



System Version Description

for the

KNEAD Example System

DCN: KNEADSVD20231222-P1:100

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DOCUMENT CHANGE HISTORY

The following table is a simple list of released revisions sent for review. Records of reviews and the review artifacts are saved with reviewer information in the The KNEAD Project artifact repository.

Change Record

Date	Version	Author(s)	Change Reference
14 Mar 2024	P1	Lewis Collier	Preliminary DRAFT version

Each subsequent “section” outlines changes in each release.

Items in this version that are marked with change bars have been modified from the most recent previous version (e.g. P3 changes from P2) or are new as of the current revision. A list of all changed items may be found in the Index section under the heading “All Changes This Version”.

Draft P1 Preliminary version of this document.

TABLE OF CONTENTS

DOCUMENT CHANGE HISTORY	i
TABLE OF CONTENTS	ii
LIST OF TABLES	iii
LIST OF FIGURES	iv
CHAPTER	
1 Scope	1
1.1 Identification	1
1.2 System Overview	1
1.3 Document Overview	2
1.3.1 Security and Privacy Considerations	2
1.3.2 Contents and Structure	2
1.3.3 Document Version Information	4
2 References	5
2.1 Acronyms and Abbreviations	5
2.2 Glossary and Definitions	5
2.3 Referenced Documents	6
2.3.1 External Documents	6
2.3.2 Project Specific Documents	6
3 Version Description	7
3.1 Inventory of Materials	7
3.2 Inventory of Software	7
3.3 Changes From Prior Version	7
3.4 Adaptation Data	7
3.5 Related (Third Party) Documents	7
3.6 Installation Instructions	8
3.7 Possible Problems and Known Errors	8
4 Notes	9
4.1 Note Area 1	9
4.2 Note Area 2	9
APPENDIX	
Appendix	10
A.1 Appendix Area 1	10
A.2 Appendix Area 2	10
Index	11

LIST OF TABLES

Table		Page
1	Acronym Definitions	5
2	Glossary Terms and Definitions	5

LIST OF FIGURES

Figure		Page
1	System Overview	2

CHAPTER 1

Scope

ALL-1.0 :: IF APPLICABLE, EACH SECTION HAS A SUMMARY OF DATA ITEM DESCRIPTION (DID) INFORMATION SHOWN IN THIS FONT. THESE ARE DISPLAYED IN SMALL CAPITAL FONT AND ARE NOT PART OF THE FORMAL DOCUMENT. DISPLAY OF THESE DID INFORMATION NOTES CAN BE TURNED OFF FOR FORMAL RELEASES, BUT ARE DISPLAYED HERE FOR REFERENCE.

This document provides the System Version Description (SVD) for the UNDEFINED System. The system will be referred to as the Undefined-Sys.

This document is generally cited as [1].

1.1 Identification

ALL-1.1 :: THIS PARAGRAPH SHALL CONTAIN A FULL IDENTIFICATION OF THE SYSTEM TO WHICH THIS DOCUMENT APPLIES, INCLUDING, AS APPLICABLE, IDENTIFICATION NUMBER(S), TITLE(S), ABBREVIATION(S), VERSION NUMBER(S), AND RELEASE NUMBER(S).

The UNDEFINED System described in this document shall be known as Undefined-Sys version 1.

1.2 System Overview

ALL-1.2 :: THIS PARAGRAPH SHALL BRIEFLY STATE THE PURPOSE OF THE SYSTEM TO WHICH THIS DOCUMENT APPLIES. IT SHALL DESCRIBE THE GENERAL NATURE OF THE SYSTEM; SUMMARIZE THE HISTORY OF SYSTEM DEVELOPMENT, OPERATION, AND MAINTENANCE; IDENTIFY THE PROJECT SPONSOR, ACQUIRER, USER, DEVELOPER, AND SUPPORT AGENCIES; IDENTIFY CURRENT AND PLANNED OPERATING SITES; AND LIST OTHER RELEVANT DOCUMENTS.

