Business Unit MR

CS Connectivity

Voxel

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

*Approver (Accountable): Component Engineer Manager*

Author: Adhish Aithal K

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# Introduction

## Purpose

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| INFO 65681  Rev: 2  **✓** | Purpose  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-22 10:17:31 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-22 06:44:14 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-21 15:29:19 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  The purpose of this document is to specify the functional and non-functional requirements for Connectivity. The target audiences include people who are concerned with the content, behavior and performance (application specialists, architects, domain experts and senior designers). Also this document is meant for those involved in the design and implementation of the Connectivity components. |

## Scope

|  |  |
| --- | --- |
| INFO 93507  Rev: 1  **✓** | Scope Connectivity  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Singh, Prashant (320041288) on 2024-02-10 09:02:27 Meaning: SME Approved - (Business) Signed by: Aithal K, Adhish (310211266) on 2024-02-10 06:42:33 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Scope of this document is limited to Connectivity requirements. |

## References

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| INFO 98088  Rev: 1  **✓** | References\_Voxel  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: C, Arun (320177396) on 2025-06-03 06:58:57 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2025-06-03 03:05:36 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Singh, Prashant (320041288) on 2025-06-02 18:55:52 Meaning: SME Approved - (Technical)  Approval Status: [Approved]   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Reference** | **Doc.Number** | **Author** | **Title** | **Revision** | | [1] | D002015285 | Chandralatha Channakeshava | UserWorkflow SubSystem Requirements (SSRQ) | A | |

## Terms, Definitions and Abbreviations

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| INFO 65688  Rev: 3  **✓** | Terms, Definitions and Abbreviations  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-22 10:17:44 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-22 06:44:25 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-21 15:29:29 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]   |  |  | | --- | --- | | Term | Description | | AE | Application Entity | | DICOM | Digital Imaging and Communications in Medicine | | SF | Single Frame | | IOD | Information Object Definition | | MF | MultiFrame | | MR | Magnetic Reasonnace | | MWL | Modality Worklist | | MPPS | Modality Performed Procedure Step | | RIS | Radiology Information System | | PACS | Picture Archiving and Communication System | |

# Component Overview

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| --- | --- |
| FOLDER 65689  Rev: 2  **✓** | Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-19 15:51:02 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-19 15:14:49 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-19 11:17:27 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  This feature covers interoperability aspects of MR system.  There is introduction of new generation HSDP platform with new set of viewing applications which has new Database layer and complete set of new API’s to interact with patient database. DICOM/Non DICOM converters are re-designed to use new platform layer.  Transfer Sequence functionality is introduced to enable user to sort dimensions and to set “Flag for Archive”.  The interoperability supports following use actions   * Export DICOM data in compliant Enhanced Format to DICOM Node * Export DICOM data in compliant Classic Format to DICOM Node * Export scanned data in research format to disk file * Import back exported DICOM data to MR system * Define the sort order for exported images to improve visualization * Filter the exported images based on dimension values * Choose destination DICOM Node, format and options   DICOM nodes can be network nodes like PACS,Portal or other MR Systems  and File repository  The component also supports Non - Dicom conversion to research formats for export to disk file like   * NIFTI * XML-REC * XML-SDAT * SPAR-SDAT * PAR-REC |

# Component Specification

## Functional Specification

### NonDICOM Converter

|  |  |
| --- | --- |
| SPEC 78922  Rev: 1  **✓** | SWCMP.UW.Connectivity.NonDICOMConverter.SeriesValidation  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:17:30 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:11 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:31:33 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  The Non DICOM Converter component shall enable export in different formats based on below conditions:  Background: |
| SPEC 78923  Rev: 1  **✓** | SWCMP.UW.Connectivity.NonDICOMConverter.SeriesValidation.NIFTI  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:17:33 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:13 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:31:35 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Export in NIFTI format shall be enabled for Series with below attributes:  Background: |
| SPEC 78925  Rev: 1  **✓** | SWCMP.UW.Connectivity.NonDICOMConverter.UseScanName  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:17:35 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:15 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:31:36 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  'The Non DICOM Converter component shall enable use of series name as exported file name for the Non DICOM export.  Background: |
| SPEC 78926  Rev: 1  **✓** | SWCMP.UW.Connectivity.NonDICOMConverter.CustomFileName  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:17:37 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:16 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:31:37 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  'The Non DICOM Converter component shall provide option to customize the name of exported files  Background: |
| SPEC 78928  Rev: 1  **✓** | SWCMP.UW.Connectivity.NonDICOMConverter.UpdatedCustomExportDestination  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:17:40 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:18 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:31:39 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  'The Non DICOM Converter component shall provide option to customize export destination for exported files.  Background: |
| SPEC 78929  Rev: 1  **✓** | SWCMP.UW.Connectivity.NonDICOMConverter.SortOption  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:17:42 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:20 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:31:40 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  'The Non DICOM Converter component shall provide option for sorting of exported files.  Background: |
| SPEC 78930  Rev: 1  **✓** | SWCMP.UW.Connectivity.NonDICOMConverter.Extension  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:17:44 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:21 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:31:41 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  'The Non DICOM Converter component shall export files with below extensions for allowed formats:    Background: |

