

Intel + Dell + Tracewell + VMware
Delivering the Next Generation of
Hyper-Converged, Software-Defined
Storage Platforms



US Department of Defense agencies are transforming how they use information technology to support their mission requirements. Traditional IT – with its separate server, networking and storage hardware – is giving way to a new era in hyper-converged computing featuring software-defined networking and storage systems.

DOD agencies recognize this new hyper-converged future delivers significant improvements in their size, weight, power and cooling requirements, making it possible to deploy integrated systems that offer increased computing power, greater flexibility, less cost and easier system management – all with fewer technical specialist resources. For example, a hyper-converged, software-defined storage solution for the US Army has the potential to reduce the number of mobile transit cases from six separate units to a single, mobile ground system.

Solution Overview

Tracewell Systems teamed with Intel, Dell and VMware to create the T-FX2e – an integrated compute, networking and storage platform built specifically to deliver the benefits of hyper-converged computing and software-defined storage to DOD agencies that require mission support for “beyond the back office” environments.

<p>Virtual SAN</p>	<p>NSX</p>	<p>DELIVERING A SECURE, SOFTWARE-DEFINED DATACENTER IN A BOX</p> <p>VMware® Virtual SAN is a software-defined storage solution for hyper-converged infrastructure (HCI). Seamlessly embedded in the hypervisor, Virtual SAN delivers enterprise-ready, high-performance shared storage for VMware vSphere® virtual machines. The VMware NSX platform brings next-gen security inside the same hypervisor with automated fine-grained policies tied to the virtual machines, while its network virtualization capabilities let you create and secure entire networks – all in software.</p>
<p>vSphere</p>		<p>THE T-FX2e FORM FACTOR</p> <p>Based on the Dell FX architecture – and primed to deliver the future of hyper-converged computing and software-defined storage. Platform optimized to run VMware for software-defined storage.</p>
<p>Tracewell Systems T-FX2e</p>		<p>THE DELL FX ARCHITECTURE</p> <p>Features a converged design with servers, networking and storage in one complete system. Flexible footprint with simplified management tools.</p>
<p>Dell FX Architecture</p>		

Tracewell T-FX2e

Dell's PowerEdge FX – with a converged design featuring servers, networking, storage and management tools in one complete system – has been hailed by Forrester Research as “a bold new computing architecture.” Tracewell Systems makes it possible to deploy Dell's powerful FX architecture “beyond the back office,” in settings where standard systems are not designed to operate. The T-FX2e was designed from the ground up to enable the next generation of hyper-converged, storage-intensive applications and has been highly optimized for virtual workloads designed for virtual desktop infrastructure (VDI).



FULLY COMPATIBLE

Features Dell FX compute, networking, storage and systems management.

MAXIMUM CAPACITY

Fully configured system supports up to 144 processor cores (288 hyper-thread), 80TB of raw storage, hybrid SSD/HDD for maximum performance at lower cost, over 3TB of DDR4 RAM and redundant L2/L3 internal 10GB switch modules.

EASILY ADAPTED

Can be customized to meet specific field mission and program requirements.

EXTENDS STORAGE CAPACITY

Adds an additional 8 drives per Dell PowerEdge FC630 (half-width) server block – offering greater density than rack-and-stack systems.

OPTIMIZED FOR LIMITED SPACE

Features a short-depth platform of 23.7" (height: 4U).

INCREASED EFFICIENCY

Features increased cooling, lighter weight and less power consumption than standard Dell FX2 systems.

SECURE SUPPLY CHAIN / TAA

ABOUT TRACEWELL SYSTEMS

Tracewell's T-FX2 family of products, based on Dell PowerEdge FX, represents the company's fourth generation of blade-based systems engineered to deliver high-performance computing in a form factor designed for forward deployment in space-constrained environments, such as in the air, at sea or on land, in unique fixed or mobile installations. The company has a 40-year history of enabling the nation's largest military and commercial organizations to deliver powerful and reliable computing solutions in environments where size, weight, power and other constraints present challenges that cannot be met by standard computing systems. Tracewell Systems has become recognized by the top names in the defense and technology sectors for their commitment to Trusted Innovation – a process where the company solves previously impossible, sensitive, mission-critical platform challenges through custom solution design, engineering and manufacturing, all under one roof. For more information, www.tracewell.com.

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