

STEPPING INTO THE GAP

NCS designed and built a deployable high-performance server enabling the Joint Communications Support Element (JCSE) to deploy network resources to any location in record time.



Courtesy of the Department of Defense

The Joint Communications Support Element (JCSE), often referred to as “The Voice Heard Around the World”, is the Department of Defense’s principal communications organization. Composed of only the best members from each branch of the U.S. Military, this uniquely joint team provides immediate and responsive support to contingency, crisis and wartime situations when Command, Control, Communication and Computer (C4) resources aren’t immediately available.

To carry out their mission, JCSE must be able to deploy network resources to the field quickly and effectively. In this case, JCSE needed a high performance server that was also compact and portable. JCSE turned to NCS to design and build a solution, as well as providing a repair/replacement system with no geographical limitations.



CUSTOMER

Joint Communications Support Element (JCSE)
<http://www.jcse.mil>

PROJECT

The Portable High Performance Server Project

CHALLENGE

JCSE needed a high performance server in a lighter, compact and portable package that would shorten deployment set up time, as well as access to rapid and reliable repair services.

SOLUTION

NCS designed and built *The Cube* Server. While less than 1 cubic foot in size and under 25 pounds, it is a full-featured high-performance server. NCS also provided a logistics infrastructure to deliver repair services for the equipment no matter where the JCSE teams take it.

BENEFITS

JCSE deployment teams now travel with an equipment load hundreds of pounds lighter. In addition, *The Cube* enables teams simply to deploy a single server that accomplishes the same tasks that used to require up to 15 systems. They also have the security of knowing that if the unit needs to be serviced, repair or replacement will quickly and efficiently be provided regardless of where they are deployed.



Sharply Focused. Quality Driven.



THE CUBE



A LOOK INSIDE THE CUBE

DEPLOYABLE POWER

JCSE called for portable servers with advanced configurations comprised of the latest technology available. NCS responded by redesigning and reconfiguring a powerful server from its existing Mercury Server Series into a portable system nicknamed "The Cube".

Powered by dual Intel® Xeon processors, The Cube is a full-featured server that can be configured with up to 5 solid-state drives (SSD), hybrid hard drives (HHD) or other storage/operating devices. The Cube also allows for RAID configuration and virtual capabilities. It can offer multiple terabytes of solid state storage in a RAID 5 configuration. In a virtualized environment, The Cube is capable of simulating up to 15 servers.

The Cube is less than one cubic foot in size (approximately 11.2 (h) x 11.2 (w) x 9 (d) inches) and weighs less than 25 pounds, allowing JCSE deployment teams to travel with a significantly lighter equipment load. Packed in a hardened rugged transit case with additional back-up equipment, The Cube could now be safely and quickly deployed anywhere in the world, and accomplishes the same tasks that used to require up to 15 systems.

"For JCSE, The Cube sets the new standard of power and portability for their deployable networks. We are glad that we played an instrumental role in setting this standard," states Rick Greenfield, Executive Director of Sales and Development for the NCS Standard Systems Group.

HARDWARE

- The Cube Server

SERVICES

Each system comes with a three-year warranty. Next day on-site repair service is required for both CONUS and OCONUS locations. Replacement systems must arrive the next day for remote OCONUS locations.

GLOBAL SUPPORT

The nature of deployment of The Cube is highly mobile. It can be deployed and put to use anywhere in world. Each system comes with a three-year warranty. Next day on-site repair service is provided for both CONUS and OCONUS locations. For those locations that are considered remote OCONUS (i.e., far from permanent US Military installations), NCS provides next day replacement service. Replacement systems or repair parts are sent from the closest of many strategically located repair depots operated by our maintenance service partner.



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