

Fujitsu recommends Windows.

# Data Sheet

## FUJITSU CELSIUS R930

### Workstation

#### Uncompromising Workstation Performance for Extreme Demands

Fujitsu's most performing workstation the CELSIUS R930 is designed to surpass all your expectations. This high-end dual processor workstation is individually configurable for the most power hungry 24/7 operating environments. Incorporating latest NVIDIA GRID™ graphics virtualization cards or Intel® Xeon Phi™ coprocessor cards, the CELSIUS R930 is well prepared for workstation virtualization and High Performance Computing. Comprehensive ISV certifications ensure smooth application operation.



#### Performance

Higher productivity

- Future Intel® Xeon® processors, high performing graphics subsystems, quad-channel memory technology and high-speed hard disk drives

#### Workstation virtualization in the datacenter

Ideal for workstation consolidation due to multiple users per workstation, increased data security and protection against theft or damage

- Rack-mountable and incorporating latest NVIDIA GRID™ or Intel® Xeon Phi™ graphics or compute cards

#### Reliable and Ergonomic

Noise-reduced system engineered in Germany and System stability for the complete lifecycle and 24/7 operation

- Optimized thermal management, high product standards thanks to top-quality components and comprehensive testing in certified in-house laboratories

#### Certification of workstation applications

Stability, compatibility and performance for the main workstation applications

- Comprehensive support for ISV applications and ease of integration into existing IT networks

#### Expandability

Excellent expandability for future demands

- Increased memory capacities of up to 512 GB, Up to three ultra-high-end or four mid-range graphics and eight hard disk drives



# Components

## Processor

Intel® Xeon® processor E5-2697v2 (12 cores, 2.70 GHz, 30 MB)
Intel® Xeon® processor E5-2695v2 (12 cores, 2.40 GHz, 30 MB)
Intel® Xeon® processor E5-2690v2 (10 Cores, 3.00 GHz, 25 MB)
Intel® Xeon® processor E5-2687Wv2 (8 Cores, 3.40 GHz, 25 MB)
Intel® Xeon® processor E5-2680v2 (10 Cores, 2.80 GHz, 25 MB)
Intel® Xeon® processor E5-2670v2 (10 Cores, 2.50 GHz, 25 MB)
Intel® Xeon® processor E5-2667v2 (8 Cores, 3.30 GHz, 25 MB)
Intel® Xeon® processor E5-2660v2 (10 Cores, 2.20 GHz, 25 MB)
Intel® Xeon® processor E5-2650v2 (8 Cores, 2.60 GHz, 20 MB)
Intel® Xeon® processor E5-2650Lv2 (10 Cores, 1.70 GHz, 25 MB)
Intel® Xeon® processor E5-2643v2 (6 Cores, 3.50 GHz, 25 MB)
Intel® Xeon® processor E5-2640v2 (8 Cores, 2.00 GHz, 20 MB)
Intel® Xeon® processor E5-2637v2 (4 Cores, 3.50 GHz, 15 MB)
Intel® Xeon® processor E5-2630v2 (6 Cores, 2.60 GHz, 15 MB)
Intel® Xeon® processor E5-2630Lv2 (6 Cores, 2.40 GHz, 15 MB)
Intel® Xeon® processor E5-2620v2 (6 Cores, 2.10 GHz, 15 MB)
Intel® Xeon® processor E5-2609v2 (4 Cores, 2.50 GHz, 10 MB)
Intel® Xeon® processor E5-2603v2 (4 Cores, 1.80 GHz, 10 MB)
Intel® Xeon® processor E5-1660v2 (6 Cores, 3.70 GHz, 15 MB)
Intel® Xeon® processor E5-1650v2 (6 Cores, 3.50 GHz, 12 MB)
Intel® Xeon® processor E5-1620v2 (4 Cores, 3.70 GHz, 10 MB)
Intel® Xeon® processor E5-1607v2 (4 Cores, 3.00 GHz, 10 MB)
Intel® Xeon® processor E5-1603 (4 Cores / 8 Threads, 2.80 GHz, 10 MB)
Intel® Xeon® processor E5 family featuring Intel® vPro™ Technology
2nd Intel® Xeon® E5-16xx processor not possible

