**DOCUMENTATION PLAN**

**FNMux**

**DOC. No.TE/FNMux/DPL/Ver 1.0**

25h March 2024

**Copyright Notice**

All rights reserved.

No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission from Team Engineers.

All copyright, confidential information, patents, design rights and all other intellectual property rights of whatsoever nature contained herein are and shall remain the sole and exclusive property of Team Engineers. The information furnished herein is believed to be accurate and reliable.

However, Team Engineers assumes no responsibility for its use, or for any infringements of patents or other rights of third parties resulting from its use.

All other trademarks are the property of their respective owners.

**Approval History-**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Prepared By | Reviewed By | Approved By |
| Name |  |  |  |
| Signature |  |  |  |
| Date |  |  |  |

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| Version (x.y) | Date of Revision | Description of Change | Reason for Change |
| 1.0 | 25th Mar 2024 | Baseline Document |  |
|  |  |  |  |

TABLE OF CONTENTS

[TABLE OF CONTENTS 5](#_Toc162368123)

[1. PREFACE 8](#_Toc162368124)

[1.1. INTRODUCTION 8](#_Toc162368125)

[The FNMux system is proposed to be developed in compliance with CENELEC standards. FNMux System Documentation Plan shall be applicable to following Life Cycle Phases starting from Phase 1-Concept to Phase 11-Operation Maintenance and Performance Monitoring as defined in the EN 50126-1:2017 [Ref. 1]. and Software Plan as defined in EN 50128:2011+A2:2020[Ref. 2] This plan implies and includes Documentation Plan and management activities related to the design and development of FNMux 8](#_Toc162368126)

[1.2. PURPOSE 8](#_Toc162368127)

[a. Life cycle phase wise Documentation Deliverables 8](#_Toc162368128)

[b. Documentation Structure and Control 8](#_Toc162368129)

[c. Traceability of Documentation 8](#_Toc162368130)

[d. ISO / QMS Related Documents[gsrdgtf 8](#_Toc162368131)

[1.3. Scope 8](#_Toc162368132)

[1.4. DEFINTIONS 9](#_Toc162368133)

[Table 1: Definitions 9](#_Toc162368134)

[1.5. ACRONYMS AND ABBREVIATIONS 10](#_Toc162368135)

[VERIFICATION AND VALIDATION PLAN 13](#_Toc162368136)

[1.6. REFERENCES 14](#_Toc162368137)

[**Ref.** 14](#_Toc162368138)

[**Document Title** 14](#_Toc162368139)

[**Version No.** 14](#_Toc162368140)

[**Document Description** 14](#_Toc162368141)

[Ref. 1 14](#_Toc162368142)

[EN 50126-1:2017 14](#_Toc162368143)

[EN 50126-2 :2017 14](#_Toc162368144)

[-- 14](#_Toc162368145)

[Railway Applications- The Specification and Documentation of Reliability, Availability, Maintainability and Safety(RAMS) 14](#_Toc162368146)

[Ref. 2 14](#_Toc162368147)

[EN 50128:2011+A2:2020 14](#_Toc162368148)

[-- 14](#_Toc162368149)

[Railway Applications- Communication, Signalling and Processing Systems-Software for Railway Control and Protecting Systems 14](#_Toc162368150)

[Ref. 3 14](#_Toc162368151)

[EN 50129:2018 14](#_Toc162368152)

[-- 14](#_Toc162368153)

[Railway Applications- Communication, Signalling,and Processing systems- Safety related Electronic System for Signaling 14](#_Toc162368154)

[Ref. 4 14](#_Toc162368155)

[ISO 9001:2015 14](#_Toc162368156)

[-- 14](#_Toc162368157)

[ISO 9001 2015 documents 14](#_Toc162368158)

[Table 2: References 14](#_Toc162368159)

[1.7. RELATIONSHIP WITH OTHER PLANS 15](#_Toc162368160)

[1.8. SYSTEM OVERVIEW 15](#_Toc162368161)

[The Track side of Metro Stations platforms are open in many stations and there is a possibility of the passengers falling on to the track. The Platform Screened Door are used for Metro Platforms to isolate the tracks from the platforms and provide safety for the passengers and logistics movements on the platforms. 15](#_Toc162368162)

