Business Unit MR

CS ExamCardsDatabaseService

*Approver (User): Component Engineer, Subsystem Owner*

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Table of Contents

1. Introduction 3

1.1. Purpose 3

1.2. Scope 3

1.3. References 3

1.4. Terms, Definitions and Abbreviations 4

2. Component Overview 6

3. Component Specification 7

3.1. Functional Requirements 7

3.2. Essential Specifications 20

3.3. Non Functional Requirements 20

3.4. Compliance Specifications 22

4. Component Traceability 23

5. Document History 24

# Introduction

## Purpose

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| INFO 80719  Rev: 2  **✓** | Purpose  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-22 10:28:02 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-22 06:34:23 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-21 15:34:50 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  This document provides an overview of functional and non-functional requirements of ExamCardsDatabase Service. |

## Scope

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| INFO 80720  Rev: 2  **✓** | Scope  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-22 10:28:06 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-22 06:34:28 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-21 15:34:54 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  This document is scope is limited to component level requirements of ExamCardsDatabase Service. |

## References

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| INFO 98393  Rev: 1  **✓** | References\_Voxel  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: C, Arun (320177396) on 2025-06-06 13:24:36 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2025-06-03 03:15:36 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Aithal K, Adhish (310211266) on 2025-06-02 19:27:46 Meaning: SME Approved - (Technical)  Approval Status: [Approved]     |  |  |  |  | | --- | --- | --- | --- | | **Reference** | **Title of document** | **id** | **revision** | | *[SSRQ]* | sSRQ Infrastructure | D002048328 | *A* | |

## Terms, Definitions and Abbreviations

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| INFO 80900  Rev: 2  **✓** | Terms, Definitions and Abbreviations  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-22 10:28:14 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-22 06:34:36 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-21 15:35:03 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]   |  |  | | --- | --- | | ***Term*** | ***Description*** | | Scan Protocol | For any scanning process, parameters like geometry, contrast, post processing and etc need to be defined. Each type of scan on a specific configuration with certain parameter values will yield certain desired result. So, these parameter values are stored for the reuse. The collection of these parameters to scan a particular anatomy and Sub-anatomy of human body is called as Protocol. | | Examcard | Group of Protocols | | ECDb | Collection of Protocols and ExamCards arranged in a folder hierarchy | | default gECDb | Global ECDb which is the default ECDb released as part of MR software release | | gECDb | Global ECDb which is installed via ECDbInstall tool. | | rECDb | Regional ECDb that is developed and maintained by regional MR teams.  To address region specific market needs, it is necessary to develop and deploy ECDbs tailored to the region specific customer needs. The concept of rECDb has been introduced for this purpose. The first version of rECDb will be developed by ACS-NA team for the North America region. | | Backup Script | Script which is executed before upgrading to new system. | | Restore Script | Script which is executed after installation of the new system. | | EC | Exam Card | | RDBMS | Relational Database Management System (For e.g. MS SQL Server) | | SPDB | Scan Protocol Database. The SPS stores the Scan Protocols & Examcards in SPDB. SPDB is a SQL Server database. | | SPDBSEL Tool | Scan Protocol Database Selection Tool | |

# Component Overview

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| FOLDER 80901  Rev: 1  **✓** | Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-19 15:48:14 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-19 15:12:32 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-19 10:24:27 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  ExamCards Database service is a interface to access the database which is hosting examcards and protocols. ExamCards and Protocols are organized under folder level hierarchy in the database. ExaCards and Protocols are used to perform exam for patient.  ExamCards Database Service provides capability to perform CRUD (create/retreieve/update/delete) on examcards/protocols and folders.  ExamCards database Service is a library which can be hosted in proc or out of proc.For out of proc clients, It exposes messaging framework based endpoint to interact with examcards dataabse service. |

