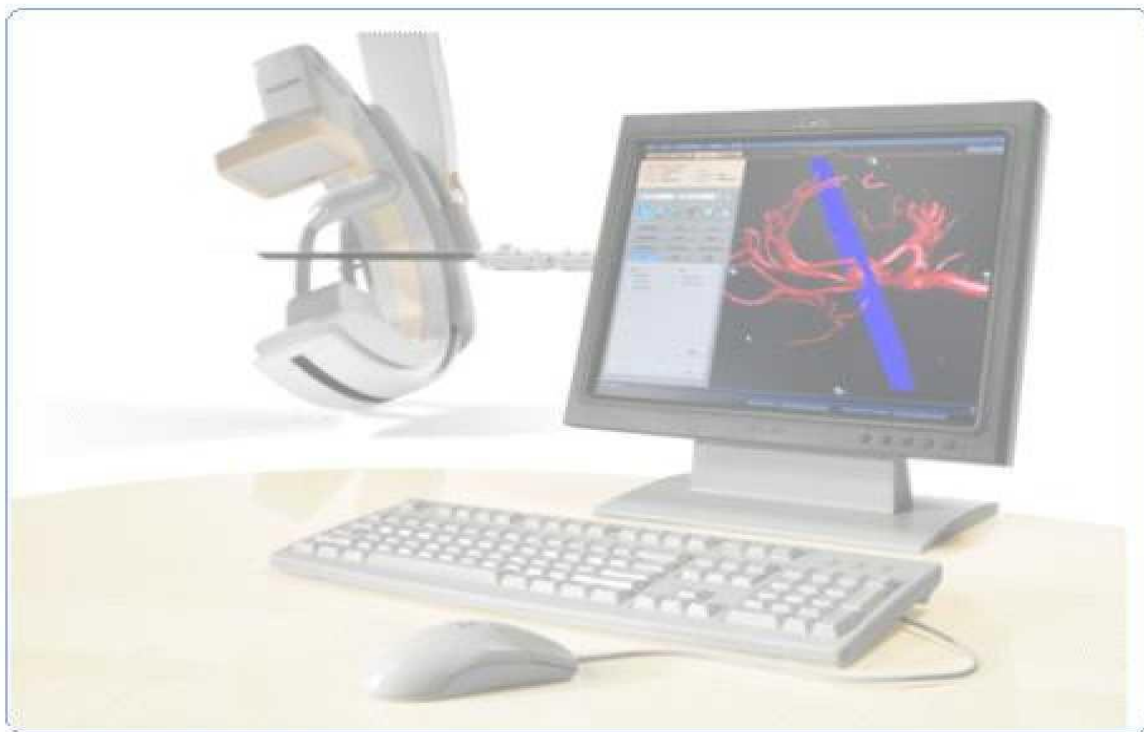


# DICOM Conformance Statement

Application Annex:

XperGuide R1.5 on Interventional Workspot R1.8



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## 1. DICOM Conformance Statement Overview

For information about this section, please Refer HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

## 2. Contents

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### 3. Introduction

This DICOM Conformance Statement annex is applicable to XperGuide R1.5 on Interventional Workspot R1.8, later referred to as XperGuide Application. In general the XperGuide Application is the user environment for viewing and analyzing XA images.

#### 3.1. Revision History

The revision history provides dates and differences of the different releases.

**Table 1: Revision History**

| Document Version | Date of Issue | Description of change  |
|------------------|---------------|--|
| 01               | 10-Feb-2023   | First release for XperGuide R1.5 on Interventional Workspot R1.8 |

#### 3.2. Audience

This Conformance Statement is intended for:

- (Potential) customers
- System integrators of medical equipment
- Marketing staff interested in system functionality
- Software designers implementing DICOM interfaces

It is assumed that the reader is familiar with the DICOM standard.

#### 3.3. Remarks

The DICOM Conformance Statement is contained in chapter 4 through 8 and follows the contents and structuring requirements of DICOM PS 3.2.

This DICOM Conformance Statement by itself does not guarantee successful interoperability of Philips equipment with non-Philips equipment. The user (or user's agent) should be aware of the following issues:

- **Interoperability**

Interoperability refers to the ability of application functions, distributed over two or more systems, to work successfully together. The integration of medical devices into an IT environment may require application functions that are not specified within the scope of DICOM. Consequently, using only the information provided by this Conformance Statement does not guarantee interoperability of Philips equipment with non-Philips equipment. It is the user's responsibility to analyze thoroughly the application requirements and to specify a solution that integrates Philips equipment with non-Philips equipment.

