Business Unit MR

CS ExamCards

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

*Approver (Accountable): Component Engineer Manager*

Author: Vinod S

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# Introduction

## Purpose

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| INFO 79426  Rev: 2  **✓** | Purpose  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-05-22 08:38:46 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-05-21 16:15:30 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-05-21 12:47:46 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  The purpose of this document is to describe the specification of ExamCard and it's role in MR workflow.  Intended readers are:   * Application specialists as representatives of future users. * The projects System and SW architects. * The senior designers of the development groups involved * The SW engineers involved in the development of Acquisition wokflow. |

## Scope

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| INFO 79427  Rev: 2  **✓** | Scope  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-05-22 08:38:51 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-05-21 16:15:34 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-05-21 12:47:54 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  The scope of this document is to describe the specification of ExamCard and it's role in MR workflow. |

## References

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| INFO 99068  Rev: 1  **✓** | References\_R13.0.0  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-06-23 09:01:48 Meaning: QA Approved - (QA) Signed by: Channakeshava, Chandralatha (ing09855) on 2025-06-22 17:14:34 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2025-06-22 10:07:12 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]   |  |  |  |  | | --- | --- | --- | --- | | **Reference** | **Title of document** | **id** | **revision** | | 1 | *sSRQ- Userworkflow Apps* | D002015285 | *A* | |

## Terms, Definitions and Abbreviations

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| INFO 79454  Rev: 3  **✓** | Terms, Definitions and Abbreviations  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-06-28 07:35:32 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2022-06-27 15:46:32 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2022-06-27 14:51:49 Meaning: SME Approved - (Business)  Approval Status: [Approved]   |  |  | | --- | --- | | *Term* | *Description* | | Acquisition context | Context which is used for executing scans. This is the context where the study is conducted for patientcurrently in the bore.. | | API | Application programming interface | | CSK | Clinical Science Key | | Dynamic | The series that is obtained after one scan is called a dynamic. One or more dynamics can be configured in a singlescan. | | ECTask | In the user requirements, ECTask is used to indicate a line for a step in the ScanList. Steps are SingleScans or processing steps. SingleScans contain a/o a scan and geometry name and some link and pause/injection indications. Processing Steps or ProcSteps mainly refer to a package and a protocol. Besides ECTasks, the ScanList displays Series. Series are NOT considered ECTasks. | | ExamCard | Electronic version of an MR-protocol, containing ScanProcedures, ScanGeometry reuse, predefined ViewLayouts and instructions on for example how to position the patient and how to plan the scans. | | Acquisition Examcard | The ExamCard loaded for a patient on the table | | GeoLink | Geometrical link between scans, e.g. for different stations in a whole body examination. The GeoLink serves the purpose of integral planning of the linked scans and plays a role in the Series (PatientDB) acquisition and reconstruction number generation. | | Input | A Series that acts as input for a processing step. | | IBS | Image Based Shimming | | MIP | Maximum intensity projection | | MobiFlex | Flexible moving bed infusion imaging. The general purpose of MobiFlex is to allow imaging anatomy with a length exceeding the size of the imaging volume of the MR system. The most important application area is the gadolinium contrast-enhanced imaging of the peripheral vascular system. The flexibility indicates the ability to change virtually any scan parameter per station independent of the other stations in the MobiTrak scan.  MobiFlex is the function that brings great flexibility to the MobiTrak application. It is as flexible as being able to use different ScanProcedures for the different station and that is exactly what we are going to do. In the classic MobiTrak, the operator has to deal with one scan. He will plan the different stations as one, and he will start the whole MobiTrak with one start command. We will retain those properties in MobiFlex, with the help of ExamCards and the ScanSet concept. But when defining the ScanProcedures itself, the operator will notice that he deals with multiple scans. | | MobiTrak | Moving Bed Infusion Tracking. Less flexible form of MobiFlex. | | MST | Main System Type | | MSVP | Multi Station Viewer Package | | PNS | Peripheral Nerve Stimulation | | PreScans | Automatically inserted invisible scans used as preparation of other scans. PreScans are used for automatic coil selection, reference scans for SENSE/CLEAR scans or B1\_Calbration scans for RF Shimming | | Repeat PreScan | The prescan responses will be cleared and the pre-scans will be inserted again | | Primary Input | If a processing step has more than one input, one of the inputs is considered the Primary Input. The role of the primary input and the role of the secondary input(s) are determined completely by the individual packages. For ExamCards, the only relevant distinction is the fact that the processing step is shown attached to its primary input. Secondary inputs are visualized by means of input check boxes.  Distinguishing the primary input from the secondary inputs facilitates the functional difference between inputs for processing packages as Arithmetic and fMRI. Processing packages that have only symmetrical inputs are not bothered by this distinction. | | Processing Step | Processing Step, a work-unit for a processing package that is executed as a whole. ProcessingSteps can be streaming or series-based, depending on whether or not they operate on series retrieved from the patient database. | | ReconStep | A type of processing step for reconstruction of acquisition data. The reconstruction can be performed at a later point of time, thus also called a DelayedReconStep. | | RT | Radiation Therapy | | RTPS | Radiation Therapy Positioning System | | SAR  SED | Specific Absorption Rate. Measure of RF-power deposition in the patient.  Specific Energy Dose. RF energy deposition a patient is exposed to during a scan.  The value of SED is calculated as the product of SAR and scan duration. It is expressed in J/Kg. | | Delivered SED | The total amount of SED dissipated by all scans executed during an examination. | | Current SED | The value of delivered SED that will be considered for the current examination. When an examination is loaded, ExamCards initialize the currentSED with sum of Delivered SED of all examinations of the same patient that are carried out within the cool off time from the start of current examination. If no such examinations exist, it will be initialized to zero. | | Scheduled SED | The predicted value of SED for an examination which is calculated as the sum of predicted SED of all scans in the examination that are not yet executed. | | Scan group | Equivalent to a ScanSet | | ScanEngine | The ScanEngine is a process that executes ScanSets and reports on progress of the individual SingleScans contained in the ScanSet. It is also responsible for dispatching the reconstruction steps sent by the examcards to the recon process for execution. | | ScanSet | A ScanSet groups individual scans (SingleScans) that have distinct spin physics or other stringent timing relation. The scans within a ScanSet will be dispatched as a whole to the scanner subsystem, in order to avoid unwanted interruptions due to operating system or operator mistakes. Examples are the scans of a BolusTrak or the scans of a MobiFlex | | SingleScan | A scan. It can be compared to a preset procedure, but it shows more behaviors than just a set of scan parameters. A SingleScan is performed at a single anatomical position, but its execution may be interleaved with other SingleScans. | | ScanStep        Sequence Development | Originally intended to group a scan or several scans contained in a ScanSet and all processing that can be done without user interaction (in-line processing). Since ProcessingSteps have been modeled differently in the mean time, the concept of ScanStep has lost its meaning.  Sequence Development is a tool that is used to break the PDF validation and view the then state of the PDF on its UI in the form of parameter (both primary and secondary PDF parameters) name-value pairs and sequence objects/attributes list. | | Series-based ProcessingStep | A ProcStep that operates on a series retrieved from the patient database. Such a ProcStep can only be started once all images of the series have been saved to the patient database. Also see "Streaming ProcStep". | | SmartPlan | A feature that allows automatic planning of scans based on landmark extraction of a survey scan (a SmartScout), combined with previously saved planning samples of the geometry to be planned (a SmartGeometry). Although the UI of SmartPlan appears as integrated with the Examcards UI, the implementation of SmartPlan is completely independent of the ExamCards software. It is just mentioned here for the sake of completeness. | | Station | An examination may consist of scans that will be executed at several parts of the human body which require table movements. Each table position at which a scan is executed is called a Station. | | Series | The result as produced by a SingleScan or a ProcStep. The Series may serve as input for another ProcStep. ProcSteps may produce multiple Series. | | Streaming ProcessingStep | A ProcStep that can process images on-the-fly, as soon as each image is produced (by reconstruction or by some other image producer). A streaming ProcStep will take its input from the databus rather than from the patient database. This is the opposite of a series-based ProcStep. | | Suspendable dynamic | Suspendable dynamics are scans of which the execution can be suspended after the completion of some dynamics. At a later time, the execution can be resumed to perform some more dynamics of the scan. During the suspended state, other scan may be executed. | |

# Component Overview

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| FOLDER 79425  Rev: 1  **✓** | Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-05-20 08:26:40 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-05-19 17:24:37 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-05-19 16:44:43 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  **ExamCard:**  ExamCard is the name given to both a ‘description to carry out an examination’ as well as the complete functionality to perform such a description. ExamCards are intended to support routine scanning (imaging) and processing in a daily workflow, which is probably the most important directive in specifying what ExamCards is and is not. ExamCards may be seen as an *e-version* of a cookbook or MR-protocol. Furthermore, ExamCards aim at optimizing the workflow on a scanner. This includes:   * Increasing the efficiency of scanning. Fewer and shorter pauses between scans due to workflow and operator attention. * Automating the post-processing * Fewer operator actions, in popular language fewer mouse clicks. * Share ExamCards across multiple sites and scanners. * Making the executed (and yet to be executed) steps persistent with the patient data in order to continue an exam later on, or to repeat the same exam when the patient comes back.1     In acquisition context, the ExamCard allows the user to perform the following action:   * Compose a list of scans and processing steps to be performed for an examination, * Trigger validation for the scans in the ScanList. * Access to planning tools and changing of the parameters of the different scans. * Dispatching the scans for execution and make sure that all the pre-scan actions are performed. * Executing the inline post-processing packages * Perform Delayed Reconstruction * View the informative help text of the scanning and processing steps. * Configure the way the series can be archived.     In order to support scanning, the ExamCard contains ScanSets that consist of consecutive SingleScans. A SingleScan may be divided over two time periods for acquiring two sets of dynamic scans. The time in between may be used for e.g. a BolusTrack Scan. In addition to scan related items, the ExamCard also contains processing related items - ProcessingSteps.The processing related items consist of "single output" processing steps or "multiple outputs" processing steps. Similar to the processing steps,ExamCard also contains recon steps. Recon steps are added to either a single scan or to another recon step.  The ExamCard keep track of the input/output relationship for these steps.   -------------------------   * 1 Note: there are no explicit facilities to store an examcard in the patient database. This is done automatically after each relevant change to the examcard data. |

