System Test Report

for the

KNEAD Example System

Test Set XYZ

DCN: KNEADSTR20240314-P1:100

Revision Date: 14 Mar, 2024

Prepared by:

Lewis Collier
The KNEAD Project
Lexington Park, MD 20653 USA

Distribution is not limited but is governed by the under the conditions of the LaTeX Project Public License.

The KNEAD

Project

UNCLASSIFIED

Distribution Restrictions on Title Page

System / Subsystem

Specification

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 Projectartifact 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.

Draft P1 Preliminary version of this document.

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

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 IN-FORMATION NOTES CAN BE TURNED OFF FOR FORMAL RELEASES, BUT ARE DISPLAYED HERE FOR REFERENCE.

This document provides the System Test Report (STR) for the UNDEFINED System. The system will be referred to as the Undefined-Sys.

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 NUM-BER(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. However, the STR described herein shall be applicable to pre-releases such as Beta-releases for a phased release as listed for each requirement.

This STR documents the test results from the ...TBD... testing event.

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....

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.

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

Figure 1: System Overview

This document format is based upon the guidance in the STR DID [1]. The test results are documented following the guidelines of ISO-12207 [2] and MIL-STD-498 [3] (from which ISO-12207 originated). This document follows the listed STR sub-section order.

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 test results.

Section 4 details the tests results.

Section 5 documents, as applicable, the test parameters beyond those recorded in the test itself and provides a log of the detailed test and test case description and results.

Section 6 if needed, lists any general notes as may be applicable.

Appendices if needed, provide additional information regarding the test results.

This document also is structured to allow the STS artifact to serve as the basis for the system test report (STR). Each test is supplied with spaces for capturing pertinent hardware, software, and other log information. Each test is divided into one or more test cases, each

with detailed steps, expected results for each step, and a verification mark for each test step. All tests steps also provide space to fill in the results and to write notes and comments about each test step. The goal of this style is to generate this STR by scanning in the resultant STS artifact with comments to provide a log of the test results. In this manner, a "written" record of the testing is generated, thus saving money by not requiring a completely separate recording document for the STR.

1.3.2 Document Version Information

This document was produced in LaTeX and *BibLaTeX/Biber*. The editing and document preparation were performed using MiKTeX version 2.9 with the build option [LaTeX ⇒ PS ⇒ PDF]. The 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:

Tracking Item	Data
Repository	`https://svn.riouxsvn.com/kneadlatxinputs/` `ExampleArtifactFolders/6c-STR/KNEAD_STR.tex`
Author	LCollier
Revision	595
Rev Date	2017-05-30 14:07:20Z
Print Date	14 Mar, 2024 23:28
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

[1]   DI-IPSC-81440. *Data Item Description for System Test Report.* Dec. 31, 1994.

[2]   IEEE and EIA. *Software life cycle processes.* Mar. 1998.

[3]   MIL-STD-498. *Military Standard Software Development and Documentation.* Dec. 31, 1994.

2.3.2   Project Specific Documents

CHAPTER 3

Overview of Test Results

STR-3.0 :: THIS SECTION SHALL BE DIVIDED INTO THE FOLLOWING PARAGRAPHS TO PROVIDE AN OVERVIEW OF THE TEST RESULTS.

The synopsis of the test results is ...TBD....

3.1 Assessment Overview

STR-3.1.0 :: THIS SECTION SHALL:

(A) PROVIDE AN OVERALL ASSESSMENT OF THE SOFTWARE AS DEMONSTRATED BY THE TEST RESULTS IN THIS REPORT,

(B) IDENTIFY ANY REMAINING DEFICIENCIES, LIMITATIONS, OR CONSTRAINTS THAT WERE DETECTED BY THE TESTING PERFORMED WHERE PROBLEM/CHANGE REPORTS MAY BE USED TO PROVIDE DEFICIENCY INFORMATION.

(C) FOR EACH REMAINING DEFICIENCY, LIMITATION, OR CONSTRAINT, DESCRIBE:

   (A) ITS IMPACT ON SOFTWARE AND SYSTEM PERFORMANCE, INCLUDING IDENTIFICATION OF REQUIREMENTS NOT MET,

   (B) THE IMPACT ON SOFTWARE AND SYSTEM DESIGN TO CORRECT IT AND

   (C) A RECOMMENDED SOLUTION/APPROACH FOR CORRECTING IT.