- **Validation**

Philips equipment has been carefully tested to ensure that the actual implementation of the DICOM interface corresponds with this Conformance Statement.

Where Philips equipment is linked to non-Philips equipment, the first step is to compare the relevant Conformance Statements. If the Conformance Statements indicate that successful information exchange should be possible, additional validation tests will be necessary to ensure the functionality, performance, accuracy and stability of image and image related data. It is the responsibility of the user (or user's agent) to specify the appropriate test suite and to carry out the additional validation tests.

- **New versions of the DICOM Standard**

The DICOM Standard will evolve in future to meet the user's growing requirements and to incorporate new features and technologies. Philips is actively involved in this evolution and plans to adapt its equipment to future versions of the DICOM Standard. In order to do so, Philips reserves the right to make changes to its products or to discontinue its delivery. The user should ensure that any non-Philips provider linking to Philips equipment also adapts to future versions of the DICOM Standard. If not, the incorporation of DICOM enhancements into Philips equipment may lead to loss of connectivity (in case of networking) and incompatibility (in case of media).

### 3.4. Definitions, Terms and Abbreviations

**Table 2: Definitions, Terms and Abbreviations**

| Abbreviation/Term | Explanation                                    |
|-------------------|--|
| DICOM             | Digital Imaging and Communications in Medicine |
| IOD               | Information Object Definition                  |
| IW                | Interventional Workspot                        |
| NEMA              | National Electrical Manufacturers Association  |
| UID               | Unique Identifier                              |
| VR                | Value Representation                           |
| XA                | X-Ray Angiography                              |

### 3.5. References

[DICOM] Digital Imaging and Communications in Medicine, Parts 1 - 22 (NEMA PS 3.1- PS 3.22),  
National Electrical Manufacturers Association  
1300 North 17th Street  
Suite 900  
Arlington, Virginia 22209  
Internet: <https://www.dicomstandard.org/current>

## 4. Networking

For information about this section, please Refer HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

## 5. Media Interchange

For information about this section, please Refer HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

## 6. Support of Character Sets

For information about this section, please Refer HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

## 7. Security

For information about this section, please Refer HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

## 8. Annexes of "XperGuide R1.5 Application"

### 8.1. IOD Contents

This section specifies each IOD accepted and / or created by XperGuide R1.5 Application.

**ACCEPTED** The applicable IOD is accepted for storage in the repository of the hosting platform and supported for import in XperGuide Application for viewing and analysis.

**CREATED** The XperGuide Application supports generation of derived data by using the applicable IOD and is able to store this data in the repository of the hosting platform.

**Table 3: List of created SOP Classes**

| IOD   |                              | Support  |         |
|---|------------------------------|----------|---------|
| Name  | UID                          | ACCEPTED | CREATED |
| X-Ray Angiographic Image Storage SOP Class                      | 1.2.840.10008.5.1.4.1.1.12.1 | Yes      | Yes     |
| Raw Data Storage SOP Class                                      | 1.2.840.10008.5.1.4.1.1.66   | Yes      | Yes     |
| Secondary Capture Image Storage SOP Class                       | 1.2.840.10008.5.1.4.1.1.7    | No       | Yes     |
| Multiframe True Color Secondary Capture Image Storage SOP Class | 1.2.840.10008.5.1.4.1.1.7.4  | No       | Yes     |

#### 8.1.1. Acceptance Criteria

This section specifies the acceptance criteria applied by XperGuide Application to which a dataset should adhere before it can be imported into the application. This can be criteria on the highest level (e.g. data from a certain manufacturer or system model) or certain DICOM attributes mandatory to be present into the dataset holding a specific value. In case one or more Philips private attributes are required, then a list of supported Philips system models will be mentioned.

**Table 4: Accepted system models**

| Manufacturer | Modality | System Model Name(s) |
|--------------|----------|----------------------|
| Philips      | XA       | Allura<br>Azurion    |

**Table 5: Accepted transfer syntaxes per IOD**

For information about this Table, Refer to HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

**Table 6: Accepted attribute values**

| Attribute Name | Attribute Number | Values / Comments |
|----------------|------------------|-------------------|
| Not applicable | Not applicable   | Not applicable    |



## 8.1.2. Created SOP Instance

This section specifies each IOD created by this application.