# Component Specification

## Functional Specification

### ExamCard

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| SPEC 79174  Rev: 1  **✓** | SWCMP.UW.ExamCard.ECTasks  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:31:56 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:39:51 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:02 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An examCard shall contain a collection of individual ECTasks  Background: |
| SPEC 79176  Rev: 1  **✓** | SWCMP.UW.ExamCard.Distinct  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:31:58 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:39:52 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:05 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It should be easy to distinguish different examcards by their name.  Background: |
| SPEC 79177  Rev: 1  **✓** | SWCMP.UW.ExamCard.Contents  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:00 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:39:53 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:06 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An examcard shall contain an ordered collection of Scans as well as Processing Steps with their input-output relations with other steps.  Background: |
| SPEC 79178  Rev: 1  **✓** | SWCMP.UW.ExamCard.Compose  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:02 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:39:55 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:08 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to compose an examcard from both PresetProcedures and other examcards  Background: |
| SPEC 79180  Rev: 1  **✓** | SWCMP.UW.ExamCard.Add  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:04 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:39:56 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:12 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to add ECTasks to an examcard  Background: |
| SPEC 79181  Rev: 1  **✓** | SWCMP.UW.ExamCard.Remove  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:07 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:39:58 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:14 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to remove ECTasks from an examcard unless ECTask is executed (completed/aborted)  Background: |
| SPEC 79182  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanProcedures  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:09 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:39:59 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:16 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Examcards shall contain copies of ScanProcedures and not a reference to PresetProcedures in a ScanProtocol database.  Background: |
| SPEC 79183  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanStates  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:10 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:00 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:18 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Scans and associated Geometries shall change state based on certain user action. The states shall be exposed from the examcard model.  Background: |
| SPEC 79184  Rev: 1  **✓** | SWCMP.UW.ExamCard.ECStates  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:12 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:02 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:20 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Examcards shall expose states based on the states of its ECTasks  Background: |
| SPEC 79185  Rev: 1  **✓** | SWCMP.UW.ExamCard.Move  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:13 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:03 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:22 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to reorder a modifiable (not yet dispatched or executed) ECTask in an examcard  Background: |
| SPEC 79186  Rev: 1  **✓** | SWCMP.UW.ExamCard.Serialize  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:15 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:05 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:24 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An examcard shall allow to serailize it's contents into a .examcard file and to deserialize it back  Background: |
| SPEC 79187  Rev: 1  **✓** | SWCMP.UW.ExamCard.BackwardCompatible  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:16 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:06 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:26 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The examcard shall be backward compatible. An examcard from older release shall be usable in newer release (if not specified otherwise)  Background: |
| SPEC 79190  Rev: 1  **✓** | SWCMP.UW.ExamCard.MainSystemType  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:21 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:10 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:33 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The examcard shall be labeled with the main system type of the system on which it is created or last executed. (This is intended for future extensions, to check whether an image quality problem might be expected when installed on a different system)  Background: |
| SPEC 79191  Rev: 1  **✓** | SWCMP.UW.ExamCard.FirstScan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 12:32:22 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:12 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:00:35 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The first scan in an examcard shall be considered as a Survey (startable without planning)  Background: |
| SPEC 97865  Rev: 1  **✓** | SWCMP.UW.ExamCard.ProtocolReplace  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-06-20 16:19:50 Meaning: QA Approved - (QA) Signed by: Channakeshava, Chandralatha (ing09855) on 2025-06-20 13:28:34 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2025-06-20 11:44:03 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A scan in an examcard can be replaced with another scan if the scan name and geometry are same.  The laterality and geolink shall not be updated; Those shall remain as in the original scan.  Background:  NA |

### ScanSet

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| --- | --- |
| SPEC 79175  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanSet.Group  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:03:13 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:14 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:02:49 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Consecutive scans in an examcard shall be grouped into a ScanSet (Purpose: to ensure critical timing or physics relations).  Background: |
| SPEC 79192  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanSet.States  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:03:15 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:16 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:02:50 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ScanSets shall expose its state based on certain user action or system state. The state of a ScanSet shall be derived from it's containing SingleScans  Background: |
| SPEC 79193  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanSet.Edit  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:03:16 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:18 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:02:52 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The SingleScans in a ScanSet shall be manipulated (move) in a special edit mode.  Background: |
| SPEC 79194  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanSet.ReadyToRun  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:03:18 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:19 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:02:54 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A scanset shall have state "ReadyToRun" when all of the SingleScans have status "ReadyToRun".  Background: |
| SPEC 79195  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanSet.Abort  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:03:19 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:20 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:02:56 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Whenever one of the SingleScans in a ScanSet is aborted, execution of the complete ScanSet is aborted and the ScanSet is marked as aborted.  Background: |

### SingleScan

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| --- | --- |
| SPEC 79197  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Surveys  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:43 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:23 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:04 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Scans shall be marked as startable with out planning (no geometry)  Background: |
| SPEC 79196  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.States  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:44 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:24 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:05 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The SingleScan shall expose its state  Background: |
| SPEC 79199  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Name  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:45 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:26 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:07 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The SingleScan shall contain a name  Background: |
| SPEC 79198  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Geometry  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:47 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:27 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:08 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Geometries shall be associated with a SingleScan. The SingleScan shall be in 'ReadyToRun' state only after the associated geometry is planned  Background: |
| SPEC 79200  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.GeoLink  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:48 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:28 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:09 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to indicate a geometrical link between different SingleScans (e.g. different stations)  Background: |
| SPEC 79201  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Laterality  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:50 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:30 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:10 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  SingleScan shall contain laterality information of the scan  Background: |
| SPEC 79202  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Pause  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:51 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:31 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:12 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to indicate that a SingleScan should not start automatically (user specified pause or Manual start for dynamics)  Background: |
| SPEC 79203  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Progress  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:52 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:33 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:13 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A SingleScan shall expose its Acquisition & Reconstruction progress  Background: |
| SPEC 79204  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.AcqRecNumber  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:54 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:34 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:14 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A SingleScan shall expose its Acquisition & Reconstruction number once it is completed.  Background: |
| SPEC 79205  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Outputs  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:55 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:36 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:16 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A SingleScan has outputs and contains output descriptors for each of them.  Background: |
| SPEC 79206  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Modifiability  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:57 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:37 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:17 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An executed or dispatched scan shall not be available for modification, although they can be copied and executed again.  Background: |
| SPEC 79207  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Copy  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:01:58 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:39 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:18 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to create copy of selected SingleScans  Background: |
| SPEC 79208  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Paste  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:02:00 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:40 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:20 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It should be possible to paste previously copied SingleScans  Background: |
| SPEC 79209  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.GeneratedName  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:02:01 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:41 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:21 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An automatically generated geometry name shall be provided to the SingleScan, while adding scans from the preset procedure to the examcard  Background: |
| SPEC 79210  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.AssignGeometry  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:02:02 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:43 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:22 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  If a SingleScan gets a new geometry, its status may be changed automatically depending on the state of assigned geometry  Background: |
| SPEC 79211  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.FurtherPlanning  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:02:04 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:44 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:24 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  If a NamedGeometry is applied to a scan and not all of its geometry elements are covered by the earlier planning of the NamedGeometry, then the scan will still require further planning. (Will not be moved to ReadyToRun).  Background: |
| SPEC 79212  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.NotPlannedYet  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:02:05 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:46 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:25 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  If a new or not yet planned NamedGeometry is assigned to a scan which has been planned before, the scan will be moved back to the state 'NeedsPlanning'.  Background: |
| SPEC 79213  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.TableMove  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:02:06 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:47 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:26 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A scan shall indicate whether table movemnet is required or not.  Background: |
| SPEC 79214  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Export  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:02:08 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:48 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:28 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to export the scan parameters to a readable format.  Background: |
| SPEC 79215  Rev: 1  **✓** | SWCMP.UW.ExamCard.SingleScan.Baseline  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:02:09 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:50 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:31:29 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The SingleScan shall hold its baseline values and metadata (the first non-conflict value after validation)  Background: |

### Geometry

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| SPEC 79216  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.Name  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:37 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:53 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:30 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Geometries shall be reference by a name  Background: |
| SPEC 79217  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.Share  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:39 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:54 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:32 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Scans that share the same geometry name shall share (in part) the same geometry parameter values.  Background: |
| SPEC 79218  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.Modify  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:40 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:56 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:33 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When a SingleScan with a certain geometry name is modified, all the not yet executed or dispatched scans having the same geometry name are modified subsequently.  Background: |
| SPEC 79219  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.Plan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:42 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:57 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:35 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Scans that share the same geometry identification shall be marked as "Planned" when one of them is planned.  Background: |
| SPEC 79220  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.Rename  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:43 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:40:58 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:37 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When a SingleScan with an existing geometry is created (or geometry name for an existing scan is changed) the scan gets the geometry settings of other scans holding the same geometry  Background: |
| SPEC 79221  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.PropagateCoverage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:45 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:00 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:39 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An option shall be provided to enable or disable the FOV coverage  Background: |
| SPEC 79222  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.SmartPlan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:46 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:02 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:40 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A geometry shall be associated with its smart plan status (if any)  Background: |
| SPEC 79223  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.FreeSlabs  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:47 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:03 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:42 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Scans sharing a NamedGeometry shall have different numbers of free slabs  Background: |
| SPEC 79224  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.NamedGeometry  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:49 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:04 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:44 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  All clinical scans (not being survey or pre-scans) shall have a NamedGeometry regardless of whether it is shared or not.  Background: |
| SPEC 79225  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.Connection  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:51 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:06 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:46 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  NamedGeometries shall be unassociated with scans. However, they can only be planned when connected to a scan.  Background: |
| SPEC 79226  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.Reuse  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:52 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:07 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:48 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Stacks, Free slabs and Shim Volumes shall be reused through NamedGeometries.  Background: |
| SPEC 79227  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.EqualNumberOfStacks  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:53 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:09 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:50 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Scans sharing a NamedGeometry shall have an equal number of stacks.  Background: |
| SPEC 79228  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.Identification  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:55 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:10 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:52 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A Geometry shall be uniquely identified by the combination of name and smartplan type  Background: |
| SPEC 79229  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.AddGeometry  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:56 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:12 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:53 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The geometry name of added SingleScan should be checked against the geometries already present in the examcard.  Background: |
| SPEC 79230  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.Revision  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:58 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:13 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:55 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  For dispatched or executed scans, the geometry name explicitly changes to a new name (based on old name and revision level), when another scan having the same geometry is planned.  Background: |
| SPEC 79231  Rev: 1  **✓** | SWCMP.UW.ExamCard.Geometry.ReloadRevision  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:04:59 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:14 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:04:57 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  If a scan contains a geometry with revision, it shall revert back to its base geometry when the scan is reloaded/saved/reused.  [ Reloaded - Load the same examination from patient database.  Reused - Load the scan from examcard database ]  Background: |

### GeoLinks

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| --- | --- |
| SPEC 79232  Rev: 1  **✓** | SWCMP.UW.ExamCard.GeoLinks.Group  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:11 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:41:07 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:17:35 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A user-specifiable selections of scans can be grouped into a Geometrical Link so that they can be planned in one Planning session.  Background: |
| SPEC 79233  Rev: 1  **✓** | SWCMP.UW.ExamCard.GeoLinks.UniqueNamedGeometry  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:13 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:41:09 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:17:37 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  No two scans within a GeoLink shall have the same NamedGeometry.  Background: |
| SPEC 79234  Rev: 1  **✓** | SWCMP.UW.ExamCard.GeoLinks.Plan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:14 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:41:10 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:17:39 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Geometrically linked scans shall be planned as if one multi-station (MobiTrak) scan is planned.  Background: |
| SPEC 79235  Rev: 1  **✓** | SWCMP.UW.ExamCard.GeoLinks.NoHoldgeometry  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:16 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:41:11 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:17:41 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  HoldGeometry is not applied when GeoLinked scans are going to be planned.  Background: |
| SPEC 79236  Rev: 1  **✓** | SWCMP.UW.ExamCard.GeoLinks.AcqNumber  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:17 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:41:13 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:17:43 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  All scans within a Geometrical Link shall have the same acquisition number  Background: |
| SPEC 79237  Rev: 1  **✓** | SWCMP.UW.ExamCard.GeoLinks.ReconNumber  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:18 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:41:14 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:17:44 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The reconstruction number assigned to the scans based on the FH-order of the scans in the GeoLink. Note: Scans can produce multiple Series. The reconstruction numbering starts with issuing numbers for all first Series in the GeoLink, followed by issuing numbers for all second Series and so on.  Background: |
| SPEC 79238  Rev: 2  **✓** | SWCMP.UW.ExamCard.GeoLinks.SwOption  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:05:55 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:17 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 06:28:17 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The possibility of GeoLinking shall be controlled by software options.   - GeoLinks : AWOPT\_ADV\_MOVING\_BED\_IMA or AWOPT\_MDIXON\_MRA)   - Whole body GeoLinks - Geolink contains more than 4 scans : AWOPT\_WHOLE\_BODY or AWOPT\_MDIXON\_MRA  Background: |
| SPEC 79239  Rev: 1  **✓** | SWCMP.UW.ExamCard.GeoLinks.Store  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:21 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:41:16 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:17:48 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The information about the GeoLink (id-number) and a station-index shall be stored at the Series level in the Patient Database in order to support easy navigation, for example the MultiStation Viewer.  Background: |
| SPEC 81262  Rev: 1  **✓** | SWCMP.UW.ExamCard.GeoLinks.Smart  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-06-01 10:11:37 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2020-06-01 08:32:33 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-06-01 08:28:32 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The GeoLink can't be assigned to a SmartSurvey or a scan with a Smart Geometry.  Background: |

