

MISSION

Our Latest CMOC Deployments

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ISSUE NO. 01



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Duplicate projects not featured in this issue include:

- FEMA // Mobile Communications Operations Vehicle
- T-Mobile // Satellite Cell on Light Truck
- Verizon // Major Emergency Response Incident Team (MERIT) Vehicle



U.S. ARMY REDSTONE TEST CENTER

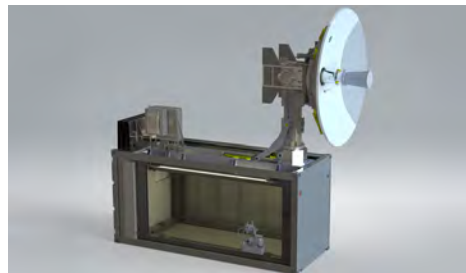
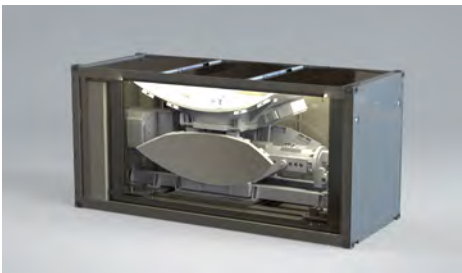
MODULAR OPEN SYSTEM ARCHITECTURE INSTRUMENTATION CONTAINER (MOSAIC) PROGRAM



MISSION // The U.S. Army's Redstone Test Center (RTC) conducts missile evaluation operations in the Broad Ocean Area (BOA) test range. To meet U.S. Coast Guard (USCG) and Military Sealift Command (MSC) requirements for occupied enclosures while at sea, RTC and Nomad GCS developed unique solutions for a compliant, modular, containerized testing ecosystem.

SOLUTION // Nomad GCS designed, manufactured, and integrated this family of 20- and 40-foot ISO 668 containers for the RTC Modular Open System Architecture Instrumentation Container (MOSAIC) Program. The 40-foot Backend and Command and Control (C2) modules are specifically engineered to meet American Bureau of Shipping (ABS) and USCG Portable Accommodation Module (PAM) requirements for occupied enclosures and have between four and seven operator positions, depending on configuration.

The 20-foot Frontend telemetry modules feature innovative, automatically opening roofs with a hydraulic lift system capable of elevating 12,000 pounds to deploy sensors and antennas. Nomad Total Command™ (NTC) automates and monitors container functions including marine-grade redundant HVAC systems and the ABS-approved NeverDown™ power storage and management system for efficient operations.



FEATURES //

- 20' and 40' Purpose-Built ISO Containers
- Portable Accommodation Module (PAM) Certified
- International Convention for Safe Containers (CSC) Certified
- Nomad Total Command™ (NTC) Asset Automation + Control
- ABS-Approved NeverDown™ Power Management System
- Four to Seven Operator Positions in Backend and C2 Modules
- Automated Roof Opening and Sensor Lift in Telemetry Modules
- Marineized, Dual-Redundant HVAC Systems
- Designed to DARPA's Modular Open Systems Approach (MOSA) standards
- Marineized Pneumatic Mast

Delivery Date:
Beginning January 2025



Step Inside:
A Virtual Tour
at Your Fingertips

U.S. ARMY REDSTONE TEST CENTER (RTC)

UAS TEST PLATFORM



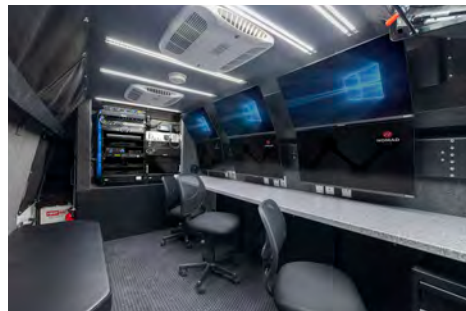
MISSION // The U.S. Army's Redstone Test Center (RTC) required an expeditionary platform for Unmanned Aerial System (UAS) and counter-UAS testing. Solution parameters included seamless integration with other RTC test platforms and serving in UAS Command and Control (C2), launch, and maintenance operations in austere range environments.