[SUNDOOR product is primarily intended for automatic operation of sliding platform screened doors with safety meeting SIL 3. 15](#_Toc162368163)

[There are two leaf’s left and right for the platform screened doors. These doors will be aligned for the position with Metro Compartment doors by the central controller. The Metro Compartment doors are opened by the central controller. The PSD will be opened and closed by SUNDOOR based on the command request by the central controller. The opening and closing of the doors have to be controlled with obstruction detection with Safety as a key objective. The Size of the doors can be .35 m to 5 m. the weight of the doors can be 280 kg. max. The Figure 1 below gives the arrangement of the PSD and Location of the SUNDOOR. 15](#_Toc162368164)

[2. DOCUMENTATION PLAN 16](#_Toc162368165)

[2.1. DOCUMENT LIST AS PER EACH LIFECYCLE PHASE OF EN 50126[Ref 1] 17](#_Toc162368166)

[Table 3: List of Documents as per EN 50126 20](#_Toc162368167)

[2.2. DOCUMENTS LIST AS PER EACH LIFE CYCLE PHASE OF EN 50128 [REF.2] 20](#_Toc162368168)

[**Table 4: List of Documents as per EN 50128** 23](#_Toc162368169)

[2.3. DOCUMENTAION STRUCTURE AND VERSION CONTROL 23](#_Toc162368170)

# PREFACE

## 

## **INTRODUCTION**

The FNMux system is proposed to be developed in compliance with CENELEC standards. FNMux System Documentation Plan shall be applicable to following Life Cycle Phases starting from Phase 1-Concept to Phase 11-Operation Maintenance and Performance Monitoring as defined in the EN 50126-1:2017 [Ref. 1]. and Software Plan as defined in EN 50128:2011+A2:2020[Ref. 2] This plan implies and includes Documentation Plan and management activities related to the design and development of FNMux

* 1. PURPOSE

The purpose of this document is to define the “Documentation plan” for FNMux with the following details.

1. Life cycle phase wise Documentation Deliverables
2. Documentation Structure and Control
3. Traceability of Documentation
4. ISO / QMS Related Documents[gsrdgtf
   1. Scope

The scope of documentation plan is to categorize the documentation needed in all phases of the development and provide them with an identification number that will be tracked, updated and configuration controlled throughout the life cycle of the project. This plan defines the base line for all documents that need to be tracked, version controlled and subject to configuration management.

* 1. DEFINTIONS

|  |  |
| --- | --- |
| **Terms** | **Definitions** |
| SUNDOOR | A solution module provided for the door control of the Metro rail platforms and any other applications where safety is required. |
| Modules | Each hardware block is considered as a module. |
| Learn Mode | A learn run serves to determine and store the door profile and operational characteristics. The learned door parameters are stored in the Door Control Unit retentively and used for normal operation. |
| Normal Mode | In Normal Mode, SUNDOOR controls the doors on learned parameters. |
| LCB Mode | Local Control Block is used for Selection of operation states -Automatic, isolate and Bypass. |
| Automatic | In auto mode, the Door controller will receive hard-wire switch commands from Signaling through the central controller and perform the door opening action. During door opening, the SUNDOOR controls the electromagnetic lock to unlock and drives the motor to open the sliding door. |
| Isolation | Disconnect the central controller hard-wire command and release the motor to the drive invalid command. |
| Bypass | Include local closing and local opening, cuts off the central controller hardwire Command, provides power to the local switch control, bypass the safety circuit, and provide the local bypass signal to the central controller. |

