical wheel Mouse
Wired Network	100/1000 LAN with RJ45 – Ethernet card PXE and WOL capable
Ports	8 USB ports in total (of which at least 4 should be USB3.0 and the rest USB2.0) 2 or 4 front ports (of the total 8 USB ports) 4 or 6 rear ports (of the total 8 USB ports) 3 ports for graphics output, of which at least 2 DisplayPort 1.2 and 1 VGA Stereo in, stereo out, microphone in
Power Supply	Auto Sensing 100-240 VAC adapter for worldwide usage Power cable supplied conforms to the standards of ITALY
Manuals	All documentation manuals must be available in English or Italian and supplied electronically for the main components. Manuals in hardcopy format are not acceptable.
Operating System License	OEM License MS Windows 10 Professional - 64 bit version
Environmental	Meets the Energy Star eligibility criteria, as these are specified in the Energy Star Program requirements Product Specification for Computers version 5.2 or later
Security	TPM 2.0 or later Physical protection against theft
Certification	The hardware manufacturer must be certified to ISO 9001:2008 (quality management system), see Art. 6.3 “Conformity” of the STS. The Tenderer shall enclose a copy of the certificate with Annex H “Technical Specifications for Proposed Model” (in Envelope no. 2).

The companies participating in the call for tender can propose configurations superior to the minimum required.

All participating companies must use the form provided in **Annex H - "Technical Specifications for proposed model"**.