### Suspendable Dynamics

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| SPEC 79240  Rev: 1  **✓** | SWCMP.UW.ExamCard.SuspendableDynamics.Interleaved  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:51:26 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:43:51 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:19:18 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A dynamic scan with at least two dynamics can be executed interleaved in time (suspendable dynamics).  Background: |
| SPEC 79241  Rev: 1  **✓** | SWCMP.UW.ExamCard.SuspendableDynamics.OneScanSet  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:51:28 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:43:52 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:19:20 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A suspendable dynamic scan must be contained within a ScanSet, in order to be able to check and control reconstruction resources.  Background: |
| SPEC 79242  Rev: 1  **✓** | SWCMP.UW.ExamCard.SuspendableDynamics.Progress  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:51:29 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:43:54 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:19:22 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The progress of each split part of a dynamic scan shall be reported as for a regular scan (0-100%)  Background: |
| SPEC 79243  Rev: 1  **✓** | SWCMP.UW.ExamCard.SuspendableDynamics.Stations  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:51:31 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:43:55 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:19:24 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The different stations of a MobiFlex or Whole body scanset shall have different ScanProcedures.  Background: |
| SPEC 79244  Rev: 2  **✓** | SWCMP.UW.ExamCard.SuspendableDynamics.SoftwareOptions  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-11 10:28:30 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-11 10:11:42 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:19 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  The suspendable dynamic feature shall be controlled by software options (AWOPT\_ADV\_PERIPHERAL\_ANGIO & AWOPT\_CONTRAST\_ENH\_PERF).  Background: |
| SPEC 79245  Rev: 1  **✓** | SWCMP.UW.ExamCard.SuspendableDynamics.TableMovement  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:51:34 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:43:57 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:19:27 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The user can decide to place the table movement, prior to and in between the GeoLinked scans under operator or system control mode.  The user must confirm the system controlled table motion. The type of table control applies to the complete ScanSet(s) that contain one or more of the GeoLinked scans.  Background: |
| SPEC 79246  Rev: 1  **✓** | SWCMP.UW.ExamCard.SuspendableDynamics.Edit  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:51:35 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:43:59 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:19:29 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The dynamic properties of steps with in a suspendable dynamics shall be modified in a special edit mode (like number of dynamics, start mode )  Background: |

### Validation

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| SPEC 79300  Rev: 1  **✓** | SWCMP.UW.ExamCard.Validation.AcquisitionContext  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 12:16:48 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-04 10:37:48 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-04 07:46:06 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The SingleScan or Reconstep shall be validated only when the examcard is in acquisition context. It shall be validated whenever an examcard is moved to Acquisition Context, scans are added to the scanlist or their content is changed.  Background: |
| SPEC 79301  Rev: 1  **✓** | SWCMP.UW.ExamCard.Validation.OneValidation  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 12:16:51 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-04 10:37:50 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-04 10:13:54 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Only one validation shall happen at any point in time. (Parallel validations are not allowed).  Background: |
| SPEC 79302  Rev: 1  **✓** | SWCMP.UW.ExamCard.Validation.BackGround  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-05 10:10:31 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2020-03-05 09:57:59 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-03-04 10:29:28 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The validation shall be scheduled as a background task when an examcard is moved to Acquisition context or an item is added to the scanlist. - The items that are waiting initial validation shall be in 'New' state. - If there are Geo-linked scans, planning of these scans shall be allowed only when all the geo-linked scans are validated.  Background: |
| SPEC 79303  Rev: 1  **✓** | SWCMP.UW.ExamCard.Validation.Priority  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-05 10:09:38 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2020-03-05 09:57:28 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-03-04 11:13:22 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Any sync validation request shall get higher priority over the background validation (eg, validation of prescans, scan parameter changes etc)  Background: |
| SPEC 79304  Rev: 1  **✓** | SWCMP.UW.ExamCard.Validation.ValidationContextUpdate  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 12:16:54 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-04 10:37:51 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-04 07:54:07 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The updation of ValidationContext shall be synchronized with validation.  Background: |
| SPEC 79305  Rev: 1  **✓** | SWCMP.UW.ExamCard.Validation.Examcard.Revalidate  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 12:16:56 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-04 10:37:52 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-04 07:54:30 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Any change in the following properties shall trigger a re-validation of examcard and new states shall be defined based on the validation results. - Frame of reference - Heart rate - Coils - Patient Position - RF Excitaion mode - Control Parameter Editor change  Background: |
| SPEC 79306  Rev: 1  **✓** | SWCMP.UW.ExamCard.Validation.Delayed  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 12:16:59 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-04 10:37:54 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-04 07:55:13 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The below strategy shall be applied when re-validation of an examcard is triggered for Heart Rate update.                - Validate the first two non-executed scansets immediately.                - The remaining scans shall be marked for validating later as required (This may delay any user feedback based on validation).  Background: |

### Laterality

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| SPEC 79320  Rev: 1  **✓** | SWCMP.UW.ExamCard.Laterality.Scan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:50 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:41:57 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:20:15 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to set the Laterality of individual scans in an examcard.  Background: |
| SPEC 79321  Rev: 1  **✓** | SWCMP.UW.ExamCard.Laterality.ExamCard  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:52 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:41:58 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:20:18 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to set the laterality at Examcard level which will override any setting on the scan level. The Examcard level laterality shall be applied to all modifiable scans  Background: |
| SPEC 79322  Rev: 1  **✓** | SWCMP.UW.ExamCard.Laterality.Mixed  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:53 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:42:00 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:20:20 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The user can change the laterality of individual scans resulting in a non-uniform Laterality across scans (multi station, whole body) in an examcard. When done, the Examcard shall clearly indicate that the Laterality is in Mixed mode.  Background: |
| SPEC 79323  Rev: 1  **✓** | SWCMP.UW.ExamCard.Laterality.Persist  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:49:54 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:42:01 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:20:22 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The laterality of scans shall be persisted in patient DB and in Examcard DB. The Examcard level laterality shall be derived from the individual scan level laterality  Background: |

### Plan

|  |  |
| --- | --- |
| SPEC 79247  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.Define  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:17 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:01 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:12:43 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  It shall be possible to define the geometry parameter values of a selected SingleScan. The process of defining the geometry settings is called planning.  Background: |
| SPEC 79248  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.Modifiability  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:18 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:02 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:47:39 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Scans that have been not yet validated (New), Invalid, Executed, Being dispatched or in progress are not available for modification, although they can be copied and executed again.  Background: |
| SPEC 79249  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.ComposeGeometry  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:20 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:04 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:48:09 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The geometry of a scan or a set of GeoLinked scans shall be composed and made available for graphical planning  Background: |
| SPEC 79250  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.DecomposeGeometry  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:21 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:05 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:48:27 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The planned geometries received from Graphical planning shall be decomposed and applied to individual scans.  Background: |
| SPEC 79251  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.ParameterEditor  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:23 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:07 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:48:48 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The ScanProtocol and its metadata shall be made available for editing in ParameterEditor  Background: |
| SPEC 79252  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.ViewSession  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:24 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:08 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-24 15:21:54 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The ScanProtocol and its metadata shall be made available for viewing in ParameterEditor  Background: |
| SPEC 79253  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.ParamUpdate  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:26 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:09 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:50:16 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The changes from ParameterEditor shall be validated and push the updated parameters to the editors.  Background: |
| SPEC 79254  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.ReconStep  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:27 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:11 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-24 15:19:10 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The ScanProtocol and metadata shall be made available for editing/viewing a reconStep in ParameterEditor  Background: |
| SPEC 79255  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.ReadyToRun  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:29 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:12 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:50:19 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Scans shall be ReadyToRun when their corresponding Geometry has been planned and the scan is not in conflict.  Background: |
| SPEC 79256  Rev: 2  **✓** | SWCMP.UW.ExamCard.Plan.StartableWithoutPlanning  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:07:38 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:20 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 07:33:02 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Scans marked as "startable without planning" shall be started without being planned. This applies to surveys, prescans etc.  Background: |
| SPEC 79257  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.NamedGeometryAllScans  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:32 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:15 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:50:20 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The NamedGeometry shall be applied to all dependent scans immediately after a scan using this NamedGeometry has been planned.  Background: |
| SPEC 79266  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.Invalidate  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:48 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:29 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-24 14:22:54 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  All geometries or planning results shall be invalidated when the Frame of Reference is changed. All non executed scans return to the state 'NeedsPlanning'.  Background: |
| SPEC 79264  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.Confirm  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:44 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:26 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:50:29 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  There should be an explicit action to confirm or discard planning  Background: |
| SPEC 79258  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.PushSurveyImages  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:34 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:17 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:50:21 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When series is produced for a Survey scan, the series shall be notified to the Graphical planning tool.  Background: |
| SPEC 79259  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.GeoLink  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:36 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:18 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:50:23 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The planning of GeoLinked scans shall not be allowed until all scans in the GeoLink are successfully validated.  Background: |
| SPEC 79260  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.GroupedGeoLink  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:38 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:19 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:50:24 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The GeoLinked scan shall be planned together in a single Plan session.  Background: |
| SPEC 79261  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.PlanControls  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:40 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:21 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-24 15:34:50 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The PlanningComponent shall provide information to describe the behavior and appearance of Plan Controls. The user shall be allowed to plan only if the selected scan is plannable  Background: |
| SPEC 79262  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.PlanControls.Highlight  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:41 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:22 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:50:26 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The Plan Controls shall be highlighted if the user has to plan the scan to make it startable. (ie, the scan is in Needs Planning or InConflict state)  Background: |
| SPEC 79263  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.PlanControls.TrackChanges  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:43 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:24 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:50:27 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The PlanControls shall easily communicate whether any parameter had changed in an Edit session.  Background: |
| SPEC 79265  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.SequenceDevlopment  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:11:46 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 09:59:27 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:50:30 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The PlanningComponnet shall enable Sequence Devlopment if sequence devlopment option is enabled  Background: |
| SPEC 96210  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.Heart.DefaultView  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-06-19 07:10:12 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Channakeshava, Chandralatha (ing09855) on 2025-06-12 09:44:37 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2025-05-19 13:39:56 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  After smart analysis completed for heart anatomy, the configured default view values shall be sent to graphical planning.  Background:  NA |
| SPEC 97261  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.Heart.ReferenceView  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-06-19 07:10:13 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Channakeshava, Chandralatha (ing09855) on 2025-06-12 09:44:38 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2025-05-19 13:40:29 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  While planning a smart geometry, geometry and reference views shall be sent to graphical planning.  Background:  NA |
| SPEC 97731  Rev: 1  **✓** | SWCMP.UW.ExamCard.Plan.Heart.TruePlanes  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-06-19 07:10:15 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Channakeshava, Chandralatha (ing09855) on 2025-06-12 09:44:40 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2025-05-19 13:41:08 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  After smart analysis completed for a heart survey, the smart generated MPRs shall be sent to graphical planning for loading in bottom viewports.  Background:  NA |