This section specifies each IOD created. It should specify the attribute name, tag, VR, and value. The value should specify the range and source (e.g. user input, Modality Worklist, automatically generated, etc.). For content items in templates, the range and source of the concept name and concept values should be specified. Whether the value is always present or not shall be specified.

Abbreviations used in the IOD tables for the column "Presence of Module" are:

- ALWAYS            The module is always present
- CONDITIONAL    The module is used under specified condition

Abbreviations used in the Module table for the column "Presence of Value" are:

- ALWAYS            The attribute is always present with a value
- EMPTY            The attribute is always present without any value (attribute sent zero length)
- VNAP              The attribute is always present and its Value is Not Always Present  
(attribute sent zero length if no value is present)
- ANAP              The attribute is present under specified condition – if present then it will always have a value

The abbreviations used in the Module table for the column "Source" are:

- AUTO              The attribute value is generated automatically
- CONFIG            The attribute value source is a configurable parameter
- COPY              The attribute value source is another SOP instance
- FIXED             The attribute value is hard-coded in the application
- IMPLICIT         The attribute value source is a user-implicit setting
- MPPS              The attribute value is the same as that use for Modality Performed Procedure Step
- MWL              The attribute value source is a Modality Worklist
- USER              The attribute value source is explicit user input

### 8.1.2.1. List of created SOP Classes

**Table 7: List of created SOP Classes**

| Name  | UID                          |
|---|------------------------------|
| X-Ray Angiographic Image Storage SOP Class                      | 1.2.840.10008.5.1.4.1.1.12.1 |
| Raw Data Storage SOP Class                                      | 1.2.840.10008.5.1.4.1.1.66   |
| Secondary Capture Image Storage SOP Class                       | 1.2.840.10008.5.1.4.1.1.7    |
| Multiframe True Color Secondary Capture Image Storage SOP Class | 1.2.840.10008.5.1.4.1.1.7.4  |

## 8.1.2.1.1. X-Ray Angiographic Image Storage SOP Class

**Table 8: IOD of Created X-Ray Angiographic Image Storage Instances**

| Information Entity | Module                     | Presence Of Module |
|--------------------|----------------------------|--------------------|
| Patient            | Patient Module             | ALWAYS             |
| Study              | General Study Module       | ALWAYS             |
|                    | Patient Study Module       | ALWAYS             |
| Series             | General Series Module      | ALWAYS             |
| Equipment          | General Equipment Module   | ALWAYS             |
| Acquisition        | General Acquisition Module | ALWAYS             |
| Image              | General Image Module       | ALWAYS             |
|                    | Image Pixel Module         | ALWAYS             |
|                    | Cine Module                | ALWAYS             |
|                    | Multi-Frame Module         | ALWAYS             |
|                    | Display Shutter Module     | ALWAYS             |
|                    | X-Ray Image Module         | ALWAYS             |
|                    | X-Ray Acquisition Module   | ALWAYS             |
|                    | X-Ray Table Module         | ALWAYS             |
|                    | XA Positioner Module       | ALWAYS             |
|                    | DX Detector Module         | ALWAYS             |
|                    | VOI LUT Module             | ALWAYS             |
| SOP Common Module  | ALWAYS                     |                    |

**Table 9: Patient Module**

| Attribute Name       | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------------|-----------|----|-------|-------------------|--------|---------|
| Patient's Name       | 0010,0010 | PN |       | VNAP              | COPY   |         |
| Patient ID           | 0010,0020 | LO |       | VNAP              | COPY   |         |
| Patient's Birth Date | 0010,0030 | DA |       | VNAP              | COPY   |         |
| Patient's Sex        | 0010,0040 | CS |       | VNAP              | COPY   |         |

**Table 10: General Study Module**

| Attribute Name             | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------------------|-----------|----|-------|-------------------|--------|---------|
| Study Date                 | 0008,0020 | DA |       | ALWAYS            | COPY   |         |
| Study Time                 | 0008,0030 | TM |       | ALWAYS            | COPY   |         |
| Accession Number           | 0008,0050 | SH |       | VNAP              | COPY   |         |
| Referring Physician's Name | 0008,0090 | PN |       | VNAP              | COPY   |         |
| Study Instance UID         | 0020,000D | UI |       | ALWAYS            | COPY   |         |
| Study ID                   | 0020,0010 | SH |       | VNAP              | COPY   |         |

**Table 11: Patient Study Module**

| Attribute Name   | Tag       | VR | Value | Presence of Value | Source | Comment |
|------------------|-----------|----|-------|-------------------|--------|---------|
| Patient's Weight | 0010,1030 | DS |       | ALWAYS            | COPY   |         |

