COURSE SYLLABUS

SL 4D

USAREUR-AF

COURSE SYLLABUS — SL 4D: SUSTAINMENT WARFIGHTING FUNCTION

Maven Smart System (MSS) — USAREUR-AF

HEADQUARTERS
UNITED STATES ARMY EUROPE AND AFRICA
(USAREUR-AF)
Wiesbaden, Germany

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MAVEN SMART SYSTEM (MSS) — USAREUR-AF

Field	Detail
Level	SL 4D — Sustainment WFF Track
Duration	3 days (24 hours)
Prerequisites	SL 1, SL 2, SL 3 (Go evaluations on file); CONCEPTS_GUIDE_TM40D_SUSTAINMENT (required reading before Day 1)
Audience	G4/S4 staff, FSB/BSB logistics officers, supply chain managers, property book officers, and transportation officers at BCT echelon and below
Format	Instructor-led seminar + demonstration + tabletop exercise + practical evaluation
Location	MSS Training Environment (standard user access sufficient)

BLUF: SL 4D teaches G4/S4 staff to integrate MSS into sustainment workflows — maintaining logistics visibility, integrating LOGSTAT data, building supply chain analytics, and tracking readiness status. Course applies MSS capabilities to processes in ADP 4-0, FM 4-0, and ATP 4-0.1. No coding or pipeline experience required.

LEARNING OBJECTIVES

#	Objective
1	Configure logistics data layers on the COP — readiness status overlays, supply class distribution, transportation network displays — with data-as-of timestamps
2	Build readiness dashboards integrating LOGSTAT data with explicit data currency indicators distinguishing current from delayed reporting

#	Objective
3	Configure sustainment-relevant CCIR alerts — readiness-below-threshold triggers and critical supply shortage notifications
4	Build a supply chain status product for the sustainment synchronization brief: unit readiness summary, supply class status by supported element, distribution status
5	Verify LOGSTAT pipeline currency; identify reporting unit gaps, delayed submissions, and data source failures
6	Identify and respond to LOGSTAT data staleness affecting readiness or supply displays before a sustainment synchronization brief
7	Apply OPSEC procedures to sustainment products: classification markings, handling instructions for readiness data, distribution controls
8	Distinguish reported readiness (what LOGSTAT submissions show) from estimated readiness (S4 calculation when reporting is delayed or incomplete) and communicate that distinction explicitly

PRE-COURSE CHECKLIST

Complete **5+ duty days before Day 1:**

- ☐ Read CONCEPTS_GUIDE_TM40D_SUSTAINMENT in full — Day 1 builds directly on it
- ☐ Confirm MSS training account is active
- ☐ Bring your unit's current LOGSTAT format or a recent sustainment sync slide deck — used as a reference during the Day 3 tabletop
- ☐ Review your unit's readiness reporting thresholds (C1–C4 equivalents or local standards) — Day 1 asks you to configure them as CCIR thresholds in MSS

DAILY SCHEDULE

Day 1 — Logistics Data Layers, LOGSTAT Pipeline, and Readiness Display

Time	Block	Method	Content
0800–0900	1	Brief	Doctrinal context: ADP 4-0, FM 4-0; how MSS supports sustainment visibility; role of logistics data integration in the operations center

Time	Block	Method	Content
0900–1100	2	Demo/Lab	Logistics COP configuration: readiness overlays, supply status layers, transportation network displays; data sources and display standards by echelon
1100–1115	—	Break	
1115–1200	3	Lab	LOGSTAT pipeline verification: reading submission timestamps, identifying reporting gaps, tracing data sources, distinguishing current from stale LOGSTAT data
1200–1300	—	Lunch	
1300–1500	4	Lab	CCIR configuration for sustainment: translating readiness thresholds and supply CCIR guidance into MSS alert configuration; setting notification routing for S4 and XO
1500–1515	—	Break	
1515–1700	5	Exercise	CCIR drill: given sustainment CCIRs and a sample LOGSTAT dataset, configure 3 sustainment CCIRs and verify they trigger correctly

Evening reading: TM-40D, Chapter 2 (Supply Chain Management in MSS) — data currency indicators and what constitutes a valid vs. stale LOGSTAT submission.

Day 2 — Supply Analytics, Distribution Data, and Sustainment CCIR

Time	Block	Method	Content
0800–0830	—	Review	Day 1 questions; CCIR configuration review — common threshold configuration errors for readiness data
0830–1030	6	Demo/Lab	Supply chain status product build: supply class status display, linking to LOGSTAT feeds, coding shortfall and surplus status by unit
1030–1045	—	Break	
1045–1200	7	Lab	Distribution data layers: transportation route overlays, convoy status feeds, distribution node displays; tracking movement of supply classes
1200–1300	—	Lunch	

Time	Block	Method	Content
1300–1500	8	Demo/Lab	Readiness dashboard build: integrated readiness display combining LOGSTAT data with data-as-of timestamps; format for sustainment sync and BUA
1500–1515	—	Break	
1515–1700	9	Exercise	Sustainment sync product drill: build readiness summary and supply chain status product from a provided LOGSTAT dataset; evaluator reviews for timestamp placement, reported vs. estimated readiness distinction, and OPSEC marking

Evening reading: TM-40D, Chapter 4 (Transportation and Distribution Operations) and Chapter 9 (Echelon-Specific Sustainment Operations).