# Component Specification

## Functional Requirements

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| SPEC 78632  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.Create  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:46:50 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:20 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:28 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall enable creation of Folders, Protocols and Examcards in ExamCardsDatabase.  Background: |
| SPEC 78633  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.Delete  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:47:06 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:22 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:30 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall provide ability to delete Folders or Scan Protocols or Examcards from the ExamCardsDatabase.    Background: |
| SPEC 78634  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.Move  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:47:20 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:24 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:32 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall allow moving a Folder or Scan Protocol or Examcards to another location in the ExamCardsDatabase.    Background: |
| SPEC 78635  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.Copy  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:47:36 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:25 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:33 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall allow copying a Folder or Scan Protocol or Examcards to another location in the ExamCardsDatabase.      Background: |
| SPEC 78636  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.Rename  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:47:50 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:27 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:35 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall allow rename of a Folder or Scan Protocol or Examcard present in ExamCardsDatabase.  Background: |
| SPEC 78637  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.GetProtocolData  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:48:04 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:29 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:36 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall provide protocol blob, merging the Scan Protocol with its respective configuration specific receipe.    Background: |
| SPEC 78638  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.GetExamcardData  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:48:17 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:30 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:38 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall provide the examcard blob for the requested ExamCard.  Background: |
| SPEC 78639  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.SuggestedExamCards.RisCodes  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:48:35 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:32 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:39 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall provide list of suggested examcards for requested RisCodes.  Background: |
| SPEC 78640  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.UpdateSuggestion  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:48:50 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:33 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:41 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall proivde interface to update mapping information of ExamCard to Ris code.    Background: |
| SPEC 78641  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.GetChildren  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:49:05 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:35 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:42 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall allow retrieving a list of all Folders, Scan Protocols(based on configuration) and Examcards present under requested folder.  Background: |
| SPEC 83165  Rev: 2  **✓** | SWCMP.INFRA.CPMService.Create  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:20 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:20:48 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:55:59 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall enable creation of CPM Folder and  CPM Examcard in ExamCardsDatabase.  Background:  NA |
| SPEC 83166  Rev: 1  **✓** | SWCMP.INFRA.CPMService.CreateRootFolder  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:22 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:20:51 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:01 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall enable creation of CPM Root Folder.  Background:  NA |
| SPEC 83167  Rev: 1  **✓** | SWCMP.INFRA.CPMService.Get  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:24 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:20:53 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:03 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall enable retrival of of CPM Folder and CPM Examcard from ExamCardsDatabase.  Background:  NA |
| SPEC 83168  Rev: 1  **✓** | SWCMP.INFRA.CPMService.GetRootFolder  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:26 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:20:55 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:05 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall enable retrival of of CPM Root Folder from ExamCardsDatabase.  Background:  NA |
| SPEC 83169  Rev: 1  **✓** | SWCMP.INFRA.CPMService.Update  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:27 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:20:57 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:07 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall provide interface to update view order and label for CPM Examcard/CPM Folder.  Background:  NA |
| SPEC 83170  Rev: 1  **✓** | SWCMP.INFRA.CPMService.GetFoldersAndExamCards  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:29 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:20:58 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:09 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall allow retrival of CPM Folders and CPM examcards present under requested CPM folder.  Background:  NA |
| SPEC 83171  Rev: 1  **✓** | SWCMP.INFRA.CPMService.Delete  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:31 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:21:01 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:12 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall enable deletion of CPM Folder and CPM Examcard from ExamCardsDatabase.  Background:  NA |
| SPEC 83172  Rev: 1  **✓** | SWCMP.INFRA.CPMService.CreateExamCardAtRootLevelNotAllowed  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:32 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:21:02 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:14 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall not allow creation of CPM Examcard at Root level.    Note: In CPM context examcard creation at root level referes to creation of examcard under folder corresponding to "scanprotocols.pdb" or "scanprotocols.pdb\{B1860723-4F8F-476e-8075-D42C65706693}"  Background:  NA |
| SPEC 83173  Rev: 1  **✓** | SWCMP.INFRA.CPMService.GetLabel  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:34 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:21:04 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:16 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall provide interface to retrieve label for CPM Folder/CPM Examcard from ExamCardsDatabase.  Background:  NA |
| SPEC 83174  Rev: 1  **✓** | SWCMP.INFRA.CPMService.GetPhysicalName  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:36 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:21:06 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:18 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall provide interface to retrieve physical name for CPM Folder/CPM Examcard from ExamCardsDatabase.  Note: Physical name is the unique name, which is created for folder or examcard in examcardsdatabase.    Background:  NA |
| SPEC 83175  Rev: 1  **✓** | SWCMP.INFRA.CPMService.CreateExamCardInInBox  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:37 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:21:08 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:20 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall enable creation of CPM Folder and  CPM Examcard in ExamCardsDatabase under "InBox" folder.    Note: Here Inbox folder referes to the folder with the label "InBox" present under folder "scanprotocols.pdb\{B1860723-4F8F-476e-8075-D42C65706693}"  Background:  NA |
| SPEC 83176  Rev: 2  **✓** | SWCMP.INFRA.CPMService.DeleteAllHospitalNonCPMEntity  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:39 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Subramanian, Bharathi (310190893) on 2021-08-09 08:21:10 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-02-05 05:56:22 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  CPM service shall allow deletion of all the Non CPM Folders and Non CPM ExamCards which are not marked as ReadOnly.  Note: Non CPM referes the entities which are currently not created by Centrailized Protocol Management workflow.  Background:  NA |
