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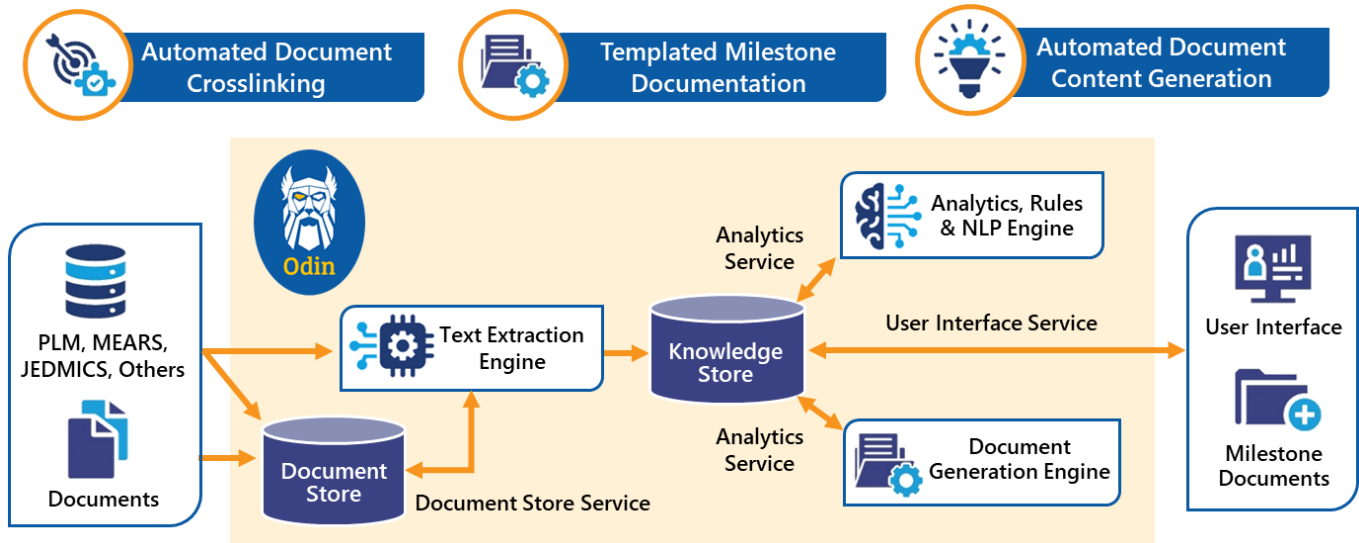
■ Document Crosslinking
AI technology relates contractual deliverables and other input data to relevant milestone documents sections to ease report building

■ 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
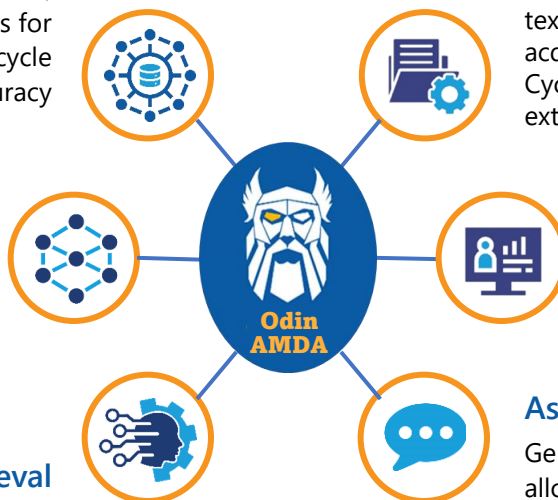
Curate Content

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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