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## In-House Implementation of Advanced Green ICT

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# R&D

## ENGINEERINGCLOUD

Quickly getting competitive products to the market at low energy cost

Green Reference for Tomorrow

### ENGINEERINGCLOUD

### Microgrid Proving Test

Fujitsu is tackling the challenge of performing its design and development work by adopting cloud computing. It is undertaking this difficult task to perform higher quality design and development work more efficiently, lower its cost, and shorten development periods. It has succeeded in establishing a practical working system by applying the most advanced high-speed display technology for virtual desktops.

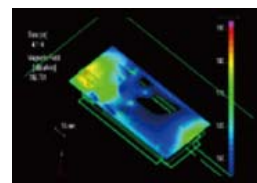


- The quantity of data transmitted has been cut to about 1/10 using the most advanced high-speed display technology for virtual desktops, developed by Fujitsu.
- Even without servers and high function work stations installed by type of work, it easily uses CAD and other high functioning tools.
- It permits sharing of images and design data at remote locations, regardless of time or place.
- Integrating servers and introducing thin client terminals cuts electric power use.

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### Fujitsu's high-speed display technology for virtual desktops permits the use of high functioning development tools in the "Cloud"

Product development facilities face a constant demand to respond nimbly to changes in the market. They have, therefore, been eagerly looking forward to moving to a cloud based design and development environment, where they can easily use the most advanced design and development tools anytime, anywhere. Until now, it has been difficult to perform engineering work in a cloud environment, because when high-resolution image data such as that used for CAD and simulations were transmitted, it was difficult to perform smooth image processing.



Smooth operation of three-dimensional CAD and high resolution simulations.

High speed image compression technology which Fujitsu has developed has instantly resolved this

## Green Reference for Tomorrow

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## Green IT, Green Policy Innovation

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problem. Technology that reduces the quantity of data transmitted to handle video or high-resolution images in cloud computing to about 1/10 of its former volume permits smooth remote access from terminals at isolated locations. Fujitsu uses the ENGINEERINGCLOUD to design and develop its own products.

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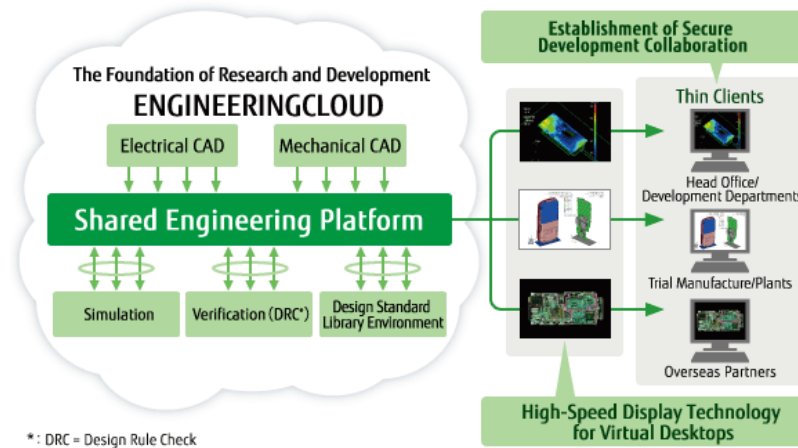
### Permitting close collaboration between designers working at remote locations

The biggest benefit of ENGINEERINGCLOUD is that it permits the unrestricted use of advanced design and development tools such as three-dimensional CAD or analysis software from any kind of terminal at any time and anywhere. Not only an environment for the performance of modeling, analysis, or simulation, but parts databases, various types of libraries and diverse other environments needed for design and development can all be provided by cloud computing.

Corporations which operate many business facilities inside and outside of Japan can hold conferences linking product development divisions scattered at widely separated locations and letting them share images and data. This capability allows these scattered divisions to conduct closely coordinated design and development work while reducing the quantity of energy required to transport people from place to place.



3-dimensional CAD, analysis software, and other development tools can be used without stress from terminals of many kinds, any time and anywhere.



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### Integrating servers and adopting thin clients to cut costs and energy use

The ENGINEERINGCLOUD makes a big contribution to reducing environmental loads. Moving to the cloud permits more efficient operation of the ICT infrastructure, achieving environment-friendly design and development. We predict that introduction the ENGINEERINGCLOUD will reduce CO<sub>2</sub> emissions by about 15%<sup>\*1</sup>. Fujitsu uses ENGINEERINGCLOUD to help its customers transform their development and manufacturing facilities into more creative places where they can create new value.

\*1 Trial calculation by Fujitsu



"It provides many different benefits. It is not only effective as a design and development tool, it improves security and risk management, permits telecommuting and other new work styles, and lowers the environmental load."

**Koichiro Takahashi**  
Manager, ENGINEERINGCLOUD  
Development Office,  
Fujitsu Limited

