

Finland's CSC Turns to CommScope for Rapid Data Center Expansion

- Growing Customer IT Needs Addressed with CommScope's Prefabricated Modular Data Center on Demand Solution -

ESPOO, Finland--(BUSINESS WIRE)-- As a non-profit, state-owned company tasked with promoting the operational framework of Finnish research, education, culture and administration, Finland-based CSC - IT Center for Science Ltd. ([CSC](http://www.csc.fi)) has an obligation to provide its growing customer base with competitive computing resources for research. To quickly meet the increasing customer needs for data center capacity, CSC deployed the [Data Center on Demand](http://www.commscope.com/data-center-on-demand)™ (DCoD) modular, purpose-built data center solution from CommScope.

This Smart News Release features multimedia. View the full release here:

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CommScope's Data Center on Demand at CSC (Photo: Business Wire)

line benefits to the organization, including:

- **Sustainability:** Significantly reduced energy consumption and costs, compared to a traditional brick-and-mortar data center, demonstrates CSC's commitment to leading- edge technologies that reduce its carbon footprint and complement its ecological credentials.
- **Water usage effectiveness:** One DCoD at CSC consumes approximately 120 cubic meters of water each year - less than a typical household in Finland ([164 cubic meters](#)). The [water usage effectiveness](#) of the DCoD greatly offsets the extensive energy required for typical data center chillers.
- **Power usage effectiveness (PUE) reduction:** While the average PUE for a typical data center varies from 1.8 to 2.9, the DCoD installation at CSC averages 1.03 to 1.06. This is all the more significant, noting summer-winter temperature swings from +30°C to -35°C.
- **Seamless expansion:** The DCoD is an expansion of the existing data center, forming a single expanded facility. Installation and integration had to be achieved without causing any interruption to the existing IT services.

Once CSC placed the order, the DCoD was delivered in approximately 16 weeks to begin installation at its site in Kajaani. Assembly and acceptance testing was completed within two weeks. CSC deployed its first CommScope modular data center in 2012, adding a second at the end of 2014.

"Our customer base is growing and their requirements are changing. We needed to provide more data center capacity in a scalable, environmentally friendly and cost-efficient way," said Tero Tuononen, director ICT Platforms, CSC. "The new modular data center concept from CommScope fits nicely into our portfolio."

With growing demands on its IT infrastructure, CSC needed to expand its existing modular data center facility in a way that could meet its unique requirements of fitting within a certain budget, a short time to deployment and feature a robust design that would withstand Finland's harshest temperatures. In less than three years, the solution delivered significant bottom-

"The concept of a data center has fundamentally changed. When considering the requirement for the physical space, traditional brick-and-mortar facilities may not be appropriate for all project scenarios," said Ciaran Forde, vice president, Global Data Center Solutions, CommScope. "The CSC project is a perfect example of where an organization, requiring more capacity, was able to expand in phases. The modular approach of Data Center on Demand enabled a phased capacity expansion from

an engineering and economically sound perspective."

A video of the CSC purpose-built data center, along with an interview with Tero Tuononen can be found [here](#).

"IT technology and applications are changing very fast. So our data centers need to be able to adapt to those changes in a scalable and cost-efficient way. Customers, suppliers, owners and personnel alike must feel certain that we will fulfill our commitments and promises in an ethically sustainable manner," said Tuononen. "Right-sizing and delivery strategy are key factors when planning for data center capacity, which is why we decided on CommScope's Data Center on Demand solution."

Data Center on Demand is globally available to CommScope customers and is supported through CommScope's extensive [PartnerPRO™ Network](#)

To learn more about how CommScope's DCoD purpose-built solution benefits CSC, download the full [case study](#).

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[CommScope](#) (NASDAQ: COMM) helps companies around the world design, build and manage their wired and wireless networks. Our vast portfolio of network infrastructure includes some of the world's most robust and innovative wireless and fiber optic solutions. Our talented and experienced global team is driven to help customers increase bandwidth; maximize existing capacity; improve network performance and availability; increase energy efficiency; and simplify technology migration. You will find our solutions in the largest buildings, venues and outdoor spaces; in data centers and buildings of all shapes, sizes and complexity; at wireless cell sites; in telecom central offices and cable headends; in FTTx deployments; and in airports, trains, and tunnels. Vital networks around the world run on CommScope solutions.

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About CSC

CSC - IT Center for Science Ltd. is a non-profit, state-owned company administered by the Ministry of Education and Culture. CSC maintains and develops the state-owned centralized IT infrastructure and uses it to provide nationwide IT services for research, libraries, archives, museums and culture as well as information, education and research management.

CSC has offices in Espoo's Keilaniemi and in the Renforsin Ranta business park in Kajaani.

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