

**YEL EIBU ENGINEERING**

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| Software Unit  Test Specification for  SAL |

INDEX

[Document Revision History 3](#_Toc510598931)

[1. Introduction 4](#_Toc510598932)

[1.1 What is the purpose of this document? 4](#_Toc510598933)

[1.2 Who should read this document? 4](#_Toc510598934)

[2. Terminology 4](#_Toc510598935)

[2.1 Definitions 4](#_Toc510598936)

[2.2 Abbreviations 4](#_Toc510598937)

[3. Test Environment 5](#_Toc510598938)

[3.1 HW 5](#_Toc510598939)

[3.2 SW 5](#_Toc510598940)

[4. Test Description 5](#_Toc510598941)

[4.1 Setup 5](#_Toc510598942)

[4.2 Test Steps 5](#_Toc510598943)

[4.3 Cleanup 5](#_Toc510598944)

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# Document Revision History

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| Rev.No. | Date | Status | Change Description | Name |
| See Version Control | 12-05-2023 | Draft | Creation | Florin.Cojocaru |
|  |  |  |  |  |

# No index entries found.Introduction

## What is the purpose of this document?

This document defines a test case for:

|  |  |
| --- | --- |
| **Project** |  |
| **Requirements document** |  |
| **Functionality** | SAL |
| **Requirement ID** |  |
| **Test Type** | White box  Black box |
| **Priority** | Top  High  Medium  Low |

## Who should read this document?

All engineers involved in design and development activities.

# Terminology

## *Definitions*

| **Term** | **Definition** |
| --- | --- |
|  |  |

## *Abbreviations*

| **Abbreviation** | **Description** |
| --- | --- |
|  |  |

# Test Environment

## HW

* N/A

## SW

* waf: waf@RG\_YBS\_R3.4.1
* wscript: wscript@RG\_YBS\_R3.15.0
* python3: python3@RG\_YBS\_R2.1.5
* console\_log: console\_log@RG\_YBS\_R2.0.2
* executor: executor@RG\_YBS\_R2.4.1
* waf\_compilers: waf\_compilers@RG\_YBS\_R3.6.2
* gcc: gcc@RG\_YBS\_R2.1.0
* fsmgen: fsmgen@RG\_YBS\_R4.5.4
* datagen: datagen@RG\_YBS\_R3.5.1
* eut: eut@RG\_YBS\_R4.7.1
* srec: srec@RG\_YBS\_R2.0.0
* code\_metrics: code\_metrics@RG\_YBS\_R2.3.0
* imagix: imagix@RG\_YBS\_R3.1.1
* absint: absint@RG\_YBS\_R3.6.1
* ti\_c2000\_20\_2\_5: ti\_c2000\_20\_2\_5@RG\_YBS\_R1.4.0
* ti\_c2000\_ware: ti\_c2000\_ware@RG\_YBS\_R1.2.0
* ti\_sysconfig: ti\_sysconfig@RG\_YBS\_R1.2.1
* ea: ea@RG\_YBS\_R1.1.0
* asap2: asap2@RG\_YBS\_R1.3.0
* ptci\_windchill: ptci\_windchill@RG\_YBS\_R1.0.0

# Test Description

## Setup

* Clone the git repository associated to the project.
* Download and run **prjboot** command in order to have the toolbox brought to your computer
* Run the **waf configure** command in order to associate the toolbox to the targets.
* Run the **waf build\_hfl\_utest** in order to run the desired tests
* The Following **18** test case will be run:
  + test\_Hfl\_Init\_VerifyThatMemoryIsInitialized
  + test\_Hfl\_MFProcessTransmission\_LogState\_Not\_Stopped
  + test\_Hfl\_MFProcessTransmission\_LogState\_Stopped\_And\_IsrState\_Enabled
  + test\_Hfl\_MFProcessTransmission\_LogState\_Stopped\_And\_IsrState\_Disabled
  + test\_Hfl\_MFProcessTransmission\_LogState\_Stopped\_And\_IsrState\_Disabled\_And\_Buff\_Index\_Less\_than\_Max
  + test\_Hfl\_MFProcessTransmission\_LogState\_Stopped\_And\_IsrState\_Disabled\_And\_Buff\_Index\_Is\_Max
  + test\_Hfl\_MainFunctionStartedbyDefault
  + test\_Hfl\_MainFunctionStartedOperationMode
  + test\_Hfl\_MainFunctionStartedOperationMode1
  + test\_Hfl\_MainFunctionStartedOperationMode7
  + test\_Hfl\_MainFunctionStartedOperationMode8
  + test\_Hfl\_MainFunctionStartedOperationMode9
  + test\_Hfl\_MainFunctionStartedOperationMode2
  + test\_Hfl\_MainFunctionDissableInterrupt
  + test\_Hfl\_MainFunctionStartedOperationMode3
  + test\_Hfl\_MainFunctionStartedOperationMode4
  + test\_Hfl\_MainFunctionStartedOperationMode5
  + test\_Hfl\_MainFunctionStartedOperationMode6

## Test Steps

|  |  |
| --- | --- |
| **Step** | **Action** |
| 1 | Run the **waf clean\_hfl\_utest** |
| 2 | Run the **waf build\_hfl\_utest** |

## Cleanup

|  |  |
| --- | --- |
| **Step** | **Step** |
| 1 | Run the **waf clean\_hfl\_utest** |