



# Odin™ AMDA

## Automation & Efficiencies

### Acquisition Lifecycle Management



Illumination Works' Odin Acquisition Milestone Documentation Automation (Odin-AMDA) is an artificial intelligence (AI)-driven tool delivering a powerful, time-efficient approach to bringing automation and efficiencies to acquisition lifecycle management.



Odin-AMDA streamlines the curation, crosslinking, and version tracking of complex milestone documentation and auto-populates milestone reports leveraging generative AI and natural language processing (NLP) with a human-in-the-loop approval process.

#### AI-Powered Document Generation

Connected source data dynamically populates document sections saving thousands of labor hours associated with document generation

#### Automation Efficiencies

Document curation and version tracking system organizes documentation and removes data silos

#### Document Crosslinking

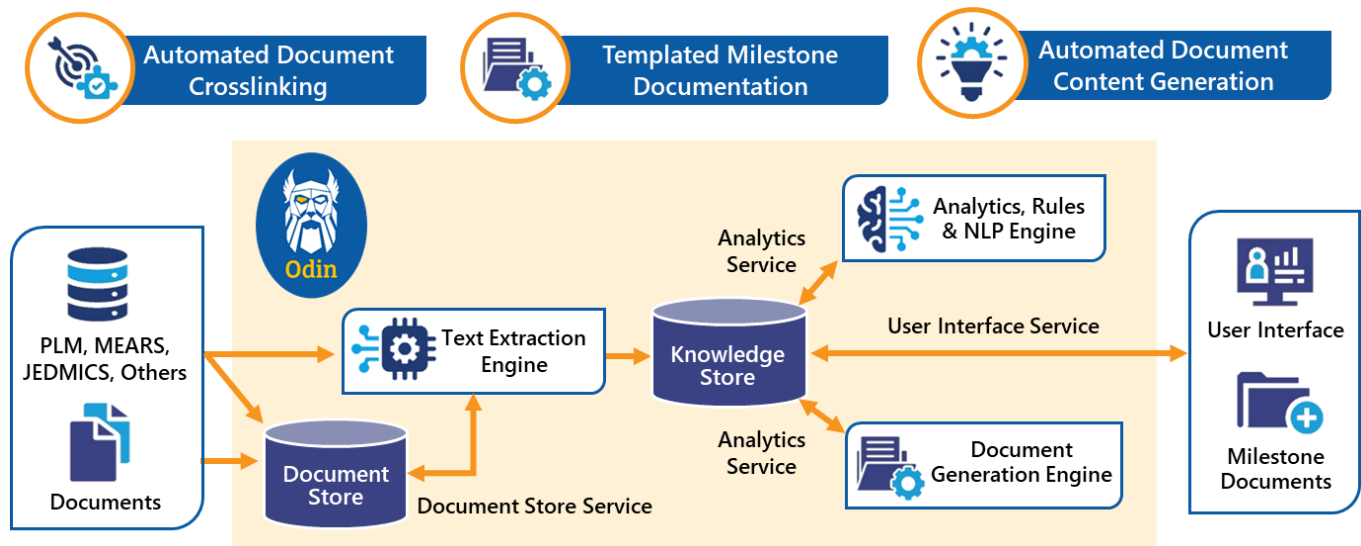
AI technology relates contractual deliverables and other input data to relevant milestone documents sections to ease report building

#### Intelligent Querying System

Enables users to ask questions in chat-like interface and receive answers coupled with linked sources

## Modular, Platform Agnostic & Cloud-Native Architecture

With direct connections between source data and relevant lifecycle reports and activities, real-time updates ensure critical lifecycle documents remain up to date and progress toward goals is clearly understood.



Odin-AMDA uses the latest large language model (LLM) technology implemented in a trusted architecture to improve the quality of generated text, making the tool well-suited for secure deployment in Department of Defense (DoD) cloud environments



## Challenges with Current Process

- Significant manual effort
- Input data in multiple locations and formats; functional data silos
- Data linkages are not codified
- Reports/plans and their source data are disconnected
- Program status toward milestone goals is unclear
- Sustainment risks



## Future State with AI Automation

- ✓ Put tool in the hands of PMO personnel
- ✓ Data curated, crosslinked, and version controlled
- ✓ Starter text to speed document creation
- ✓ Expedite analysis and improve accuracy
- ✓ Clear, transparent understanding of status toward milestone goals
- ✓ Empower decision makers

**Odin-AMDA empowers program management with efficiencies to save time and costs**

### Curate Content

Curate acquisition milestone documents, contract deliverables and other inputs for milestone reports/plans and lifecycle entrance/exit criteria with 94%+ accuracy

### Crosslink Data Sources

Automate crosslinking of contractual deliverables and other data sources relevant to sections of milestone reports/plans as well as entrance/exit criteria for lifecycle activities with NLP algorithm that is 99% accurate in identifying sources for LCSP

### Speed Information Retrieval

Ensure speedy information retrieval and understanding of missing data required for lifecycle activities/documents



### Generate Documentation

Automate generation of relevant starter text for reports/plans within the acquisition lifecycle, with focus on the Life Cycle Sustainment Plan (LCSP) but easy extension to other milestone documents

### Visualize Progress

Interactive UI with connected backend serves as an AI-enabled support tool for programs to visualize progress toward milestone goals and ease document generation

### Ask Questions

GenAI-infused querying system that allows users to conversationally query the system leveraging intelligent retrieval augmented generation (RAG) technology with 90% accuracy

## Case Study: Acquisition Milestone Documentation Automation

Illumination Works is automatically curating lifecycle documents and auto-populating sections of the LCSP for the Air Force with focus on the T-7A Red Hawk program

- Source documents include vendor deliverables, program documents, prior LCSP, and LCSP sectional instructions
- 99% accuracy in automated document crosslinking in ground truth dataset
- Comparisons complete in seconds, greatly reducing manual lift to identify relevant sources for authoring the LCSP
- Generative AI models use crosslinked sections to generate text for the LCSP
- Technical Readiness Level (TRL)-6

## Reach out today!



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