### PreScan

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| SPEC 79307  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.Types  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:19 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:21 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:03 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The currently supported PreScan types are: - CoilSurveyScan - SenseRefScan - B0\_PreScan - B1\_Calibration  Background: |
| SPEC 79308  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.Revalidation  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:21 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:23 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:05 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A revalidation of scan is triggered upon completion of a PreScan  Background: |
| SPEC 79309  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.Automated  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:22 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:25 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:07 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  PreScans are inserted automatically (if required) and don’t need any user intervention  Background: |
| SPEC 79310  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.Fail  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:24 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:26 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:09 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A clinical scan shall be cancelled (move back to startable again) if a Prescan fails (Aborted, Invalid, InConflict).  Background: |
| SPEC 79311  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.Dispatching  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:25 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:27 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:10 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A clinical scan is not modifiable if it's prescans are running.  Background: |
| SPEC 79312  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.Visibility  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:27 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:29 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:12 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  All prescans are invisible by default. Prescans shall be made visible via configuration.  Background: |
| SPEC 79313  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.Planning  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:28 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:30 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:14 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  PreScans shall be automatically planned.  Background: |
| SPEC 79314  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.Results  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:30 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:31 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:16 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  PreScan results (coil selection) shall be automatically transferred to the clinical scan.  Background: |
| SPEC 79315  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.RepeatPreScan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:31 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:33 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:18 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The user shall be able to repeat PreScans manually (either by reloading thePreScans or by specifying whether the prescan shall be automatically executed again) for a scan.  Background: |
| SPEC 88151  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.RepeatPreScan.Persist  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Koijk, John van der (320073270) on 2022-06-08 13:00:23 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2022-04-27 09:18:18 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2022-04-25 17:06:47 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  User shall be able to persist the 'reuse prescan' value for a scan.  If 'reuse prescan' is false, will clear the existing prescan responses and insert new prescans if needed.  If 'reuse prescan' is true, will reuse the existing prescans.    Background:  NA |
| SPEC 79317  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.Upgrade  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:34 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:36 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:22 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The deprecated PreScans shall be automatically removed while upgrading an examcard from an older release. For example - Classical Sense reference scan, Classical B1 reference scan  Background: |
| SPEC 79318  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.FilterPreScans  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:36 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:37 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:24 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An option shall be provided to filter prescans while adding an examcard into scanlist.  Background: |
| SPEC 79319  Rev: 1  **✓** | SWCMP.UW.ExamCard.PreScan.Location  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:08:37 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:38 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:06:26 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The prescans shall be available in the 'PreScans' folder in Philips protocol database.  Background: |

### Image Based Shimming

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| --- | --- |
| SPEC 79331  Rev: 1  **✓** | SWCMP.UW.ExamCard.IBS.Types  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:09:16 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:41 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:08:32 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The system shall support two types of Image Based Shimming - B0 (Magnet) - B1 (RF)  Background: |
| SPEC 79332  Rev: 1  **✓** | SWCMP.UW.ExamCard.IBS.ScanState  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:09:17 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:42 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:08:33 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A scan shall indicate that shim calculation is in progress by going to the 'AwaitCalculation' state.  Background: |
| SPEC 79333  Rev: 1  **✓** | SWCMP.UW.ExamCard.IBS.StateTransition  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:09:19 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:44 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:08:35 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A scan shall move to 'AwaitCalculation' state when the Shim Calculation is in progress and it is not in 'AwaitPreScan' state. If the shim calculation happens as part of dispatch, the scan shall remain in 'AwaitPreScan' state itself.  Background: |
| SPEC 79336  Rev: 1  **✓** | SWCMP.UW.ExamCard.IBS.MultiStation  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:09:20 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:46 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:08:37 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Multi-station is supported. Separate B1\_Calibration scans and B0 maps per station are required.  Background: |
| SPEC 79337  Rev: 1  **✓** | SWCMP.UW.ExamCard.IBS.AutoDispatch  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:09:22 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:47 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:08:39 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A scan which changes state from AwaitCalculation to ReadyToRun shall be automatically dispatched if and only if:                - Scanning was halted for this scan, as it was in AwaitCalculation state (waiting for shim responses).  Background: |
| SPEC 79334  Rev: 1  **✓** | SWCMP.UW.ExamCard.IBS.B0ShimmingSurvey.Manual  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:09:23 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:48 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:08:41 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A manual action is required to insert the B0 Shimming survey (it is not auto inserted by the system).  Background: |
| SPEC 79335  Rev: 1  **✓** | SWCMP.UW.ExamCard.IBS.MissingB0ShimmingSurvey  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:09:25 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:50 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:08:42 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The user shall be notified about a missing B0 image based shimming survey (SmartBreast survey), if the user or system attempts to start a scan which requires B0 shim and the survey is not acquired yet.  The user need to insert the B0 Shim Survey manually to continue the scanning.  Background: |
| SPEC 79338  Rev: 1  **✓** | SWCMP.UW.ExamCard.IBS.B0Shim  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:09:26 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:51 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:08:44 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The B0 ImageBasedShimming can only be used with 'Breast' anatomy  Background: |
| SPEC 79339  Rev: 1  **✓** | SWCMP.UW.ExamCard.IBS.B0Shim.SmartSurvey  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:09:28 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:52 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:08:46 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A B0 SmartSurvey is available for the Breast anatomy. This survey is available in the 'Breast' folder inside the 'SmartSurvey' folder in the Philips Protocol database.  Background: |

### ScanDispatch

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| --- | --- |
| SPEC 79267  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.ScanSet  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:51:50 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:29:49 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:08:54 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ScanSets are the units to be dispatched, Not individual scans. A scanset shall be dispatched only if it is in a Startable state.  Background: |
| SPEC 79268  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.Execution  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:51:51 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:29:51 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:08:55 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  ScanSets are dispatched in the order in which they appaer in the examcard.  Background: |
| SPEC 79269  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.AutoStart  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:51:53 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:29:52 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:08:57 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  If the next ScanSet is startable, then it shall be dispatched when the acquisition of current Scanset is completed.  Background: |
| SPEC 79270  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.StartNext  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:51:54 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:29:54 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:08:59 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  If the current ScanSet is Completed and the Next ScanSet is not yet startable, an explicit user action is required to dispatch the next ScanSet  Background: |
| SPEC 79271  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.NoAutoDispatch  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:51:56 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:29:56 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:00 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The Next ScanSet shall not be dispatched, if the current scanset is Aborted or Cancelled  Background: |
| SPEC 79272  Rev: 2  **✓** | SWCMP.UW.ExamCard.ScanDispatch.AutoContinue  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-09-10 08:40:16 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2020-09-10 07:12:11 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2020-09-09 08:29:07 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The Next ScanSet shall NOT be automatically dispatched if AutoContinue is 'OFF', the user need to explicitly start each scanset.  Background: |
| SPEC 79273  Rev: 2  **✓** | SWCMP.UW.ExamCard.ScanDispatch.AutoContinue.Reset  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-09-10 08:41:37 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2020-09-10 07:12:46 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2020-09-09 08:29:25 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The AutoContinue option shall be reset to default (AutoContinue : ON) for a new examination.  Background: |
| SPEC 79274  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.UserSpecifiedPause  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:00 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:01 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:04 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A scan marked with 'User Specified Pause' shall be started only by a user action  Background: |
| SPEC 79275  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.Stop.Pause  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:01 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:03 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:05 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Scan Execution shall automatically stop whenever an Scan with "Pause" occurs.  Background: |
| SPEC 79276  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.Stop.Last  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:03 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:05 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:07 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Scan Execution should automatically stop when the last scan in the examcard has been executed.  Background: |
| SPEC 79277  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.Progress  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:50:43 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-02 12:52:07 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-03-02 10:55:47 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The progress of a SingleScan or ReconStep shall be updated to the examcard model.  Background: |
| SPEC 79278  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.Cancel  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:04 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:06 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:08 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When a clinical scan is Cancelled (stopped before preparing/measuring begins), the cancelled scan shall be made startable again and scheduling of next scans shall be stopped.  Background: |
| SPEC 79279  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.ResourceAvailablity  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:06 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:08 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:10 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A scanset shall be dispatched, only if the required resources (eg: Database, Recon, MRE resources) are available.  Background: |
| SPEC 79280  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.PreScanActions  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:08 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:09 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:11 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A scanset shall be dispatched only if all the required prescan actions are completed.  Background: |
| SPEC 79281  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.HandOver  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:09 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:11 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:13 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The system shall disallow scanning on anyone other than a phantom in the absence of a release key.  Background: |
| SPEC 79282  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.AcquisitionStarted  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:10 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:13 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:14 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The system shall publish information about whether Acquisition had started for an examcard.  Background: |
| SPEC 79283  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.AutomaticStartScan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:12 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:14 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:16 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The Next ScanSet shall be automatically dispatched, if it moves to startable state after user planning (from BeingModified to readyToRun) if 'Automatic StartScan' option is enabled.  Background: |
| SPEC 79284  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.AutomaticStartScan.Persist  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:13 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:16 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:17 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The selection of ''Automatic StartScan' shal be persisted as a user preference.  Background: |
| SPEC 79285  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.PatientContext  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:15 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:17 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:18 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The system shall dispatch a scanset only if a patient is selected and all the mandatory informations are available  Background: |
| SPEC 79286  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.HighSAR  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:16 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:19 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:20 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A warning, requiring user confirmation shall be shown when the first high-SAR scan is about to start for the current patient.  Background: |
| SPEC 79287  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.HighSAR.NoDispatch  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:17 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:21 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:21 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The first high-SAR scan shall not be dispatched until the user confirms the message.  Background: |
| SPEC 79288  Rev: 2  **✓** | SWCMP.UW.ExamCard.ScanDispatch.HighSAR.NoRepeat  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:50:44 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:42:32 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-03-02 10:56:10 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The high-SAR message shall be shown only once per examination.  Background: |
| SPEC 79289  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.HighPNS  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:20 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:24 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:24 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A warning, requiring user confirmation shall be presented to the user when the first scan with increased chance of causing peripheral nerve stimulation (PNS) is about to start for the current patient. (PNS is the result of high dB/dt).  Background: |
| SPEC 79290  Rev: 2  **✓** | SWCMP.UW.ExamCard.ScanDispatch.HighPNS.NoRepeat  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:50:45 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:42:58 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-03-02 11:02:52 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The high-PNS message shall be shown only once per examination.  Background: |
| SPEC 79291  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.VCGCalibration  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-02 05:52:23 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 11:30:27 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 10:09:27 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When VCG calibration mode is Manual, the user shall be notified to start VCG calibration for cardiac synchronized scans, if calibration results are not available for the current examination.  Background: |
| SPEC 81789  Rev: 2  **✓** | SWCMP.UW.ExamCard.ScanDispatch.MissingFrameOfReference  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-02-16 04:43:09 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2021-02-15 10:17:37 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2021-02-15 09:50:54 Meaning: SME Approved - (Business)  Approval Status: [Approved]  A request shall be made to display a pop over message for scan controls, if valid frame of reference is not available. The request shall be withdrawn once the frame of reference is set.  If the development option is enabled, it shall provide an option to reuse the previous frame of reference.  Background:  NA |
| SPEC 81790  Rev: 2  **✓** | SWCMP.UW.ExamCard.ScanDispatch.MissingContrastParameters  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-02-16 04:44:26 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2021-02-15 10:28:25 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2021-02-15 09:52:54 Meaning: SME Approved - (Business)  Approval Status: [Approved]  A request shall be made to display a pop over message for scan controls, if a scanset can't be dispatched, only because of the required contrast parameters are not filled in.  Background:  N.A |
| SPEC 83297  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.ConfirmContrastParameters  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-02-16 04:44:28 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2021-02-15 10:47:15 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2021-02-15 09:53:24 Meaning: SME Approved - (Business)  Approval Status: [Approved]  A request shall be made to display a pop over message for scan controls, if contrast parameters need to be confirmed (i.e., contrast parameters dialog is open) for the next scanset that is either ready for dispatch or only contrast parameters need to be confirmed for dispatch.    A scanset shall not be dispatched, if it is waiting for the confirmation of contrast parameters.  Background:  N.A. |
| SPEC 97220  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.GradientMalfunction\_V2  Model: [Ingenia, Ingenia Ambition, Ingenia Elition, Marlin, MR 7300 BlueSeal, MR 7500 BlueSeal, MR 7700 BlueSeal] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-03-11 10:26:21 Meaning: QA Approved - (QA) Signed by: Channakeshava, Chandralatha (ing09855) on 2025-03-11 09:46:52 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2025-03-11 06:40:03 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The scanset shall not be dispatched if the 'Severe Gradient Malfunction' flag is true.  The user shall be informed by an appropriate message which includes to inform Philips Service.  Background:  NA |
| SPEC 91283  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.GPUSharing\_V1  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-12-07 06:04:43 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2022-12-06 12:39:07 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2022-12-06 12:28:54 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A GPU resource monitoring mechanism shall be in place while trying to dispatch scans or processing steps.     * A Scan or a Delayed Recon that requires GPU for reconstruction shall NOT be dispatched, when an MR-RT processing which needs GPU is active . The scan/recon shall be dispatched after the MR-RT processing is completed. * A user message shall be requested if GPU resources are not available while trying to dispatch a scan or delayed reconstruction. * A user message shall be requested while submitting an MR-RT processing step which needs GPU and GPU resources are not available. * A timeout shall be applied while waiting for the completion of MR-RT processing (say 5 minutes).     [Note: The GPU can be used either by  Reconstruction (for AI - CS\_SENSE etc) or by Therapy for MR-RT processing step like MRCAT Brain and  MRCAT HeadNeck . Both reconstruction and MR-RT processing runs on the host computer.  The Host computer can accommodate only 2 GPUs                  1 - GPU is dedicated for display                  2 - GPU will be shared between Recon and Therapy]    Background:  N.A |
| SPEC 90436  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.RFCoilTemperature  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-09-29 09:03:36 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2022-09-26 06:47:10 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2022-09-22 10:00:59 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The system shall manage the temperature model for a connected RF coil (if the temperature model is enabled for that coil).     * Calculate the temperature of an RF coils for a scanset. * Decay the temperature over the time. * Calculate the wait time to decay the RF coil temperature to the allowed limit.   Background:  NA |
| SPEC 90434  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.InteractiveScan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2022-09-06 10:53:09 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2022-09-05 07:17:36 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2022-09-01 13:17:39 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The system shall publish information about the start and end of an interactive scan.  Background:  NA |
| SPEC 90707  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.RFCoilTemperature.NoReset  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-09-29 09:03:38 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2022-09-26 06:47:34 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2022-09-23 12:14:46 Meaning: SME Approved - (Business)  Approval Status: [Approved]  RF coil temperature shall not reset across examinatons, the system shall decay the RF coil temperature over the time.  Background:  NA |
| SPEC 90437  Rev: 2  **✓** | SWCMP.UW.ExamCard.ScanDispatch.RFCoilTemperature.MaxLimit  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2023-09-06 07:08:13 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2023-09-06 05:35:22 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2023-09-05 09:38:26 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The scanset shall be dispatched only if the predicted RF coil temperature is less than or equal to the allowed limit (41°C).  Background:  NA |
| SPEC 90438  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.RFCoilTemperature.Notify  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-09-29 09:03:42 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2022-09-26 06:49:11 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2022-09-23 12:14:06 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The system shall calculate the required wait time and notify the user, if the calculated RF coil temperature exceeds the allowed limit (41°C).  Based on the calculated wait time, the below notifications shall be triggerred.    Say,         Maximum allowed wait time (tmax)= 3 minutes                  Calculated wait time for the RF coil temperature to be below allowed limit = twait,     |  |  |  | | --- | --- | --- | | **Notification** | **Condition** | **Intention** | | 1 | twait < tmax | * Wait time count down * Dismiss the notification to modify parameters | | 2 | twait > tmax | * Dismiss the notification to modify parameters |     Background:  NA |
| SPEC 95110  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.ExternallyControlled  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2024-08-30 13:07:49 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2024-08-30 12:40:54 Meaning: SME Approved - (Technical) Signed by: Channakeshava, Chandralatha (ing09855) on 2024-07-31 07:38:03 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The scanset shall NOT be dispatch automatically if it is marked as externally controlled.  System shall publish information for START button disable.  An explicit START from external client is required for dispatching the scan.  Background:  NA |
| SPEC 95753  Rev: 2  **✓** | SWCMP.UW.ExamCard.ScanDispatch.PatientAcousticNoise  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2024-10-16 10:07:40 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2024-10-16 08:19:44 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2024-10-16 08:16:23 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  For the pediatric patients (age <= 3 years)  -While dispatching a scan, system shall request to display a pop-up message requiring user confirmation, if the scan’s acoustic noise level is greater than acoustic safe level and the acoustic noise level of executed scans.    Note: Acoustic safe level can be configured in Scan Control Parameters  Background:  NA |
| SPEC 96042  Rev: 1  **✓** | SWCMP.UW.ExamCard.ScanDispatch.FirmwareUpgrade  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-06-20 16:07:57 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2025-06-20 16:04:05 Meaning: SME Approved - (Technical) Signed by: Channakeshava, Chandralatha (ing09855) on 2025-06-19 12:49:26 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The scanset shall NOT be dispatched if the firmware update is in progress or failed. An appropriate message shall be displayed to the user.    Background:  Gust Phase 2 |

