**Life Cycle Signature Support Plan (LSSP)**

**for the**

**(Program Name)**

Prepared for: Milestone (A, B, or C)

Version: (insert version number if applicable)

Date: (insert date)

Submitted by: (Program Director’s Signature Block)

Reviewed by: (Include Service or Agency required coordinations as appropriate)

Approved by: (Program PEO Signature Block)

*Guidance: The following is the prescribed LSSP template and some general statements and questions to answer when preparing the LSSP. The entire LSSP content should remain free of any source selection sensitive information, which should be incorporated by reference. There are two parts to the template. The first part provides a format with paragraph titles and an explanation of what to include in each of the paragraphs for the textual portion of the LSSP. The second part of the template (Attachment 1) is a spreadsheet format where the actual signature requirements are listed. A separate tab is to be provided for each signature discipline to facilitate parameter differences and database searches. Tabs that do not apply for a specific program should be deleted prior to LSSP submission. Each row of the spreadsheets should contain only one signature requirement (i.e. a target, activity, event, or environmental background, etc.). Attachment 2 is a template for an LSSP waiver request.*

*Instructions: TBD*

*References:*

1. *Life-cycle Signatures Support Plan (LSSP) Instructions and Templates, Version 2.0, April 2009, approved by: DoD Signatures Council, Acquisition Sub-Panel*
2. *DOD Directive 5250.01, January 31, 2008*
3. **Introduction –** This Life-cycle Signature[[1]](#footnote-1) Support Plan (LSSP) is written in accordance with DoD Directive 5250.01 to support Milestone (enter A, B or C) scheduled for (date).
4. **Acquisition System Name:** (Program name)

# Acquisition Sponsor:Click here to enter text.

# *Guidance: Sponsor, or lead service if a joint program, of the system, i.e. USA, USAF, USMC, USN, SOCOM, NRO, etc*

# Program Office POC Information:(LSSP POC name, phone number, email address)

1. **Background:**Click here to enter text.

*Guidance: Provide a summary of the system to include its sensing capabilities. If the system has multiple signature-dependent sensors, please list all sensors and provide sensor descriptions.*

1. **Operational Concept and Use of Signatures:**Click here to enter text.

*Guidance: Describe the operational concept for how the sensors or algorithms will be used, to include operating ranges and principal modes/functions to support the system’s mission. Sub-paragraphs for this section should include details on the items listed below*

* + *Collection/production/storage of the signatures.*
  + *Type of signature (real signature, synthetic signature, etc.)*
  + *Who owns and operates your signatures database.*
  + *IC involvement in providing signatures to support your program*
  + *Required signature-based models and need date*
  + *How the sensor will be tested with the signature data. Live fire? M&S? Sensor in-situ data collection?*

**Figure 1**. Concept of Signature Support on XXX Program (enter diagram here)

*Guidance: Recommend including a signature support tree diagram showing the relationship between signature providers, signatures provided, and the development processes where the signatures are used.*

1. **Signature Requirements:** Specific (target, environmental, blue, etc – insert appropriate terminology) signature requirements are listed in Appendix 1, LSSP Requirements Tables.

*Guidance: For this paragraph, include the above sentence followed by information on the basis for the listed requirements (e.g. threat document, KPP, COCOM, derived requirements, etc.). Include information on the COCOM vetting process used to create the listed requirements.*

1. **Technical Requirements:**Click here to enter text.

*Guidance: Sub-paragraphs for this section should answer the applicable questions and provide information as stated below*

* + *Do the signatures require confidence levels?*
  + *What is the verification/validation (V&V) process for the data?*
  + *Can synthetically generated signature models be employed?*
  + *Is target background cluttered data and background synthetic modeled data needed? If so, please ensure you include the background scenes on the attached Signature Requirements table under the appropriated disciplines.*
  + *List any parameters that must be provided by intelligence means to generate required model fidelity for the signature.*
  + *Signature Data Format requirements*
  + *Specific parametric data requirements*
  + *Signature Production Specification Info:*
    - *Can you use an existing Signature Production Specification? (If you don’t know if one exists, please contact an intelligence production center or SSP to determine if one already exists)*
    - *If Yes – Please reference title and date of document*
    - *If No – A signature production specification needs to be developed; what is the required delivery date?*
    - *Signature specification development OPR (if unique spec, who is producing, please provide Name, Office, and phone #)*
  + *Classification of the data needed (TS, SECRET, UNCLASSIFIED, SCI, etc…)*

1. **Signature Need Dates:**

*Guidance: Provide a need date by each activity if applicable*

* + Development: (date)
  + Testing: (date)
  + Fielding: (date)
  + Operation and maintenance: (date)

1. **On-going Signature Production:**Click here to enter text.