#### Non Functional Specifications

### Transfer Sequence

|  |  |
| --- | --- |
| SPEC 79458  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.SelectOptions  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 05:18:27 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:59:10 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-02 11:38:38 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Transfer sequence window shall display dimension data for the following:   1. Scan 2. Output Descriptor 3. Post Processing Step     Background: |
| SPEC 79459  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.Reordering  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 05:18:30 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:59:13 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 07:01:34 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Transfer sequence component shall enable reordering of  the dimensions for the non-performed items.    Background: |
| SPEC 79461  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.NameDisplay  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 05:18:33 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:59:15 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-02 11:38:44 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Transfer sequence window shall display below attributes:  1. Name  2. GeoName  Background: |
| SPEC 79530  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.NameDisplayUpdate  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 05:18:34 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:59:16 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-02 11:38:46 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Name and GeoName shall be updated in Transfer Sequence UI on editing respective selected item.    Background: |
| SPEC 79464  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.Reset  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 05:18:39 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:59:20 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-02 11:38:51 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Transfer sequence window shall provide option to reset all the dimensions to their original values.    Background: |
| SPEC 79466  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.SuitableForTag  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 05:18:40 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:59:22 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 07:01:35 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Transfer sequence component shall update below tag in the series generated, for performed item.  Tag Name: 'Suitable For'  Tag ID: 2001,116b    Background: |
| SPEC 79465  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.SortTag  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 05:18:42 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:59:23 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 07:01:37 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Transfer sequence component shall update below tag in the associated presentation state of generated series under sequence ViewingProtocol (2005,1389), for performed item.  Tag Name: 'Sort Attributes'  Tag ID: 2005,1383        Background: |
| SPEC 79688  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.MultiSelect  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 05:18:43 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-03 09:59:23 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 07:01:37 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Transfer Sequence component shall hide the context menu to invoke "Transfer Sequnece Window", when more than one item are selected.      Background: |
| SPEC 84361  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.MarkForArchiveCompletedScan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-12 14:59:05 Meaning: QA Approved - (QA) Signed by: P, Shruthi (310263812) on 2021-08-12 14:23:18 Meaning: SME Approved - (Technical) Signed by: Nalwaya, Shailendra (ing12412) on 2021-08-12 06:21:10 Meaning: SME Approved - (Business)  Approval Status: [Approved]  Transfer Sequence component shall enable set/reset of "Mark for archive" in context menu for selected item, which are already performed.  Background:   N.A |
| SPEC 84365  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.MarkForArchivePerformingScan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-12 14:58:09 Meaning: QA Approved - (QA) Signed by: P, Shruthi (310263812) on 2021-08-12 14:21:38 Meaning: SME Approved - (Technical) Signed by: Nalwaya, Shailendra (ing12412) on 2021-08-12 14:11:39 Meaning: SME Approved - (Business)  Approval Status: [Approved]  Transfer Sequence component shall disable set/reset of "Mark for archive" in context menu for selected item, which are currently getting performed.    Background:  N.A |
| SPEC 84367  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.MarkForArchiveScan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-12 14:57:10 Meaning: QA Approved - (QA) Signed by: P, Shruthi (310263812) on 2021-08-12 14:17:40 Meaning: SME Approved - (Technical) Signed by: Nalwaya, Shailendra (ing12412) on 2021-08-12 06:21:38 Meaning: SME Approved - (Business)  Approval Status: [Approved]  Transfer Sequence shall enable set/reset of "Mark for archive" via context menu for selected item, which are yet to be performed.  Background:  N.A |
| SPEC 85883  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.MarkForArchiveMultiSelect  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-08-12 15:45:44 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2021-08-12 15:39:19 Meaning: SME Approved - (Business) Signed by: P, Shruthi (310263812) on 2021-08-12 15:33:38 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Transfer Sequence component shall enable the context menu to invoke "Mark for archive", when more than one item are selected.  Background:  N.A |
| SPEC 97866  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.ReorderingCompletedScan  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: C, Arun (320177396) on 2025-05-19 15:12:45 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Channakeshava, Chandralatha (ing09855) on 2025-05-18 12:10:23 Meaning: SME Approved - (Business) Signed by: Tumati, Pradyutha (320066472) on 2025-05-16 15:54:27 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Transfer sequence component shall enable reordering of the dimensions for performed scan items.    Background:  NA |
| SPEC 98079  Rev: 1  **✓** | SWCMP.UW.Connectivity.TransferSequence.Dimensions\_V1  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: C, Arun (320177396) on 2025-05-19 15:12:46 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Channakeshava, Chandralatha (ing09855) on 2025-05-18 11:55:52 Meaning: SME Approved - (Business) Signed by: Tumati, Pradyutha (320066472) on 2025-05-16 15:54:28 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Transfer sequence window shall display the following dimensions:  Image Types  Slices  Echoes  Phases  Dynamics  Respiratory Phases  Chemical shifts  Diffusion      Background:  NA |

### Image Range Selection

|  |  |
| --- | --- |
| SPEC 79457  Rev: 1  **✓** | SWCMP.UW.Connectivity.ImageRangeSelection  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:17:53 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:47:36 Meaning: SME Approved - (Business) Signed by: I, KISHORE (310046750) on 2020-03-02 11:41:53 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Component shall provide capability to export series with images, which are filtered based on selected values of available dimensions.    Background: |

