SELF-STUDY ADDENDUM

SL 4G

USAREUR-AF

Self-Study Addendum — SL 4G: Operations Research and Systems Analysis

Palantir Developers Reference Library

HEADQUARTERS
UNITED STATES ARMY EUROPE AND AFRICA
(USAREUR-AF)
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SELF-STUDY ADDENDUM — SL 4G: OPERATIONS RESEARCH AND SYSTEMS ANALYSIS

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

Videos are grouped by topic and ordered from foundational to advanced. Start with the group most relevant to your current work. These are not assigned — use what helps.

NEW DOCTRINE REFERENCES (MARCH 2026)

The following doctrine sections were added to TM-40G this session. Review after the corresponding TM chapter:

- **MOE/MOP Assessment Framework** — Measures of effectiveness and measures of performance for ORSA analytical products. See TM-40G concepts guide.
- **CARVER Scoring** — Target/risk prioritization methodology applied to analytical product design. See TM-40G concepts guide.
- **Force Ratio Computation** — Standardized force ratio calculations from MSS data for COA comparison. See TM-40G concepts guide.

GROUP 1 — QUIVER: BUILDING AND NAVIGATING ANALYSES

Video	What it Covers	Relevant TM Chapter
Quiver | How to Build an Analysis in Palantir Foundry	End-to-end walkthrough of creating a Quiver workbook from scratch: connecting data, building charts, publishing. Start here before your first Quiver build.	Ch 8
Quiver | How to Perform Ad-Hoc Aggregations	Performing on-the-fly group-by aggregations (sum, count, percentile) without modifying underlying datasets or pipelines. Useful for exploratory rollup of simulation outputs.	Ch 8
Quiver | How to Navigate the Dependency Graph and Expand your Analysis	Using Quiver's dependency graph to trace upstream data lineage, diagnose broken chart connections, and extend an analysis by branching from existing nodes.	Ch 8
Quiver | How to Use Parameters in Your Analysis	Creating and wiring parameter widgets (dropdowns, date pickers) to drive dynamic filtering across charts in a Quiver workbook.	Ch 8
Quiver | Calculating KPIs for Time Series Data in Palantir Foundry	Computing and displaying KPI metrics from time-series data including rolling aggregations and threshold-based indicators. Directly applicable to readiness forecast dashboards.	Ch 4, Ch 8

GROUP 2 — CONTOUR: DASHBOARD CONSTRUCTION

Video	What it Covers	Relevant TM Chapter
Contour | Building a Year Over Year Sales Dashboard	Structuring a Contour workbook for period-over-period comparison with calculated delta fields, reference lines, and executive-ready layout. The YoY pattern applies directly to readiness trend and COA comparison products.	Ch 8

GROUP 3 — PLATFORM ARCHITECTURE AND DATA FOUNDATIONS

Video	What it Covers	Relevant TM Chapter
How Palantir Integrates with Your Current Data Systems	Overview of how Foundry/MSS connects to existing Army data systems — relevant context for understanding how operational feeds (DRRS, logistics, training) flow into the ORSA data layer.	Ch 2
Why do I need Palantir if I already have a cloud data platform?	Addresses the question of what Foundry provides beyond standard data warehouse/cloud analytics capabilities — useful framing for ORSA analysts new to MSS.	Ch 1, Ch 2
Palantir Ontology Overview	High-level introduction to the Foundry Ontology: object types, links, and the operational data model that ORSA analytical products consume.	Ch 2
Foundry Reference Project | Data Pipeline	Walkthrough of a reference data pipeline implementation in Foundry — covers Pipeline Builder patterns, dataset structure, and transform conventions that feed Code Workspace analysis.	Ch 2
Foundry Reference Project | Ontology	Reference implementation of a Foundry Ontology — object types, property definitions, link rules, and how the Ontology connects to downstream Workshop and analytical products.	Ch 2
Platform APIs x SLB for Digital Sustainability	Demonstrates using Foundry Platform APIs to integrate external data systems and automate workflows — applicable to ORSA analysts coordinating with SL 4L/SL 4H for productionizing analytical pipelines.	Ch 2

GROUP 4 — AI AND ADVANCED WORKFLOWS

Video	What it Covers	Relevant TM Chapter
Applied AI: Scaling AI Workflows and Task Execution with AIP	How Palantir AIP orchestrates multi-step analytical workflows and integrates AI-generated outputs into operational decision products — relevant as ORSA products increasingly incorporate automated synthesis layers.	Ch 8
Deep Dive: Optimizing Data Pipelines with Iceberg Tables	Foundry Iceberg table format and lightweight compute for high-volume pipeline optimization — applicable when the	Ch 2

Video	What it Covers	Relevant TM Chapter
*and Lightweight Compute	DevCon 4*	ORSA data layer grows to include high-frequency readiness or logistics feeds.	
*Deep Dive: Advanced Ontology	DevCon 5*	Advanced Ontology patterns including object type hierarchies and action types — relevant for ORSA analysts coordinating with SL 4H / SL 3 practitioners on the data model supporting cross-domain analysis.	Ch 2
Anduril: Ontology: Launchpad for Operations	Case study on operationalizing the Palantir Ontology as the semantic layer for a complex operational environment — illustrates how a well-designed Ontology enables rapid analytical product development.	Ch 1, Ch 2

USAREUR-AF Operational Data Team