### Delayed Reconstruction

|  |  |
| --- | --- |
| SPEC 79340  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.Definition  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:20:57 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:11:43 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:37 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to perform Delayed rconstruction if the raw data is available for a scan.  Background: |
| SPEC 79341  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.ReadyToRun  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:20:59 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:11:45 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:39 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A ReconStep shall be ReadyToRun when it's input is completed and they are validated.  Background: |
| SPEC 79342  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.Start  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:00 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:11:46 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:40 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An explicit user action is required to start a ReconStep if the ‘UserStartRequired’ is set (default setting for Delayed ReconStep).  If the ‘UserStartRequired’ is not set, the step execution shall start as soon as it gets the required inputs and the recon resources.  Background: |
| SPEC 79343  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.State  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:02 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:11:48 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:42 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A ReconStep shall expose it's state  Background: |
| SPEC 79344  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.Series  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:03 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:11:49 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:43 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A ReconStep shall produce one and only one series  Background: |
| SPEC 79345  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.Input  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:05 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:11:50 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:44 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A ReconStep shall have only one input (A scan or another Delayed ReconStep).  Background: |
| SPEC 94988  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.Types\_V1  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2024-07-01 08:44:43 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2024-07-01 06:19:56 Meaning: SME Approved - (Technical) Signed by: Channakeshava, Chandralatha (ing09855) on 2024-06-29 06:24:19 Meaning: SME Approved - (Business)  Approval Status: [Approved]  It shall be possible to add the following types of delayed recon steps (to the correct inputs)     - DelayedReconstruction     - RawExport     - ComplexExport    The DelayedImageProduction steps in existing examcards shall be changed to Invalid.  Background:  NA |
| SPEC 79347  Rev: 2  **✓** | SWCMP.UW.ExamCard.DelRec.RawCpx.SwOptions  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-05-20 08:26:44 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-05-19 16:44:47 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-05-15 06:27:40 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The Raw/Cpx export menu options shall be available only if 'option 35' is enabled.  Background: |
| SPEC 80208  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.DipCpx.ReconstructionMode  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-05-20 08:26:47 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-05-19 16:44:48 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-05-05 14:06:21 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The 'Complex Export' and 'Delayed Image Production' menu options shall **NOT** available, if the reconstrcuction mode of source scan is set to 'Delayed'.  Background:  Added for MR00227724 |
| SPEC 79348  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.CoilSelection  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:09 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:11:54 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:48 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The CoilSelectionStep shall be submitted as ReconStep when requested. The 'UserStartRequired' shall be disable for a CoilSelection step.  Background: |
| SPEC 79349  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.InlineSteps  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:11 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:11:56 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:50 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An examcard shall show the extra recon generated series as a step of the corresponding parent series.  Background: |
| SPEC 79350  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.MIPMPR  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:12 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:11:57 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:51 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  For the Singlescans or delayed ReconSteps, producing an extra recon series for MIP or MPR, an extra reconStep gets added, with the prefix of mode to scan name(eg: MIP - <scan name>)  Background: |
| SPEC 79351  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.Parent  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:14 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:11:59 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:52 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The extra inline recon steps shall be added to the following types of parent series - Single Scan - Delayed Recon Steps.  Background: |
| SPEC 79352  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.InlineSteps.Behavior  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:15 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:12:00 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:54 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The inline recon steps shall have the below behavior :    - Steps shall be added or removed based on the output image types of the parent.    - They shall be persisted as part of examcard in the Examcard database.    - It shall be allowed to perform postprocessing on the inline series step.    - It shall not be possible for them to be edited    - It shall not be possible to clone on its own- Drag-drop/copy-paste/saving of Recon step shall not be allowed.    - When a scan with MIP,MPR or ASL source image mode enabled is copy pasted or drag dropped, the corresponding recon step associated with the scan shall also be retained  Background: |
| SPEC 79353  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.ASLSourceImages  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:17 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:12:02 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:55 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  For the SingleScans or delayed ReconSteps producing ASL source images (as set in parameter editor), an inline recon step gets added with the SOURCE prefix to the scan name( eg: SOURCE pCASL)  Background: |
| SPEC 79354  Rev: 1  **✓** | SWCMP.UW.ExamCard.DelRec.ASLUpgrade  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:21:18 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:12:03 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:36:56 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  As the ASL Subraction operation is removed from Image Algebra, To support backward compatability, examcards with Image Algebra Processing steps will be filtered while loading to the scanlist.  Background: |