### ExportConverter

#### Classic

|  |  |
| --- | --- |
| SPEC 79472  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.Classic.Network  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:17:57 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:49:16 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:26 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The export converter shall export data to a network node in classic format    Background: |
| SPEC 79473  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.Classic.LutToRGB  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:00 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:49:17 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:28 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The export converter shall provide capability to convert "Palette color" images into "Secondary Capture" image  during export in classic format.  Background: |
| SPEC 79474  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.Classic.SeriesSplit.EchoDynamicDiffusion  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:02 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:49:18 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:30 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The export converter shall provide capability to split the series based on one of the below dimensions     1. Echo 2. Dynamics 3. Diffusion   Note: Dimension used to split is decided based on the sort order of available dimensions.  Background: |
| SPEC 79475  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.Classic.SeriesSplit.ImageType  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:04 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:49:20 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:31 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The export converter shall provide capability to split the series based on one of the below dimensions     1. Image Type 2. Scanning Sequence     Note: Dimension used to split is decided based on the sort order of available dimensions.  Background: |
| SPEC 79476  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.Classic.CombineMRRescaling  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:06 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:49:21 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:33 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The export converter shall provide capability to update the windowing values and remove the rescale values during export in  classic format.    Note: Windowing values include Window Level and Window Width  rescale values include Rescale Type, Rescale Slope and Rescale intercept  Background: |
| SPEC 79478  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.Classic  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:11 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:49:24 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:36 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The export converter shall export the series in Classic format, where each image shall be stored in single file    Background: |
| SPEC 89973  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.Classic.MRCATExport  Model: [Ingenia, Ingenia Ambition, Ingenia Elition, Ingenia S] FS: [T15, T30] GS: [Omega, Omega TX] Options: [] Quality Attributes: [Essential] Type of Test: [Design Verification]  Signatures: Signed by: T, Premalatha (320096331) on 2022-08-26 10:03:03 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2022-08-26 09:19:51 Meaning: SME Approved - (Business) Signed by: Aithal K, Adhish (310211266) on 2022-07-27 12:21:46 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Export converter shall support export of MRCAT images as classic CT images and RT structure set.  MRCAT series: MR image (1.2.840.10008.5.1.4.1.1.4) are converted to CT image (1.2.840.10008.5.1.4.1.1.2) and  MR Series data storage (1.3.46.670589.11.0.0.12.2) are converted to RT Structure set(1.2.840.10008.5.1.4.1.1.481.3)  Background:  DICOM Communication Component supports exporting MRCAT images as classic CT images and RT structure sets.  The supported SOP classes are:  CT Image Storage (1.2.840.10008.5.1.4.1.1.2)  RT Structure Set Storage (1.2.840.10008.5.1.4.1.1.481.3) |

#### Enhanced

|  |  |
| --- | --- |
| SPEC 79479  Rev: 2  **✓** | SWCMP.UW.Connectivity.Export.Enhanced.MRImage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-03-05 18:27:57 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-05 18:18:53 Meaning: SME Approved - (Business) Signed by: I, KISHORE (310046750) on 2020-03-05 15:19:06 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The export converter shall support export of MRImageStorage(1.2.840.10008.5.1.4.1.1.4) as EnhancedMRImageStorage(1.2.840.10008.5.1.4.1.1.4.1) for enhanced format.  Background: |
| SPEC 79484  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.Enhanced.Network  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:19 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:50:02 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:43 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The export converter shall export data to a network node in enhanced format  Background: |
| SPEC 79738  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.Enhanced.Spectro  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-03-05 18:03:47 Meaning: QA Approved - (QA) Signed by: I, KISHORE (310046750) on 2020-03-05 12:24:50 Meaning: SME Approved - (Technical) Signed by: Thatte, Bhumika (310135640) on 2020-03-05 11:57:14 Meaning: SME Approved - (Business)  Approval Status: [Approved]  Export converter shall support export PrivatePhilipsMRSpectrumStorage(1.3.46.670589.11.0.0.12.1) as MRSpectroscopyStorage (1.2.840.10008.5.1.4.1.1.4.2)  for enhanced format.  Background: |
| SPEC 86649  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.Enhanced.PresentationState  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2021-10-28 07:33:17 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2021-10-27 09:57:57 Meaning: SME Approved - (Business) Signed by: P, Shruthi (310263812) on 2021-10-27 09:37:38 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The export converter shall support export of MRImageStorage(1.2.840.10008.5.1.4.1.1.4) as EnhancedMRImageStorage(1.2.840.10008.5.1.4.1.1.4.1) along with Presentation State (1.2.840.10008.5.1.4.1.1.11.1 ) if referring to less than 10922 images or all images under the series.  Background:  N.A |