Table 1: Definitions

* 1. ACRONYMS AND ABBREVIATIONS

|  |  |
| --- | --- |
| **Abbreviations** | **Description** |
| AAD | APPLICATION ARCHITECTURE AND DESIGN |
| ADAVR | APPLICATION PREPARATION AND DATA/ALGORITHM VERIFICATION REPORT |
| ADPP | APPLICATION DATA PREPARATION PLAN |
| ADTR | APPLICATION DATA TEST REPORT |
| ADTS | APPLICATION DATA TEST SPECIFICATION |
| ADRS | APPLICATION DATA REQUIREMENTS SPECIFICATION |
| CCSG | C CODING STANDARDS AND GUIDELINES |
| CM | COMMISSIONING MANUAL |
| CMP | CONFIGURATION MANAGEMENT PLAN |
| CPS | COMMUNICATION PROTOCOL SPECIFICATION |
| DP | DOCUMENTATION PLAN |
| DVR | DEPLOYMENT RECORDS AND VERIFICATION REPORT |
| ESSR | ESS REPORT |
| FATP | FACTORY ACCEPTANCE TEST PROCEDURE |
| FITR | FIELD TEST REPORT |
| FMECA | FAILURE MODE EFFECTS CRITICALITY ANALYSIS |
| FRCA | FAILURE REPORT AND CORRECTIVE ACTIONS |
| FSTSR | FAIL SAFETY TEST SPECIFICATION REPORT |
| FTA | FAULT TREE ANALYSIS |
| FTP | FUNCTION TEST PROCEDURE |
| FTR | FUNCTIONAL TEST REPORT |
| FTRCL | FUNCTIONAL TEST REPORT FOR CARD LEVEL |
| GASC | GENERIC APPLICATION SAFETY CASE |
| HA | HAZARD ANALYSIS |
| HDD | HARDWARE DESIGN DESCRIPTION |
| HL | HAZARD LOG |
| HRS | HARDWARE REQUIREMENT SPECIFICATION |
| HSA | HARDWARE SAFETY ANALYSIS |
| HVR | HARDWARE VALIDATION REPORT |
| IM | INSTALLATION MANUAL |
| MIP | MANUFACTURING INSPECTION PLAN |
| MM | MAINTENANCE MANUAL |
| MPR | MANUFACTURING PROCESS RECORDS |
| OSTR | OVERALL SOFTWARE TEST REPORT |
| OSTS | OVERALL SOFTWARE TEST SPECIFICATION |
| PCL | PRE-COMMISSIONING CHECK LIST |
| PDD | PRELIMINARY DESIGN DESCRIPTION |
| PHA | PRELIMINARY HAZARD ANALYSIS |
| QP | QUALTY PLAN |
| RMA | RAM ANALYSIS |
| RMP | RELIABILITY AVAILABILITY MAINTAINABILITY PLAN |
| RN | RELEASE NOTE |
| SAD | SYSTEM ARCHITECTURE DESCRIPTION |
| SADS | SOFTWARE ARCHITECTURE AND DESIGN SPECIFICATION |
| SADVR | SOFTWARE ARCHITECTURE & DESIGN VERIFICATION REPORT |
| SCAD | SOURCE CODE OF APPLICATION DATA/ALGORITHM |
| SCMP | SOFTWARE CONFIGURATION MANAGEMENT PLAN |
| SCR | SOFTWARE CHANGE RECORDS |
| SCTR | SOFTWARE COMPONENT TEST REPORT |
| SDM | SOFTWARE DEPLOYMENT MANUAL |
| SDDP | SYSTEM DESIGN AND DEVELOPMENT PLAN |
| SDP | SUPPLIER DEVELOPMENT PLAN |
| SHTR | SOFTWARE/HARDWARE INTEGRATION TEST REPORT |
| SHTS | SOFTWARE/HARDWARE INTEGRATION TEST SPECIFICATION |
| SIS | SOFTWARE INTERFACE SPECIFICATION |
| SITR | SOFTWARE INTEGRATION TEST REPORT |
| SITS | SOFTWARE INTEGRATION TEST SPECIFICATION |
| SIVR | SOFTWARE INTEGRATION VERIFICATION REPORT |
| SMP | SOFTWARE MAINTENANCE PLAN |
| SMVR | SOFTWARE MAINTENANCE RECORDS AND VERIFICATION REPORT |
| SORVR | SOFTWARE REQUIREMENTS VERIFICATION REPORT |
| SQAP | SOFTWARE QUALITY ASSURANCE PLAN |
| SQAPVR | SOFTWARE QUALITY ASSURANCE PLAN VERIFICATION REPORT |
| SRDP | SOFTWARE RELEASE AND DEPLOYMENT PLAN |
| SRS | SYSTEM REQUIREMENTS AND SPECIFICATION |
| SRVR | SYSTEM REQUIREMENTS VERIFICATION REPORT |
| SSCSD | SOFTWARE SOURCE CODE AND SUPPORTING DOCUMENTATION |
| SSCVR | SOFTWARE SOURCE CODE VERIFICATION REPORT |
| SSP | SYSTEM SAFETY PLAN |
| STS | SYSTEM TEST SPECIFICATION |
| SVR | SOFTWARE VALIDATION REPORT |
| SWRS | SOFTWARE REQUIREMENTS SPECIFICATION |
| TT | TRACEABILITY TABLE |
| TVR | TOOLS VALIDATION REPORT |
| UM | USER MANUAL |
| VVP | VERIFICATION AND VALIDATION PLAN |