SOLUTION // Nomad GCS designed, manufactured, and integrated this platform built on a ruggedized Ford F-550 chassis. This solution features a custom shelter with an over-cab Unmanned platform, UAS access via a roof door with foldable steps, and Nomad Total Command™ automation. Additional capabilities include a TEMPEST-compliant data rack for information security, 41-foot pneumatic mast, 360-degree situational awareness cameras, and an external briefing monitor for seamless RTC integration.



FEATURES //

- Ford F-550 Crew Cab 4x4 Chassis
- Ruggedized Super Single Conversion
- Custom Shelter with Over-Cab Platform Exoskeleton
- UAS Platform Roof Access Door with Foldable Steps
- Nomad Total Command™ (NTC) Asset Automation + Control
- TEMPEST-Compliant Data Rack Design
- 41' Pneumatic Mast
- Exterior Swingout Briefing Monitor
- Cummins Onan 12kW Generator
- External Awning
- 360-Degree Situational Awareness Camera Package



Delivery Date:
1/12/2025

MOBILE CLEANROOM PROGRAM

MOBILE CLEANROOM AND MAINTENANCE SYSTEM



MISSION // The U.S. Army's Rapid Capabilities and Critical Technologies Office (RCCTO) oversees two key Directed Energy (DE) programs: the Palletized High Energy Laser (PHEL), and the Army Multi-Purpose High Energy Laser (AMP-HEL). Critical maintenance for the PHEL system must be performed in an ISO 14644 Class 5 cleanroom; however, access to a cleanroom of that level is limited or non-existent in overseas areas of operation. The challenge of providing rapid cleanroom availability drove the search for a mobile option.

SOLUTION // Nomad GCS partnered with BlueHalo to design, manufacture, and integrate a containerized Mobile Cleanroom and Maintenance system that is ISO 14644 Class 5 cleanroom capable and C-130 transportable. The system consists of two 20-foot ISO 668 compliant containers. The Mobile Cleanroom container has an ISO Class 5 laminar downdraft system and features a 4-foot collapsible roof extension to accommodate the tallest PHEL system while maintaining C-130 clearances. This container also features cleanroom particle sensors that provide real-time particle counts via Nomad Total Command™ (NTC), a collapsible workbench, and clean air dryer. The Mobile Support container houses two workstations for maintenance management, a data rack, additional storage for spare parts, and a NeverDown™ power management system that provides 30 minutes of backup power. Both containers have dual-redundant HVAC systems and can operate independently, or as a paired system with power and data interconnects.

Delivery Date:
Mar 3, 2025



FEATURES //

- 20' Purpose-Built ISO Containers
- Nomad Total Command™ (NTC) Asset Automation + Control
- Real-Time Cleanroom Particle Tracking via NTC
- NeverDown™ Power Management System
- 2 Workstations with Data Rack and I/O Panel Interconnects
- Collapsible 4' Roof Extension in Mobile Cleanroom
- Laminar Downdraft System with 8 Class 5 Filter Fan Units
- Ruggedized, Dual-Redundant HVAC Systems

[CONFIDENTIAL CUSTOMER]

MOBILE EDGE COMPUTING PLATFORM



MISSION // [Confidential Customer] developed a cutting-edge, deployable system to collect and disseminate mission-critical information in field environments. Mobile edge computing powers Artificial Intelligence (AI), processing and storing intelligence data in real time to enable first responders and staff to make immediate decisions.