Day 3 — Reporting Gaps, Degraded Procedures, and Practical Exercise

Time	Block	Method	Content
0800–0900	10	Brief	LOGSTAT reporting gaps: procedures when a subordinate unit's feed stops updating; estimating readiness with stale data; risk communication to XO and CDR
0900–1030	11	Demo/Lab	Degraded LOGSTAT scenarios: running a sustainment sync with partial reporting; manual readiness estimate procedures; OPSEC for incomplete products
1030–1045	—	Break	
1045–1100	12	Brief	Practical exercise scenario brief; product standards checklist review; sustainment sync tabletop ground rules
1100–1200	—	Prep	Practical exercise setup and planning time
1200–1300	—	Lunch	
1300–1700	13	**Eval**	**Practical exercise:** configure logistics COP, build readiness dashboard and supply chain status product, configure sustainment CCIRs, respond to a LOGSTAT data staleness inject, brief findings to evaluator in role as XO

REQUIRED READING

When	Reading
Before Day 1	CONCEPTS_GUIDE_TM40D_SUSTAINMENT (complete)
Day 1 evening	TM-40D, Ch 2 (Supply Chain Management in MSS)
Day 2 evening	TM-40D, Ch 4 (Transportation and Distribution Operations)
Day 2 evening	TM-40D, Ch 9 (Echelon-Specific Sustainment Operations)
Day 3 (review)	TM-40D, Ch 10 (Degraded Operations) — skim before Day 3 brief

PRACTICAL EXERCISE

Scenario: You are the S4 section at a BCT headquarters during a logistics exercise. The XO requires a configured readiness dashboard, supply chain status product, and sustainment CCIRs active before a sustainment synchronization brief in four hours. Mid-exercise, the LOGSTAT reporting feed from one forward support company stops updating.

#	Task
1	Configure logistics COP layers — readiness overlay, supply class status, transportation network — and verify data currency for all LOGSTAT feeds
2	Build a readiness dashboard integrating LOGSTAT data from all subordinate elements, with data-as-of timestamps on every section
3	Configure 3 sustainment CCIRs from the provided commander's guidance card, including a readiness-below-threshold trigger and a critical supply shortage alert
4	Build a supply chain status product formatted for the sustainment synchronization brief, covering all supply classes with current status by supported element
5	Respond to the LOGSTAT feed staleness inject: identify the affected unit, characterize the reporting gap, update products with data caveats, and brief the evaluator on impact and resolution action
6	Apply OPSEC procedures to the final readiness product before simulated distribution

Go standard: Pass 5 of 6 tasks. No-Go on Task 2 (readiness dashboard) or Task 5 (data staleness response) = automatic No-Go regardless of total score.

GO CRITERIA

Task	Hard Standard
Readiness dashboard	Data-as-of timestamps required at the **element level** — a page-level timestamp only fails Task 2
Reported vs. estimated readiness	Product must explicitly identify which unit's readiness is estimated vs. reported when LOGSTAT is delayed — presenting estimated data as current reported data fails
Data staleness inject	Characterize and escalate; do not attempt to restore the LOGSTAT feed. Trainees who attempt feed restoration miss the sustainment sync window

Function-Specific Go Criteria — Sustainment

Criterion	Standard
LOGSTAT data currency	Readiness dashboard must display a "LOGSTAT as of:" timestamp sourced from the pipeline ingestion timestamp — a dashboard without this timestamp fails the LOGSTAT currency element
Reported vs. estimated readiness	Supply chain product must explicitly label estimated figures (those derived from calculations, not direct reports) — unlabeled estimates treated as reported data is a No-Go for data integrity
Sustainment CCIR thresholds	At least one CCIR must be tied to a supply level threshold (days of supply, C-rating, or class of supply percentage) — generic "pipeline failure" alerts do not satisfy the sustainment CCIR requirement

KEY TIPS

Risk	Guidance
CCIR data source	Readiness thresholds connected to the wrong data field (personnel vs. equipment readiness) will not fire correctly — verify the specific CCIR data source carefully
Supply chain product	Know your supply class designations and which LOGSTAT reporting fields correspond to each before Day 2

Risk	Guidance
Timestamps on briefing products	Every readiness number in a briefing product must have a data-as-of timestamp. Build this habit before Day 1: every number → "As of when?"
CCIR troubleshooting	Sustainment CCIRs set to alert on C-rating changes frequently false-trigger when the LOGSTAT feed refreshes and rounds numbers. Use a rolling average or a two-refresh confirmation window rather than a single-value threshold. If the CCIR is triggering every refresh cycle, the threshold is too sensitive to feed noise

ASSOCIATED EXERCISE AND EXAMS

Item	Reference
Practical Exercise	EX_40D (EXERCISE.md + ENVIRONMENT_SETUP.md) — `exercises/EX_40D_sustainment/`
Pre-course exam	EXAM_TM40D_PRE — `exercises/exams/EXAM_TM40D_PRE.md`
Post-course exam	EXAM_TM40D_POST — `exercises/exams/EXAM_TM40D_POST.md`

RELATED WFF TRACKS

SL 4D is one of six WFF tracks. All require SL 1, SL 2, and SL 3 as prerequisites.

Track	WFF	Audience
SL 4A	Intelligence	G2/S2 staff, targeting officers, all-source analysts
SL 4B	Fires	FSOs, FSEs, targeting officers, fires NCOs
SL 4C	Movement & Maneuver	G3/S3 staff, operations officers, maneuver planners
SL 4D	Sustainment	G4/S4 staff, logistics officers, supply chain managers
SL 4E	Protection	FP officers, CBRN officers, provost marshal staff
SL 4F	Mission Command	Battle captains, XOs, CDRs, MC-function staff

Personnel completing multiple WFF tracks do not repeat SL 1, SL 2, or SL 3. Enrollment is independent for each track.

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