#### Image Number

|  |  |
| --- | --- |
| SPEC 65710  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.ImageOrder.SortAttribute  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:23 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:23 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:46 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Export Converter shall sort the images of series during export operation based on the dimesnsion info present in below tag of associated PS  *Tag Details:*  "Sort Attribute" tag (2005,1383) present under "Viewing Protocol" sequence(2005,1389).    ***Note:***  Sort Attribute will contain the ordered list of below dimensions.  Image type (2005,1011)  Slice number (2001,100a)  Echo number (0018,0086)  Phase number (2001,1008)  Dynamic scan number (0020,0100)  Diff B value number (2005,1412)    Background: |
| SPEC 65697  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.UniqueInstanceNumber  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:28 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:24 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:49 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Each Image under Series shall contain unique image instance number(0020,0013).    Background: |
| SPEC 79712  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.ImageOrder.2KDTI  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-03-05 18:02:43 Meaning: QA Approved - (QA) Signed by: I, KISHORE (310046750) on 2020-03-05 12:26:35 Meaning: SME Approved - (Technical) Signed by: Thatte, Bhumika (310135640) on 2020-03-05 11:56:03 Meaning: SME Approved - (Business)  Approval Status: [Approved]  Export converter shall export the DTI data sorted based on  ***diffusion\_order***(2005,1596) instead of  diff\_b\_value\_no(2005,1412) and diff\_grad\_orient\_no(2005,1413)  Background: |
| SPEC 97256  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.ImageOrder.Default.FlowLabelTrue\_V1  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: C, Arun (320177396) on 2025-05-19 15:12:41 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Singh, Prashant (320041288) on 2025-05-19 13:46:54 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Tumati, Pradyutha (320066472) on 2025-05-16 15:57:23 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Export Converter shall sort the images of series by default based on the below ordered list of dimensions when Flow Type Labeling is true.     |  |  | | --- | --- | | 1 | Image Type MR (2005,1011) | | 2 | Dynamic scan number (0020,0100) | | 3 | Label type (2005,1429) | | 4 | Slice number (2001,100A) | | 5 | Diffusion B value number  (2005,1412) | | 6 | Diffusion Gradient Orientation number (2005,1413) | | 7 | Phase number (2001,1008) | | 8 | Echo number (0018,0086) | | 9 | Chemical shift number (2001,1002) | | 10 | MRE phase delay number (2005,1568) | | 11 | Inversion delay number (2005,1573) | | 12 | Respiratory phase number (2005,1716) |     ***Note:*** Flow Type Labeling is considered as true when value for tag "Number of label types (2005,1428)  > 1".        Background:  NA |
| SPEC 97257  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.ImageOrder.Default.FlowLabel.False\_V1  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: C, Arun (320177396) on 2025-05-19 15:12:42 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Channakeshava, Chandralatha (ing09855) on 2025-05-18 11:58:54 Meaning: SME Approved - (Business) Signed by: Tumati, Pradyutha (320066472) on 2025-05-16 15:57:24 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  Export Converter shall sort the images of series by default based on the below ordered list of dimensions when Flow Type Labeling is false.     |  |  | | --- | --- | | 1 | Image Type MR (2005,1011) | | 2 | Label type (2005,1429) | | 3 | Slice number (2001,100A) | | 4 | Dynamic scan number (0020,0100) | | 5 | Diffusion B value number  (2005,1412) | | 6 | Diffusion Gradient Orientation number (2005,1413) | | 7 | Phase number (2001,1008) | | 8 | Echo number (0018,0086) | | 9 | Chemical shift number (2001,1002) | | 10 | MRE phase delay number (2005,1568) | | 11 | Inversion delay number (2005,1573) | | 12 | Respiratory phase number (2005,1716) |       ***Note:*** Flow Type Labeling is considered as false when value for tag "Number of label types (2005,1428)  <= 1".        Background:  NA |
| SPEC 65739  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.MRSeriesDataStorage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:35 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:25 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:54 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The datatype   “MR Series Data Storage” shall be exported depending on the SOP class configuration of the destination dicom node, according to the following table     |  |  |  | | --- | --- | --- | | Destination Dicom nodes configured Sop classes | | Exported DataType | | 1.2.840.10008.5.1.4.1.1.66  RAW Data | 1.3.46.670589.11.0.0.12.2  Private MR Series Data Storage |  | | Selected | Not Selected | 1.2.840.10008.5.1.4.1.1.66 | | Not Selected | Selected | 1.3.46.670589.11.0.0.12.2 | | Selected | Selected | 1.2.840.10008.5.1.4.1.1.66 | | Not Selected | Not Selected | Export Skipped |     Background: |
| SPEC 79532  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.MRSpectrumStorage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:37 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:27 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:55 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The datatype   “MR Spectrum Storage” shall be exported depending on the SOP class configuration of the destination dicom node, according to the following table     |  |  |  | | --- | --- | --- | | Destination Dicom nodes configured Sop classes | | Exported DataType | | 1.2.840.10008.5.1.4.1.1.4.2  MR SpectroScopy | 1.3.46.670589.11.0.0.12.1  MR Spectrum Storage |  | | Selected | Not Selected | 1.2.840.10008.5.1.4.1.1.4.2 | | Not Selected | Selected | 1.3.46.670589.11.0.0.12.1 | | Selected | Selected | 1.2.840.10008.5.1.4.1.1.4.2 | | Not Selected | Not Selected | Export Skipped |       Background: |
| SPEC 79533  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.MRExamcardStorage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:39 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:28 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:57 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The datatype  “MR Exam Card Storage” shall be exported depending on the SOP class configuration of the destination dicom node, according to the following table       |  |  |  | | --- | --- | --- | | Destination Dicom nodes configured Sop classes | | Exported DataType | | 1.2.840.10008.5.1.4.1.1.66  RAW Data | 1.3.46.670589.11.0.0.12.4  MR Exam Card Storage |  | | Selected | Not Selected | 1.2.840.10008.5.1.4.1.1.66 | | Not Selected | Selected | 1.3.46.670589.11.0.0.12.4 | | Selected | Selected | 1.2.840.10008.5.1.4.1.1.66 | | Not Selected | Not Selected | Export Skipped |       Background: |
