

Fujitsu recommends Windows 10 Pro.

# Data Sheet

## FUJITSU Workstation CELSIUS W530

### Performance That Boosts Your Productivity

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If you need a powerful entry-level desktop workstation, Fujitsu's CELSIUS W530 is the ideal choice. The FUJITSU CELSIUS W530 workstation gives you the graphics capabilities and performance you need for entry-level 3D/CAD or DCC applications. Comprehensive ISV certifications ensure your professional applications run smoothly. Your workplace is silent and user-friendly thanks to best-in-class noise emissions. Plus, this compact workstation is individually configurable and allows easy tool-less expansion for greater working flexibility.



#### Powerful desktop workstation

Get more done in less time

- The fastest available processors, graphics cards and hard disk drives for entry-level 3D/CAD or Media & Entertainment applications

#### Quality

Highest quality and reliability for continuous productivity

- Designed and manufactured in Germany

#### Upgradeability

Minimum downtime in the event of rapid component upgrades

- Screw less access system design

#### Leading workstation application certification

Maximum compatibility and performance with customer-preferred applications

- Full support for ISV applications and easy integration into existing IT environments

#### Silent operation

No distraction by disturbing noises, improved concentration for office work and increased user productivity

- Best-in-class noise emission of only 18 dB(A) in idle mode



# Components

<b>Processor</b>	Intel® Core™ i5-4690 processor (4 Cores / 4 Threads, 3.50 GHz, up to 3.9 GHz, 6 MB, Intel® HD Graphics 4600) * Intel® Core™ i5-4590 processor (4 Cores / 4 Threads, 3.30 GHz, up to 3.7 GHz, 6 MB, Intel® HD Graphics 4600) * Intel® Xeon® processor E3-1281v3 (4 Cores / 8 Threads, 3.70 GHz, up to 4.1 GHz, 8 MB) Intel® Xeon® processor E3-1276v3 (4 Cores / 8 Threads, 3.60 GHz, up to 4.0 GHz, 8 MB, Intel® HD Graphics P4600) Intel® Xeon® processor E3-1271v3 (4 Cores / 8 Threads, 3.60 GHz, up to 4.0 GHz, 8 MB) Intel® Xeon® processor E3-1246v3 (4 Cores / 4 Threads, 3.50 GHz, up to 3.9 GHz, 8 MB, Intel® HD Graphics P4600) Intel® Xeon® processor E3-1241v3 (4 Cores / 4 Threads, 3.50 GHz, up to 3.9 GHz, 8 MB) Intel® Xeon® processor E3-1231v3 (4 Cores / 4 Threads, 3.40 GHz, up to 3.8 GHz, 8 MB) Intel® Xeon® processor E3-1226v3 (4 Cores / 4 Threads, 3.30 GHz, up to 3.7 GHz, 8 MB, Intel® HD Graphics P4600) Intel® Xeon® processor E3-1220v3 (4 Cores / 4 Threads, 3.10 GHz, up to 3.5 GHz, 8 MB)	
	Intel® vPro™ Logo with Intel® Core i5 and Core i7 processors Intel® vPro™ with all Intel® Xeon® processors *with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)	
<b>Operating systems</b>		
<b>Operating system</b>	Windows 8.1 Pro Windows 7 Professional 64-bit Windows 7 Professional 32-bit	Windows 8.1 Pro Windows 7 Professional 64-bit Windows 7 Professional 32-bit
<b>Operating system compatible</b>	Windows 10 Pro Windows 10 Windows 8.1 Linux	Windows 10 Pro Windows 10 Windows 8.1 Linux
<b>Operating system notes</b>	Certified for Red Hat© Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server For some configurations third party drivers are currently not available or configuration restrictions may apply.	Certified for Red Hat© Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server For some configurations third party drivers are currently not available or configuration restrictions may apply.
<b>Memory modules</b>	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1,600 MHz, PC3-12800, DIMM 4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1,600 MHz, PC3-12800, DIMM 4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1,600 MHz, PC3-12800, DIMM 8 GB (1 module(s) 8 GB) DDR3, unbuffered, ECC, 1,600 MHz, PC3-12800, DIMM 8 GB (1 module(s) 8 GB) DDR3, unbuffered, non-ECC, 1,600 MHz, PC3-12800, DIMM	
<b>Graphics</b>	High-end 3D: AMD FirePro™ W7100, 8 GB, PCIe x16, 4 x DisplayPort High-end 3D: NVIDIA® Quadro® K4200, 4 GB, 1344 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort Midrange 3D: NVIDIA® Quadro® K2200, 4 GB, 640 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort Midrange 3D: AMD FirePro™ W5100, 4 GB, PCIe x16, 4 x DisplayPort Entry 3D: AMD FirePro™ W4100, 2 GB, 512 stream processors, PCIe x16, 4x miniDP, 4x miniDP/DP Adapter Entry 3D: NVIDIA® Quadro® K620, 2 GB, 384 cores, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort Entry 3D: AMD FirePro™ W2100, 2 GB, 320 stream processors, PCIe x16, 2x DisplayPort Professional 2D: NVIDIA® NVS™ 510, 2 GB, 16 cores, PCIe 2.0 x16, 4x miniDP, 4x miniDP/DP Adapter Professional 2D: NVIDIA® NVS™ 315, 1 GB, 48 cores, PCIe 2.0 x16, 1x LFH59 (max. 2x DP or 2x DVI-I) Professional 2D: NVIDIA® NVS™ 315 fanless, 1 GB, 48 cores, PCIe 2.0 x16, 1x LFH59 (max. 2x DP or 2x DVI-I) Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2x miniDP, PCoIP Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4x miniDP, PCoIP Others: DP to DVI-D (single link) Adapter Cable	
<b>Notes</b>	NVIDIA® Quadro® K4000, NVIDIA® Quadro® K4200 and ATI FirePro™ W7000 require CELSIUS W530power.	