The UNDEFINED System system is ...TBD....

Figure 1 shows the high-level architecture for the Undefined-Sys system. This diagram shows the major external interfaces that provide the capabilities of Undefined-Sys. As are shown, the Undefined-Sys can provide ...TBD....

The general concept of operations (CONOP) for this system is ...TBD....



Figure 1: System Overview

1.3 Document Overview

ALL-1.3 :: THIS PARAGRAPH SHALL SUMMARIZE THE PURPOSE AND CONTENTS OF THIS DOCUMENT AND SHALL DESCRIBE ANY SECURITY OR PRIVACY CONSIDERATIONS ASSOCIATED WITH ITS USE.

This section provides information about this document's security/privacy considerations, contents, structure, and version information.

1.3.1 Security and Privacy Considerations

This document is not subject to CUI restrictions.

1.3.2 Contents and Structure

This document format is based upon the guidance in the SDP DID [2], but is tailored to reflect current quality management system (QMS) requirements for many of the items described in the DID. The system development plan information also follows the guidelines of ISO-12207 [3] and MIL-STD-498 [4] (from which ISO-12207 originated). It is expected that significant coverage of the SDP DID items will simply be references to external QMS or CMMI documentation. Thus, agencies using this artifact will formalize it to serve as a checklist for tailoring each effort per their own processes and procedures.

This tailoring also includes planning for hardware aspects as may be needed for the complete system development efforts. The SDP DID mainly covered integration of software onto hardware. This artifact includes sections that cover the development of hardware as well as development of the software. Integration and testing are also included. But, as noted

above, all aspects of development are expected to illustrate the existing QMS steps to be followed based on organizational processes and the project's operational needs.

This document follows a tailored SVD sub-section order of:

Section 1 provides an overview of the system and this document.

Section 2 lists general and application-specific reference documents as well as glossary terms and acronyms.

Section 3 summarizes the required work, with references to existing QMS processes and procedures as applicable:

- program status / acquisition strategy,
- SDLC Situation,
- plans for development of requirement artifacts,
- plans for overall documentation development,
- schedule / resource constraints, and
- other requirements/constraints.

Section 4 Plans for system development

- Hardware development processes and plans,
- Firmware development processes and plans,
- Software development processes and plans,
- Integration plans,
- Testing plans, and
- Other development activities per organizational processes.

Section 5 Plans for system transition

- Configuration Management plans,
- Release plans,
- User Support plans, and
- Other system transition activities per organizational processes.

Section 6 Management and control activities

- SETR events (internal previews and with customer),
- Skills and resources needed,
- Schedule Development and Monitoring, and
- Other management and control activities per organizational processes.

Section 7 if needed, lists any general notes as may be applicable.

Appendices if needed, provide additional information as may be needed.

IF THIS TEXT IS VISIBLE, THE FIRST INSTANCE OF EACH SECTION MAY DISPLAY A SUMMARY OF DATA ITEM DESCRIPTION (DID) INFORMATION SHOWN IN THIS FONT. THESE ARE DISPLAYED IN SMALL CAPITAL FONT AND ARE NOT PART OF THE FORMAL DOCUMENT.

1.3.3 Document Version Information

This document was produced in \LaTeX and *BibLaTeX/Biber*. The editing and document preparation were performed using MiK \TeX version 2.9 with the build option [$\text{\LaTeX} \Rightarrow \text{PS} \Rightarrow \text{PDF}$]. The $\text{\LaTeX}svn-multi$ package was used to glean SVN tracking information, when files are stored in an “SVN” version control system. The style `KNEADdocument` was used to provide the \LaTeX and *BibLaTeX/Biber* formatting details.