| SPEC 79534  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.SecondaryCaptureImageStorage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:41 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:29 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:11:59 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The datatype “Secondary Capture Image store” shall be exported depending on the SOP class configuration of the destination dicom node, according to the following table       |  |  | | --- | --- | | Destination Dicom nodes configured Sop classes | Exported DataType | | 1.2.840.10008.5.1.4.1.1.7  Secondary Capture Image store |  | | Selected | 1.2.840.10008.5.1.4.1.1.7 | | Not Selected | Export Skipped |     Background: |
| SPEC 79535  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.MRImageStorage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:44 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:31 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:12:01 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The datatype  “MR Image store” shall be exported depending on the SOP class configuration of the destination dicom node, according to the following table     |  |  |  | | --- | --- | --- | | Destination Dicom nodes configured Sop classes | | Exported DataType | | 1.2.840.10008.5.1.4.1.1.4.1  EnhancedMRImageStorage | 1.2.840.10008.5.1.4.1.1.4  MR Image Storage |  | | Selected | Not Selected | 1.2.840.10008.5.1.4.1.1.4.1 | | Not Selected | Selected | 1.2.840.10008.5.1.4.1.1.4 | | Selected | Selected | 1.2.840.10008.5.1.4.1.1.4.1 | | Not Selected | Not Selected | Export Skipped |           Background: |
| SPEC 79536  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.GrayscaleSoftcopyPresentationStateStorage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:46 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:33 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:12:02 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The datatype   “Grayscale Softcopy Presentation State Storage" shall be exported depending on the SOP class configuration of the destination dicom node, according to the following table     |  |  | | --- | --- | | Destination Dicom nodes configured Sop classes | Exported DataType | | 1.2.840.10008.5.1.4.1.1.11.1  Grayscale Softcopy Presentation State Storage |  | | Selected | 1.2.840.10008.5.1.4.1.1.11.1 | | Not Selected | Export Skipped |         Background: |
| SPEC 79537  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.SupportedSOPClasses  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:48 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:34 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:12:04 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]    The export converted shall support export of following sop classes     |  |  | | --- | --- | | Name | Sop Class | | MRImageStorage | 1.2.840.10008.5.1.4.1.1.4 | | SecondaryCaptureImageStorage | 1.2.840.10008.5.1.4.1.1.7 | | GrayscaleSoftcopyPresentationStateStorage | 1.2.840.10008.5.1.4.1.1.11.1 | | PrivatePhilipsMRSpectrumStorage | 1.3.46.670589.11.0.0.12.1 | | PrivatePhilipsMRSeriesDataStorage | 1.3.46.670589.11.0.0.12.2 | | PrivatePhilipsMRExamcardStorage | 1.3.46.670589.11.0.0.12.4 |     Background: |
| SPEC 79650  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.MRImageStorage.RGB  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:50 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:35 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:12:06 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The datatype  “MR Image store” with Photometric Interpretation as "RGB" shall be exported as Secondary Capture Image store  Background: |
| SPEC 79737  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.SuppressPatientData  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-03-05 18:03:17 Meaning: QA Approved - (QA) Signed by: I, KISHORE (310046750) on 2020-03-05 12:25:40 Meaning: SME Approved - (Technical) Signed by: Thatte, Bhumika (310135640) on 2020-03-05 11:56:36 Meaning: SME Approved - (Business)  Approval Status: [Approved]  Component shall provide capability to suppress the patient information from exported data on request for de-identification.  Background: |
| SPEC 82578  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.RAWData  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2020-11-10 14:19:53 Meaning: QA Approved - (QA) Signed by: Chanda, Anirudha Kumar (310297646) on 2020-11-10 14:03:43 Meaning: SME Approved - (Technical) Signed by: Nalwaya, Shailendra (ing12412) on 2020-11-10 09:18:53 Meaning: SME Approved - (Business)  Approval Status: [Approved]  Component shall provide capability to export bulk data up to size 2.14 GB when environment variable ‘GYRO\_DICOM\_ALL\_DATA’ set to TRUE’.  Note: RAW series is set as ‘DoNotTransfer’, hence explicit series selection is required to export  Background:  NA |
| SPEC 95182  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.RestrictedStudyExport  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: C, Arun (320177396) on 2025-05-19 15:12:35 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Singh, Prashant (320041288) on 2025-05-19 13:46:55 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Tumati, Pradyutha (320066472) on 2025-05-16 15:57:25 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  System shall block export of Philips Private MR Exam Card Storage SOP (1.3.46.670589.11.0.0.12.4) for study scanned with encrypted examcard.  Background:  NA |
| SPEC 97260  Rev: 1  **✓** | SWCMP.UW.Connectivity.Export.RespiratoryWaveformImage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: C, Arun (320177396) on 2025-05-19 15:12:43 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Singh, Prashant (320041288) on 2025-05-19 13:46:56 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Tumati, Pradyutha (320066472) on 2025-05-19 13:44:49 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  The respiratory waveform image identified with series level tag IsRespiratoryWaveformSeries (2005,1718) shall be exported as Secondary Capture Image store (SOP) '1.2.840.10008.5.1.4.1.1.7'    Background:  NA |

