



Human Systems Integration (HSI) & the Life Cycle Sustainment Plan (LCSP)

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Agenda

- **Policy**
- **Importance**
- **LCSP V3.0 Outline**
- **HSI-Related Content & Critical Thinking Questions**
- **Summary & Questions**

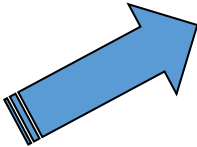


Policy

- **10 USC 4324: Law requires Product Support Managers (PSMs) to develop a comprehensive product support strategy (PSS)**
 - LCSP is most comprehensive & organized way of satisfying requirement.
 - LCSP embodies the PSS & is the “detailed product support plan, including sustainment metrics, risks, costs, & analyses used to deliver the performance-based best value strategy covering the Integrated Product Support (IPS) elements.” *(DoDI 5000.91, Product Support Management for the Adaptive Acquisition Framework.)*
- **DoD 5000.91: Outlines LCSP expectations, update cycles, required info.**
- **LCSP Outline Version 3.0. added Human Systems Integration Plan as a new required appendix**
- **DoDI 5000.95: Addresses HSI planning & procedures, including application across the following domains: Human Factors Engineering (HFE), Personnel, Habitability, Manpower, Training, Safety & Occupational Health (SOH), & Force Protection & Survivability (FP&S)**



HSI Domains & the 12 IPS Elements

- **HSI domains**
 1. Human Factors Engineering (HFE)
 2. Personnel
 3. Habitability
 4. Manpower
 5. Training
 6. Safety & Occupational Health (SOH)
 7. Force Protection & Survivability (FP&S)
- **These domains touch a range of integrated product support (IPS) element areas covered in the LCSP** 
- **12 Integrated Product Support Elements**
 1. Product Support Management
 2. Design Interface
 3. Sustaining Engineering
 4. Supply Support
 5. Maintenance Planning & Management
 6. Packaging, Handling, Storage & Transportation
 7. Technical Data
 8. Support Equipment
 9. Training & Training Support
 10. Manpower & Personnel
 11. Facilities & Infrastructure
 12. Information Technology Systems Continuous Support



LCSP Outline V3.0 (13 Oct 22)

- Overview & Expectations of the LCSP
- 1. Introduction
- 2. Product Support Strategy
- 3. Product Support Performance
- 4. Sustainment Strategy & the Product Support Package
- 5. Other Sustainment Considerations
- 6. Influencing Design & Sustainment
- 7. Program & Design Reviews
- 8. Integrated Schedule
- 9. Program Funding & Life Cycle Cost Estimate
- 10. Management
- 11. LCSP Annexes
- 12. Acronyms



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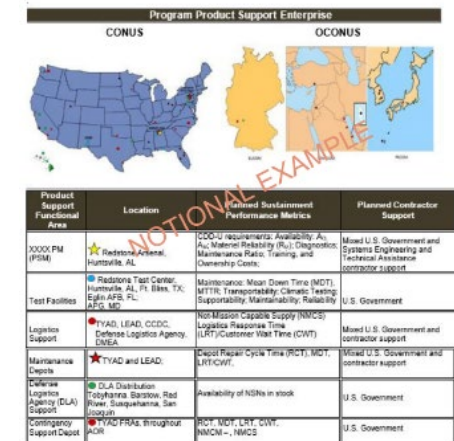
Section 2: Product Support Strategy (PSS)

Purpose: overarching approach to meet sustainment requirements

- HSI Critical Thinking Questions:**

- Are HSI equities depicted in the Product Support Enterprise (Figure 2-3)?
- Do operational & maintenance concepts address the human contribution to total system performance & inform HSI domain trade-off analyses?
- What data is needed to describe the capabilities & limitations of the product support enterprise to influence human-centered design trade decisions early in the life-cycle?
- Are HSI & Supportability equities synchronized to the relevant IPS elements & included & implemented during the systems engineering process (i.e. in sync with SEP)?