This revision of this document has the following properties:

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KNEADdocument Version	1.00
KNEADdocument Date	2021/12/05

CHAPTER 2

References

ALL-2.0.0 :: THIS SECTION SHALL LIST THE NUMBER, TITLE, REVISION, AND DATE OF ALL DOCUMENTS REFERENCED IN THIS SPECIFICATION. THIS SECTION SHALL ALSO IDENTIFY THE SOURCE FOR ALL DOCUMENTS NOT AVAILABLE THROUGH NORMAL GOVERNMENT STOCKING ACTIVITIES. IT ALSO SHALL INCLUDE A LIST OF ACRONYMS AND GLOSSARY TERMS SO THAT THEY ARE DEFINED BEFORE USE.

This section provides a list of referenced items for this document.

2.1 Acronyms and Abbreviations

ALL-2.1.0 :: THIS SECTION SHALL CONTAIN A FULL LIST OF DEFINITIONS FOR ALL ACRONYMS AND ABBREVIATIONS USED IN THIS DOCUMENT. THESE ARE OFTEN INCLUDED IN AN APPENDIX BUT ARE INCLUDED IN CHAPTER 2 ALONG WITH GLOSSARY TERMS AND CITED REFERENCES TO PRESENT THE READER WITH THE INFORMATION BEFORE IT IS NEEDED.

This section defines acronyms and abbreviations used in this and related documents.

Table 1: Acronym Definitions

Acronym	Definition
ATV	Analog Television
A/V	Audio / Visual
End of acronym definition table	

2.2 Glossary and Definitions

ALL-2.2.0 :: THIS SECTION SHALL CONTAIN A FULL LIST OF GLOSSARY DEFINITIONS FOR ALL SPECIALTY TERMS USED IN THIS DOCUMENT. THESE ARE OFTEN INCLUDED IN AN APPENDIX BUT ARE INCLUDED IN CHAPTER 2 ALONG WITH ACRONYMS / ABBREVIATIONS AND CITED REFERENCES AND GLOSSARY TERMS TO PRESENT THE READER WITH THE INFORMATION BEFORE IT IS NEEDED.

This section defines glossary terms used in this and related documents.

Table 2: Glossary Terms and Definitions

Glossary Term	Definition
Communications	Communication is information transfer, among users or processes, according to agreed conventions.
Glossary terms continue on next page	

Glossary terms – continued from previous page

Glossary Term	Definition
Customer	The local government project lead who is acting as a general manager for the sponsor to ensure that the contractor team executes the project according to stakeholder goals.
End of glossary terms table	

2.3 Referenced Documents

ALL-2.3.0 :: THIS SECTION SHALL CONTAIN A FULL LIST OF ALL ARTIFACTS REFERENCED FROM WITHIN THIS DOCUMENT. THESE ARE OFTEN INCLUDED IN A FINAL CHAPTER/SECTION OR APPENDIX BUT ARE INCLUDED IN CHAPTER 2 ALONG WITH ACRONYMS / ABBREVIATIONS AND GLOSSARY TERMS TO PRESENT THE READER WITH THE INFORMATION BEFORE IT IS NEEDED.

This section lists the referenced documents for this document. The references are categorized into two categories:

External Documents not directly associated with this project.

Project Documents that are directly associated with this project.

2.3.1 External Documents

- [2] DI-IPSC-81442A. *Data Item Description for System Version Description*. Jan. 11, 2000.
- [3] IEEE and EIA. *Software life cycle processes*. Mar. 1998.
- [4] MIL-STD-498. *Military Standard Software Development and Documentation*. Dec. 31, 1994.

2.3.2 Project Specific Documents

- [1] The KNEAD Project. *System Version Description for the KNEAD Example Project*. Dec. 31, 2023.

CHAPTER 3

Version Description

SVD-3.0.0 :: THIS CHAPTER PROVIDES AN OVERVIEW OF THE SYSTEM RELEASE. SEE REFERENCE [2] FOR MORE INFORMATION.

This chapter is ...TBD....

