



# PacStar Modular Data Center

With Nutanix Cloud Platform (NCP)

**PacStar Modular Data Center (MDC) with Nutanix provides high reliability compute and storage in a small Size, Weight and Power (SWaP) form factor.**

PacStar MDC with Nutanix enables tactical and expeditionary teams to access the data and compute resources, using state-of-the-art cloud, virtualization, and containerization, even in disconnected, intermittent, and limited (DIL) environments, where WAN connectivity is not assured.

PacStar MDC, a Nutanix certified platform, brings converged compute/storage/networking to the edge of the network, supporting a diverse array of use cases in DIL environments including:

- Hosting situational awareness, mission command and C2 applications
- Supporting SIGINT, HUMINT and IMINT data gathering and analytics workloads
- Supporting emerging IoT and sensor fusion-based applications
- Unifying access to data and applications from enterprise to the tactical edge
- Hosting compute and storage-intensive networking, cybersecurity and VDI solutions

PacStar MDC with Nutanix uses the PacStar 400-Series modular platform designed to maximize capabilities with the smallest SWaP possible – enabling high amounts of compute, storage and RAM at the edge without sacrificing mobility. PacStar MDC with Nutanix adds to the PacStar MDC series of integrated solutions, utilizing PacStar 451 servers.

The PacStar MDC with Nutanix is a joint solution that allows enterprise-grade data storage networks to be deployed to the edge in various configurations, meeting unmatched SWaP requirements. The Nutanix Cloud Platform (NCP) is the software core of this solution and natively integrates computer, storage, networking, and virtualization into one software-defined solution. Nutanix is the only HCI-provider approved by the Department of Defense Information Network (DISA), having passed DISA's security and interoperability testing. This integrated solution withstands harsh physical conditions and significantly reduces the footprint of legacy tactical data center operations.

## Key Features

- **High density compute, storage and networking** capable of handling large loads with industry-leading SWaP reduction
- **Advanced computing infrastructure** ready supporting leading hyper-converged infrastructure, cloud replication, virtualization and containerization
- **Expandable/modular system** may be customized with added networking or alternative component technologies
- **Based on rugged, MIL-STD tested,** PacStar 400-Series modules and packages ideal for fly-away, command post, ground vehicle and aircraft-mounted use cases
- **Managed by PacStar IQ-Core®** Network Communications Manager (NCM), providing network and server management capabilities for the tactical communicator

**NUTANIX**

Nutanix leverages web-scale engineering and a consumer-grade user interface to natively converge compute, virtualization, and storage into a resilient, software-defined infrastructure that is predictable to scale, easy to deploy, and simple to manage.

## Solution Benefits:

- Drastically reduced complexity, SWaP, and costs of legacy infrastructure
- Provides a common cloud platform and user experience whether at the tactical edge or the HQ datacenter
- Native hypervisor (AHV) and full infrastructure stack. No need for bolting ad hoc components from various vendors to make it tactical. It is tactical and agile by design.
- Nutanix is the only HCI-provider included on the Department of Defense Information Network Approved Products List, having passed DISA's security and interoperability testing <https://aplits.disa.mil/>
- Maximized mission flexibility and effectiveness with 100% software-defined solutions
- Cloud-like economics & agility in the field, with the security and predictability of on-premise solutions
- Enables collection, storage, replication, and mirroring large volumes of data, such as mapping and imagery files
- Ability to access required data and services without expensive or faulty bandwidth
- Ability to deploy enterprise-grade IT resources on demand, wherever they are needed
- High availability and resilience:
  - Zero points of failure and continuous redundancy
  - Always-on backup & recovery/failover
  - More resilient to lack of a graceful shutdown when operations need to be relocated quickly

Learn more at [www.nutanix.com/solutions/federal](http://www.nutanix.com/solutions/federal)

## Key Features:

- Full stack infrastructure & platform services
- One-click operations for increased simplicity
- True linear scale-out performance
- Application mobility
- 100% Software-defined
- Distributed everything to eliminate single points of failure and improve availability
- Self-healing system to ensure predictable performance
- API-Based automation and rich analytics

PacStar products are covered by multiple patents. Additional patent(s) pending.

## PacStar MDC with Nutanix