## Operating systems

<b>Operating system</b>	Windows 8.1 Pro 64-bit Windows 8 Pro 64-bit Windows 7 Professional 64-bit	Windows 8.1 Pro 64-bit Windows 8 Pro 64-bit Windows 7 Professional 64-bit
<b>Operating system compatible</b>	Windows® Server 2012 Windows 7 Professional 32-bit Windows® XP Professional x64 Edition Linux	Windows® Server 2012 Windows 7 Professional 32-bit Windows® XP Professional x64 Edition Linux
<b>Operating system notes</b>	Certified for Red Hat® Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server Certified for Citrix XenServer 6.2 For some configurations third party drivers are currently not available or configuration restrictions may apply. Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via <a href="http://support.ts.fujitsu.com">http://support.ts.fujitsu.com</a> SCU ports are not supportet for Windows® XP 32bit (restricton by Intel®). Therefore an additional storage controller (D2607 or D2616) is necessary.	Certified for Red Hat® Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server Certified for Citrix XenServer 6.2 For some configurations third party drivers are currently not available or configuration restrictions may apply. Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via <a href="http://support.ts.fujitsu.com">http://support.ts.fujitsu.com</a> SCU ports are not supportet for Windows® XP 32bit (restricton by Intel®). Therefore an additional storage controller (D2607 or D2616) is necessary.

## Memory modules

4 GB (1 module(s) 4 GB) DDR3, ECC, 1,866 MHz, PC3-14900
8 GB (1 module(s) 8 GB) DDR3, registered, ECC, 1,866 MHz, PC3-14900
16 GB (1 module(s) 16 GB) DDR3, registered, ECC, 1,866 MHz, PC3-14900
32 GB (1 module(s) 32 GB) DDR3, registered, ECC, 1,600 MHz, PC3-12800

<b>Graphics</b>	Ultra-high-end 3D: AMD FirePro™ W9100, 16 GB, 2816 stream processors, PCIe x16, 6x miniDP, 6x miniDP/DP Adapter
	Ultra-high-end 3D: NVIDIA® Quadro® K6000, 12 GB, 2,880 cores, PCIe x16, 1x Dual Link DVI-I, 1x Dual Link DVI-D, 2x DisplayPort
	Ultra-high-end 3D: NVIDIA® Quadro® K5000, 4 GB, 1,536 cores, PCIe x16, 1x Dual Link DVI-I, DVI-D, 2x DisplayPort
	High-end 3D: AMD FirePro™ W7000, 4 GB, 1,280 stream processors, PCIe x16, 4 x DisplayPort
	High-end 3D: NVIDIA® Quadro® K4000, 3 GB, 768 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: NVIDIA® Quadro® K2000D, 2 GB, 384 cores, PCIe x16, 2x Dual Link DVI-I
	Midrange 3D: NVIDIA® Quadro® K2000, 2 GB, 384 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: AMD FirePro™ W5000, 2 GB, 768 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Entry 3D: AMD FirePro™ V4900, 1 GB, 480 stream processors, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Entry 3D: NVIDIA® Quadro® K600, 1 GB, 192 cores, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort
	Entry 3D: NVIDIA® Quadro® 410, 512 MB, 192 cores, PCIe x16, 1x DVI-I, 1x 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, 2x LFH59 (DP/DVI-I)
	Professional 2D: NVIDIA® NVS™ 310, 512 MB, 16 cores, PCIe 2.0 x16, 2x DisplayPort
	GPU computing card: NVIDIA® Tesla® K20, 5 GB, 2,496 cores, PCIe x16
	GPU computing card: NVIDIA® GRID™ K1 16GB A, 16 GB, 768 cores, PCIe x16
	GPU computing card: NVIDIA® GRID™ K2 8GB A, 8 GB, 3,072 cores, PCIe x16
	Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2x miniDP, PCoIP
	Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4x miniDP, PCoIP
<b>Personal Supercomputing</b>	Coprocessor: Intel® Xeon Phi™ Coprocessor 3120A, PCIe x16
	Coprocessor: Intel® Xeon Phi™ Coprocessor 5110P, PCIe x16
<b>Hard disk drives (internal)</b>	SSD SATA III Premium, 512 GB, 2.5-inch
	SSD SATA III Premium, 256 GB, 2.5-inch
	SSD SATA III Premium, 128 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch, SED bay
	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch, SED bay
	SSD SATA III, 128 GB, 2.5-inch
	HDD SATA III, 10,000 rpm, 1,000 GB, 2.5-inch, business critical
	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, 2,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch
	HDD SAS, 15,000 rpm, 300 GB, 2.5-inch
	HDD SAS, 10,000 rpm, 900 GB, 2.5-inch
	HDD SAS, 10,000 rpm, 600 GB, 2.5-inch
HDD SAS, 10,000 rpm, 300 GB, 2.5-inch	
<b>Hard disk notes</b>	*Disk imaging software of the customer must be 4k sector size / advanced format ready One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. 24/7 ready (business critical HDDs required)
<b>Drives (optional)</b>	BD Triple Writer SATA slim (tray)
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 24in1 USB 2.0 3.5"