**Table 12: General Series Module**

| Attribute Name                      | Tag       | VR | Value | Presence of Value | Source | Comment |
|-------------------------------------|-----------|----|-------|-------------------|--------|---------|
| Series Date                         | 0008,0021 | DA |       | ALWAYS            | AUTO   |         |
| Series Time                         | 0008,0031 | TM |       | ALWAYS            | AUTO   |         |
| Modality                            | 0008,0060 | CS | XA    | ALWAYS            | FIXED  |         |
| Series Description                  | 0008,103E | LO |       | VNAP              | COPY   |         |
| Performing Physician's Name         | 0008,1050 | PN |       | ANAP              | COPY   |         |
| Related Series Sequence             | 0008,1250 | SQ |       | VNAP              | AUTO   |         |
| >Study Instance UID                 | 0020,000D | UI |       | ALWAYS            | AUTO   |         |
| >Series Instance UID                | 0020,000E | UI |       | ALWAYS            | AUTO   |         |
| >Purpose of Reference Code Sequence | 0040,A170 | SQ |       | VNAP              | AUTO   |         |
| Series Instance UID                 | 0020,000E | UI |       | ALWAYS            | AUTO   |         |
| Series Number                       | 0020,0011 | IS |       | VNAP              | COPY   |         |
| Performed Procedure Step Start Date | 0040,0244 | DA |       | ANAP              | COPY   |         |
| Performed Procedure Step Start Time | 0040,0245 | TM |       | ANAP              | COPY   |         |
| Performed Procedure Step ID         | 0040,0253 | SH |       | ANAP              | COPY   |         |

**Table 13: General Acquisition Module**

| Attribute Name   | Tag       | VR | Value | Presence of Value | Source | Comment |
|------------------|-----------|----|-------|-------------------|--------|---------|
| Acquisition Date | 0008,0022 | DA |       | ALWAYS            | COPY   |         |
| Acquisition Time | 0008,0032 | TM |       | ALWAYS            | COPY   |         |

**Table 14: General Equipment Module**

| Attribute Name            | Tag       | VR | Value                   | Presence of Value | Source | Comment  |
|---------------------------|-----------|----|-------------------------|-------------------|--------|--|
| Manufacturer              | 0008,0070 | LO | Philips                 | ALWAYS            | FIXED  |  |
| Institution Name          | 0008,0080 | LO |                         | VNAP              | CONFIG | Configured Hospital Name                           |
| Manufacturer's Model Name | 0008,1090 | LO | Interventional Workspot | ALWAYS            | FIXED  |  |
| Device Serial Number      | 0008,1000 | LO |                         | ALWAYS            | AUTO   | Windows host name                                  |
| Software Versions         | 0018,1020 | LO | 1.8.x.y                 | ALWAYS            | AUTO   | where "x,y" is the detailed application SW version |

**Table 15: General Image Module**

| Attribute Name              | Tag       | VR    | Value | Presence of Value | Source | Comment |
|-----------------------------|-----------|-------|-------|-------------------|--------|---------|
| Image Type                  | 0008,0008 | CS    |       | ALWAYS            | COPY   |         |
| Content Date                | 0008,0023 | DA    |       | VNAP              | COPY   |         |
| Content Time                | 0008,0033 | TM    |       | VNAP              | COPY   |         |
| Instance Number             | 0020,0013 | IS    |       | ALWAYS            | AUTO   |         |
| Patient Orientation         | 0020,0020 | CS    |       | ANAP              | COPY   |         |
| Lossy Image Compression     | 0028,2110 | CS    |       | ANAP              | COPY   |         |
| Icon Image Sequence         | 0088,0200 | SQ    |       | ALWAYS            | AUTO   |         |
| >Samples per Pixel          | 0028,0002 | US    |       | ALWAYS            | AUTO   |         |
| >Photometric Interpretation | 0028,0004 | CS    |       | ALWAYS            | AUTO   |         |
| >Rows                       | 0028,0010 | US    |       | ALWAYS            | AUTO   |         |
| >Columns                    | 0028,0011 | US    |       | ALWAYS            | AUTO   |         |
| >Bits Allocated             | 0028,0100 | US    |       | ALWAYS            | AUTO   |         |
| >Bits Stored                | 0028,0101 | US    |       | ALWAYS            | AUTO   |         |
| >High Bit                   | 0028,0102 | US    |       | ALWAYS            | AUTO   |         |
| >Pixel Representation       | 0028,0103 | US    |       | ALWAYS            | AUTO   |         |
| >Pixel Data                 | 7FE0,0010 | OW/OB |       | ALWAYS            | AUTO   |         |