Figure 2-3: Product Support Enterprise
Include as-of date



Attention to HSI in PS represents 20%-40% ROI of Life Cycle Costs



Section 3: Product Support Performance

Purpose: Sustainment performance requirements (ID, observe, measure)

• 3.1 Performance Requirements Impacting Sustainment

| Requirement | Documentation | Threshold / Objective | RFP/Contract | TEMP | IOC FY XX | FOC FY YY | Full Fielding FY ZZ |
|---------------------------------|---|--|-----------------|-------------------------------------|-----------|-----------|---------------------|
| Human Systems Integration (HSI) | AoA, CDD Update 5.3, Human Factors Engineering (HFE) domain, System Usability Score (SUS) scale | Usability (design characteristic, SUS), 90% / 100% | RFP – PWS 4.1.2 | TEMP 4.6, User assessment, Log Demo | 70% | 90% | 90% |
| | | Situational Awareness (design characteristic) 90% / 100% | | | 95% | 98% | 98% |

• 3.2 Performance Demonstrations & Tests that Impact Sustainment

| Test | Requirement | Metric / Feature | Schedule | Performance Goal | Estimate Value/ IOC Estimate | PSM Assessment |
|---------------------------------------|----------------------|--|----------|------------------|------------------------------|----------------|
| Human Factors Engineering (Usability) | SEP, CDRL A003, TEMP | End to End Mission Performance Usability (designed attributes to schedule) | 2026 | 95% | 70% | On Track |

• 3.3 Monitoring Sustainment Performance

| Tool | OPR/IPT | Metrics/Data Monitored | Feedback Mechanism | Review Timeframes |
|---|---------------------------------------|---|---|----------------------------------|
| Sustainment Reviews, Independent & Logistics Health Assessments | PSM IPT (includes HSI representative) | Focus on statutory requirements & track O&S cost growth. All 12 IPS elements. | PSI & PSP input; DASM(MR) summary reports | LHAs Annually, SRs Every 5 years |



Section 3: Product Support Performance

- **HSI Critical Thinking Questions:**
 - Are HSI requirements consistent with the Program's HSI Plan & the SEP?
 - Has HSI analysis been planned or performed addressing all the following:
 - Operators
 - Maintainers
 - Support personnel
 - Is HSI included in sustainment performance monitoring activities?



Section 4: Sustainment Strategy & Product Support Package

Purpose: Details the product support package addressing integration, planning, & implementation of all 12 IPS elements, requirements that drive design & sustainment, stakeholder relationships, & execution risks

- **4.1 Supply Support (N/A)**
- **4.2 Packaging, Handling, Storage & Transportation (PHS&T) Planning**
 - Does planning include HSI practitioners review of material-handling equipment to reduce labor-intensive material-handling operations?
- **4.3 Maintenance Planning & Management**
 - **4.3.1 Maintenance Concept & 4.3.2 Depot Activation Planning**
 - Are HSI logistics factors (e.g., accessibility & Human Factors Engineering) included for all maintenance levels?
 - Has program planned for task analysis to address ease of maintenance or accessibility & standardization?



Section 4: Sustainment Strategy & Product Support Package

- **4.4 Design Interface & Sustaining Engineering**
 - Does design account for HSI considerations / aligned in HSIP, SEP, TEMP, & LCSP?
 - Is **Product Support & Systems Engineering collaboration** reflected in planning & reviewing Failure Modes, Effects, & Criticality Analysis (FMECA); Reliability, Availability, & Maintainability (RAM); reliability growth planning; Failure Reporting & Corrective Action System (FRACAS), Fault Tree Analysis (FTA), Maintenance Task Analysis (MTA), & Level of Repair Analysis (LORA) activities? These processes ensures a common understanding of failure modes & impacts to technical manuals, training, manpower & skillsets.
 - Is there a plan for data capture & analysis to support CBM+ implementation?
 - Have all relevant HSI domains & considerations been included in modifications?