Table2: Acronyms and Abbreviations

* 1. REFERENCES

The following are the reference documents referred during the preparation of Documentation Plan for SUNDOOR:

|  |  |  |  |
| --- | --- | --- | --- |
| **Ref.** | **Document Title** | **Version No.** | **Document Description** |
| Ref. 1 | EN 50126-1:2017  EN 50126-2 :2017 | -- | Railway Applications- The Specification and Documentation of Reliability, Availability, Maintainability and Safety(RAMS) |
| Ref. 2 | EN 50128:2011+A2:2020 | -- | Railway Applications- Communication, Signalling and Processing Systems-Software for Railway Control and Protecting Systems |
| Ref. 3 | EN 50129:2018 | -- | Railway Applications- Communication, Signalling,and Processing systems- Safety related Electronic System for Signaling |
| Ref. 4 | ISO 9001:2015 | -- | ISO 9001 2015 documents |

Table 2: References

## 

* 1. RELATIONSHIP WITH OTHER PLANS

This document defines the document identification for all documents in development of SUNDOOR and thus related with all the plans of SUNDOOR development. This document provides baseline of documents for configuration Management Plan and Software Configuration Management Plan. All documents refers to this document for the document identification number and need to be complied to this document.

* 1. SYSTEM OVERVIEW

The Track side of Metro Stations platforms are open in many stations and there is a possibility of the passengers falling on to the track. The Platform Screened Door are used for Metro Platforms to isolate the tracks from the platforms and provide safety for the passengers and logistics movements on the platforms.

SUNDOOR product is primarily intended for automatic operation of sliding platform screened doors with safety meeting SIL 3.

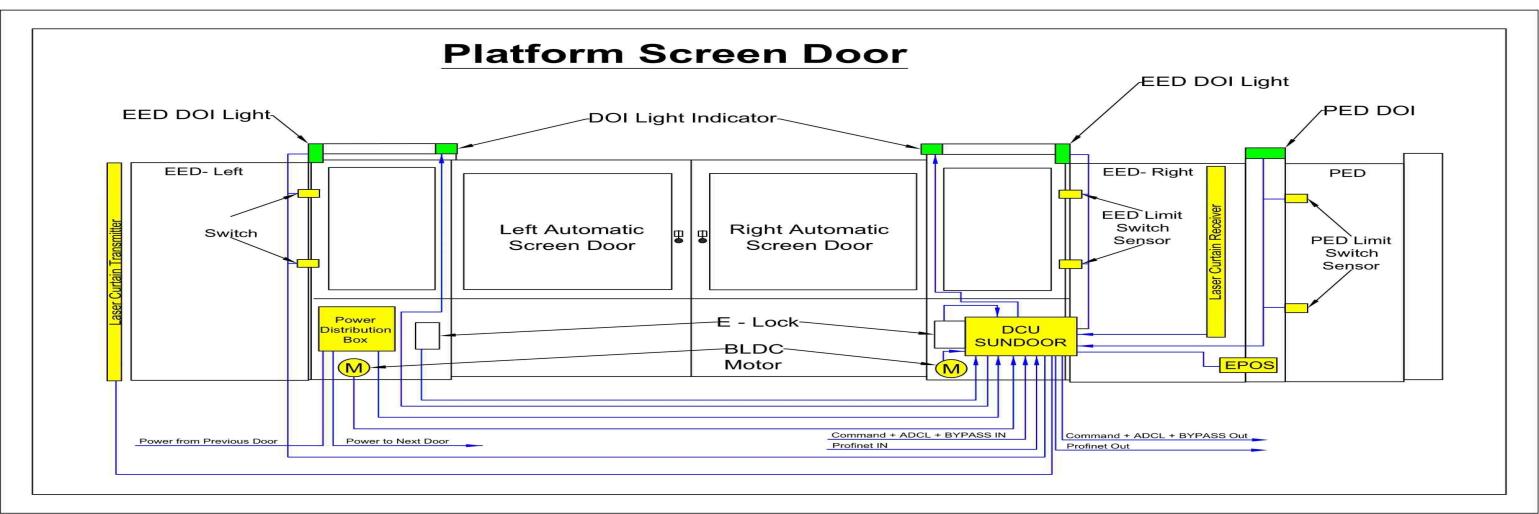
There are two leaf’s left and right for the platform screened doors. These doors will be aligned for the position with Metro Compartment doors by the central controller. The Metro Compartment doors are opened by the central controller. The PSD will be opened and closed by SUNDOOR based on the command request by the central controller. The opening and closing of the doors have to be controlled with obstruction detection with Safety as a key objective. The Size of the doors can be .35 m to 5 m. the weight of the doors can be 280 kg. max. The Figure 1 below gives the arrangement of the PSD and Location of the SUNDOOR.