**Table 16: Image Pixel Module**

| Attribute Name             | Tag       | VR    | Value | Presence of Value | Source | Comment |
|----------------------------|-----------|-------|-------|-------------------|--------|---------|
| Samples per Pixel          | 0028,0002 | US    |       | ALWAYS            | COPY   |         |
| Photometric Interpretation | 0028,0004 | CS    |       | ALWAYS            | COPY   |         |
| Rows                       | 0028,0010 | US    |       | ALWAYS            | COPY   |         |
| Columns                    | 0028,0011 | US    |       | ALWAYS            | COPY   |         |
| Bits Allocated             | 0028,0100 | US    |       | ALWAYS            | COPY   |         |
| Bits Stored                | 0028,0101 | US    |       | ALWAYS            | COPY   |         |
| High Bit                   | 0028,0102 | US    |       | ALWAYS            | COPY   |         |
| Pixel Representation       | 0028,0103 | US    |       | ALWAYS            | COPY   |         |
| Pixel Data                 | 7FE0,0010 | OB/OW |       | ALWAYS            | COPY   |         |

**Table 17: Cine Module**

| Attribute Name | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------|-----------|----|-------|-------------------|--------|---------|
| Cine Rate      | 0018,0040 | IS |       | ALWAYS            | COPY   |         |
| Frame Time     | 0018,1063 | DS |       | ALWAYS            | COPY   |         |

**Table 18: Multi-Frame Module**

| Attribute Name          | Tag       | VR | Value | Presence of Value | Source | Comment |
|-------------------------|-----------|----|-------|-------------------|--------|---------|
| Number of Frames        | 0028,0008 | IS |       | ALWAYS            | COPY   |         |
| Frame Increment Pointer | 0028,0009 | AT |       | ALWAYS            | COPY   |         |

**Table 19: Display Shutter Module**

| Attribute Name                | Tag       | VR | Value | Presence of Value | Source | Comment |
|-------------------------------|-----------|----|-------|-------------------|--------|---------|
| Shutter Shape                 | 0018,1600 | CS |       | ALWAYS            | COPY   |         |
| Shutter Left Vertical Edge    | 0018,1602 | IS |       | ALWAYS            | COPY   |         |
| Shutter Right Vertical Edge   | 0018,1604 | IS |       | ALWAYS            | COPY   |         |
| Shutter Upper Horizontal Edge | 0018,1606 | IS |       | ALWAYS            | COPY   |         |
| Shutter Lower Horizontal Edge | 0018,1608 | IS |       | ALWAYS            | COPY   |         |

**Table 20: X-Ray Image Module**

| Attribute Name               | Tag       | VR | Value | Presence of Value | Source | Comment |
|------------------------------|-----------|----|-------|-------------------|--------|---------|
| Image Type                   | 0008,0008 | CS |       | ALWAYS            | COPY   |         |
| Samples per Pixel            | 0028,0002 | US |       | ALWAYS            | COPY   |         |
| Photometric Interpretation   | 0028,0004 | CS |       | ALWAYS            | COPY   |         |
| Frame Increment Pointer      | 0028,0009 | AT |       | ALWAYS            | COPY   |         |
| Bits Allocated               | 0028,0100 | US |       | ALWAYS            | COPY   |         |
| Bits Stored                  | 0028,0101 | US |       | ALWAYS            | COPY   |         |
| High Bit                     | 0028,0102 | US |       | ALWAYS            | COPY   |         |
| Pixel Representation         | 0028,0103 | US |       | ALWAYS            | COPY   |         |
| Pixel Intensity Relationship | 0028,1040 | CS |       | ALWAYS            | COPY   |         |
| Lossy Image Compression      | 0028,2110 | CS |       | ALWAYS            | COPY   |         |

**Table 21: X-Ray Acquisition Module**

| Attribute Name       | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------------|-----------|----|-------|-------------------|--------|---------|
| KVP                  | 0018,0060 | DS |       | VNAP              | COPY   |         |
| Exposure Time        | 0018,1150 | IS |       | VNAP              | COPY   |         |
| Radiation Setting    | 0018,1155 | CS |       | ALWAYS            | COPY   |         |
| Imager Pixel Spacing | 0018,1164 | DS |       | ANAP              | COPY   |         |
| Pixel Spacing        | 0028,0030 | DS |       | ALWAYS            | COPY   |         |