| SPEC 83813  Rev: 1  **✓** | SWCMP.INFRA.SlotService.GetSlotDatabases  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:21 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:23 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:27 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot Service shall enable capability to retrieve list of slot database  Background:  NA |
| SPEC 83814  Rev: 1  **✓** | SWCMP.INFRA.SlotService.AddSlotDatabase  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:24 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:25 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:30 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot Service shall enable capability to add slot database  Background:  NA |
| SPEC 83815  Rev: 1  **✓** | SWCMP.INFRA.SlotService.RenameSlotDatabase  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:25 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:27 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:32 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot Service shall enable capability to rename slot database  Background:  NA |
| SPEC 83816  Rev: 1  **✓** | SWCMP.INFRA.SlotService.RemoveSlotDatabase  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:28 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:29 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:35 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot Service shall enable capability to remove slot database  Background:  NA |
| SPEC 83817  Rev: 1  **✓** | SWCMP.INFRA.SlotService.ActivateSlotDatabase  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:29 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:31 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:38 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot Service shall enable capability to activate slot database and publish message for Auto Refresh  Background:  NA |
| SPEC 83818  Rev: 1  **✓** | SWCMP.INFRA.UserSettings.GetLastSelectedFolder  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:31 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:33 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:40 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot Service shall enable capability to fetch last selected folder in examcard browser (acquisition workflow)  Background:  NA |
| SPEC 83819  Rev: 1  **✓** | SWCMP.INFRA.UserSettings.SetLastSelectedFolder  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:33 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:36 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:43 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot Service shall enable capability to set last selected folder by user in exam card browser (acquisition workflow)  Background:  NA |
| SPEC 83820  Rev: 1  **✓** | SWCMP.INFRA.UserSettings.LastSelectedFolder.ExportExamCard  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:34 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:38 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:46 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot\user setting Service shall enable capability to set and get last user selected folder from Export Exam card Dialog in Exam card Manager  Background:  NA |
| SPEC 83821  Rev: 1  **✓** | SWCMP.INFRA.UserSettings.LastSelectedFolder.ImportExamCard  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:36 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:40 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:48 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot\user setting Service shall enable capability to set and get last user selected folder from Import Exam card Dialog in Exam card Manager  Background:  NA |
| SPEC 83822  Rev: 1  **✓** | SWCMP.INFRA.UserSettings.LastSelectedFolder.ImportSlotDatabase  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:38 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:42 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:51 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot\user setting service shall enable capability to set and get last selected folder from Import Slot database dialog in Exam card Manager  Background:  NA |
| SPEC 83825  Rev: 1  **✓** | SWCMP.INFRA.UserSettings.LastSelectedFolder.ExportSlotDatabase  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-04-06 06:00:40 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Chanda, Anirudha Kumar (310297646) on 2021-04-05 16:14:44 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-04-05 15:59:53 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Slot\user setting Service shall enable capability to set and get last user selected folder from Export Slot database dialog in Exam card Manager  Background:  NA |
| SPEC 84777  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.CreateMandatoryFolders  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-09 08:44:41 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2021-05-24 07:21:59 Meaning: SME Approved - (Business) Signed by: Chanda, Anirudha Kumar (310297646) on 2021-05-20 17:11:44 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Ecdb service shall provide the capability of creating mandatory folders ("if not already available")  when database is accessed,    Mandatory folders are  other database root folder ({B1860723-4F8F-476e-8075-D42C65706693})  other database InBox folder  other database Saved folder  Background:  NA |
| SPEC 84779  Rev: 1  **✓** | SWCMP.INFRA.SlotService.CreateSlotInformationXml  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-05-24 07:26:43 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2021-05-20 15:35:36 Meaning: SME Approved - (Business) Signed by: Chanda, Anirudha Kumar (310297646) on 2021-05-20 13:58:08 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Slot Service shall enable capability to create slot information xml if not available at the start of Slot Service  Background:  NA |
| SPEC 89837  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.PopulateCache  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2022-08-02 09:16:35 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2022-08-01 06:34:00 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: P, Shruthi (310263812) on 2022-07-26 10:08:50 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  ExamcardsDatabase Service shall enable population of cache for all the Folder, Examcard and Protocol for a given database  Background:  NA |
| SPEC 89838  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.UpdateExamCardsAttribute  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2022-08-02 09:17:39 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2022-08-01 06:34:02 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: P, Shruthi (310263812) on 2022-07-29 15:16:24 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  ExamcardsDatabase Service shall enable creation and update of Examcards attribute  Below are the examcard attributes  1) Scan Label  2) Smart Attribute  Background:  NA |
| SPEC 89839  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.GetAllEntity  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2022-08-02 09:18:13 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2022-08-01 06:34:04 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: P, Shruthi (310263812) on 2022-07-26 10:10:36 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  ExamcardsDatabase Service shall enable fetching of all the entity(Folder, ExamCard, Protocol) available in database  Background:  NA |
| SPEC 89840  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.GetFolderChildren  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2022-08-02 09:18:56 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2022-08-01 06:34:06 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: P, Shruthi (310263812) on 2022-07-29 15:17:36 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  ExamcardsDatabase Service shall enable fetching  of all the children of Folder  Background:  NA |
| SPEC 89841  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.GetExamCardMetaDataExtractionStatus  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2022-08-02 09:19:22 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2022-08-01 06:34:09 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: P, Shruthi (310263812) on 2022-07-26 10:12:07 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  ExamcardsDatabase Service shall enable fetch of examcardMetadata extraction status for a given database  Background:  NA |
| SPEC 98149  Rev: 3  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.EncryptedTemporaryTableOperations  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: C, Arun (320177396) on 2025-06-03 07:01:43 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2025-06-03 03:09:29 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Singh, Prashant (320041288) on 2025-06-02 18:46:28 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  ExamCardsDatabase service shall provide ability to create, update, delete and fetch the encrypted examcards from the ExamCardsDatabase temporary table.  Please note the temporary table is used only for encryption/decryption operations.    Background:  NA |

