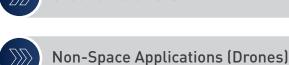# HORIZON™
COMMAND & CONTROL

Horizon is an extensible command and control jump-start kit taking advantage of the flexibility and scalability afforded by its modular architecture designed to be integrated and extended by the customer to satisfy mission needs. Combining Lockheed Martin's rich Horizon legacy on US Government, research, and commercial systems missions, and an open-source to enterprise architecture, Horizon delivers mission critical capability at value-based pricing for small, medium, and large satellite constellations.

EXAMPLE USE CASES

- Hosted Payloads
- Ground Hardware
- Deep Space Exploration
- Non-Space Applications (Drones)
- Formation Flying

COMPONENTS

CLOUD ENABLED

- Containerized executables
- Continuous deployment
- Elastic scaling

FLEXIBLE ARCHITECTURE

- Build on XTCE & CCSDS C2 and telemetry standards
- Extendable to any satellite bus
- Adaptable to any Mission Planner
- Python based scripting support

LIGHTS-OUT OPERATIONS

- Semi-to-full autonomous operations mode
- Operator on-the-loop notifications

Commanding
- Ability to generate commands and ship them to space-based assets
- Tools to build and ship
- Command simulator for testing

Telemetry Processing
- Use command simulator for testing
- Use measurand extraction and calibration
- Alarm Processing

Storage & Analytics
- Publication to any Big Data Storage
- Displays multi-year, mulit-mission data trends

Intuitive User Displays
- Interactive component displays
- Operator defined displays
- Scalable web architecture

Scheduled Execution
- Decompose high level tasks into low level actions
- Realtime dependency-based timing execution
- Lights-out automation

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