**Table 22: X-Ray Table Module**

| Attribute Name | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------|-----------|----|-------|-------------------|--------|---------|
| Table Motion   | 0018,1134 | CS |       | VNAP              | COPY   |         |
| Table Angle    | 0018,1138 | DS |       | ANAP              | COPY   |         |

**Table 23: XA Positioner Module**

| Attribute Name                       | Tag       | VR | Value | Presence of Value | Source | Comment   |
|--------------------------------------|-----------|----|-------|-------------------|--------|---|
| Distance Source to Detector          | 0018,1110 | DS |       | ALWAYS            | COPY   |   |
| Distance Source to Patient           | 0018,1111 | DS |       | ALWAYS            | COPY   |   |
| Positioner Motion                    | 0018,1500 | CS |       | ANAP              | COPY   |   |
| Positioner Primary Angle Increment   | 0018,1520 | DS |       | ALWAYS            | AUTO   | AUTO: Derived from modality supplied information. |
| Positioner Secondary Angle Increment | 0018,1521 | DS |       | ALWAYS            | AUTO   | AUTO: Derived from modality supplied information. |
| Positioner Primary Angle             | 0018,1510 | DS |       | ANAP              | AUTO   | AUTO: Derived from modality supplied information. |
| Positioner Secondary angle           | 0018,1511 | DS |       | ANAP              | AUTO   | AUTO: Derived from modality supplied information. |

**Table 24: DX Detector Module**

| Attribute Name       | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------------|-----------|----|-------|-------------------|--------|---------|
| Imager Pixel Spacing | 0018,1164 | DS |       | ALWAYS            | COPY   |         |
| Pixel Spacing        | 0028,0030 | DS |       | ALWAYS            | COPY   |         |

**Table 25: VOI LUT Module**

| Attribute Name | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------|-----------|----|-------|-------------------|--------|---------|
| Window Center  | 0028,1050 | DS |       | ALWAYS            | COPY   |         |
| Window Width   | 0028,1051 | DS |       | ALWAYS            | COPY   |         |

**Table 26: SOP Common Module**

| Attribute Name         | Tag       | VR | Value                        | Presence of Value | Source | Comment                          |
|------------------------|-----------|----|------------------------------|-------------------|--------|----------------------------------|
| Specific Character Set | 0008,0005 | CS |                              | ANAP              | AUTO   | As supported by hosting platform |
| Instance Creation Date | 0008,0012 | DA |                              | ALWAYS            | AUTO   |                                  |
| Instance Creation Time | 0008,0013 | TM |                              | ALWAYS            | AUTO   |                                  |
| SOP Class UID          | 0008,0016 | UI | 1.2.840.10008.5.1.4.1.1.12.1 | ALWAYS            | FIXED  |                                  |
| SOP Instance UID       | 0008,0018 | UI |                              | ALWAYS            | AUTO   |                                  |
| Instance Number        | 0020,0013 | IS |                              | ALWAYS            | AUTO   |                                  |

### 8.1.2.1.2. Raw data Storage SOP class

**Table 27: IOD of Created Raw Data Storage SOP Class Instances**

Document ID: HSDP-1068602  
 Document Status: Approved  
 Document Template ID: SNIP-IOCC-T-3.6.1.02  
 Document Template version: 1.0

| Information Entity | Module                     | Presence Of Module |
|--------------------|----------------------------|--------------------|
| Patient            | Patient Module             | ALWAYS             |
| Study              | General Study Module       | ALWAYS             |
|                    | Patient Study Module       | ALWAYS             |
| Series             | General Series Module      | ALWAYS             |
| Frame of Reference | Frame of Reference         | ALWAYS             |
| Equipment          | General Equipment Module   | ALWAYS             |
| Image              | Acquisition Context Module | ALWAYS             |
|                    | Raw Data Module            | ALWAYS             |
|                    | SOP Common Module          | ALWAYS             |

**Table 28: Patient Module**

| Attribute Name       | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------------|-----------|----|-------|-------------------|--------|---------|
| Patient's Name       | 0010,0010 | PN |       | VNAP              | COPY   |         |
| Patient ID           | 0010,0020 | LO |       | VNAP              | COPY   |         |
| Patient's Birth Date | 0010,0030 | DA |       | VNAP              | COPY   |         |
| Patient's Sex        | 0010,0040 | CS |       | VNAP              | COPY   |         |