<b>SCSI / SAS Controller</b>	RAID Contr BBU Upgrade for RAID 5/6 Ctrl RAID 5/6 Ctrl. 6 Gbit/s 8 ports int. 512 MB Cache RAID 0/1 Ctrl. 6 Gbit/s 8 ports int. RAID 0/1 Ctrl. 6 Gbit/s 8 ports ext.
<b>Interface add on cards/components (optional)</b>	WLAN 802.11 a/g/n (2x2), (dedicated regions only, not for Indonesia) USB 3.0 PCIe x1 Serial Interface FH Gigabit Ethernet PCIe x1, DS eSATA Interface Dual serial card PCIe x1 Dual 10 Gigabit Ethernet PCIe x8
<b>Interface add on/component note</b>	1x eSATA interface already on board
<b>Base unit</b>	CELSIUS R930 CELSIUS R930 power
<b>Mainboard</b>	
<b>Mainboard type</b>	D3118
<b>Formfactor</b>	proprietary
<b>Processor</b>	Intel® Xeon® processor E5-2600 family ( )
<b>Chipset</b>	Intel® C602
<b>Processor socket</b>	Socket R
<b>Processor quantity maximum</b>	2
<b>Memory slots</b>	16 (8 per processor) DIMM (DDR3) registered
<b>Supported capacity RAM (max.)</b>	512 GB
<b>Memory notes</b>	In configurations with 4 GB and more the visible memory may be reduced to approximately 3.5 GB or less (for 32-bit operating systems) and configurations with 8 GB the visible memory may be reduced to approximately 7.5 GB or less (depending on system configuration). Large memory may lead to long boot times. When using a 32-bit operating system the maximum of memory might be 900 MB.
<b>LAN</b>	2x Built-in 10/100/1,000 MBit/s Intel® 82579 LM and Intel® 82574L
<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>	Conexant CX20642
<b>Audio features</b>	High Definition Audio
<b>I/O controller on board</b>	
<b>Serial ATA total</b>	7
<b>thereof SATA III</b>	2
<b>thereof eSATA</b>	1
<b>SATA RAID support</b>	0, 1, 10, 5
<b>SAS Controller type</b>	optional upgrade to 8 ports, Intel C606
<b>SAS RAID support</b>	0, 1, 10
<b>Interfaces</b>	
<b>Audio: in (rear)</b>	1
<b>Audio: out (rear)</b>	1
<b>Audio: in</b>	1
<b>Audio: out</b>	1
<b>Internal speakers</b>	1

**Interfaces**

USB 2.0 total	11
USB 3.0 total	2
USB front	4 (2x USB 3.0)
USB rear	6
USB internal	3, thereof 1 type A
Mouse / Keyboard (PS/2)	1 / 1
Ethernet (RJ-45)	2
eSATA	1
Interface Module notes	Anytime USB charge functionality

**Input device / components**

	Optical USB wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse Space Explorer USB Keyboard

**Drive bays**

Drive bays total	12
2.5-inch internal bays	8
3.5-inch internal bays	4
3.5-inch external bays	2
5.25-inch external bays	2
Drive bay notes	Up to 8x 2.5-inch HDDs (cold plug) and 1x 2.5-inch SSD or Up to 4x 3.5-inch HDDs (cold plug) and 1x 2.5-inch SSD or Up to 2x 2.5-inch and 2x 3.5-inch HDDs (cold plug) and 1x 2.5-inch SSD

**Slots**

PCI-Express 3.0 x4	1 x (312 mm / 12.29 inch) Full height
PCI-Express 3.0 x4 (mech. x16)	1 x (312 mm / 12.29 inch) Full height
PCI-Express 3.0 x16	4 x (312 mm / 12.29 inch) Full height (2x PCIe 3.0x16 per processor)
PCI-Express 2.0 x4 (mech. x8)	1 x (140 mm / 5.51 inch) Full height
PCI (32-bit / 33 MHz)	1 x (312 mm / 12.29 inch) Full height

**Electrical values**

Power consumption note	400 W depending on configuration	550 W depending on configuration
Rated voltage range	100 V - 240 V	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz
Operating voltage range	100 V - 240 V	100 V - 240 V
Operating line frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz
Max. output of single power supply	800 W up to 90% efficiency	1100 W up to 90% efficiency
Power factor correction/active power	active	active
Power supply output	2 graphics power rails (6pin connector / 17A@12V)	3 graphics power rails (6pin connector / 17A@12V)

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

Related Processors for noise	Intel® Xeon® E5-2643v2 w/ Nvidia® Quadro K4000	Intel® Xeon® E5-2643v2 w/ Nvidia® Quadro K4000
Standard noise emission	8x4 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74	8x4 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
Standard noise notes / description	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))	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))
Standard noise operation mode: CPU 50% load	4.0 B / 23 dB(A) Bystander position	4.0 B / 23 dB(A) Bystander position
Standard noise operation mode: CPU 90% load	4.3 B / 26 dB(A) Bystander position	4.3 B / 26 dB(A) Bystander position
Standard noise operation mode: HDD load	4.0 B / 23 dB(A) Bystander position	4.0 B / 23 dB(A) Bystander position
Standard noise operation mode: Idle mode	3.9 B / 22 dB(A) Bystander position	3.9 B / 22 dB(A) Bystander position