Section 4: Sustainment Strategy & Product Support Package

– 4.4.1 Supportability Analysis: List analytic methods & tools to define the PSP

| Product Support Analytical Methods & Tools | | | | |
|--|----------|--|----------------------------------|-----------------|
| Process/Analysis | Schedule | Tool | Output Product | Review/Update |
| Maintainability Analysis & Prediction | Xxx | MIL-HDBK-472 | Maintenance Concept | Dev. Test, OT&E |
| Maintenance Task Analysis | Xxx | YYY proprietary software & PowerLog-J Logistics Product Data Database | Draft Mx Procedures | CDR, MS C, OT&E |
| Training System Requirements Analysis | Xxx | SCORM | Training Programs of Instruction | MS C |
| Manpower Analysis | Xxx | Logistics Composite Model (LCOM), Manpower Authorization Criteria | Manning Recommendations | MS C |

- **4.4.1.1 Supportability Trades: Are human-centered design considerations & readiness risks addressed through trade-off analyses among the HSI domains?**

| Supportability Trades (Planned or Completed) | | | | |
|---|-----|--|---|--|
| Trade | IPT | Options Analyzed | Results | Impact |
| Device Portability: Attached power cable vs. replaceable batteries | HSI | Portability: attach points, handles, size, cabling; Power: battery mgmt. logistics, cabling, heat, noise, interfaces; Calibration: time, periodicity, complexity | Enter text here | Battery Logistics Costs. Time impact for replacing batteries |
| XYZ Engine: Reliability vs. Maintenance vs. Cost | R&M | Increased engine reliability | <ul style="list-style-type: none"> • Personnel & time reduction for maintainability • Increased safety, supportability, operability, Reduced trg time/increased trg effectiveness | Increase Ao |
| Pers. Resource Rqmts: Reduction in # of pers. vs. human performance | HSI | Workload: fixed amount of work (maintenance tasks): Habitability, Safety, Survivability | Reduced crew = increased workload; longer work hours = cumulative fatigue; increased mistakes, errors, equip. damage | Increase in Mx downtime. Decrease in mission capability. |



Section 4: Sustainment Strategy & Product Support Package

– 4.4.2 Design Analysis: Describe any significant maintainability-related design changes made as a result of human engineering recommendations

| Sustainment in Key Design Considerations | | | | |
|--|---|--|---|---|
| Design Consideration | Key Subsystems | Sustainment Issues | Planned Review/Updates | Impact/Comments |
| Interface Design | Display | Reliability lower than rqmt. Location prohibits maintenance accessibility | CDR, DT, OT&E | As impacted due to increased MTTR. Redesign inwork. Assess impacts to PSP after analysis. |
| Human Systems Integration (HSI) | Mission Equipment, Training Devices, O&S infrastructure | HSI not addressed in requirements documents. | SRR, Each acquisition milestone review & SETR | Increased ownership costs to add human performance accommodations to total system. |
| Desert Operations | Environmental, Hydraulic, O&S infrastructure | Filters; Contamination; Maintenance Crew Heat Stress; Reduced battery shelf life | SRR, PDR, CDR, DT & OT, IOC, FRP, Sustainment Reviews | Increased filter changes; filter demand; inspection cycles; Environmentally-controlled facility rqmts for maintenance ops & battery storage |

– 4.4.3 Failure Modes, Effects, & Criticality Analysis (FMECA)

| FMECA Summary | | | |
|-----------------|--------------------|---|--|
| System/IPT Lead | Schedule | Failure Mode Description | Recommended Action |
| Avionics | Complete | New failure modes uncovered which current health monitoring system cannot predict. | Design out diagnostic ambiguity groups that cause unnecessary removals considering the new failure modes. |
| Airframe | Update after IOT&E | <ul style="list-style-type: none"> New failure modes uncovered due to projected corrosion issues around engine inlets & on wing spar Fuel tanks moved Ejection seat initiator fails in high humidity Environment | <ul style="list-style-type: none"> Update LORA to determine impact to organizational scheduled maintenance. Ensure there are sufficient doors & panels to allow accessibility to critical areas. Ensure panels, doors, etc. are interchangeable between aircraft & designs meet support event frequencies in terms of access & its 3-dimensional access plane. Verify fuel tanks not adding stress to bulkheads resulting from high "G" ops Add desiccant & indicator, move to left side of seat for easier access |