<b>Hard disk drives (internal)</b>	SSD SATA III Premium, 512 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch
	SSHD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
	SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch
	HDD SATA III, 10,000 rpm, 500 GB, 2.5-inch, business critical
	HDD SATA III, 7,200 rpm, 4,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 3,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch
<b>Hard disk notes</b>	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. 24/7 ready (business critical HDDs required) Up to 20 GB of HDD space is reserved for system recovery SSHD (Solid State Hard Disk, Hybrid drive) SED (Self-Encrypting Drive) SSD (Solid State Disk)
<b>Drives (optional)</b>	BD Triple Writer SATA slim (tray) DVD-ROM DVD Super Multi MultiCard Reader 24in1 USB 2.0 3.5"
<b>Interface add on cards/components (optional)</b>	Parallel Interface Gigabit Ethernet PCIe x1, DS eSATA Interface Dual serial card PCIe x1
<b>Base unit</b>	CELSIUS W530
	CELSIUS W530power
<b>Mainboard</b>	
<b>Mainboard type</b>	D3227
<b>Formfactor</b>	µATX
<b>Chipset</b>	Intel® C226
<b>Processor socket</b>	LGA 1150
<b>Processor quantity maximum</b>	1
<b>Supported capacity RAM (max.)</b>	32 GB
<b>Memory slots</b>	4 DIMM (DDR3) ECC/non-ECC
<b>Memory frequency</b>	1,600 MHz
<b>Memory notes</b>	Dual channel support For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same.
<b>LAN</b>	10/100/1,000 MBit/s Intel® I217LM
<b>BIOS version</b>	AMI Aptio 4.6
<b>BIOS features</b>	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
<b>Audio type</b>	On board
<b>Audio codec</b>	Realtek ALC671
<b>Audio features</b>	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound

**I/O controller on board**

Serial ATA total	6
thereof SATA III	6
thereof eSATA	2 (optional)
Controller functions	Serial ATA II (3 Gbit) Serial ATA III (6 Gbit) NCQ AHCI RAID 0/1/5/10 Intel® Smart Response Technology (depending on CPU)