Figure 1: System Overview

1. DOCUMENTATION PLAN

This section gives the detailed list of documents to be generated for SUNDOOR system as per EN 50126[Ref. 1] and EN 50128:2-11 [Ref. 2]

* 1. DOCUMENT LIST AS PER EACH LIFECYCLE PHASE OF EN 50126[Ref 1]

This section gives the detailed list of documents to be generated for SUNDOOR system as per EN 50126[Ref. 1]

| S. No | EN 50126 Life Cycle Phase | Document Name | Document ID | Remarks |
| --- | --- | --- | --- | --- |
| 1 | 01-Concept Phase | Documentation Plan | STPL/SUNDOOR/DP/001 |  |
| 2 | 01-Concept Phase | System Design and Development Plan | STPL/SUNDOOR/SDDP/002 |  |
| 3 | 02-System Definition and Operational Context | Preliminary Design Description | STPL/SUNDOOR/PDD/003 |  |
| 4 | 02-System Definition and Operational Context | Preliminary Hazard Analysis (PHA) | STPL/SUNDOOR/PHA/004 | Conceptual Hazards |
| 5 | 02-System Definition and Operational Context | System Safety Plan | STPL/SUNDOOR/SSP/005 |  |
| 6 | 02-System Definition and Operational Context | RAM Plan | STPL/SUNDOOR/RMP/006 |  |
| 7 | 02-System Definition and Operational Context | Quality Plan | STPL/SUNDOOR/QP/007 |  |
| 8 | 03-Risk Analysis and Evaluation | Hazard Analysis | STPL/SUNDOOR/HA/008 | Functional, External Interfaces. |
| 9 | 03-Risk Analysis and Evaluation | Hazard Log | STPL/SUNDOOR/HL/009 | Updated along all the lifecycle phases |
| 10 | 04-Specification of System Requirements | System Requirements Specifications | STPL/SUNDOOR/SRS/010 |  |
| 11 | 04-Specification of System Requirements | System Requirements Verification Report | STPL/SUNDOOR/SRVR/011 |  |
| 12 | 04-Specification of System Requirements | Verification and Validation Plan | STPL/SUNDOOR/VVP/012 | For all life cycle Phases |
| 13 | 04-Specification of System Requirements | System Test Specification | STPL/SUNDOOR/STS/013 |  |
| 14 | 04-Specification of System Requirements | Configuration Management Plan | STPL/SUNDOOR/CMP/14 |  |
| 15 | 05-Architecture and Apportionment of System Requirements | System Architecture Description | STPL/SUNDOOR/SAD/015 |  |
| 16 | 05-Architecture and Apportionment of System Requirements | Hardware Requirement Specification | STPL/SUNDOOR/HRS/016 |  |
| 17 | 05-Architecture and Apportionment of System Requirements | Functional Test Procedure | STPL/SUNDOOR/FTP/017 |  |
| 18 | 05-Architecture and Apportionment of System Requirements | Traceability Table | STPL/SUNDOOR/TT/018 |  |