**Table 29: General Study Module**

| Attribute Name             | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------------------|-----------|----|-------|-------------------|--------|---------|
| Study Date                 | 0008,0020 | DA |       | ALWAYS            | COPY   |         |
| Study Time                 | 0008,0030 | TM |       | ALWAYS            | COPY   |         |
| Referring Physician's Name | 0008,0090 | PN |       | VNAP              | COPY   |         |
| Study Instance UID         | 0020,000D | UI |       | ALWAYS            | COPY   |         |
| Study ID                   | 0020,0010 | SH |       | VNAP              | COPY   |         |
| Accession Number           | 0008,0050 | SH |       | VNAP              | AUTO   |         |

**Table 30: Patient Study Module**

| Attribute Name   | Tag       | VR | Value | Presence of Value | Source | Comment |
|------------------|-----------|----|-------|-------------------|--------|---------|
| Patient's Weight | 0010,1030 | DS |       | ALWAYS            | COPY   |         |

**Table 31: General Series Module**

| Attribute Name              | Tag       | VR | Value | Presence of Value | Source | Comment |
|-----------------------------|-----------|----|-------|-------------------|--------|---------|
| Series Date                 | 0008,0021 | DA |       | ALWAYS            | AUTO   |         |
| Series Time                 | 0008,0031 | TM |       | ALWAYS            | AUTO   |         |
| Modality                    | 0008,0060 | CS | XA    | ALWAYS            | FIXED  |         |
| Series Description          | 0008,103E | LO |       | ALWAYS            | COPY   |         |
| Performing Physicians' name | 0008,1050 | PN |       | ANAP              | COPY   |         |

|                                     |           |    |  |        |      |  |
|-------------------------------------|-----------|----|--|--------|------|--|
| Related Series Sequence             | 0008,1250 | SQ |  | VNAP   | AUTO |  |
| >Study Instance UID                 | 0020,000D | UI |  | ALWAYS | AUTO |  |
| >Series Instance UID                | 0020,000E | UI |  | ALWAYS | AUTO |  |
| >Purpose of Reference Code Sequence | 0040,A170 | SQ |  | VNAP   | AUTO |  |
| Series Instance UID                 | 0020,000E | UI |  | ALWAYS | AUTO |  |
| Series Number                       | 0020,0011 | IS |  | VNAP   | AUTO |  |
| Laterality                          | 0020,0060 | CS |  | ANAP   | COPY |  |
| Performed Procedure Step Start Date | 0040,0244 | DA |  | ANAP   | COPY |  |
| Performed Procedure Step Start Time | 0040,0245 | TM |  | ANAP   | COPY |  |
| Performed Procedure Step ID         | 0040,0253 | SH |  | ANAP   | COPY |  |

**Table 32: Frame of Reference Module**

| Attribute Name               | Tag       | VR | Value | Presence of Value | Source | Comment |
|------------------------------|-----------|----|-------|-------------------|--------|---------|
| Frame of Reference UID       | 0020,0052 | UI |       | ALWAYS            | COPY   |         |
| Position Reference Indicator | 0020,1040 | LO |       | VNAP              | COPY   |         |

**Table 33: General Equipment Module**

| Attribute Name            | Tag       | VR | Value                   | Presence of Value | Source | Comment   |
|---------------------------|-----------|----|-------------------------|-------------------|--------|---|
| Manufacturer              | 0008,0070 | LO | Philips                 | ALWAYS            | FIXED  |   |
| Institution Name          | 0008,0080 | LO |                         | VNAP              | CONFIG | Configured Hospital Name                            |
| Manufacturer's Model Name | 0008,1090 | LO | Interventional Workspot | ALWAYS            | FIXED  |   |
| Device Serial Number      | 0018,1000 | LO |                         | ALWAYS            | AUTO   | Mac address of Hospital NIC                         |
| Software Versions         | 0018,1020 | LO | 1.8.x.y                 | ALWAYS            | AUTO   | where "x,y" is the detailed application SW version. |

**Table 34: Acquisition Context Module**

| Attribute Name | Tag | VR | Value | Presence of Value | Source | Comment |
|----------------|-----|----|-------|-------------------|--------|---------|
|----------------|-----|----|-------|-------------------|--------|---------|



|                              |           |    |  |      |      |  |
|------------------------------|-----------|----|--|------|------|--|
| Acquisition Context Sequence | 0040,0555 | SQ |  | VNAP | COPY |  |
|------------------------------|-----------|----|--|------|------|--|