### PostProcessing

|  |  |
| --- | --- |
| SPEC 79355  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:02 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:06:51 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:24:29 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A ProcessingStep shall be associated with a scan or a Processing step in an examcard  Background: |
| SPEC 79356  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Add  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:04 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:06:52 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:25:17 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A processing step shall be added to the parent step when a post processing job is submitted from the Package UI (Review Environment).  Background: |
| SPEC 79357  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Status  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:05 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:06:54 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:25:42 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A processing step shall expose its state  Background: |
| SPEC 79358  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Protocol  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:07 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:06:55 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:26:08 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A processing step shall contain a protocol identifier.  Background: |
| SPEC 79359  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Inputs  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:08 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:06:57 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:31:44 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A processing step shall contain input references. A ProcessingStep has at least one series as input  Background: |
| SPEC 79360  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Progress  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:10 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:06:59 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:32:04 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A processing step shall expose its progress  Background: |
| SPEC 79361  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Definition  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:11 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:00 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:32:28 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The package protocol defines the minimum and maximum number of inputs for a ProcessingStep and the exact number of outputs.  Background: |
| SPEC 79362  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Outputs  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:13 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:01 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:32:56 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A ProcessingStep has one or more outputs, and contains an output descriptor for each output.  Background: |
| SPEC 79363  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.ManualStart  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:14 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:03 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 05:39:40 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The start of a processing step shall be controlled by 'Manual Start' property.  If Manual Start is enabled an explicit user action is required to start the processing job, Otherwise it shall be started automatically when all the source images are available.  Background: |
| SPEC 79364  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Validation  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:16 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:04 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:35:31 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  When a ProcessingStep is added or changed it is validated.  The validation includes a check whether the number of inputs is in the allowed range as well as a check on the availability of the processing package option  Background: |
| SPEC 79365  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Streaming  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:18 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:06 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:36:12 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A processing step may work in streaming or series-based mode. This mode determines when the processing step becomes 'ReadyToRun':      - For streaming mode -when its primary input is dispatched.     - For series-based mode - when its inputs are completed  Background: |
| SPEC 79366  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Streaming.ManualStart  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:19 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:07 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:36:37 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Manual start can't be enabled for streaming processing steps.  Background: |
| SPEC 79367  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Modifiability  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:21 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:08 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:37:33 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  ProcessingSteps that have been executed or being executed are not available for modification, although they can be copied and executed again.  Background: |
| SPEC 79369  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.PackageId  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:23 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:10 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:38:09 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  A ProcessingStep shall have a package identifier - a protocol name  Background: |
| SPEC 79368  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Copy  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:25 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:12 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-28 05:38:23 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  It shall be possible to create a copy of a Processing Step.  Background: |
| SPEC 79370  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Cut  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:26 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:13 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:39:39 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  It shall be possible to cut selected Processing Steps (Cut = place on clipboard)  Background: |
| SPEC 79371  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Paste  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:28 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:14 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:40:09 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  It shall be possible to paste previously copied/cut processing steps  Background: |
| SPEC 79372  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Rename  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:29 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:16 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:40:34 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  It shall be possible to rename a ProcessingStep  Background: |
| SPEC 79373  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Delete  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:31 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:17 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:40:59 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  It shall be possible to delete a processing step from an examcard.  Background: |
| SPEC 79374  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Executed.NoDelete  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:32 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:19 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:41:24 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Processing Steps that have started execution can't be deleted.  Background: |
| SPEC 79376  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.ProcessingStep.Stop  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:34 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:20 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:41:48 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  It shall be possible to stop any ProcessingStep that is being executed by explicit user action.  Background: |
| SPEC 79375  Rev: 1  **✓** | SWCMP.UW.ExamCard.PostProcessing.PackageAvailability  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-28 07:33:35 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-28 07:07:22 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-27 18:43:25 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  If a processing package is not available on the system because the SW option is disabled, then any non-completed processing steps referring to this package shall be indicated with the state "OptionNotAvailable", the step cannot be run in the background.  Completed processing steps (retrieved from patient database) are still indicated as "Completed" even if the package is not available on the current system.  Background: |

### Coil Handling

|  |  |
| --- | --- |
| SPEC 86650  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.PreferredCoils\_V1  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-10-06 14:20:21 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2021-10-05 07:45:29 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2021-09-27 17:49:50 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The preferred (recommended) coils shall be saved as part of a SingleScan.  If SmartSelect is off, the preferred coils shall be retrieved directly from ScanProtocol.  If any of the saved coil is not configured in the system, the coils shall be retrieved directly from ScanProtocol.  Background:  N.A |
| SPEC 86651  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.PreferredCoils.ExecuteScan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-10-01 15:33:56 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2021-10-01 06:27:16 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2021-09-27 17:51:18 Meaning: SME Approved - (Business)  Approval Status: [Approved]  When a scan had executed, the preferred coils shall be replaced with the coils that are used for acquisition.  Background:  N.A |
| SPEC 79378  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.DeviceErrors  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:15 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:39:46 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:15:45 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Scanning is prevented if device errors are detected. The user will be notified about these situations.  Background: |
| SPEC 79379  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.Incompatible.Notification  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:16 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:39:48 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:15:47 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When there are coil conflicts, an appropriate message shall be provided to inform the user about the incompatibility set(s) of devices and a suggestion on how to solve the conflict.  Background: |
| SPEC 79380  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.ConnectedCoils  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:17 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:39:49 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:15:49 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The connected coils shall be made available for validation in acquisition context  Background: |
| SPEC 79381  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.Posterior.Disengage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:19 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:39:51 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:15:51 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The user shall specify whether to use Posterior coil by toggling the 'Disengage posterior coil' property in exam setup. If the property has value true, scanning will only be possible with the Posterior coil is in Holdback state. If it is false, the exclusion rules imposed by CoilLogic will determine whether the posterior coil should be used or not.  Background: |
| SPEC 79382  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.Posterior.Incompatible  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:20 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:39:52 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:15:53 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When the connected coils are incompatible with the Posterior coil, the Posterior coil must be retained outside the system when the table is moved in.  The posterior coil must retain in its holdback state.  Background: |
| SPEC 79383  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.Posterior.IncompatibleFreeAtHome  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:21 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:39:53 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:15:54 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When the posterior coil is in 'FreeAtHome' position and conflicts are detected with other connected coils, the system can automatically held back the posterior coil and no need to notify the user.  Background: |
| SPEC 79384  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.Posterior.Engage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:23 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:39:55 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:15:56 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When the Posterior coil is in Holdback state and when there is no explicit user request to hold back the Posterior coil, then it is allowed to have the posterior coil in, the user must be informed how to do that (move table outwards and inwards again).  It is not mandatory to get the posterior coil in, the user may ignore the instruction.  Background: |
| SPEC 79385  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.Posterior.Holdback  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:24 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:39:56 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:15:58 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  On a user request for Holdback, when the Posterior coil is not in its FreeeAtHome state or in Holdback state, an appropriate instruction shall given on how to get it in Holdback state.  Background: |
| SPEC 79386  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.Posterior.ResetHoldback  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:26 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:39:57 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:16:00 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The system shall automatically reset the 'Disengage posterior coil' for every examination.  Background: |
| SPEC 79387  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.NVC1-HeadNeck.Tilt Warning  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:27 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:39:58 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:16:02 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A warning message requiring user confirmation shall be displayed to the user while trying to dispatch a scanset, if 1.5T NVC1 HeadNeck coil is connected to the system. (12NC in the range 451001000481-9 and 459800171231-9).  Background: |
| SPEC 79388  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.NVC1-HeadNeck.Tilt Warning.Dispatch  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:28 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:40:00 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:16:03 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The scanset shall be dispatched only if the user confirms that the connected 1.5T NVC1 HeadNeck coil is not tilted. After confirmation, the tilting message shall not be repeated as long as the patient selection is not changed.  Background: |
| SPEC 79389  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.EndoCoil  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:29 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:40:01 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:16:05 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The user shall be warned before the start of a scan, when an endo coil is part of protocol but it is not connected.  Background: |
| SPEC 79390  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.PartlyConnectedCoils  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-03 08:48:31 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-03 08:40:02 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-03 04:16:07 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  In case of partly connected coils, an appropriate message shall be provided  Background: |
| SPEC 83116  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.SmartSelectQBC  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-01-28 11:27:55 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2021-01-28 11:06:40 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2021-01-28 10:56:33 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The user shall be notified if SmartSelect selects only QBC when the protocol has preferred coils set and that doesn't contain body coil.  Background:  N.A |
| SPEC 85887  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.SmartBreast.IncompatibleCoils  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-07-30 09:03:53 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2021-07-29 08:30:53 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2021-07-28 17:36:56 Meaning: SME Approved - (Business)  Approval Status: [Approved]  A SmartBreast survey shall not be dispatched, if the connected coils are not qualified for SmartBreast functionality (for example - 2Ch Sentinelle Breast coil) and this shall be notified to the user via a pop-up message.  Background:  N.A |
| SPEC 96043  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.RxBaseRestriction  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-06-20 09:04:53 Meaning: QA Approved - (QA) Signed by: Channakeshava, Chandralatha (ing09855) on 2025-06-19 12:47:46 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2025-06-18 07:42:41 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The scanset shall NOT be dispatched if rx base dummy device is present in coil state.  An appropriate message shall be displayed to the user about the restriction and a suggestion on how to solve.  Background:  Gust Phase 2 |
| SPEC 96044  Rev: 1  **✓** | SWCMP.UW.ExamCard.Coils.FirmwareDownload  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-06-20 09:04:07 Meaning: QA Approved - (QA) Signed by: Channakeshava, Chandralatha (ing09855) on 2025-06-19 12:46:43 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2025-06-18 07:43:19 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  DevicesObserver service shall monitor and publish the firmware download status for each devices.  User shall be notified for below firmware download status.   * Download Completed * Download Failed * Download Interrupted     Background:  Gust Phase2 |

### ExamSetup

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| --- | --- |
| SPEC 79324  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamSetup.Anatomy  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:11:09 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:56 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:10:11 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An examcard shall contain 'Anatomy' attribute and it shall be possible to change its value.  Background: |
| SPEC 79325  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamSetup.AnatomicRegion  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:11:11 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:57 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:10:12 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An examcard shall contain 'AnatomicRegion' attribute and it shall be possible to select a value from the list of anatomic regions for the selected anatomy.  Background: |
| SPEC 79326  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamSetup.MandatoryInfo  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:11:13 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:41:58 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:10:14 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The ExamSetup shall publish the mandatory status of its attributes  Background: |
| SPEC 79327  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamSetup.GeoLinkPropagation  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:11:14 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:42:00 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:10:16 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  An examcard shall contain a Geolink Propagation attribute and it shall be enabled or disabled. - When GeoLink Propagation is Disabled, the ProcessingStep is added only to the current scan. - When GeoLink propgation is Enabled, the ProcessingStep is added to all scans with same GeoLink as the current scan.  Background: |
| SPEC 79328  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamSetup.TableUsage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:11:16 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:42:01 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:10:18 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  It shall be possible to disable table movement.  Background: |
| SPEC 79329  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamSetup.HeartRate  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:11:17 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:42:03 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:10:20 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The cardiac frequency/Heart Rate shall be changed via ExamSetup  Background: |
| SPEC 85888  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamSetup.HeartRateRange.Options  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-07-30 09:04:49 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2021-07-29 08:32:00 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2021-07-28 17:52:49 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The range for Heart rate property shall be extended, i.e. >250 beats/min, if the Trigger Extensions option (AWOPT\_OPTION31) is enabled.  (Normal range: 10 - 250, Extended range: 10 - 600).  Background:  N.A |
| SPEC 79330  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamSetup.PatientOrientation  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:11:18 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:42:04 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:10:22 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The PatientOrientation shall be changed via the ExamSetup  Background: |
| SPEC 91339  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamSetup.PatientOrientation.HandPosition  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2023-02-20 06:56:52 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2023-02-14 10:25:03 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2023-02-14 05:43:15 Meaning: SME Approved - (Business)  Approval Status: [Approved]  Hand positions shall be supported for the anatomic regions of 'Upper Extremety' anatomy in Supine and Prone patient positions.  Background:  NA |
| SPEC 91340  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamSetup.PatientOrientation.HandPosition.Default  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2023-02-20 06:56:53 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2023-02-14 10:25:39 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2023-02-14 07:23:37 Meaning: SME Approved - (Business)  Approval Status: [Approved]  For the combination of  the anatomic region, laterality and patient position, the below hand positions shall be applied.     |  |  |  |  | | --- | --- | --- | --- | | **Anatomic Regions** | **Laterality** | **Position** | **HandPosition** | | Hand  Finger  Extremity  Thumb  Wrist joint | Right | Supine | Neutral | | Prone | Superman | | Decub Left/Right | Neutral(No hand positions shown) | | Left | Supine | Neutral | | Prone | Superman | | Decub Left/Right | Neutral(No hand positions shown) | | Both | Supine | Exo-rotation | | Prone | Superman | | Decub Left/Right | Neutral(No hand positions shown) | | Unpaired | Supine | Neutral(No hand positions shown) | | Prone | Neutral(No hand positions shown) | | Decub Left/Right | Neutral(No hand positions shown) | | Shoulder  Acromioclavicular joint  Arm  Clavicle  Forearm bone  Humerus  Scanpula  Elbow | Right | Supine | ExoRotation | | Prone | Superman | | Decub Left/Right | None(No hand positions shown) | | Left | Supine | ExoRotation | | Prone | Superman | | Decub Left/Right | None(No hand positions shown) | | Both | Supine | ExoRotation | | Prone | Superman | | Decub Left/Right | None(No hand positions shown) | | Unpaired | Supine | None(No hand positions shown) | | Prone | None(No hand positions shown) | | Decub Left/Right | None(No hand positions shown) |     Background:  NA |
| SPEC 87189  Rev: 2  **✓** | SWCMP.UW.ExamCard.ExamSetup.DockingMode.Availability  Model: [All] FS: [All] GS: [All] Options: [MR-OR] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-07-18 08:00:27 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2022-07-15 10:50:13 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2022-07-15 06:37:56 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Docking mode shall be available only for the wide aperture systems (WA15/WA30) when MR-OR software option is enabled.  Background:  N.A |
| SPEC 87190  Rev: 2  **✓** | SWCMP.UW.ExamCard.ExamSetup.DockingMode.PatientOrientation  Model: [All] FS: [All] GS: [All] Options: [MR-OR] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-07-18 08:02:10 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2022-07-15 10:51:00 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2022-07-15 06:37:58 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When "Rear" Docking Mode is selected, the resulting scan image shall contain orientation labels that reflect the actual patient orientation.  (Images obtained with "Rear" Docking Mode and "Head First" Patient Orientation shall be equivalent to images obtained with "Front" Docking Mode and "Feet First" Patient Orientation.)  Background:  N.A |
| SPEC 87191  Rev: 2  **✓** | SWCMP.UW.ExamCard.ExamSetup.DockingMode.Restriction  Model: [All] FS: [All] GS: [All] Options: [MR-OR] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-07-18 08:02:11 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2022-07-15 10:51:19 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2022-07-15 06:38:00 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When "Rear" Docking Mode is selected, the Patient Orientation shall be limited to "Head First".  When "Rear" Docking Mode is selected, the Table Usage shall be limited to "Ignore".  Background:  N.A |