3.1 Inventory of Materials

SVD-3.1.0 :: THIS SECTION SHALL LIST BY IDENTIFYING NUMBERS, TITLES, ABBREVIATIONS, DATES, VERSION NUMBERS, AND RELEASE NUMBERS, AS APPLICABLE, ALL PHYSICAL MEDIA (FOR EXAMPLE, LISTINGS, TAPES, DISKS) AND ASSOCIATED DOCUMENTATION THAT MAKE UP THE SOFTWARE VERSION BEING RELEASED. IT SHALL INCLUDE APPLICABLE SECURITY AND PRIVACY CONSIDERATIONS FOR THESE ITEMS, SAFEGUARDS FOR HANDLING THEM, SUCH AS CONCERNS FOR STATIC AND MAGNETIC FIELDS, AND INSTRUCTIONS AND RESTRICTIONS REGARDING DUPLICATION AND LICENSE PROVISIONS.

This section is ...TBD....

Need to list hardware first so we can point to it in next section.

3.2 Inventory of Software

SVD-3.2.0 :: THIS SECTION SHALL LIST BY IDENTIFYING NUMBERS, TITLES, ABBREVIATIONS, DATES, VERSION NUMBERS, AND RELEASE NUMBERS, AS APPLICABLE, ALL COMPUTER FILES THAT MAKE UP THE SOFTWARE VERSION BEING RELEASED. ANY APPLICABLE SECURITY AND PRIVACY CONSIDERATIONS SHALL BE INCLUDED.

This section is ...TBD....

3.3 Changes From Prior Version

SVD-3.3.0 :: THIS SECTION SHALL CONTAIN A LIST OF ALL CHANGES INCORPORATED INTO THE SOFTWARE VERSION SINCE THE PREVIOUS VERSION. IF CHANGE CLASSES HAVE BEEN USED, SUCH AS THE CLASS I/CLASS II CHANGES IN MLL-STD-973, THE CHANGES SHALL BE SEPARATED INTO THESE CLASSES. THIS PARAGRAPH SHALL IDENTIFY, AS APPLICABLE, THE PROBLEM REPORTS, CHANGE PROPOSALS, AND CHANGE NOTICES ASSOCIATED WITH EACH CHANGE AND THE EFFECTS, IF ANY, OF EACH CHANGE ON SYSTEM OPERATION AND ON INTERFACES WITH OTHER HARDWARE AND SOFTWARE. THIS PARAGRAPH DOES NOT APPLY TO THE INITIAL SYSTEM VERSION.

This section is ...TBD.... (And is not applicable to the first release.)

3.4 Adaptation Data

SVD-3.4.0 :: THIS PARAGRAPH SHALL IDENTIFY OR REFERENCE ALL UNIQUE-TO-SITE DATA CONTAINED IN THE SOFTWARE VERSION. FOR SOFTWARE VERSIONS AFTER THE FIRST, THIS PARAGRAPH SHALL DESCRIBE CHANGES MADE TO THE ADAPTATION DATA.

This section is ...TBD....

3.5 Related (Third Party) Documents

SVD-3.5.0 :: THIS PARAGRAPH SHALL LIST BY IDENTIFYING NUMBERS, TITLES, ABBREVIATIONS, DATES, VERSION NUMBERS, AND RELEASE NUMBERS, AS APPLICABLE, ALL DOCUMENTS PERTINENT TO THE SOFTWARE VERSION BEING RELEASED BUT NOT INCLUDED IN THE RELEASE. THESE ARTIFACTS WILL STILL BE LISTED IN THE REFERENCE SECTION, AND CITED HERE AND OTHER PLACES AS APPROPRIATE; THIS SECTION JUST PROVIDES A PLACE TO FURTHER DESCRIBE THESE REFERENCE DOCUMENTS.

This section is ...TBD....

