



**iSPACE**  
intelligentSPACE

# intelligentSPACE

Lockheed Martin's iSPACE provides space capabilities via commercial and/or government optical, radar, and RF sensor observations to support legacy, current, and future Space Domain Awareness and Space Command, Control, and Battle Management Capabilities. iSPACE has now been deployed operationally in unclassified and classified settings domestically and internationally. It seamlessly integrates and highly automates real-time Catalog Management, Sensor Planning & Tasking and Indications & Warning capabilities.

## iSPACE USAGE

*iSPACE is used by customers for activities such as:*

- United States SDA enhancements through the use of commercial sensors
- European SSA/SDA Cooperation
- Exploration and definition of Future Space Acquisition Requirements for Australian SDA capabilities
- USSTRATCOM (Global Sentential 2017-2019) Multi-Nation Space SSA/SDA cooperation exercises

Capability enhancements are continuously being implemented and integrated into the iSpace product to meet the customer's needs and missions.



\* [e.g. UDL, UCI, JSON, XML, SOAP, REST, Legacy, Files]. New formats/protocols easily accommodated

## KEY FEATURES

<b>Sensor Processing</b> <ul style="list-style-type: none"> <li>• Over 850 commercial sensors and SSN sensors</li> <li>• Processes measurements and/or observations</li> <li>• Ingests Radar, Optical, Passive-RF, and other sensor</li> <li>• Provides sensor availability, trackability, OPSCAP</li> <li>• Add sensors dynamically</li> <li>• Edit sensor attributes</li> </ul>	<b>Event Processing</b> <ul style="list-style-type: none"> <li>• Detects Maneuvers, Conjunctions, Critical Assets at Risk, DA-ASAT, DC Failures, Decay, Jamming, Launches, Missed Passes, Pattern-of-Life Threshold, Proximity, etc.</li> <li>• One-Click "actioning" optimizes display for operator actions</li> </ul>
<b>Catalog Management</b> <ul style="list-style-type: none"> <li>• Maintains a catalog of RSOs &amp; Uncorrelated Tracks</li> <li>• Performs Differential Correction in Near Real-Time</li> <li>• Auto Differential Correction using SP &amp; GP</li> <li>• Auto Conjunction Assessment on all objects</li> <li>• Ingests Space Catalog to enable association</li> </ul>	<b>Object Characterization</b> <ul style="list-style-type: none"> <li>• Auto Pattern-Of-Life Alerts (RCS, VMag, Station Keeping, RF characterization)</li> <li>• Current and historical orbital states</li> <li>• Many Feature data Graphs: RCS, Vmag, Spin, Stability, Others ....</li> </ul>
<b>Sensor Tasking</b> <ul style="list-style-type: none"> <li>• Multi-COA Integrated Sensor Support Plans that optimize use of sensors for prioritized tasks</li> <li>• Auto Tasking Policies triggering off Space Events &amp; Specific Satellites</li> <li>• Effect-Based Tasking (accuracy, custody, anchored search, characterization, area search)</li> <li>• Real-Time Tasking and Status</li> </ul>	<b>Threat/Support Detect</b> <ul style="list-style-type: none"> <li>• Uses Orbital Dynamics &amp; Heuristics-Multi-Hyp Processing to Assess Threats</li> <li>• Ground-on-Space, Space-on-Space &amp; Space-on-Ground Support/Threat</li> <li>• Evidential, Temporal, and Spatial threat information</li> </ul>
<b>Visualization</b> <ul style="list-style-type: none"> <li>• Perspectives &amp; RBAC to support common UDDP across echelons</li> <li>• Real-time Updates / Drill Downs</li> <li>• Drag/Drop, Real/Sim Time</li> <li>• Designed to maximize operational tempo while minimizing work load</li> </ul>	<b>Scenario Generation</b> <ul style="list-style-type: none"> <li>• Rapidly define scenarios from real/ synthetic data</li> <li>• Full exercise environment</li> <li>• Supports multi-echelon</li> <li>• Contains generic sensor(s) sim for full interactivity during exercises</li> </ul>

iSPACE Provides Substantial Capabilities and Continues to Rapidly Evolve



For More Information Contact:

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