ODYSSEY MISSION

Next-Gen Command and Control Interface for Seamless UXV Management

HII's Odyssey Mission is an intuitive, next generation web-based cross-domain user interface solution built



from the ground up to provide an all-in-one unmanned vessel management suite. Utilizing cutting edge technology, Odyssey Mission provides a user-first experience with four cohesive lifecycle views to manage vehicle configuration, plan missions, monitor any number of simultaneous missions, and perform critical post-mission analysis.

Mission Application

Odyssey Mission can manage, control and monitor current REMUS class UUVs (such as the R300 and R620 platforms), HII USVs, UMAA-compliant vehicles, and provides an API for external third-party user interfaces.

Odyssey Mission is field-proven with more than 300 on-the-water testing days (1500+ hours of live demonstrations) and continues to be fielded in large scale for both REMUS and USV customers.



Advantages

- Scalability: Deploy once, manage unmanned vehicles (UXVs) anywhere on the network, anywhere, anytime, through a common web interface.
- Performance: Designed for multi-vehicle experience, proven for double-digit simultaneous connections, with minimal operator.
- Intuitive User Interface: Streamlined and user-focused design for simplified mission planning, monitoring and analysis.
- Cross-Domain Capability: Unified platform for managing diverse unmanned vessel platforms across different operational environments.
- Comprehensive UXV Management: Allin-one suite covering vehicle configuration, mission planning, real-time multi-vehicle monitoring, communication management and post-mission analysis (PMA).
- Enhanced Situation Awareness: Provides operators with a clear and consolidated view of mission-critical data, user role management and higher echelon data exchange.
- Centralized Data Management: Facilitates efficient data storage, retrieval and rapid analysis for improved mission outcomes.
- Field-Proven Reliability: Backed by more than 20 years of development and rigorous testing for robust, trusted performance.



HII is a global, all-domain defense provider. HII's mission is to deliver the world's most powerful ships and all-domain solutions in service of the nation, creating the advantage for our customers to protect peace and freedom around the world. As the nation's largest military shipbuilder, and with a more than 135-year history of advancing U.S. national security, HII delivers critical capabilities extending from ships to unmanned systems, cyber, ISR, AI/ML and synthetic training. Headquartered in Virginia, HII's workforce is 44,000 strong. For more information, visit: HII.com.



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Features

- Web-based architecture, Software as a Service (SAAS) architecture, deploy once access UxVs anywhere with a roles-based user authentication service.
- Intuitive graphical user interface (GUI) design based on Google's "material design", built with operators in-the-loop, while also providing visual theme configurations including a "night mode"
- Third-party open interface, allowing integrators and external user interfaces
- Extensible platforms API, allows operators to redefine their existing vehicle features
- Support for REMUS UUV platforms, HII Odyssey-based USVs, UMAA-compliant vehicles and provides HII's Odyssey SIM configuration and management.
- Data management for secure storage and real-time or post-mission analysis.

- Plug-and-play design compatible with customer or third-party sensors, payloads, algorithms and interfaces.
- Odyssey Atlas Integration which provides a unified service to manage and view any number and type of nautical chart, tile or map over a single API. Able to view side-scan data, charting formats including ENC, RNC, DNC, GeoTiff, KAP, MBTILES and much more.
- Adheres to open architecture standards, including Unmanned Maritime Autonomy Architecture (UMAA), Robot Operating System (ROS), and Data Distribution Service (DDS).with customer or third-party sensors, payloads, algorithms and interfaces.
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