SOLUTION // Nomad GCS designed, manufactured, and integrated this platform to showcase (Confidential Customer's) proprietary solution. Built on a ruggedized Ford F-550 4x4 chassis, it features Nomad Total Command™ automation for one-person setup and operation. Starlink™ connectivity and a cellular data package provide seamless mission-critical communications that enable the sharing of AI-powered information processing. A 30-foot pneumatic mast and 360-degree cameras give enhanced situational awareness, and an A/V briefing system supports real-time intelligence dissemination. A Cummins Onan 12kW generator and automatic leveling system enhance field operations.



FEATURES //

- Ford F-550 4x4 Crew Cab Chassis
- Ruggedized Super Single Suspension
- Automatic Leveling System
- Nomad Total Command™ (NTC) Asset Automation + Control
- Starlink™ Satellite Antenna
- Data Communications Package with Cellular Blending
- A/V Package with Exterior Swingout Briefing Monitor
- 30' Pneumatic Mast with PTZ Camera
- 360-Degree Situational Awareness Camera Package
- Cummins Onan 12kW Generator
- Exterior Awning



Delivery Date:
3/26/2025

[CONFIDENTIAL CUSTOMER]

MOBILE EDGE COMPUTING PLATFORM



MISSION // [Confidential Customer] developed a cutting-edge, deployable system to collect and disseminate mission-critical information in field environments. Mobile edge computing powers Artificial Intelligence (AI), processing and storing intelligence data in real time to enable first responders and command staff to make immediate, actionable decisions.

SOLUTION // Nomad GCS designed, manufactured, and integrated this unassuming mobile solution built on a Land Rover Defender 110 chassis. This platform enables discreet, real-time data collection and dissemination powered by (Confidential Customer's) proprietary system. Key features include a covert Kymeta Hawk u8 satellite antenna, low profile cell antennas, intelligent routing, dual electronics racks, laptop mounts, and rack-mounted power storage. A MEPS 6.3kW generator provides full electrical power, allowing operations away from fixed facilities.



FEATURES //

- Land Rover Defender 110 Chassis
- Aftermarket Roof Rack with Low Profile Cell Antennas
- Discrete Kymeta Hawk u8 Satellite Antenna
- Covert Intelligent Routing Package
- 2 Electronics Racks in Rear Area
- Rear Divider with Electronics Cooling Equipment
- Laptop Mounts for All Passenger Seats
- MEPS 6.3kW Engine-Driven Generator
- Custom Hood Scoop to Accommodate Generator
- Rack-Mounted Mobile Power Storage and Management
- Hidden Shore Power Connections
- 360-degree LED Lighting

Delivery Date:
3/26/2025



SEMINOLE TRIBE OF FLORIDA

TACTICAL COMMAND VEHICLE



MISSION // The Seminole Tribe of Florida, serving central and southern Tribal lands, needed a smaller, more agile platform to support communications and drone operations alongside their larger command unit.

SOLUTION // Nomad GCS designed, built, and integrated this Tactical Command Vehicle on a Ford F-550 4x4 crew cab chassis, featuring a rugged Super Single suspension and meets Air Transportability Test Loading Activity (ATTLA) certification for movement on military aircraft. Nomad Total Command™ (NTC) automates system functions, while AlwaysUp™ and Starlink™ deliver seamless, redundant communications. A 30-foot mast with PTZ camera and 360° awareness ensures full visibility. Integrated A/V supports three workstations and an exterior monitor, with LED emergency lighting and a 12kW generator enabling response across Tribal lands.



FEATURES //

- Ford F-550 Crew Cab 4x4 Chassis
- Ruggedized Super Single Conversion
- Engineered for Air Transportability Test Loading Activity (ATTLA) Requirements
- Nomad Total Command™ (NTC) Asset Automation + Control
- AlwaysUp™ Data Comms Package
- Starlink™ Satellite Data Package
- A/V Package with Exterior Briefing Monitor
- 30' Pneumatic Mast with PTZ Camera
- 360-degree Situational Awareness Camera Package
- Cummins Onan 12kW Generator
- LED Emergency and Auxiliary Lighting

Delivery Date:
3/28/2025