The assessment overview is ...TBD....

3.2 Impact of Test Environment

STR-3.2.0 :: THIS SECTION SHALL PROVIDE AN ASSESSMENT OF THE MANNER IN WHICH THE TEST ENVIRONMENT MAY BE DIFFERENT FROM THE OPERATIONAL ENVIRONMENT AND THE EFFECT OF THIS DIFFERENCE ON THE TEST RESULTS.

The impact of the test environment is ...TBD....

3.3 Recommended Improvements

STR-3.3.0 :: THIS SECTION SHALL PROVIDE ANY RECOMMENDED IMPROVEMENTS IN THE DESIGN, OPERATION, OR TESTING OF THE SOFTWARE TESTED. A DISCUSSION OF EACH RECOMMENDATION AND ITS IMPACT ON THE SOFTWARE MAY BE PROVIDED. IF NO RECOMMENDED IMPROVEMENTS ARE PROVIDED, THIS PARAGRAPH SHALL STATE "NONE".

The recommended improvements are ...TBD....

CHAPTER 4

Detailed Test Results

STR-4.0.0 :: This section shall be divided into the following paragraphs to describe the detailed results for each test. Note: The word "test" means a related collection of test cases.

The synopsis of the test results is ...TBD....

4.1 Test One Results

STR-4.x.0 :: This paragraph shall identify a test by project-unique identifier and shall be divided into the following subparagraphs to describe the test results.

The test one results are provided in the following sections.

4.1.1 Problems Encountered

STR-4.x.1 :: This section shall summarize the results of the test. The summary shall include, possibly in a table, the completion status of each test case associated with the test (for example, "all results as expected," "problems encountered," "deviations required"). When the completion status is not "as expected," this paragraph shall reference the following sections for details.

The problems encountered during this execution of test one are ...TBD....

4.1.2 Test Case Details

STR-4.x.2 :: This section shall be divided into subsections that identify each test case in which one or more problems occurred. This section shall identify by project unique identifier a test case in which one or more problems occurred, and shall provide:
  (a) A brief description of the problem(s) that occurred,
  (b) Identification of the test procedure step(s) in which they occurred,
  (c) Reference(s) to the associated problem/change report(s) and backup data, as applicable,
  (d) The number of times the procedure or step was repeated in attempting to correct the problem(s) and the outcome of each attempt, and
  (e) Back-up points or test steps where tests were resumed for retesting.

The problems encountered during this execution of test one test cases are ...TBD....

4.1.3 Test Case Deviations

STR-4.x.3 :: This section shall be divided into subsections that identify each test case in which deviations from test case/test procedures occurred. Each subsection shall identify by project unique identifier a test case in which one or more deviations occurred, and shall provide:
  (a) A description of the deviation(s) (for example, test case run in which the deviation occurred and nature of the deviation, such as substitution of required equipment, procedural steps not followed, schedule deviations). (Red-lined test procedures may be used to show the deviations),
  (b) The rationale for the deviation(s), and
  (c) An assessment of the deviations' impact on the validity of the test case.

The deviations during this execution of test one test cases are ...TBD....

CHAPTER 5

Test Log

STR-5.0.0 :: This section shall present, possibly in a figure or appendix, a chronological record of the test events covered by this report. This test log shall include:

(a) The date(s), time(s), and location(s) of the tests performed,

(b) The hardware and software configurations used for each test including, as applicable, part/model/serial number, manufacturer, revision level, and calibration date of all hardware, and version number and name for the software components used, and

(c) The date and time of each test-related activity, the identity of the individual(s) who performed the activity, and the identities of witnesses, as applicable.

The test results are presented below.

5.1 Test 1

The test log for test 1 are on the following pages.

The KNEAD
Project

UNCLASSIFIED
Distribution Restrictions on Title Page

System / Subsystem
Specification

5.2 Test 2

The test log for test 2 are on the following pages.

CHAPTER 6

Notes

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

This chapter is ...TBD....

6.1 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....

6.2 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

Additional Information

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

This section provides additional information, as necessary, to augment the STR.

In general, a scan of the completed STS test pages is expected to be included. This can be included as

The KNEAD
Project

UNCLASSIFIED
Distribution Restrictions on Title Page

System / Subsystem
Specification

Index