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SELF-STUDY ADDENDUM

SL 5H



Self-Study Addendum — SL 5H Advanced AI Engineer

Palantir Developers Reference Library

HEADQUARTERS
UNITED STATES ARMY EUROPE AND AFRICA
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SELF-STUDY ADDENDUM — SL 5H ADVANCED AI ENGINEER

PALANTIR DEVELOPERS REFERENCE LIBRARY

NOT REQUIRED FOR QUALIFICATION. This addendum provides curated references from the Palantir Developers YouTube channel ([@PalantirDevelopers](#)) for personnel who want to deepen their MSS technical skills beyond the core curriculum. All content is publicly available.

Companion Resource — Ontologize Channel: [@Ontologize](#) — Official Palantir training partner. 68 indexed video walkthroughs covering Foundry and AIP features. Full catalog with TM cross-references: [source_material/ontologize_youtube/README.md](#)

HOW TO USE THIS ADDENDUM

SL 5H builds on SL 4H. This addendum covers both the SL 4H foundational video library and the advanced SL 5H additions. If you have already reviewed the SL 4H addendum, start at Group 10 for content specific to this course. Videos marked in the TM with inline NOTE callouts are flagged here for easy cross-reference.

NEW DOCTRINE REFERENCES (MARCH 2026)

The following doctrine sections were added to TM-50H this session. Review after the corresponding TM chapter:

- **ADP 3-13 AI/ML at Enterprise Scale** — Doctrinal framing for enterprise AI systems in operational information environments. See TM-50H concepts guide.
- **PED-to-Pipeline Mapping (Multi-Source)** — Multi-source PED integration mapped to enterprise RAG and multi-agent architectures. See TM-50H concepts guide.
- **UDRA Governance (Enterprise)** — UDRA governance framework applied to enterprise AI data access, classification handling, and cross-domain controls. See TM-50H concepts guide.

GROUP 1 — AIP PLATFORM AND ARCHITECTURE OVERVIEW

Video	What it Covers	Relevant TM Chapter
<i>Launching Build with AIP</i>	Introduction to the Build with AIP initiative and overall AIP platform direction	Background
<i>Product Launch: AI FDE DevCon 3</i>	AI-driven Feature Development Environment — platform toolchain for code-assisted AI product development	Background
<i>Product Launch: AI FDE DevCon 5</i>	Updated AI FDE capabilities and developer experience enhancements	Background
<i>You Suck at AIP</i>	Common AIP engineering mistakes and how to avoid them — blunt, practical	Background
<i>Building Enterprise Autonomy with Shyam Sankar, CTO (inline NOTE in TM)</i>	Strategic framing on enterprise AI autonomy from Palantir's CTO	Ch 8

GROUP 2 — RAG ARCHITECTURE AND RETRIEVAL

Video	What it Covers	Relevant TM Chapter
<i>AIP with Jeg: Adding RAG to a Simple Notes Application</i>	Step-by-step RAG pipeline build — foundational reference from SL 4H	Ch 4
<i>Building with Palantir AIP: Logic Tools for RAG/OAG</i>	AIP Logic tools for RAG and Ontology-Augmented Generation	Ch 4
<i>Building with Palantir AIP: Data Tools for RAG/OAG</i>	Data preparation and transform tools for RAG/OAG pipelines	Ch 4
<i>Build with AIP: Semantic Search</i>	Semantic search within AIP	Ch 4
<i>Building with Palantir AIP: Semantic Search</i>	AIP semantic search implementation	Ch 4
<i>Building with Palantir AIP: Advanced Search</i>	Advanced retrieval patterns beyond basic semantic search	Ch 4

Video	What it Covers	Relevant TM Chapter
<i>Building with Palantir AIP: Ontology Software Development Kit</i>	OSDK integration for Ontology-grounded AI pipelines	Ch 4

GROUP 3 — AIP EVALS, TESTING, AND AUTOMATION

Video	What it Covers	Relevant TM Chapter
<i>Palantir AIP Evals Feedback to Fix</i>	AIP Evals — structured feedback loops for AI output quality improvement	Ch 5, Ch 6
<i>Chad & Colton Operationalizing AI with Palantir AIP Evals</i>	Operationalizing eval-driven automation	Ch 5, Ch 6
<i>Product Launch: Eval-Driven Automation in AIP DevCon 2</i>	Product-level introduction to eval-driven automation	Ch 5, Ch 6

GROUP 4 — AGENT STUDIO AND AGENT ARCHITECTURE

Video	What it Covers	Relevant TM Chapter
<i>Build with AIP: AIP Assist</i>	AIP Assist agent capabilities and configuration	Ch 2
<i>Product Launch: AIP Agents and Ontology-MCP DevCon 4</i>	AIP Agent integration with Ontology-MCP for Ontology-aware agent tool use	Ch 2
<i>AIP Agents x HelmGuard AI: Function-Backed Agent Context DevCon 2</i>	Function-backed context in AIP agents	Ch 2
<i>ElevenLabs: Ontology-Driven Voice Agents DevCon 2</i>	Ontology-driven agent design through a voice agent use case	Ch 2
<i>AIP Logic x AT&T for Automating Operational Support DevCon 2</i>	Real-world AIP Logic automation at scale	Ch 2