## Essential Specifications

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| --- | --- |
| INFO 80904  Rev: 1  **✓** | SWCMP.UW.Essential Requirements  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-19 15:48:16 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-19 15:12:36 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-19 10:24:31 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  N.A. |

## Non Functional Requirements

|  |  |
| --- | --- |
| SPEC 78642  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.AccessControl  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:49:31 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:38 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:46 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall provide claim and release mechanism, to limit access of ExamCardsDatabase for edit operations to single client.  Background: |
| SPEC 78750  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.SingleClient.AccessMultipleDatabase  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:49:44 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:40 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:47 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall provide capability to access multiple Examcards Database for each client.  Background: |
| SPEC 78751  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.MutlipleClient.AccessDatabase  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:50:00 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:41 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:49 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ExamCardsDatabase service shall allow access of ExamCardsDatabase to multiple clients.    Background: |
| SPEC 78752  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.Performance.GetExamCards  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:50:14 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:43 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:50 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Time taken to query a folder with 3000 examcards shall be less than 650 ms for ExamCardsDataabseService.    Background: |
| SPEC 78753  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.Performance.GetExamCardData  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:50:33 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:44 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:52 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Time taken to get examcard data, for examcard with size < 1 MB,  shall be less than 100 ms for ExamCardsDataabseService.      Background: |
| SPEC 78754  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.Performance.CreateExamCard  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-01-31 06:50:52 Meaning: QA Approved - (QA) Signed by: Mitra, Miteshkumar (ing02455) on 2020-01-31 06:36:46 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-01-29 06:37:53 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Time taken to create examcard with size < 1 MB,  shall be less than 100 ms for ExamCardsDataabseService.  Background: |
| SPEC 89842  Rev: 1  **✓** | SWCMP.INFRA.ExamCardsDatabaseService.Performance.PopulateCache  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2022-08-02 09:20:23 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2022-08-01 10:44:15 Meaning: SME Approved - (Business) Signed by: P, Shruthi (310263812) on 2022-08-01 09:08:24 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Time taken for populating cache for a database in ECDBService shall be < 300 ms    Note : 3000 number of examcards to be used for populating the cache.  Background:  NA |

## Compliance Specifications

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| --- | --- |
| INFO 80905  Rev: 1  **✓** | SWCMP.UW.Compliance Requirements  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-19 15:48:21 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-19 15:12:42 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-19 10:24:37 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  N.A. |

# Component Traceability

|  |  |
| --- | --- |
| INFO 98395  Rev: 2  **✓** | Component Traceability\_Voxel  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: C, Arun (320177396) on 2025-06-06 15:20:18 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2025-06-06 14:58:53 Meaning: SME Approved - (Business) Signed by: Aithal K, Adhish (310211266) on 2025-06-06 14:31:50 Meaning: SME Approved - (Technical)  Approval Status: [Approved] |

**Attachment:**

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| --- |
| RTM CS EcdbService\_Voxel.xlsm |

# Document History

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| INFO 98394  Rev: 2  **✓** | Document History\_Voxel  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: C, Arun (320177396) on 2025-06-06 15:21:14 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2025-06-06 14:59:58 Meaning: SME Approved - (Business) Signed by: Aithal K, Adhish (310211266) on 2025-06-06 14:33:35 Meaning: SME Approved - (Technical)  Approval Status: [Approved]   |  |  |  |  | | --- | --- | --- | --- | | **Date** | **Level** | **Editor** | **Description** | | 06-Jun-2025 | A | Prashant Singh | Initial Document. Added Requirement Id 98149. | |