Section 4: Sustainment Strategy & Product Support Package

- **4.4.4 Reliability: ID reliability drivers & issues affecting O&S cost**
 - Are HSI considerations included in reliability driver mitigation efforts?
 - ID impacts to maintenance procedures, repair capabilities, manpower, & training, & mitigation actions, including potential actions if the allocation is not achieved.

| Subsystem Config. Item | Reliability Allocation | Current Reliability Estimate | O&S Cost Impacts | Mitigation Efforts |
|------------------------|------------------------|------------------------------|------------------|---|
| High Power Amplifier | 6K hrs MTBR | 3.5K hrs MTBR | #18M/yr (Cyx\$) | <p>TMRR: Evaluate design changes to improve reliability</p> <p>EMD: ID corrective actions for failures during DT prior to MS-C.</p> <p>Production: Conduct trade study on spares vs. design change</p> <p>O&S: Assess ability to acquire more spares considering DMSMS issues or perform a tech refresh or engineering change to address reliability & DMSMS issues</p> <p style="color: red; font-weight: bold; font-size: 1.2em;">HSI ?</p> |

- **4.5 Technical Data:**

- Are HSI-related technical data & intellectual property requirements addressed?

Examples:

- DI-HFAC-80746, Human Engineering Design Approach Document - Operator
- DI-HFAC-80747, Human Engineering Design Approach Document-Maintainer
- DI-SESS-81758, Logistics Product Data, Etc...



Section 4: Sustainment Strategy & Product Support Package

- **4.6 Information Technology (IT) Systems Continuous Support**
 - **4.6.1 Cybersecurity**
 - **4.6.2 Software Sustainment & Software/System Operability**
 - Have HSI considerations been incorporated into software development, integration, & test phases to **include graphical user interface, usability testing, control & display layout, human error/reliability analysis, & on-line user guides & documentation?**
 - **4.6.3 Digital Product Support**
 - Are **model-based** activities part of HSI analysis efforts? e.g., Human Engineering Design Approach Document (HEDAD)-Maintenance to evaluate interfaces for primary system & support equipment. **Product Life-cycle Management (PLM) integration?**
- **4.7 Manpower & Personnel**
 - Have any HSI analysis been conducted? (e.g., *Task Analysis & Manpower analysis*)
 - Do planned engineering designs minimize personnel rqmts & keep human aptitudes necessary for operation & maintenance at levels consistent with what will be available in user population at time fielding OR **will new occupational specialties be required?**



Section 4: Sustainment Strategy & Product Support Package

- **4.8 Training & Training Support**
 - Is section consistent the System Training Plan (STP)?
 - Do training plans address **individual or crewed training, maintainer training, system of systems training & training multiple occupations**; as applicable in all phases of lifecycle?
 - Does planning indicate required levels of Logistics Product Data maturity to support STP?
- **4.9 Support Equipment**
 - For **new** support equipment, are op & mx training requirements included in planning efforts?
- **4.10 Facilities & Infrastructure (Including Leveraging Enterprise Opportunities Across Programs & DoD Components)**
 - Does this section include **habitability requirements**? (e.g., living areas, personal hygiene facilities, working areas, living areas, & personnel support areas)
- **4.11 Sustainment Relationships**
 - **4.11.1 Product Support Arrangements**
 - **4.11.2 Contract Product Support Integrators & Product Support Providers**
 - **4.11.3 Organic Product Support Integrators & Product Support Providers**



Section 5: Other Sustainment Considerations

- **4.12 Product Support Risk, Issue or Opportunity Management**
 - 4.12.1 Obsolescence Risk Management
 - 4.12.2 Supply Chain Risk Management
 - 4.12.3 Manufacturing Risk
- **5 Other Sustainment Considerations**
 - **5.1 Competition in Sustainment**
 - **5.2 Property Management**
 - **5.3 Cross-Functional Sustainment Considerations**
 - **Address HSI activities that impact sustainment & highlights risks that are design &/or cost drivers, especially as they impact the system's IPS elements (if not addressed elsewhere).**

| Cross-Functional Sustainment Issues | Document | Impact or Risk to Product Support Elements |
|---|----------------------|--|
| Human Systems Engineering | DoDI 5000.95 HSIP | Address impacts not covered elsewhere |
| Artificial Intelligence or Machine Learning | SOW | Interface with Human-in-the-loop |



