

AIMES™ provides motion imagery analysts with the tools they need to exploit and report on vital intelligence

Leidos delivers a Motion Imagery (MI) system that receives, processes, and archives full motion video (FMV) data. Built on a foundation of more than two decades of operational experience, AIMES™ is both a battle-proven MI solution and a critical enabler for intelligence enterprises. Leidos designed and implemented the AIMES™ software suite in close alignment with the Department of Defense (DoD) Motion Imagery Standards Board (MISB) for processing and distribution of MI data

OUR APPROACH

AIMES™ 2 is the next generation MI processing, exploitation, and dissemination (PED) suite and features an “integration by design” architecture. AIMES™ provides customers with the ability to create rich interactions and highly tailored workflows within their existing software ecosystems through a JavaScript API and a robust broker-based messaging backend. This open architecture empowers our customer to avoid the vendor lock-in inherent in “end-to-end” platforms, freeing them instead to build their own custom solutions using true best-of-breed components.



AIMES Exploit™ 2 was designed with a dynamic interface using dockable windows to provide analysts with the ability to customize their workspace. This example shows AIMES Exploit™ running a Video Viewer, GEOINT Viewer, PICTE Status Monitor, Image Viewer, Web Browser, and a video configuration menu.



AIMES Exploit™ 2 offers the ability to connect to UNICORN FTK and UNICORN Chat Monitor to enhance and simplify the MI workflow process. This example shows AIMES Exploit™ running a Video Viewer, UNICORN FTK, UNICORN Chat Monitor, and Search query from AIMES Server™.

BENEFITS

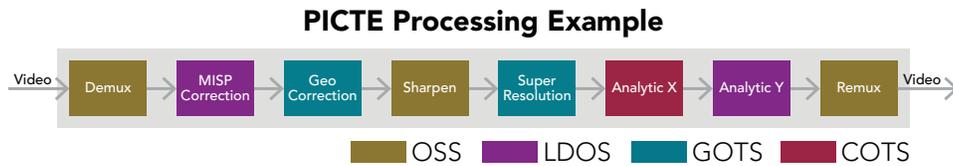
- › Virtualization Support
- › Scales from a single site to an entire enterprise
- › Seamlessly integrates with third-party tools
- › Archives data and intelligence products for later use
- › MISB 0102, 0601 and NATO STANAG 4609 standards compliant
- › Experienced on-call support team available 24x7x365

KEY FEATURES

- › H.264 (MPEG-4 Part 10) and H.265 (MPEG-H Part 2) HD, 4K support
- › HTML5 and MPEG-DASH support
- › Enhanced GEOINT Viewer with third-party WMS support
- › Super-resolution image upscaling
- › VMTI Support
- › Real-time ingestion of multiple live feeds
- › Work Tray to facilitate workflow
- › Collaborative desktop environment
- › Intelligence product template generation
- › Wide-area persistent surveillance
- › Single integrated work environment with real-time tools and alerts

DYNAMIC VIDEO PROCESSING FRAMEWORK

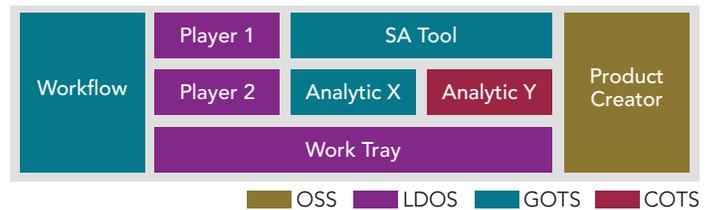
AIMES™ 2 video core framework enables video multiplexing, transcoding, data conditioning, and advanced analytical processing that allows dynamic configuration of an end-to-end video processing flow that can be used to transform a stream before rebroadcast, system ingest, or within the end user's client environment (thin or thick). This approach enables customers to configure their own custom video processing stream that can leverage one or more Leidos or third-party algorithms to rapidly integrate new sensors or analytics.



New customer-configurable video processing pipeline allows users to dynamically tailor processing flows inside AIMES™ and bring their own third-party analytic algorithms, transcoders through a plug and play framework..

ENTERPRISE-WIDE SCALABILITY

AIMES Server™ 2 applies storage abstractions and distributed database technologies (S3, NoSQL) allowing customers to dynamically add and remove server nodes and storage when their system grows, experiences a failover condition, or connects/disconnects from a larger enterprise infrastructure. This flexible architecture enables customers to scale their cloud-based, virtualized, or bare metal infrastructures while maintaining the seamless “one-stop” discovery and playback experience that intelligence analysts need.



AIMES™ 2 enables customers to display enterprise-hosted applications (e.g., workflow or system administration tools) as custom panels within the AIMES Exploit™ interface, while a new application program interface (API) allows those widgets to dynamically pull MI metadata or manipulate video playback.

NEXT GENERATION CLIENT

AIMES Exploit™ 2 is a flexible and extensible 64-bit application that enables third-party web-based capabilities to interact with the core GPU-enabled application through a Chromium Embedded Framework (CEF) JavaScript API/SDK. Customers can rapidly integrate existing capabilities from their current mission environment or even create new applications that leverage the AIMES™ 2 advanced MI processing capabilities.

AIMES Exploit™ 2 brings enhanced situational awareness tools to the customer with a new Geospatial Intelligence (GEOINT) Viewer and Video Moving Target Indicator (VMTI) tracking tool. Our new GEOINT Viewer enables third-party Web Map Service (WMS) support, allows users to see tracks, stare-point, and data layers that brings near-real-time (NRT) context to the mission. Our new VMTI tool parses and visualizes MISB 903.4 object detection data enabling Activity Based Intelligence (ABI) and Structured Observation Management (SOM) analysis and reporting paradigms.

AIMES Exploit™ 2 stream diagnostic capability is a local and remote notification, monitoring, and troubleshooting tool that informs users in real-time of stream degradations which may negatively impact video appearance and exploitation suitability, and records this information for later analysis. Rather than simply reacting to feed problems, AIMES Exploit™ 2 proactively notifies users of problems with the video stream and captures the information where it can be viewed forensically by system administrators.

FOR MORE INFORMATION

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