GROUP 5 — PRODUCTION DEPLOYMENT, OBSERVABILITY, AND SECURITY

Video	What it Covers	Relevant TM Chapter
<i>Chad & Bennett Observability with Palantir AIP</i>	Monitoring and observability tooling for AIP workflows in production	Ch 6
<i>Chad & Arnav Privacy & Security with Palantir AIP</i>	Privacy controls, data handling, and security configuration	Ch 5, Ch 8
<i>Product Launch: AIP Deployment at Scale DevCon 3</i>	Platform-level AIP deployment for enterprise-scale production systems	Ch 6, Ch 8
<i>Product Launch: DevOps for AI Products DevCon 2 (inline NOTE in TM)</i>	DevOps practices for AI product delivery — CI/CD, monitoring, governance gates	Ch 6
<i>Deep Dive: Code-Based AI Development with Ontology</i>	Python-based AI development using the Ontology as the data layer	Ch 4

GROUP 6 — COMPUTE MODULES AND STREAMING PIPELINES

Video	What it Covers	Relevant TM Chapter
<i>AIP with Jeg: Building a Streaming Ingestor with Compute Modules</i>	Building a real-time streaming ingestor using Compute Modules	Ch 4
<i>Build with AIP: Compute Modules</i>	Compute Modules capabilities for AI data pipelines	Ch 4

GROUP 7 — AUTOMATION AND PROCESS MINING

Video	What it Covers	Relevant TM Chapter
<i>Product Launch: Autopilot DevCon 3</i>	Autopilot — automated AI-driven workflow execution	Ch 2, Ch 8

Video	What it Covers	Relevant TM Chapter
<i>Product Launch: Enterprise Automation DevCon 5 (inline NOTE in TM)</i>	Enterprise automation platform capabilities across organizational boundaries	Ch 8
<i>Building with Palantir AIP: AI-Powered Process Mining</i>	AI-driven analysis and optimization of operational processes	Ch 8
<i>Chad & Craig Data Migrations with AI FDE</i>	Using AI FDE to accelerate data migration and transformation	Background
<i>Build with AIP: ERP HyperAuto</i>	AIP-powered automation applied to ERP systems	Ch 8

GROUP 8 — DOMAIN AND VERTICAL USE CASES

Video	What it Covers	Relevant TM Chapter
<i>Building with Palantir AIP: Customer Service Engine</i>	End-to-end AI customer service engine — agent design, tool use, human escalation	Ch 2
<i>Build with AIP Customer Service Engine</i>	Alternative walkthrough of the customer service engine use case	Ch 2
<i>Building with Palantir AIP: Procurement</i>	AI-powered procurement automation	Ch 8
<i>Chad & Agathe How Palantir Powers AI Automation Across Procurement</i>	Procurement AI automation at scale	Ch 8
<i>Chad & Chris Tariff Savings and Compliance through Palantir AIP</i>	AIP-driven compliance and cost analysis	Ch 8
<i>AIP for Piping and Instrumentation Diagram (P&ID) Analysis</i>	Vision-capable AI applied to technical diagram analysis	Ch 7
<i>AIP for Medical Record Management Tackling VHA Healthcare Provider Burnout</i>	AIP applied to high-stakes document analysis with human review requirements	Ch 5, Ch 8

GROUP 9 — AIP NOW (LIVE DEMONSTRATIONS)

Video	What it Covers	Relevant TM Chapter
<i>AIP Now: AIP Response with Vision</i>	Live demo of vision-capable AIP response — multi-modal AI inference	Ch 7
<i>AIP Now: Connected Construction</i>	AIP applied to real-time operations monitoring	Ch 8
<i>AIP Now: Dynamic Scheduling</i>	AIP-driven dynamic scheduling — optimization with AI in the loop	Ch 8
<i>AIP Now: Material Harmonization</i>	AIP applied to supply chain material harmonization	Ch 8

GROUP 10 — ADVANCED MULTI-AGENT AND ENTERPRISE AI (SL 5H ADDITIONS)

Video	What it Covers	Relevant TM Chapter
<i>Product Launch: Hivemind DevCon 5 (inline NOTE in TM)</i>	Hivemind — Palantir's multi-agent coordination framework for enterprise AI	Ch 2
<i>Deep Dive: Advanced Agent Reasoning with Knowledge Nodes x First Solar DevCon 4 (inline NOTE in TM)</i>	Advanced multi-agent reasoning using Knowledge Nodes for grounded, knowledge-backed decisions	Ch 2
<i>Building Enterprise Autonomy with Shyam Sankar, CTO (inline NOTE in TM)</i>	Strategic framing on enterprise AI autonomy from Palantir's CTO	Ch 8
<i>Product Launch: Enterprise Automation DevCon 5 (inline NOTE in TM)</i>	Enterprise automation platform capabilities at scale across organizational boundaries	Ch 8
<i>Product Launch: DevOps for AI Products DevCon 2 (inline NOTE in TM)</i>	DevOps practices for AI product delivery — CI/CD, monitoring, governance	Ch 6
<i>Akshay Krishnaswamy Opening Remarks DevCon 4</i>	Platform strategy and enterprise AI direction from Palantir's CEO	Ch 8

Video	What it Covers	Relevant TM Chapter
<i>Akshay Krishnaswamy Opening Remarks DevCon 5</i>	Updated platform strategy and enterprise AI direction	Ch 8

GROUP 11 — ADVANCED PLATFORM ARCHITECTURE (SL 5H ADDITIONS)

Video	What it Covers	Relevant TM Chapter
<i>Deep Dive: Advanced Ontology DevCon 5</i>	Advanced Ontology design patterns — directly relevant to Ontology-backed shared state and multi-agent context design	Ch 2, Ch 4
<i>Deep Dive: Interoperability at Scale with the Multimodal Data Plane DevCon 5</i>	Multi-modal data architecture at enterprise scale — relevant to multi-modal AI system design	Ch 7
<i>Product Launch: Developer Experience DevCon 5</i>	Developer tooling and platform experience improvements — useful for Code Workspaces and pipeline development	Background

USAREUR-AF Operational Data Team