Sections 6 & 7: Influencing Design & Sustainment; Reviews

• 6 Influencing Design & Sustainment

| Requirement | Documentation | Review |
|---|---|--|
| Human Systems Engineering | DoDI 5000.95; HSIP; Training Systems Plan; RFP; HEDAD-M/DI-HFAC-80747 DID; etc. | <ul style="list-style-type: none"> System's ILA/SR across the lifecycle Design Reviews prescribed in AAF pathway (e.g., SETRs) Post-IOC reviews |
| Manpower Analysis & Estimate Reporting (10 U.S.C §2434) | CARD; ICE; POE' O&S cost estimate | <ul style="list-style-type: none"> System's ILA/SR across the lifecycle Design Reviews prescribed in AAF pathway (e.g., SETRs) Program Reviews (e.g., MS-A, MS-B, MS-C, Post-IOC reviews) |
| System Safety/ESOH (DoDI 5000.88, MIL-STD-882) | SEP; System Safety Plan; HMMP; Haz Analysis | <ul style="list-style-type: none"> Various, as early as possible in lifecycle & update as needed |

- How do the analyses/plans in Table impact the product support strategy?
- Do the requirements create program cost drivers?

• 7 Program & Design Reviews: Ensure HSI is depicted in criteria

| Review | Sustainment Participants | Entry/Exit Criteria | Sustainment Focus/Findings | Open Sustainment Actions |
|-----------|--------------------------|---|---|--|
| PDR | PSM IPT | <ul style="list-style-type: none"> Ref PDR Checklist | <ul style="list-style-type: none"> Reliability estimates FMECA results/maturity | <ul style="list-style-type: none"> PDR 20xx-1: Late delivery of preliminary FMECA's impacting delivery of LORA & MTA |
| CDR | PSM IPT | <ul style="list-style-type: none"> Ref CDR Checklist | <ul style="list-style-type: none"> Reliability estimates | <ul style="list-style-type: none"> CDR 20xx-5: LRU-3 reliability is less planned: 3 circuit cards contribute to 90% of failures; investigate design or mfg. issue |
| SR & ILAs | PSM IPT | <ul style="list-style-type: none"> Ref SR Checklist | | |



Sections 8 & 9: Schedule, Funding & Costs

- **8 Integrated Schedule HSI ?**
- **9 Program Funding & Life-Cycle Cost Estimate**
 - **9.1 Program Funding**
 - **9.2 Development & Evolution of the System O&S Cost Estimate**
 - **9.2.1 O&S Cost Estimate**
 - **9.2.2 Disposal Cost Estimate**
 - **9.2.3 O&S & Disposal Cost Drivers**
 - **9.3 O&S & Disposal Cost Reduction Initiatives (Should Cost)**
 - **9.4 O&S Cost Affordability Constraints**
 - **HSI Critical Thinking Questions:**
 - **Are HSI-related initiatives included in reduction initiatives (e.g. reduce mx manpower)**
 - **What costs are within the Program Office's control & which are controlled by other stakeholders or outside factors?**
 - **Have relevant functional area SMEs been involved in all prior coordination activities to understand additional trade-off opportunities for cost mitigation?**

HSI ?



Sections 10: Management Organization

- **10 Management**
 - **10.1 Program Organizational Structure**
 - **10.2 Product Support Team**