*Guidance: Has your program or supporting intelligence office initiated signature production with any agency, organization or contractor, or submitted signature-related Production Requirements (PR)? If so, provide summary information on these production efforts and PR numbers with a brief description.*

1. **Completed and planned signature collection events**:Click here to enter text.

*Guidance: List signature collection events sponsored by the program office or system contractor(s), and the lead organization for the collection events. Provide information on collection of blue signatures, if any, to include signatures of the system itself.*

1. **Signature Funding:**Click here to enter text.

*Guidance: Provide details of the funding plan for collection, production and storage of signatures.*

1. **Signature Data Rights:** Click here to enter text.

*Guidance: If the signatures are to be government provided, then list which government agency is providing the signatures (NASIC, NGIC, MSIC, ONI, AMRDEC, Research Lab, etc). If the government is paying a contractor for the signatures development and/or collection, then ensure the appropriate clauses are included in the solicitation (Reference FAR*[[2]](#footnote-2) *and DFARS*[[3]](#footnote-3)*) and correct language is in the Acquisition Plan and the Statement of Work. Also ensure signatures are listed as a CDRL with Unlimited Rights in the solicitation. The CDRL must state that the Government has unlimited rights*[[4]](#footnote-4) *to the signatures and the signatures must be provided to the SSP for inclusion in the distributed DoD signatures pool.*

1. **Signature Releaseability:**Click here to enter text.

*Guidance: If the weapon system is planned to be used by/sold to foreign governments, this section should answer the following questions*

* + *What countries?*
  + *What data is required to train with and operate the weapon system?*
  + *Is all the data releasable? If not, the source organization needs to be contacted for releaseability of data.*
  + *Does the data need to be encrypted?*

1. **Signature Logistics Concept:** Click here to enter text.

*Guidance: Describe the plan for additional collection of real targets, production of synthetic signatures and verification and validation of these models. State what your plan is to identify future signature requirements (in coordination with the customer) and keeping your weapon system current with signature data needs. Tell how the signatures will be stored and maintained.)*

Appendix 1: (Program Name) LSSP Requirements Tables

Appendix 2: Click here to enter text.

*Guidance: Service or Agency specific information requirements may be included as additional appendices. Each Appendix needs to be discussed in one of the paragraphs above, to explain its relevance to the LSSP.)*

**Attachment 1:** Signature Requirements Tables Template (see separate MS Excel document)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Life-cycle Signature Support Plan (LSSP) Waiver Request** | | | | |
| Authority: DoD Directive 5250.01 and DoD Instruction 5000.02 require acquisition programs to   develop a Lifecycle Signature Support Plan (LSSP) at Milestones A, B and C. | | | | |
| (to be completed by Waiver Requestor) | | | | |
| Acquisition System Name: | | | | |
| Waiver Initiation Date: | Next Milestone & Scheduled Date: | | | |
| Program Manager: | | Acquisition Sponsor: | | |
| Program office POC information: | | Program Executive Office: | | |
| Functional Description (provide a brief description of the acquisition system and the proposed capabilities): | | | | |
| Justification (provide a brief technical description justifying why this program is **not** signature dependent):  The\_(enter program name)\_program will not use or need signatures currently or in the future for design, test, or operations. This program does not need signatures to perform tasks such as search, detect, characterize, identify, classify, or target. | | | | |
| (Waiver Reviewer) | | | | |
| Waiver Request #: | | | | |
| Signatures Council Representative (typed name & signature): | | | Date: | Recommendation:   * + - Approve     - Deny |
| (Waiver Decision Authority) | | | | |
| Co-Chair, DoD Signatures Council (typed name & signature): | | | Date: | Decision:   * + - Approved     - Denied |

For questions about this Waiver Form or the Life-cycle Signatures Support Plan (LSSP), please contact the Signatures Support Program (SSP) at 1-877-238-8821

Classification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Attachment 2: LSSP Waiver Request Template

GLOSSARY

Blue Targets: (enter definition here)

Grey Targets: (enter definition here)

Red Targets: (enter definition here)

Signature: (enter definition here)

Signature-dependent system: (enter definition here)

White Targets: (enter definition here)

1. The Definition of a Signature is: ”A distinctive characteristic or set of characteristics that consistently recurs and uniquely identifies an activity, event, person or equipment.” [↑](#footnote-ref-1)
2. FAR 27 Patents, Data and copyrights [↑](#footnote-ref-2)
3. DFARS 227.71 Rights in Technical Data; 252.227-7017( c) Identification and assertion of use , release , or disclosure restriction; 252.227-7013(e) Rights in Technical data-noncommercial items; 252.227-7027 [↑](#footnote-ref-3)
4. FAR 27 Patents, Data and copyrights, and DFARS 227.71 Rights in Technical Data; 252.227-7017( c) Identification and assertion of use , release , or disclosure restriction; 252.227-7013(e) Rights in Technical data-noncommercial items; 252.227-7027 [↑](#footnote-ref-4)