**Interfaces**

Audio: line-in	1
Audio: line-in / microphone	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
USB 2.0 total	9
USB 3.0 total	4
USB front	2x 2.0/ 2x 3.0
USB rear	4x 2.0 / 2x 3.0
USB internal	2x 2.0 + 1x 2.0
VGA	1
DisplayPort	1 (second DisplayPort optional)
DVI	1 (DVI-D)
Serial (RS-232)	1 (9pin, 16 byte FIFO, 16550 compatible)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	1 (optional) (25pin with EPP and ECP)
eSATA	1 (optional)
Interface Module notes	Anytime USB charge functionality

**Input device / components**

	Optical USB tilt wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse Laser Mouse GL9000 Mouse M440 ECO Space Explorer USB KBPC PX ECO Keyboard

**Drive bays**

Drive bays total	7	9
2.5-inch internal bays	1	1
3.5-inch internal bays	2	4
3.5-inch external bays	2	2
5.25-inch external bays	2	2
Drive bay notes	Up to 1x 2.5-inch HDDs and up to 2x 2.5/3.5-inch HDDs	Up to 1x 2.5-inch HDDs and up to 4x 2.5/3.5-inch HDDs

**Slots**

PCI-Express 3.0 x16	1 x (340 mm / 13.39 inch) Full height
PCI-Express 2.0 x4 (mech. x16)	1 x (170 mm / 6.69 inch) Full height
PCI-Express x1	2 x (340 mm / 170 mm / 13.39 inch / 6.69 inch) Full height

**Graphics on board**

Graphics brand name	Intel® HD Graphics P4600, Intel® HD Graphics 4600, Intel® HD Graphics 4400
Shared video memory	up to 1,782 MB

**Graphics on board**

<b>TFT resolution (VGA)</b>	1,024 x 768 pixel 1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel 1,600 x 1,200 pixel 1,680 x 1,050 pixel 1,920 x 1,080 pixel
<b>TFT resolution (DVI)</b>	1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel 1,680 x 1,050 pixel 1,920 x 1,080 pixel 1,920 x 1,200 pixel
<b>TFT resolution (DisplayPort)</b>	1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel 1,680 x 1,050 pixel 1,920 x 1,080 pixel 1,920 x 1,200 pixel 2,560 x 1,440 pixel 2,560 x 1,600 pixel 3,840 x 2,160 pixel
<b>Graphics features</b>	Support for up to three independent displays DirectX® 11.1 HDCP support Open GL® 3.3 Open CL® 1.2 For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows® 7 or Windows 8)
<b>Graphics notes</b>	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz

**Electrical values**

<b>Power efficiency note</b>	power supply efficiency (at 230V; 20% / 50% / 100% load) : 88% / 92% / 90%	power supply efficiency (at 230V; 20% / 50% / 100% load) : 91% / 93% / 91%
<b>Rated voltage range</b>	100 V - 240 V	100 V - 240 V
<b>Rated frequency range</b>	50 Hz - 60 Hz	50 Hz - 60 Hz
<b>Operating voltage range</b>	90 V - 264 V	90 V - 264 V
<b>Operating line frequency range</b>	47 Hz - 63 Hz	47 Hz - 63 Hz
<b>Max. output of single power supply</b>	300 W	500 W
<b>Power factor correction/active power</b>	active	active
<b>Power supply output</b>		1 graphics power rail (6pin connector / 17A@12V)

**Noise for standard configuration (HDD, ODD)**

<b>Noise emission</b>	According to ISO9296	According to ISO9296
<b>Related Processors for noise</b>	Intel® Xeon® E3-1275v3	Intel® Xeon® E3-1285v3
<b>Standard noise emission</b>	4x8 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74	4x8 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
<b>Standard noise notes / description</b>	A-weighted sound power level L <sub>wad</sub> (in B) / Workplace related A-weighted sound pressure level L <sub>pAm</sub> (in dB(A)) (depending on configuration)	A-weighted sound power level L <sub>wad</sub> (in B) / Workplace related A-weighted sound pressure level L <sub>pAm</sub> (in dB(A)) (depending on configuration)
<b>Standard noise operation mode: CPU 50% load</b>	3.6 B / 21 dB(A) Bystander position	3.7 B / 21 dB(A) Bystander position
<b>Standard noise operation mode: CPU 90% load</b>	3.8 B / 22 dB(A) Bystander position	3.8 B / 22 dB(A) Bystander position