| Name | POC | Stakeholders (by Function or Org) | Role, Responsibility, & Authority | Products & Metrics |
|---------|----------|--|--|--|
| PS IPT | PSM | <ul style="list-style-type: none"> • Program Office <ul style="list-style-type: none"> ○ PSM, Deputy PM, Sys Eng. Lead, Financial Lead, SW Lead, Site Rep., R&M Lead • HSI Lead • PSIs; PSPs; Sustainment command Reps • DoD Agency Representative(s) • Key Subcontractor or Suppliers (Engine, XX) Size: YYY | Integrate all PS efforts <ul style="list-style-type: none"> • Team Member Responsibilities • Cost, Performance, Schedule Goals • Scope, Boundaries of IPT Responsibilities Schedule & frequency of meetings Date of signed IPT charter & signatory | Products: <ul style="list-style-type: none"> • LCSP/LCSP Updates; Integrated Master Plan (IMP)/IMS Inputs; Specifications, Acquisition Strat. Input, Corrosion Prevention Plan Metrics: <ul style="list-style-type: none"> • Cost: IPS Element costs, Operating Targets • Schedule • Sustainment: Am, Log Footprint, etc.. |
| HSI IPT | HSI Lead | <ul style="list-style-type: none"> • Program Office <ul style="list-style-type: none"> ○ PSM or Log Mgr, Deputy PM, Sys Eng. Lead, Financial Lead, SW Lead, Site Rep., R&M Lead • HSI Lead/SME Size: YYY | Integrate all HSI-related PS efforts <ul style="list-style-type: none"> • Team Member Responsibilities • Cost, Performance, Schedule Goals • Scope, Boundaries of IPT Responsibilities Schedule & frequency of meetings Date of signed IPT charter & signatory | Products: <ul style="list-style-type: none"> • LCSP/LCSP Updates; IMP/IMS Inputs; HSI Plan Updates; SEP updates; Acquisition Strat. Input; Models (MBSE/MBPS) Metrics: <ul style="list-style-type: none"> • HSI domains by IPS Element • Cost: IPS Element costs, Operating Targets) • Sustainment: Ao, Am, Log footprint |

– HSI Critical Thinking Questions:

- Is there an HSI IPT, if not, why not?
- Is an HSI representative included in the organization or matrixed from a staffing org?



Sections 11: LCSP Annexes

- **11 LCSP Annexes**
 - **11.1 Component Required Annexes**
 - **Product Support Business Case Analysis (DoDI 5000.91)**
 - **Independent Logistics Assessment & Corrective Action Plan (DoDI 5000.91)**
 - **System Disposal Plan (DoDI 4160.28; DoDM 4160.21; DoDM 4160.28)**
 - **Preservation & Storage of Unique Tooling (PL110-417, T7, Sub B, § 815; DFARS 207.106 [S-73])**
 - **Core Logistics Analysis (DoDI 5000.91; DoDI 4151.20) & DSOR Assignments (DoDI 4151.24)**
 - **Replaced System Sustainment Plan (RSSP) (Title 10 U.S.C. § 4321, formerly § 2437)**
 - **Technical Data & Intellectual Property Plan (DoDI 5010.44) – no later than FRP/FD decision**
 - **Corrosion Prevention & Control Plan (Title 10 U.S.C. § 2228; DoDI 5000.67)**
 - **Diminishing Manufacturing Sources & Material Shortages (DMSMS) Plan (DoDI 4245.15)**
 - **Programmatic Environment Safety & Occupational Health Evaluation (PESHE) & National Environmental Policy Act (NEPA)/Executive Order (E.O.) 12114 Compliance Schedule (Title 42 U.S.C. § 4321 (National Environmental Policy) & (Executive Order 12114)**
 - **Human Systems Integration Plan (HSIP) (DoDI 5000.95)**



Outline Structure Cross Reference

| OLD LCSP Outline V2.0 (2017) | NEW LCSP Outline V3.0 (2022) |
|---|---|
| Overview | Overview & Expectations of the LCSP |
| 1. Introduction | 1. Introduction |
| 2. Product Support Performance | 3. Product Support Performance |
| 3. Product Support Strategy | 2. Product Support Strategy 5. Other Sustainment Considerations |
| 4. Program Review Issues & Corrective Actions | 7. Program & Design Reviews |
| 5. Influencing Design & Sustainment | 6. Influencing Design & Sustainment |
| 6. Integrated Schedule | 8. Integrated Schedule |
| 7. Cost & Funding | 9. Program Funding & Life Cycle Cost Estimate |
| 8. Management | 10. Management 4. Sustainment Strategy & the Product Support Package |
| 9. Supportability Analysis | 4. Sustainment Strategy & the Product Support Package |
| 10. LCSP Annexes | 11. LCSP Annexes |
| 11. Acronym List | 12. Acronyms |

AIR FORCE LIFE CYCLE MANAGEMENT CENTER