### ImportConverter

|  |  |
| --- | --- |
| SPEC 79482  Rev: 1  **✓** | SWCMP.UW.Connectivity.Import  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:55 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:38 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:12:09 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The import converter shall import the series into the local database.  Background: |
| SPEC 79538  Rev: 1  **✓** | SWCMP.UW.Connectivity.Import.OtherVendors  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:57 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:39 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:12:11 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The import converter shall support import of secondary capture images from other vendors  Background: |
| SPEC 79677  Rev: 1  **✓** | SWCMP.UW.Connectivity.Import.SupportedSOPClasses  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:18:59 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2020-03-04 07:52:40 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:12:12 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]    The import converter shall support import of following sop classes     |  |  | | --- | --- | | Name | Sop Class | | MRImageStorage | 1.2.840.10008.5.1.4.1.1.4 | | EnhancedMRImageStorage | 1.2.840.10008.5.1.4.1.1.4.1 | | MRSpectroscopyStorage | 1.2.840.10008.5.1.4.1.1.4.2 | | SecondaryCaptureImageStorage | 1.2.840.10008.5.1.4.1.1.7 | | GrayscaleSoftcopyPresentationStateStorage | 1.2.840.10008.5.1.4.1.1.11.1 | | RawDataStorage | 1.2.840.10008.5.1.4.1.1.66 | | PrivatePhilipsMRSpectrumStorage | 1.3.46.670589.11.0.0.12.1 | | PrivatePhilipsMRSeriesDataStorage | 1.3.46.670589.11.0.0.12.2 | | PrivatePhilipsMRExamcardStorage | 1.3.46.670589.11.0.0.12.4 |       Background: |
| SPEC 79682  Rev: 1  **✓** | SWCMP.UW.Connectivity.Import.RawData  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:02 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-04 07:59:23 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:12:14 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  RAW Data(1.2.840.10008.5.1.4.1.1.66) shall be imported as “MR Series Data Storage”(1.3.46.670589.11.0.0.12.2)  or MR ExamCard Storage "1.3.46.670589.11.0.0.12.4", based on the original data which was exported.  Background: |
| SPEC 79687  Rev: 1  **✓** | SWCMP.UW.Connectivity.Import.MRSpectroscopyStorage  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:04 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-04 07:59:24 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-04 07:12:15 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  MRSpectroscopyStorage (1.2.840.10008.5.1.4.1.1.4.2) shall be imported as PrivatePhilipsMRSpectrumStorage (1.3.46.670589.11.0.0.12.1).  Background: |

### ExportUI

|  |  |
| --- | --- |
| SPEC 79654  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:09 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:27:55 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:58:56 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall display below details on Export UI:  1. Format Section  2. Options for each format  3. SubOptions  4. Additional customization  Background: |
| SPEC 79653  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Network.Export.AllowedFormats  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:11 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:27:56 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:58:57 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall disable the Export Format section and Suboption section, on selection of network device.    Note: For network devices, export format will be based on device configuration in PSC.  Background: |
| SPEC 79652  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Media.Export.AllowedFormats  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:13 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:27:58 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:58:58 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall populate below formats for Media export.  1. DICOM  2. NON DICOM  Background: |
| SPEC 79655  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Media.Export.Dicom  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:15 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:27:59 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:58:59 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall populate below options for Dicom format:  1. Classic MR  2. Enhanced MR  Background: |
| SPEC 79656  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Media.Export.Dicom.Classic.SubOptions  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:18 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:28:01 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:59:01 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall populate below suboptions for Dicom "Classic" Export.  1.Other Series Split  2. No LUT To RGB  3. Combine MR Rescaling  4.ADC Correction  Background: |
| SPEC 79657  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Media.Export.Dicom.Enhanced.SubOptions  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:20 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:28:02 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:59:02 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall populate below suboption for Dicom "Enhanced" Export.  1.ADC Correction  Background: |
| SPEC 79658  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Media.Export.NonDicom  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:22 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 13:44:15 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:59:03 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall populate below option for Non Dicom format:  1. Research  Background: |
| SPEC 79659  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Media.Export.NonDicom.Research.Customizations  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:24 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:28:04 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:59:04 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall provide below export related customizations for "Research" option.  1. Use Scan Name  2. Sort  Background: |
| SPEC 79660  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Media.Export.NonDicom.Research.SubOptions  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:27 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:28:05 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:59:05 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall populate below suboptions for "Research" option.  1.NIFTI  2.XML-REC  3.XML-SDAT  4.SPAR-SDAT  5.PAR-REC  Background: |
| SPEC 79662  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Media.Export.NonDicom.Research.SubOptions.DefaultSelection  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:31 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:28:08 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:59:08 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall ***enable*** and ***auto select*** the applicable suboptions for "Research" option, based on the the series attributes.  Background: |
| SPEC 79665  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Media.Export.NonDicom.Research.Save.Disable  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:33 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:28:10 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:59:09 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall disable the "Save" option , when none of the suboption is selected for "Research" option.    Note: "Save" option is used to trigger the export operation.  Background: |
| SPEC 79663  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.NonDicomDevice  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:36 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 12:28:11 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:59:10 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  Export UI shall display "NonDicom" device, which is internally mapped to location "E:\Export".  Background: |
| SPEC 79664  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.NonDicomDevice.DefaultFormat  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Srikanta, Ashwin (310227903) on 2020-03-04 13:19:59 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-03-03 13:44:16 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-03-03 09:59:11 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall select below format and option by default, when "NonDicom" device is selected.  Format: "NonDicom"  Option: "Research"  Background: |
| SPEC 83344  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MappedDrive  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: T, Premalatha (320096331) on 2021-02-24 07:23:17 Meaning: QA Approved - (QA) Signed by: P, Shruthi (310263812) on 2021-02-24 07:19:57 Meaning: SME Approved - (Technical) Signed by: Aithal K, Adhish (310211266) on 2021-02-24 07:00:54 Meaning: SME Approved - (Business)  Approval Status: [Approved]  ExportUI shall enable export to mapped drive.  Background:  NA |
| SPEC 89774  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.MultipleDeviceSelection  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2022-08-26 05:55:32 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2022-08-24 06:14:15 Meaning: SME Approved - (Business) Signed by: P, Shruthi (310263812) on 2022-08-23 08:44:49 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  MRPlugin shall support multiple device selection on Export UI. On muliple device selection default format shall be shown as below:   * On both media and network device selection, Enhanced format shall be selected. * On only network device selection, format shall be disabled. * On only Non Dicom device selection, Research format shall be selected. * On only media device selection, Enhanced format shall be selected.     Background:  N.A |
| SPEC 93477  Rev: 2  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.Media.Export.NonDicom.Research.SeriesOnly\_V1  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: C, Arun (320177396) on 2024-05-23 16:00:42 Meaning: QA Approved - (QA) Signed by: Singh, Prashant (320041288) on 2024-05-23 14:08:27 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Nalwaya, Shailendra (ing12412) on 2024-05-23 11:41:51 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  MRPlugin shall populate the common applicable suboptions for "Research" option on single study selection or multiple series selecton within a study.  Background:  Added new requirement for non dicom research export |
| SPEC 96880  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportUI.MRPlugin.SecureDevices  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: C, Arun (320177396) on 2025-05-19 15:12:39 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Singh, Prashant (320041288) on 2025-05-19 13:46:58 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Tumati, Pradyutha (320066472) on 2025-05-16 16:04:52 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  System shall display only secure devices in Export UI when one or more restricted studies are selected from Patient Directory or exam overview.  Background:  NA |