3.6 Installation Instructions

SVD-3.6.0 :: THIS PARAGRAPH SHALL PROVIDE OR REFERENCE THE FOLLOWING INFORMATION, AS APPLICABLE: A. INSTRUCTIONS FOR INSTALLING THE SOFTWARE VERSION; B. IDENTIFICATION OF OTHER CHANGES THAT HAVE TO BE INSTALLED FOR THIS VERSION TO BE USED, INCLUDING SITE-UNIQUE ADAPTATION DATA NOT INCLUDED IN THE SOFTWARE VERSION; C. SECURITY, PRIVACY, OR SAFETY PRECAUTIONS RELEVANT TO THE INSTALLATION; D. PROCEDURES FOR DETERMINING WHETHER THE VERSION HAS BEEN INSTALLED PROPERLY; E. A POINT OF CONTACT TO BE CONSULTED IF THERE ARE PROBLEMS OR QUESTIONS WITH THE INSTALLATION.

This section is ...TBD....

3.7 Possible Problems and Known Errors

SVD-3.7.0 :: THIS PARAGRAPH SHALL IDENTIFY ANY POSSIBLE PROBLEMS OR KNOWN ERRORS WITH THE SOFTWARE VERSION AT THE TIME OF RELEASE, ANY STEPS BEING TAKEN TO RESOLVE THE PROBLEMS OR ERRORS, AND INSTRUCTIONS (EITHER DIRECTLY OR BY REFERENCE) FOR RECOGNIZING, AVOIDING, CORRECTING, OR OTHERWISE HANDLING EACH ONE. THE INFORMATION PRESENTED SHALL BE APPROPRIATE TO THE INTENDED RECIPIENT OF THE SVD (FOR EXAMPLE, A USER AGENCY MAY NEED ADVICE ON AVOIDING ERRORS, A SUPPORT AGENCY ON CORRECTING THEM).

This section is ...TBD....

CHAPTER 4

Notes

ALL-NOTES :: THIS SECTION SHALL CONTAIN ANY GENERAL INFORMATION THAT AIDS IN UNDERSTANDING THIS ARTIFACT (E.G., BACKGROUND INFORMATION, RATIONALE, ETC.)

This section is ...TBD....

4.1 Note Area 1

ALL-NOTES :: THIS SECTION SHALL CONTAIN ANY GENERAL INFORMATION THAT AIDS IN UNDERSTANDING THIS ARTIFACT (E.G., BACKGROUND INFORMATION, RATIONALE, ETC.)

This section is ...TBD....

4.2 Note Area 2

ALL-NOTES :: THIS SECTION SHALL CONTAIN ANY GENERAL INFORMATION THAT AIDS IN UNDERSTANDING THIS ARTIFACT (E.G., BACKGROUND INFORMATION, RATIONALE, ETC.)

This section is ...TBD....

APPENDIX

Appendix

ALL-APPENDIX :: THIS SECTION SHALL CONTAIN ANY GENERAL INFORMATION THAT AIDS IN UNDERSTANDING THIS ARTIFACT (E.G., BACKGROUND INFORMATION, RATIONALE, ETC.)

This section is ...TBD....

A.1 Appendix Area 1

ALL-APPENDIX :: THIS SECTION SHALL CONTAIN ANY GENERAL INFORMATION THAT AIDS IN UNDERSTANDING THIS ARTIFACT (E.G., BACKGROUND INFORMATION, RATIONALE, ETC.)

This section is ...TBD....

A.2 Appendix Area 2

ALL-APPENDIX :: THIS SECTION SHALL CONTAIN ANY GENERAL INFORMATION THAT AIDS IN UNDERSTANDING THIS ARTIFACT (E.G., BACKGROUND INFORMATION, RATIONALE, ETC.)

This section is ...TBD....

Index

All To Be Determined Items, 1, 7, 8, 9, 10

Analog TV, 5

Audio / Visual, 5

Capability Model Maturity Index, 2

Classification Level

Controlled Unclassified Information, 2

Concept of Operations, 1

Glossary

Customer, 6

MIL-STD-498

Data Item Description, 2

System Development Plan, 2

System Version Description, 1, 3

Quality Management System, 2, 3

System Development Life Cycle, 3

This System, 1