| 19 | 06-Design and Implementation | RAM Analysis | STPL/SUNDOOR/RMA/019 | Updated along all the lifecycle phases Move to Design Phase |
| 20 | 06-Design and Implementation | Hardware Design Description | STPL/SUNDOOR/HDD/020 |  |
| 21 | 06-Design and Implementation | Failure Modes Effects & Criticality Analysis (FMECA) | STPL/SUNDOOR/FMECA/021 |  |
| 22 | 06-Design and Implementation | Fault Tree Analysis (FTA) | STPL/SUNDOOR/FTA/022 |  |
| 23 | 06-Design and Implementation | Factory Acceptance Test Procedure | STPL/SUNDOOR/FATP/023 |  |
| 24 | 06-Design and Implementation | Hardware Safety Analysis | STPL/SUNDOOR/HSA/024 |  |
| 25 | 07-Manufacturing | Manufacturing Process Records | STPL/SUNDOOR/MPR/025 |  |
| 26 | 07-Manufacturing | Functional Test Reports for Card level | STPL/SUNDOOR/FTRCL/026 | For all the cards of SUNDOOR |
| 27 | 07-Manufacturing | ESS reports | STPL/SUNDOOR/ESSR/027 |  |
| 28 | 07-Manufacturing | Manufacturing and inspection plan | STPL/SUNDOOR/MIP/028 |  |
| 29 | 07-Manufacturing | Functional Test Reports at unit/System level | STPL/SUNDOOR/FTR/029 |  |
| 30 | 07-Manufacturing | Supplier Development Plan (SYS/HW/SW) | STPL/SUNDOOR/SDP/030 |  |
| 31 | 08-Integration | Installation Manual | STPL/SUNDOOR/IM/031 |  |
| 32 | 08- Integration | Commissioning Manual | STPL/SUNDOOR/CM/032 |  |
| 33 | 08- Integration | Pre-Commissioning Check List | STPL/SUNDOOR/PCL/033 |  |
| 34 | 09-System Validation | Generic Application Safety Case. | STPL/SUNDOOR/GASC/034 |  |
| 35 | 09-System Validation | Hardware Validation Report | STPL/SUNDOOR/HVR/035 |  |
| 36 | 09-System Validation | Fail Safety Test Specification & Report | STPL/SUNDOOR/FSTSR/036 |  |
| 37 | 09-System Validation | Field Trial Records | STPL/SUNDOOR/FITR/037 | Lab trials |
| 38 | 10-System Acceptance | - |  | Assessment report to be generated by ISA after field trails. |
| 39 | 11-Operation, Maintenance, and performance monitoring | User Manual | STPL/SUNDOOR/UM/039 |  |
| 40 | 11-Operation, Maintenance, and performance monitoring | Maintenance Manual | STPL/SUNDOOR/MM/040 |  |
| 41 | 11-Operation, Maintenance, and performance monitoring | Failure Reports and Corrective Actions | STPL/SUNDOOR/FRCA/041 |  |
| 42 | 12-Decommissioning | Decommissioning Plan |  |  |
| 43 | 12-Decommissioning | Decommissioning Report |  |  |

Table 3: List of Documents as per EN 50126

* 1. DOCUMENTS LIST AS PER EACH LIFE CYCLE PHASE OF EN 50128 [REF.2]