### DatabaseStorePlugin

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SPEC 89966  Rev: 1  **✓** | SWCMP.UW.Connectivity.DatabaseStorePlugin  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: T, Premalatha (320096331) on 2022-08-26 10:03:34 Meaning: QA Approved - (QA) Signed by: P, Shruthi (310263812) on 2022-08-04 15:11:55 Meaning: SME Approved - (Technical) Signed by: Nalwaya, Shailendra (ing12412) on 2022-08-04 07:34:53 Meaning: SME Approved - (Business)  Approval Status: [Approved]  Component shall provide capability to update study, series and image level tags on composite store. Below are the tags upated:     |  |  | | --- | --- | | **Series level tag** | **Image level tag** | | PiimSeriesType (2001,106E) | RedColorDescriptor (0028,1101) | | ScanOptions (0018,0022) | GreenColorDescriptor (0028,1102) | | Acquisition Number (0020,0012) | BlueColorDescriptor (0028,1103) | | PiimReconstructionNumber(2001,101D) | RedColorData (0028,1201) | | SeriesNumber (0020,0011) | GreenColorData (0028,1202) | | ManufacturerName (0008,0070) | BlueColorData (0028,1203) | | InstitutionName (0008,0080) | RealwordMappingSequence (0040,9096) | | InstitutionalDepartmentName (0008,1040) | ImageType (0008,0008) | | ManufacturerModelName (0018,0018) | RealwordMappingSequence (0040,9096) | | DeviceSerialNumber (0018,1000) | PixelPresentation (0008,9205) | | StationName (0008,1010) | DiffusionBValue (0018,9087) | | InstituionAddress (0008,0081) | DiffusionGradientOrientation (0018,9089) | | InstanceOriginStatus (0400,0600) | PiimMrViewingHardcopyOnly (2005,1426) | | TimezoneOffsetFromUtc (0008,0201) |  | | NtpSourceAddress (0018,1803) |  | | AcquisitionTimeSynchronized (0018,1800) |  | | SynchronizationTrigger (0018,106A) |  | | SynchronizationFrameOfReferenceUid (0020,0200) |  | | TimeDistributionProtocol (0018,1802) |  |     Background:  N.A |

### Secure node transfer

|  |  |
| --- | --- |
| SPEC 96877  Rev: 1  **✓** | SWCMP.UW.Connectivity.SecureNodeTransfer.Export  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: C, Arun (320177396) on 2025-05-19 15:12:37 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Singh, Prashant (320041288) on 2025-05-19 13:46:59 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Tumati, Pradyutha (320066472) on 2025-05-16 16:03:47 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  The system shall provide the capability to export one or more studies acquired with encrypted examcard(s) to secure network nodes only, that are enabled with TLS  Background:  NA |
| SPEC 96879  Rev: 1  **✓** | SWCMP.UW.Connectivity.SecureNodeTransfer.BlockPullOperation  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [N.A.] Type of Test: [N.A.]  Signatures: Signed by: C, Arun (320177396) on 2025-05-19 15:12:38 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: Singh, Prashant (320041288) on 2025-05-19 13:47:01 Meaning: SME Approved - (Business)::Bulk Transitions Signed by: Tumati, Pradyutha (320066472) on 2025-05-16 16:03:48 Meaning: SME Approved - (Technical)::Bulk Transitions  Approval Status: [Approved]  System shall block transfer of restricted study thorough pull operation (C-MOVE).  Background:  NA |

## Essential Specifications

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| --- | --- |
| INFO 80908  Rev: 1  **✓** | SWCMP.UW.Essential Requirements  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-19 15:51:09 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-19 15:14:55 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-19 11:17:35 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  N.A. |