### ExamInfo

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| SPEC 79396  Rev: 1  **✓** | SWCMP.UW.ExamCard.ExamInfo.Display  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:12:08 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:42:07 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:11:16 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The ExamInfo component shall enable the display of help content (html description) associated with an examcard, singlescan, recon or viewing processing steps.  Background: |

### Workflow

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| SPEC 79292  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.StopReconstruction  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 12:18:02 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-04 10:38:50 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-04 10:03:26 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The system shall provide an option to stop the reconstruction of a scan whose acquisition has either completed or aborted.  If the multiple scans are grouped into a scan set, the stop reconstruction option shall be enabled only if acquisition of all the scans are completed or aborted.  Background: |
| SPEC 79293  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.ScanSetReadyStatus  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 12:18:05 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-04 10:38:52 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-04 10:02:58 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  When EcEngine is in Idle state, it shall communicate to ScanEngine, whether it has a scanset that is ready for dispatch (ie, NextScanSet is startable, waiting for a pre-scan / shim calculation).  Background: |
| SPEC 79294  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.QuickSurvey  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-11 10:27:03 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-11 10:11:00 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2020-03-10 11:42:11 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  In an examination when frame of reference is (re)defined, examcard shall qualify the first non-executed scan for QuickSurvey conversion by Scanning, if  - it don't have any named geometry - it is neither grouped nor a suspendable dynamic (has only one ExecutionStep).  Any user actions which violates the above conditions, the system shall disqualify the current quick survey and predict the new QuickSurvey again if required.  If the quick survey is aborted, the system shall predict the new QuickSurvey again.  Feedback about QuickSurvey shall be given to the user when the scan qualifies or disqualifes as a QuickSurvey.  Background: |
| SPEC 79295  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.OptimizeTablePositions  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 12:18:09 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-04 10:38:53 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-04 10:03:52 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The TablePositionOptimizer component of Scanning shall be updated with IDs of non-executed scans in the order of execution. - When scans are inserted/removed from scan list, scans are completed or aborted. - The used table positions shall be added to the TablePositionOptimizer.  - The used table positions shall be cleared when a new frame of reference is set or during a new examination. - The TableRanges shall be updated to the TablePositionOptimizer  Background: |
| SPEC 79297  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.UpdateSharedData  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:24:05 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:14:40 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:21:25 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The information about current examination/scan shall be published to the shared State. (like ScanAcquisitionState or ExaminationState). - The SED, SAR and PNS related information - Cardiac frequency / Heart-rate information - ScanSets present in examcard and for each ScanSet, the information like . Progress . Duration . ScanSet states. . Table Movement information . Preferred coils  Background: |
| SPEC 79298  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.Messages  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:24:06 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:15:04 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:21:49 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The messages coming from different components in PatientEngine or from lower layers like Scanning shall be made available for visualization.  Background: |
| SPEC 79296  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.ScreenSaver  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:24:08 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:16:35 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-03-09 08:22:10 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The screen saver shall not be activated while a scan is running on the system.  Background: |
| SPEC 79299  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.EasySwitch  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-11 10:27:05 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-11 10:12:15 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2020-03-10 11:42:12 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  While moving a patient into Acquisition, if the Magnet Ramp counter value is greater than the threshold value of 1, the user shall be notified to contact a service provifder for magnet homogeneity check.  Background: |
| SPEC 83115  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.SamePatient  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-01-28 11:26:23 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2021-01-28 11:05:37 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2021-01-28 10:57:15 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The user shall be requested to confirm whether the patient has been repositioned when the same patient has been moved to Acquisition again.  If the patient is repositioned, the PatientEngine shall request ScanEngine to generate a new Frame of Reference, otherwise the current frame of reference shall be used.  Background:  NA |
| SPEC 83288  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.ScanControlPopover.MRUnsafe  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-02-11 14:36:36 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2021-02-11 12:58:24 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2021-02-11 12:29:34 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  In Acquisition context, a pop over message for scan controls shall be requested, if 'MR Unsafe' implant condition is selected for the patient.  If 'MR Unsafe' implant condition is removed, withdrawal of the message shall be requested.  Background:  N.A |
| SPEC 87640  Rev: 1  **✓** | SWCMP.UW.ExamCard.Workflow.ReuseScanItem  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-06-28 07:34:26 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2022-06-27 15:44:10 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2022-06-27 14:52:20 Meaning: SME Approved - (Business)  Approval Status: [Approved]  An API shall be provided to retrieve the ExamCards from patient database.   * For a study, ExamCard associated with the study shall be retrieved. If the ExamCard association (EC Series) is missing, ExamCard shall be constructed from the parameter blobs associated with the series. * For s series, ExamCard shall be constructed from the parameter blobs associated with the series.       Background:  NA |
| SPEC 87889  Rev: 2  **✓** | SWCMP.UW.ExamCard.Workflow.GantryUpdate  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-03-23 06:49:18 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2022-03-23 06:00:30 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2022-03-22 07:54:39 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  In Acquisition context, PatientEngine shall communicate patient orientation and patient position information (from examcard) to gantry.  Background:  NA |

### ExamCard Tools

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| SPEC 79394  Rev: 1  **✓** | SWCMP.UW.ExamCard.Tools.ProtocolDump  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:13:01 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:42:19 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:12:07 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A tool shall be created to dump parameters of all protocols in an examcard.  Background: |
| SPEC 79395  Rev: 1  **✓** | SWCMP.UW.ExamCard.Tools.ExamcardUpgrade  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-10 13:13:03 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-10 11:42:20 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:12:08 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A tool shall be created to upgrade the examcards in the ExamCards database and automatically save it. When such an upgrade tool is run, the following shall be done - Examcard validation - Removal of link from the Philips/Regional ExampleCards - Update the examcard version - Overwrite of the Examcard in the source path. - Create two protocol parameter dump files (one: before Validation & another: after Validation of Hospital Examcards), and generate difference report for these two dump files.  Background: |

### Therapy

### ECSeries

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| SPEC 79188  Rev: 2  **✓** | SWCMP.UW.ExamCard.ECSeries  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-07-30 09:06:36 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2021-07-29 08:43:05 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2021-07-28 17:54:46 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The examcard shall be saved as a separate ECSeries in the patient database  Background: |
| SPEC 85709  Rev: 1  **✓** | SWCMP.UW.ExamCard.ECSeries,SaveIndication  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-07-30 09:06:39 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2021-07-29 08:38:49 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2021-07-28 17:55:19 Meaning: SME Approved - (Business)  Approval Status: [Approved]  A message shall be published when ECSeries saved to the patient database.  Background:  N.A |
| SPEC 79189  Rev: 2  **✓** | SWCMP.UW.ExamCard.LoadECSeries  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-07-30 09:06:42 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2021-07-29 08:43:41 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2021-07-28 17:55:53 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The examcard shall be retrieved from ECSeries while reloading the patient, if a valied EcSeries is available in the patient database.  Background: |

## Essential Specifications

### IEC-60601-2-33 - SED Management

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| SPEC 79405  Rev: 1  **✓** | SWCMP.UW.ExamCard.SED.StartValue  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:23:14 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:13:15 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 07:46:25 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  When a new examination is created, delivered SED of all existing examinations of the same patient shall be considered if they are carried out with in 3 hours prior to the current examination. The start value shall be set to the sum of the delivered SED of all such examinations.  Background: |
| SPEC 79406  Rev: 1  **✓** | SWCMP.UW.ExamCard.SED.Reset  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:23:16 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:13:16 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 07:46:26 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The value of delivered SED of an examination shall be reset to zero if at least 3 hours have been elapsed after the last examination of the patient.  Background: |
| SPEC 79407  Rev: 1  **✓** | SWCMP.UW.ExamCard.SED.CurrentSED  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:23:17 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:13:18 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 07:46:28 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The current SED of an examination shall be calculated as the sum of start value and the SED attained during that examination.  Background: |
| SPEC 79408  Rev: 1  **✓** | SWCMP.UW.ExamCard.SED.TotalSED.Warning  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:23:19 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:13:19 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 07:46:29 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  While trying to dispatch a scan, the user shall be notified when total SED of the Examination (current SED + scheduled SED of scans that are not yet executed) exceeds the maximum allowed SED limit.  Background: |
| SPEC 79667  Rev: 1  **✓** | SWCMP.UW.ExamCard.SED.TotalSED.Warning.NoRepeat  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:23:20 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:13:21 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 07:46:31 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The Total SED message shall be shown only once per examination.  Background: |
| SPEC 79409  Rev: 1  **✓** | SWCMP.UW.ExamCard.SED.DispatchScanSet.Warning  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:23:21 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:13:22 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 07:46:32 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  A warning shall be shown to the user if the sum of of scheduled SED of scanset to be dispatched and the current SED of the examination exceeds the recommended SED limit.  Background: |
| SPEC 79668  Rev: 1  **✓** | SWCMP.UW.ExamCard.SED.DispatchScanSet.Warning.NoRepeat  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-09 10:23:23 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-09 10:13:23 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 07:46:33 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The Dispatch ScanSet warning shall NOT be shown again in an examination if the user had aceepted to continue scanning with high SED.  Background: |