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

Standard noise operation mode: ODD load	4.6 B / 29 dB(A) Bystander position	4.6 B / 29 dB(A) Bystander position
Standard noise operation mode: Office applications 2.0	3.9 B / 22 dB(A) Bystander position	3.9 B / 22 dB(A) Bystander position

**Dimensions / Weight / Environmental**

Dimensions (W x D x H)	186 x 618 x 430 mm
Operating position	Vertical / horizontal
Weight	20 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35 °C (50 - 95 °F)
Operating relative humidity	5 - 85 % (relative humidity)

**Compliance**

Product	CELSIUS R930	CELSIUS R930 Power
Model	ETNA_L-D3118	
Germany	GS depending on configuration	
Europe	CE	
USA/Canada	FCC Class B FCC Class A (in combination with 32GB Memory or InfiniBand add on card) cCSAus	
Global	RoHS (EU & China) Medical EMC standard IEC60601-1-2 in combination with medical kit Microsoft Operating Systems (HCT / HCL entry / WHQL) WEEE (Waste electrical and electronic equipment) ENERGY STAR® 6.0 (dedicated regions, depending on configuration) EPEAT® Gold (dedicated regions)	
Compliance link	<a href="http://globalsp.ts.fujitsu.com/sites/certificates">http://globalsp.ts.fujitsu.com/sites/certificates</a>	

**Additional Software**

Additional software (preinstalled)	Workplace Protect (secure authentication solution) McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version) Microsoft Office (buy license to activate the pre-installed Microsoft Office)
Additional software (optional)	Drivers & Utilities DVD (DUDVD) Windows® 8 and Windows® 7

**Security**

Physical Security	Kensington Lock support Eye for padlock Intrusion switch Integrated cabinet lock (optional)	Kensington Lock support Eye for padlock Intrusion switch Integrated cabinet lock (optional)
System and BIOS Security	Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Dynamic USB security for full hardware USB protection Control of all USB interfaces Trusted platform module (TPM 1.2) EraseDisk	Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Dynamic USB security for full hardware USB protection Control of all USB interfaces Trusted platform module (TPM 1.2) EraseDisk
User Security	User and supervisor BIOS password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)	User and supervisor BIOS password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)

**Manageability**

Manageability technology	DeskUpdate Driver management iAMT 8.0 (depending on CPU)
Manageability software	DeskView Client DeskView Instant BIOS Management DeskView Integration for Symantec Management Platform

**Manageability**

DeskView components	Inventory Management BIOS Management Driver Management Security Management Alarm Management
Supported standards	WMI BootP (made4you) PXE WoL (Wake on LAN)
Manageability link	<a href="http://www.fujitsu.com/fts/manageability">http://www.fujitsu.com/fts/manageability</a>

**Miscellaneous**

	Rack mountable (5U)	Rack mountable (5U)
Spare part availability	5 years	5 years

**Packaging information**

Packaging dimension (mm)	394 x 730 x 578 mm	394 x 730 x 578 mm
Packaging dimension (inch)	15.51 x 28.74 x 22.76 inch	15.51 x 28.74 x 22.76 inch
Max. quantity / pallet	11	11
Packaging notes	printed user documentation is bleached in chlorine free process	printed user documentation is bleached in chlorine free process

**Warranty**

Warranty period	3 years (depending on country)
Service level	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 3 years material warranty)
Warranty Terms & Conditions	<a href="http://support.ts.fujitsu.com/warranty">http://support.ts.fujitsu.com/warranty</a>

**Product Support Services - the perfect extension**

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

## Recommended Accessories

**Display P27T-7 LED**

Enjoy perfect picture quality with 3.7 Mio pixels, outstanding ergonomics and usability as well as comfortable energy saving solutions of this 68.5 cm (27-inch) widescreen FUJITSU P Line Display. Energy Efficiency Class: A

Order Code:  
S26361-K1442-V140

**Display P24W-7 LED**

If you're a pixel, color and performance-hungry professional using demanding applications, the FUJITSU P24W-7 LED Display is the perfect choice. The display provides outstanding picture performance thanks to a cutting-edge graphic panel. It also boasts unique and innovative features such as our patent-applied Presence Sensor technology and the Always Available Powered USB Hub. Energy Efficiency Class: A+

Order Code:  
S26361-K1498-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

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**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

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**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 CELSIUS R930, 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

To learn more about the FUJITSU CELSIUS R930, 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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