This section gives the detailed list of documents to be generated for SUNDOOR system as per EN 50128[Ref. 2]

| S. No | EN 50128 Life Cycle Phase | Document Name | Document ID | Remarks |
| --- | --- | --- | --- | --- |
| 1 | Planning | Software Quality Assurance Plan | STPL/SUNDOOR/SQAP/044 |  |
| 2 | Software Quality Assurance Plan Verification Report | STPL/SUNDOOR/SQAPVR/045 |  |
| 3 | Software Configuration Management Plan | STPL/SUNDOOR/SCMP/046 |  |
| 4 | C Coding standards and Guidelines | STPL/SUNDOOR/CCSG/047 |  |
| 5 | Software requirements | Software Requirements Specification | STPL/SUNDOOR/SWRS/048 |  |
| 6 | Overall Software Test Specification | STPL/SUNDOOR/OSTS/049 | Traceable to SwRS |
| 7 | Software Requirements Verification Report | STPL/SUNDOOR/SORVR/050 |  |
| 8 | Architecture and Design | Software Architecture & Design Specification | STPL/SUNDOOR/SADS/051 |  |
| 9 | Software Interface Specification | STPL/SUNDOOR/SIS/052 |  |
| 10 | Software Integration Test Specification | STPL/SUNDOOR/SITS/053 |  |
| 11 | Software/Hardware Integration Test Specification | STPL/SUNDOOR/SHTS/054 |  |
| 12 | Software Architecture & Design Verification Report | STPL/SUNDOOR/SADVR/055 |  |
| 13 | Communication Protocol Specification | STPL/SUNDOOR/CPS/056 |  |
| 14 | Component implementation and testing. | Software Source code and supporting documentation | STPL/SUNDOOR/SSCSD/057 |  |
| 15 | Software Component Test Report | STPL/SUNDOOR/SCTR/058 |  |
| 16 | Software Source code Verification Report | STPL/SUNDOOR/SSCVR/059 |  |
| 17 | Integration | Software Integration Test Report | STPL/SUNDOOR/SITR/060 |  |
| 18 | Software/Hardware Integration Test Report | STPL/SUNDOOR/SHTR/061 |  |
| 19 | Software Integration Verification Report | STPL/SUNDOOR/SIVR/062 |  |
| 20 | Overall Software testing/Final Validation. | Overall Software Test Report | STPL/SUNDOOR/OSTR/063 |  |
| 21 | Software Validation Report | STPL/SUNDOOR/SVR/064 |
| 22 | Tools Validation Report | TPLS/SUNDOOR/TVR/065 | Simulation Tools |
| 23 | Release Note | TPLS/SUNDOOR/RN/066 | Release Note from Design to Validation |
| 24 | System configured by application data/algorithms | Application Data Requirements Specification | TPLS/SUNDOOR/ADRS/067 |  |
| 25 | Application Data Preparation Plan | TPLS/SUNDOOR/ADPP/068 |  |
| 26 | Application Data Test Specification | TPLS/SUNDOOR/ADTS/069 |  |
| 27 | Application Architecture and Design | STPL/SUNDOOR/AAD/070 |  |
| 28 | Application Data Test Report | STPL/SUNDOOR/ADTR/071 |  |
| 29 | Source Code of application Data/Algorithm | STPL/SUNDOOR/SCAD/072 |  |
| 30 | Application Preparation and Data/Algorithm Verification Report | STPL/SUNDOOR/ADAVR/073 |  |
| 31 | Software deployment | Software Release and Deployment Plan | STPL/SUNDOOR/SRDP/074 | Release Notes from Validation to Projects |
| 32 | Software Deployment Manual | STPL/SUNDOOR/SDM/075 |  |
| 33 | Deployment Records and Verification Report. | STPL/SUNDOOR/DVR/076 |  |
| 34 | Software Maintenance | Software Maintenance Plan | STPL/SUNDOOR/SMP/077 |  |
| 35 | Software Change Records | STPL/SUNDOOR/SCR/078 |  |
| 36 | Software Maintenance Records and Verification Report | STPL/SUNDOOR/SMVR/079 |  |
| 37 | Software Assessment | Software Assessment Plan | N.A |  |
| 38 | Software Assessment Report | N.A |  |

**Table 4****: List of Documents as per EN 50128**

* 1. DOCUMENTAION STRUCTURE AND VERSION CONTROL

Documentation for each of the above-mentioned documents shall adhere to the CENELEC standard and shall be verified against a checklist provided in EN50126 [Ref. 1], EN50128 [Ref. 2] and EN50129 [Ref. 3] documents.

Version control of all the documents maintained as per the procedure mentioned in Configuration Management plan and Software Configuration Management Plan.