**Noise for standard configuration (HDD, ODD)**

<b>Standard noise operation mode: HDD load</b>	3.3 B / 19 dB(A) Bystander position; 21 dB(A) Operator position	3.4 B / 19 dB(A) Bystander position; 21 dB(A) Operator position
<b>Standard noise operation mode: Idle mode</b>	3.3 B / 18 dB(A) Bystander position; 21 dB(A) Operator position	3.3 B / 18 dB(A) Bystander position; 21 dB(A) Operator position
<b>Standard noise operation mode: ODD load</b>	4.5 B / 29 dB(A) Bystander position	4.4 B / 28 dB(A) Bystander position
<b>Standard noise operation mode: Office applications 2.0</b>	3.3 B / 18 dB(A) Bystander position	3.3 B / 18 dB(A) Bystander position
<b>Blue angel noise emission according certification</b>	According to ISO 7779:2010, ECMA-74 for max. possible configuration	According to ISO 7779:2010, ECMA-74 for max. possible configuration
<b>Blue angel noise notes / description</b>	A-weighted sound power level L <sub>wad</sub> (in B); 1B = 10dB	A-weighted sound power level L <sub>wad</sub> (in B); 1B = 10dB
<b>Blue angel noise operation mode: HDD load</b>	3.7 B = 20 dB (A)	3.9 B = 24 dB (A)
<b>Blue angel noise operation mode: Idle mode</b>	3.6 B = 20 dB (A)	3.7 B = 23 dB (A)
<b>Blue angel noise operation mode: ODD load</b>	4.5 B = 28 dB (A)	4.5 B = 28 dB (A)

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	175 x 419 x 395 mm
<b>Operating position</b>	Vertical
<b>Weight</b>	approx. 11 kg
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Operating ambient temperature</b>	10 - 35 °C
<b>Operating relative humidity</b>	5 - 85 % (relative humidity)

**Compliance**

<b>Product</b>	CELSIUS W530	CELSIUS W530power
<b>Model</b>	M15W	
<b>Germany</b>	TÜV GS	
<b>Europe</b>	CE	
<b>USA/Canada</b>	FCC Class B cCSAus	
<b>Global</b>	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) EPEAT® Gold (dedicated regions) ENERGY STAR® 6.0 (dedicated regions)	
<b>Compliance link</b>	<a href="http://globalsp.ts.fujitsu.com/sites/certificates">http://globalsp.ts.fujitsu.com/sites/certificates</a>	

**Additional Software**

<b>Additional software (preinstalled)</b>	Workplace Protect (secure authentication solution) Adobe® Reader® (pdf reader) McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version) Win7: Fujitsu Recovery (hard disk based recovery) Win8: Microsoft Push Button Recovery (hard disk based recovery) Microsoft Office (buy license to activate the pre-installed Microsoft Office)
<b>Additional software (optional)</b>	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™) CyberLink PowerDVD DVD (playback software for DVD) Nero Essentials XL

**Security**

<b>Physical Security</b>	Kensington Lock support Eye for padlock Integrated cabinet lock (optional) Intrusion switch (optional)	Kensington Lock support Eye for padlock Integrated cabinet lock (optional) Intrusion switch (optional)
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<b>Security</b>		
<b>System and BIOS Security</b>	EraseDisk (optional) Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 1.2) Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces	EraseDisk (optional) Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 1.2) Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces
<b>User Security</b>	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)

<b>Manageability</b>		
<b>Manageability technology</b>	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) iAMT 9.0 (depending on CPU) WoL (Wake on LAN)	
<b>Manageability software</b>	DeskView Client DeskView Instant BIOS Management DeskView Integration for Symantec Management Platform	
<b>DeskView components</b>	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)	
<b>Manageability link</b>	<a href="http://www.fujitsu.com/fts/manageability">http://www.fujitsu.com/fts/manageability</a>	

