



“We chose ElectricCommander which is a perfect framework here to integrate all those tools together including the open stack cloud to provide us an intelligent, lean, low cost DevOps system empowered by the latest cloud technology”

— Ting Zou, Director, Cloud Computing R&D Data Center
Huawei USA

About Huawei

Huawei Technologies Co. Ltd. is a Chinese multinational networking and telecommunications equipment and services company. A global company providing information and communications technology (ICT) solutions. Products and solutions have been deployed in 140+ countries, serving 1/3 of the world's population. A privately-owned company founded in 1987, headquartered in Shenzhen, Guangdong.

www.huawei.com



Type of Application
Enterprise Web/IT
Embedded

Solutions Purchased
ElectricCommander

Before Electric Cloud

Huawei had a large scale R&D environment with complicated tools that required thousands of CPU cores to be available on demand. They needed to process 5 million LOC with a goal to go from 2 hours to 10 minutes for the build cycle. The testing process entailed 10 million LOC with a goal to go from 5 hours to 9 minutes. Environment and tools provisioning time was too long with poor lab asset utilization. The goal was to go from 8 hours to 20 minutes for the compile/build environment provision time and from 10 hours to 2 hours in the testing provision time.

How did Electric Cloud Help?

ElectricCommander as part of a comprehensive DevOps portable software productivity stack was able to complete more than 2000 releases per year, 50K compile & builds per day, 100 million test cases run per day including more than 30 million LOC for a very complex product. They completed more than 480K code review/analysis per year and more than 170K system integration testing per year. There are 1000+ developers at Huawei currently using EC with 10000+ who plan on using it in the future. Applications currently being serviced with EC are 20+ with a plan to service more than 1000.

- **Fast builds and improved quality** Huawei's builds went from hours to minutes with testing going from days to hours in a continuous delivery model that increased quality throughout the process in development and operations.
- **Increased resource utilization** Completed work flow optimization going from modifying code and launching preflight to build, test and deploy.
- **Complete visibility and control** Single dashboard portal for engineering to access all the needed resource/tools in R&D process. Gained centralized control and visibility into Jenkins OpenStock, Docker, Chef, ReviewBoard, and more.
- **Reduced cost of delivering software** Huawei's R & D engineers created a multi-layer and multi-platform infrastructure to provide developers with control over the production environment and a concise definition of R&D processes to automate the production build process bridging the gap between development and operations with globally distributed R&D teams.