### IEC3.2

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| SPEC 93511  Rev: 2  **✓** | SWCMP.UW.ExamCard.IEC3.2.RFExcitationMode\_V1  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2024-05-27 10:43:21 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2024-05-27 08:59:47 Meaning: SME Approved - (Technical) Signed by: Channakeshava, Chandralatha (ing09855) on 2024-05-23 10:57:14 Meaning: SME Approved - (Business)  Approval Status: [Approved]  When IEC configuration is set to IEC3.2 or above - The system shall display the RF Excitation mode for the examination in ExamSetup window.   * For IEC32, the display values shall be 'Off' and 'Circular Polarized'. * For IEC >= IEC40, the display values shall be 'Multi Channel-2 (MC-2)' and 'Circular Polarized (CP)'.   - The examcard shall be re-validated, when the RF Excitation Mode is changed.  - The RF Excitation mode shall be updated in ValidationContext for the validation of scans.  Background:  NA |
| SPEC 92069  Rev: 2  **✓** | SWCMP.UW.ExamCard.IEC3.2.RFExcitationMode.Restrictions\_V2  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2024-05-27 10:43:22 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2024-05-27 09:00:25 Meaning: SME Approved - (Technical) Signed by: Channakeshava, Chandralatha (ing09855) on 2024-05-23 10:59:06 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The following restrictions shall apply for RF Excitation Mode.     * For systems that do not use multi-transmit, the value shall be always Circular Polarized (the property will be read-only) * For multi-transmit systems (For IEC Version = IEC32):        - The default value should be OFF, But the user shall restrict an exam to use only Circular Polarized RF (CP).        - For MR conditional implants, RF mode shall be restricted to CP and can't be changed for the examination. * For multi-transmit systems (For IEC Version > IEC32):    - The default value shall be Multi Channel-2 (MC-2), But the user shall restrict an exam to use only Circular Polarized RF (CP).   - For MR conditional implants, the value shall be based on the RF polarization value specified for the implant(the property will be read-only).    Background:  NA |
| SPEC 79413  Rev: 1  **✓** | SWCMP.UW.ExamCard.IEC3.2.RFExcitationMode.Notify  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:12:50 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 10:00:40 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:02:31 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The user shall be notified, when an examination is restricted to use only Circular Polarized RF, for a Multi-Transmit system.  Background: |
| SPEC 79414  Rev: 1  **✓** | SWCMP.UW.ExamCard.IEC3.2.RFExcitationMode.Examination  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-02-26 10:12:51 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-02-26 10:00:41 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-02-26 08:02:03 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The selected RF Excitation Mode shall be active for the entire examination. [The property shall be changed to read-only, once the first scanset moved to Running state]  Background: |
| SPEC 92070  Rev: 1  **✓** | SWCMP.UW.ExamCard.IEC3.2.RFExcitationMode.Reuse\_V1  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2024-05-27 10:43:23 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2024-05-27 09:01:08 Meaning: SME Approved - (Technical) Signed by: Channakeshava, Chandralatha (ing09855) on 2024-05-23 11:01:02 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The RF Excitation mode shall be saved as part of an examcard for re-use.  When use an imported examcard from other systems, the following conditions shall apply.     |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **From** | **IEC Version** | **RF Mode in source** |  | **To** | **IEC Version** | **RF Mode destination** | **Remarks** | | Non - MT | any | Always CP |  | Non - MT | any | Always CP | * < IEC3.2, the property is not visible. * >= IEC3.2, this property is read only. | | Non - MT | any | Always CP |  | MT | < IEC 3.2 | Change to OFF | * The source ec contains option “CP” as it is from Non-MT. * But the RF mode should be changed to OFF always, to enable multi transmit. * As the destination is < IEC3.2, the property is not visible | | Non - MT | any | Always CP |  | MT | = IEC 3.2  > IEC 3.2 | Change to OFF  Change to MC-2 | * The source ec contains option “CP” as it is from Non-MT, The RF mode should be changed to OFF/MC-2. * If required, the user can change the RF mode. | | MT | < IEC3.2 | Always OFF |  | Non - MT | any | Change to CP | * The source ec contains option “OFF”, The RF mode should change to CP. * < IEC3.2, the property is not visible * >= IEC3.2, this property is read only. | | MT | >= IEC3.2 | CP/OFF |  | Non - MT | any | Change to CP | * Always change to CP for Non-MT. * < IEC3.2, the property is not visible * >= IEC3.2, this property is read only. | | MT | < IEC3.2 | Always OFF |  | MT | >= IEC3.2 | No change | * The source ec doesn’t contain RF mode, Change to default( OFF) * If required, the user can change the RF mode. | | MT | >= IEC3.2 | CP/OFF |  | MT | < IEC3.2 | Change to OFF | * The RF mode is not visible to the user and he can’t change, so move to default (OFF) to enable multi-transmit. | | MT | >= IEC3.2 | CP/OFF |  | MT | = IEC3.2  > IEC3.2 | CP/OFF  CP/MC-2 | * Use the value stored in examcard |      [MT- Multi-Transmit, CP - Circular Polarized, MC-2 - MultiChannel-2]    Background:  NA |

### Bore Temperature

|  |  |
| --- | --- |
| SPEC 79416  Rev: 2  **✓** | SWCMP.UW.ExamCard.BoreTemperature.Calculate  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-10-09 07:56:35 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-10-09 07:49:05 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-10-09 07:45:57 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The system shall calculate the bore temperature during scanning.  Background:  Bore Temperature Handling |
| SPEC 79417  Rev: 2  **✓** | SWCMP.UW.ExamCard.BoreTemperature.Dispatch  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-10-09 07:56:37 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-10-09 07:49:30 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-10-09 07:45:26 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The system shall predict the bore temperature for the execution of a scanset and the scanset shall be dispatched only if predicted bore temperature is less than the allowed limit (48°C as required by IEC).  Background:  Bore Temperature Handling |
| SPEC 79418  Rev: 2  **✓** | SWCMP.UW.ExamCard.BoreTemperature.Notify  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-10-09 07:56:39 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-10-09 07:49:59 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-10-09 07:44:41 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The system shall calculate the required wait time and notify user, if the calculated bore temperature exceeds the allowed limit (48°C as required by IEC).  Based on the calculated wait time and patient ventilation settings, the below pop-ups shall be displayed to the user.    Say,         Maximum allowed wait time (tmax)= 3 minutes                  Calculated wait time for the bore temperature to be below allowed limit = twait,                  Maximum Patient Ventilation level = PVUmax     |  |  |  |  | | --- | --- | --- | --- | | Pop-up | Condition | Intention | Exits | | 1 | twait < tmax, current patient ventilation < PVUmax | * Wait time count down * Modify PVU level * Cancel modify parameters | * Wait time elapsed * PVU modified * Cancelled | | 2 | twait < tmax, current patient ventilation = PVUmax | * Wait time count down * Cancel to modify parameters | * Wait time elapsed * Cancelled | | 3 | twait > tmax at current patient ventilation level &&    twait <= tmax if patient ventilation level is increased to PVUmax | * Modify PVU level * Cancel to modify parameters | * PVU modified * Cancelled | | 4 | twait > tmax at current patient ventilation level  &&    even after the patient ventilation level is increased to PVUmax | * Dismiss pop-up to modify parameters | * Pop-up closed |     Background:  Bore Temperature Handling |

## Non Functional Specification

### Performance Requirements

|  |  |
| --- | --- |
| SPEC 79762  Rev: 1  **✓** | SWCMP.UW.ExamCard.Perf.Validation  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-11 14:25:20 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2020-03-11 11:45:55 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2020-03-10 04:12:56 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The validation of an examcard that contain five scans shall be completed in < 0.5s  Background: |

### Crash Recovery

|  |  |
| --- | --- |
| SPEC 79398  Rev: 2  **✓** | SWCMP.UW.ExamCard.CrashRecovery.RestorePlan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-11 06:52:25 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-11 04:18:44 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 12:30:10 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  If a Plan/View session was active for a Scan or ReconStep, it shall be restored. Any parameter modifications made to non-executed scans during that examination may be lost.  Background: |
| SPEC 79399  Rev: 2  **✓** | SWCMP.UW.ExamCard.CrashRecovery.ReuseSurvey  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-11 06:52:30 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-11 04:18:46 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 12:30:11 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The user shall still use the already performed survey to plan the remaining scans.  Background: |
| SPEC 79400  Rev: 2  **✓** | SWCMP.UW.ExamCard.CrashRecovery.SmartPlan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-11 06:52:42 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-11 04:18:47 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 12:30:13 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The user has to redo the SmartSurvey to continue with Smart Planning.  Background: |
| SPEC 79401  Rev: 2  **✓** | SWCMP.UW.ExamCard.CrashRecovery.Restore.QuickSurvey  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-11 06:52:46 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-11 04:18:49 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 12:30:14 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  If the predicted QuickSurvey is completed, it shall be retained.  Background: |
| SPEC 79402  Rev: 2  **✓** | SWCMP.UW.ExamCard.CrashRecovery.Restore.RFExcitationMode  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-11 06:53:09 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-11 04:18:50 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 12:30:15 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The state of RFExcitationMode shall be restored  Background: |
| SPEC 79403  Rev: 3  **✓** | SWCMP.UW.ExamCard.CrashRecovery.Restore.AutoContinue  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2021-02-11 14:37:30 Meaning: QA Approved - (QA) Signed by: Numburi, Uma (310270630) on 2021-02-11 12:58:53 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2021-02-11 12:31:28 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The state of 'Auto Continue' shall be restored  Background:  N.A |
| SPEC 79404  Rev: 2  **✓** | SWCMP.UW.ExamCard.CrashRecovery.Restore.ImageDisplaySettings  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-11 06:53:15 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Numburi, Uma (310270630) on 2020-03-11 04:18:53 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Kumar, Prasanna (310218471) on 2020-03-09 12:30:18 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The image display settings applied for the examination shall be restored.  Background: |
| SPEC 90716  Rev: 1  **✓** | SWCMP.UW.ExamCard.CrashRecovery.Restore.RFCoilTemperature  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2022-09-29 09:05:32 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2022-09-26 06:59:28 Meaning: SME Approved - (Technical) Signed by: Numburi, Uma (310270630) on 2022-09-23 12:15:13 Meaning: SME Approved - (Business)  Approval Status: [Approved]  The RFcoil temperature values shalll be restored after crash recovery.  Background:  NA |

# Component Traceability

|  |  |
| --- | --- |
| INFO 99069  Rev: 1  **✓** | Component Traceability\_R13.0.0  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-06-23 09:02:26 Meaning: QA Approved - (QA) Signed by: Kumar, Prasanna (310218471) on 2025-06-23 08:41:19 Meaning: SME Approved - (Technical) Signed by: Channakeshava, Chandralatha (ing09855) on 2025-06-23 07:49:46 Meaning: SME Approved - (Business)  Approval Status: [Approved]  See the attachments. |

**Attachment:**

|  |
| --- |
| RTM-CS-ExamCards\_R13.0.0\_verA.xlsm |

# Document History

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| INFO 99070  Rev: 1  **✓** | Document History\_R13.0.0  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2025-06-23 09:03:06 Meaning: QA Approved - (QA) Signed by: Channakeshava, Chandralatha (ing09855) on 2025-06-22 17:19:16 Meaning: SME Approved - (Business) Signed by: Kumar, Prasanna (310218471) on 2025-06-22 10:07:15 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  *The Date and Author Name in the document history (below table) is the last date of change and person who made the change in ALM. This may/may not be same as the in CS Title Page (which is the date and person to initiate Agile/WindChill routing).*     |  |  |  |  | | --- | --- | --- | --- | | **Revision** | **Date** | **Author** | **Description** | | A | 15-May-2025 | Vinod S | Initial version for R13.0.0 is based on D002028861, CS ExamCards R12.3.0. | | A | 16-May-2025 | Vinod S | Created new requirement for protocol replace - 97865  Created new requirements for gust firmware download - 96044, 96043 and 96042 | | A | 20-Jun-2025 | Vinod S | Generated the traceability matrix and created version 'A' for the document D002064164 for R13.0.0 | |