## Non Functional Specification

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SPEC 79748  Rev: 2  **✓** | SWCMP.UW.Connectivity.ExportImport.Disk.Performance  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [Performance] Type of Test: [Development Test]  Signatures: Signed by: T, Premalatha (320096331) on 2020-11-06 11:21:36 Meaning: QA Approved - (QA) Signed by: Aithal K, Adhish (310211266) on 2020-11-06 11:16:29 Meaning: SME Approved - (Business) Signed by: Chanda, Anirudha Kumar (310297646) on 2020-11-06 08:13:37 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Component export import  operation shall meet the performance need as mentioned below:     |  |  | | --- | --- | | **Req Description** | **Time (seconds)** | | Time taken to import series from Disk Files shall be  for   16K,64Res  Dataset (Enhanced format) | <264 | | Time taken to import series from Disk Files shall be  16K, 64Res Dataset (Classic format) | <264 | | Time taken to import series from Disk Files shall be  64K, 80Res Dataset (Classic format) | <990 | | Time taken to import series from Disk Files shall be  64K, 80Res Dataset (Enhanced format) | <990 | | Time taken to export series to Disk Files shall be  64K, 80Res  Dataset (Enhanced format) | <528 | | Time taken to export series to Disk Files shall be  16k, 64Res Dataset  (Enhanced format) | <132 |     Background:  Performance Requirement |
| SPEC 79749  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportImport.Disk.Performance.AcquiredData  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-03-06 06:27:49 Meaning: QA Approved - (QA) Signed by: I, KISHORE (310046750) on 2020-03-06 05:45:47 Meaning: SME Approved - (Technical) Signed by: Thatte, Bhumika (310135640) on 2020-03-05 19:25:50 Meaning: SME Approved - (Business)  Approval Status: [Approved]  Component export import  operation shall meet the performance need as mentioned below:   |  |  | | --- | --- | | **Req Description** | **Time (seconds)** | | Time taken to import series from Disk Files shall be   256Res, 100Sl, 20Dyn (Classic format) | <60 | | Time taken to import series from Disk Files shall be   2048Res, 100Sl (Classic format) | <60 | | Time taken to import series from Disk Files shall be   2048Res, 100Sl (Enhanced format) | <120 | | Time taken to export series to Disk Files shall be    256Res, 100Sl, 20Dyn (Classic format) | <60 | | Time taken to export series to Disk Files shall be  2048Res, 100Sl (Classic format) | <60 | | Time taken to export series to Disk Files shall be   2048Res, 100Sl (Enhanced format) | <60 |     Background: |
| SPEC 79750  Rev: 1  **✓** | SWCMP.UW.Connectivity.ExportImport.Network.Performance.AcquiredData  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: [Development Test]  Signatures: Signed by: Hore, Malancha (320005896) on 2020-03-06 06:28:05 Meaning: QA Approved - (QA) Signed by: Thatte, Bhumika (310135640) on 2020-03-06 05:59:04 Meaning: SME Approved - (Business) Signed by: I, KISHORE (310046750) on 2020-03-06 05:49:55 Meaning: SME Approved - (Technical)  Approval Status: [Approved]  Component export import operation shall meet the performance need as mentioned below:     |  |  | | --- | --- | | **Req Description** | **Time (seconds)** | | Time taken to transfer datasets to PACS  Import from PACS  Dataset1: 256Res, 100Sl | <420 | | Time taken to transfer datasets to PACS    Export to PACS  Dataset1: 256Res, 100Sl | <300 | | Time taken to transfer datasets to PACS    Import from PACS  Dataset2: 512Res, 100Sl, 40Dyn | <600 | | Time taken to transfer datasets to PACS    Export to PACS  Dataset2: 512Res, 100Sl, 40Dyn | <720 |     Background: |

## Compliance Specifications

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| --- | --- |
| INFO 80909  Rev: 1  **✓** | SWCMP.UW.Compliance Requirements  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: Krishnakumar, Ashwin (ing02466) on 2020-05-19 15:51:13 Meaning: QA Approved - (QA)::Bulk Transitions Signed by: I, KISHORE (310046750) on 2020-05-19 15:14:59 Meaning: SME Approved - (Technical)::Bulk Transitions Signed by: Thatte, Bhumika (310135640) on 2020-05-19 11:17:40 Meaning: SME Approved - (Business)::Bulk Transitions  Approval Status: [Approved]  N.A. |

# Component Traceability

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| --- | --- |
| INFO 98087  Rev: 2  **✓** | Component Traceability\_Voxel  Model: [] FS: [] GS: [] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: C, Arun (320177396) on 2025-06-13 06:02:08 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2025-06-12 08:50:53 Meaning: SME Approved - (Business) Signed by: Singh, Prashant (320041288) on 2025-06-12 07:49:17 Meaning: SME Approved - (Technical)  Approval Status: [Approved] |

**Attachment:**

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| --- |
| Please find RTM CS Connectivity.xlsm in attachment section of Windchill |

# Document History

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| INFO 98086  Rev: 2  **✓** | Document History\_Voxel  Model: [All] FS: [All] GS: [All] Options: [] Quality Attributes: [] Type of Test: []  Signatures: Signed by: C, Arun (320177396) on 2025-06-13 06:02:44 Meaning: QA Approved - (QA) Signed by: Nalwaya, Shailendra (ing12412) on 2025-06-12 08:51:30 Meaning: SME Approved - (Business) Signed by: Singh, Prashant (320041288) on 2025-06-12 08:01:30 Meaning: SME Approved - (Technical)  Approval Status: [Approved]   |  |  |  |  | | --- | --- | --- | --- | | **Date** | **Level** | **Editor** | **Description** | | 12-June-2025 | A | Adhish Aithal K | Added requirements ID 95182,96877,96879,96880,97256,97257,97260,97866,98079. | |