<b>Miscellaneous</b>		
	Keyboard on (Special Fujitsu keyboard required) Thermal management Extended lifetime	Keyboard on (Special Fujitsu keyboard required) Thermal management Extended lifetime

<b>Packaging information</b>		
<b>Packaging dimension (mm)</b>	516 x 278 x 562 mm	516 x 278 x 562 mm
<b>Packaging dimension (inch)</b>	20.31 x 10.94 x 22.13 inch	20.31 x 10.94 x 22.13 inch
<b>Max. quantity / pallet</b>	24	24
<b>Material - Weight (g) Carton</b>	1272 g	1272 g
<b>Material - Weight (lbs) Carton</b>	2.8 lbs	2.8 lbs
<b>Material - Weight (g) EPS / PS</b>	182 g	182 g
<b>Material - Weight (lbs) EPS / PS</b>	0.4 lbs	0.4 lbs
<b>Material - Weight (g) PE</b>	60 g	60 g
<b>Material - Weight (lbs) PE</b>	0.13 lbs	0.13 lbs
<b>Packaging notes</b>	printed user documentation is bleached in chlorine free process	printed user documentation is bleached in chlorine free process

<b>Warranty</b>		
<b>Warranty period</b>	3 years (depending on country)	
<b>Warranty type</b>	Bring-In / Onsite Service (for countries within region EMEA, for all other countries depending on local regulations)	
<b>Warranty Terms &amp; Conditions</b>	<a href="http://support.ts.fujitsu.com/warranty">http://support.ts.fujitsu.com/warranty</a>	

<b>Product Support Services - the perfect extension</b>		
<b>Recommended Service</b>	9x5, Onsite Response Time: Next Business Day	
<b>Spare Parts availability</b>	5 years after end of product life	
<b>Service Weblink</b>	<a href="http://www.fujitsu.com/fts/services/support">http://www.fujitsu.com/fts/services/support</a>	

## Recommended Accessories

### Display P27T-7 UHD



For pixel, color and performance-hungry professionals using demanding applications, look no further than the FUJITSU P27T-7 UHD Display. It provides outstanding picture quality with Ultra High Definition (UHD) resolution, also known as 4k. Picture in Picture (PiP), unrivalled ergonomics, a multitude of UHD supporting interfaces and manageability make this the perfect choice.

Order Code:  
S26361-K1564-V140

### Blue LED Mouse GL9000



Blue LED Mouse GL9000 comes in a slim design with proven Fujitsu engineering quality. The state-of-the-art blue LED sensor enables ultra precise switchable resolution at 1,000, 1,500 and 2,000 dpi. Blue LED Mouse GL9000 makes your life easier because it's tailor-made for right handed users. It just feels great in your hand.

Order Code:  
S26381-K438-L100

### SpaceMouse™ Pro



Using the SpaceMouse™ Pro 3D mouse to navigate 3D models or environments is as simple as holding them in your hand. A slight movement of the controller cap delivers easy and precise control. SpaceMouse™ Pro is a companion to the traditional mouse and is operated with the free hand. Your traditional mouse hand is free to select, create and edit.

Order Code:  
S26381-K459-L100

### Keyboard KB900



The KB900 is a very flat keyboard with extra low keys and spill-resistant protection. The elegant design and top-quality construction makes the KB900 the ideal input device for any PC or Notebook user. If you accidentally spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away.

S26381-K560-L4\*\* (\*\*:  
Country specific variation)



# More information

## Fujitsu OPTIMIZATION Services

In addition to the FUJITSU Workstation CELSIUS W530, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

### Computing Products

[www.fujitsu.com/global/products/computing/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about the FUJITSU Workstation CELSIUS W530, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[www.fujitsu.com/fts/CELSIUS](http://www.fujitsu.com/fts/CELSIUS)

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at <http://www.fujitsu.com/global/about/environment>



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