**Table 35: Raw Data Module**

| Attribute Name      | Tag       | VR | Value | Presence of Value | Source | Comment |
|---------------------|-----------|----|-------|-------------------|--------|---------|
| Content Date        | 0008,0023 | DA |       | ALWAYS            | AUTO   |         |
| Content Time        | 0008,0033 | TM |       | ALWAYS            | AUTO   |         |
| Creator Version UID | 0008,9123 | UI |       | ALWAYS            | AUTO   |         |
| Instance Number     | 0020,0013 | IS |       | ALWAYS            | AUTO   |         |

**Table 36: SOP Common Module**

| Attribute Name                     | Tag       | VR | Value                      | Presence of Value | Source | Comment                          |
|------------------------------------|-----------|----|----------------------------|-------------------|--------|----------------------------------|
| Specific Character Set             | 0008,0005 | CS |                            | ANAP              | AUTO   | As supported by hosting platform |
| SOP Class UID                      | 0008,0016 | UI | 1.2.840.10008.5.1.4.1.1.66 | ALWAYS            | FIXED  |                                  |
| SOP Instance UID                   | 0008,0018 | UI |                            | ALWAYS            | AUTO   |                                  |
| Original Specialized SOP Class UID | 0008,001B | UI |                            | VNAP              | AUTO   |                                  |
| Instance Creation Date             | 0008,0012 | DA |                            | ALWAYS            | AUTO   |                                  |
| Instance Creation Time             | 0008,0013 | TM |                            | ALWAYS            | AUTO   |                                  |
| Instance Number                    | 0020,0013 | IS |                            | ALWAYS            | AUTO   |                                  |

### 8.1.2.1.3. Secondary Capture Image Storage SOP class

**Table 37: IOD of Created Secondary Capture Image Storage SOP Class Instances**

| Information Entity | Module                   | Presence Of Module |
|--------------------|--------------------------|--------------------|
| Patient            | Patient Module           | ALWAYS             |
| Study              | General Study Module     | ALWAYS             |
|                    | Patient Study Module     | ALWAYS             |
| Series             | General Series Module    | ALWAYS             |
| Equipment          | General Equipment Module | ALWAYS             |
|                    | SC Equipment Module      | ALWAYS             |
| Image              | General Image Module     | ALWAYS             |
|                    | Image Pixel Module       | ALWAYS             |
|                    | SOP Common Module        | ALWAYS             |

**Table 38: Patient Module**

| Attribute Name | Tag | VR | Value | Presence of Value | Source | Comment |
|----------------|-----|----|-------|-------------------|--------|---------|
|----------------|-----|----|-------|-------------------|--------|---------|

|                      |           |    |  |      |      |  |
|----------------------|-----------|----|--|------|------|--|
| Patient's Name       | 0010,0010 | PN |  | VNAP | COPY |  |
| Patient ID           | 0010,0020 | LO |  | VNAP | COPY |  |
| Patient's Birth Date | 0010,0030 | DA |  | VNAP | COPY |  |
| Patient's Sex        | 0010,0040 | CS |  | VNAP | COPY |  |

**Table 39: General Study Module**

| Attribute Name             | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------------------|-----------|----|-------|-------------------|--------|---------|
| Study Date                 | 0008,0020 | DA |       | ALWAYS            | COPY   |         |
| Study Time                 | 0008,0030 | TM |       | ALWAYS            | COPY   |         |
| Accession Number           | 0008,0050 | SH |       | VNAP              | COPY   |         |
| Referring Physician's Name | 0008,0090 | PN |       | VNAP              | COPY   |         |
| Study Instance UID         | 0020,000D | UI |       | ALWAYS            | COPY   |         |
| Study ID                   | 0020,0010 | SH |       | VNAP              | COPY   |         |

**Table 40: Patient Study Module**

| Attribute Name   | Tag       | VR | Value | Presence of Value | Source | Comment |
|------------------|-----------|----|-------|-------------------|--------|---------|
| Patient's Weight | 0010,1030 | DS |       | ALWAYS            | COPY   |         |

**Table 41: General Series Module**

| Attribute Name                      | Tag       | VR | Value | Presence of Value | Source | Comment |
|-------------------------------------|-----------|----|-------|-------------------|--------|---------|
| Series Date                         | 0008,0021 | DA |       | ALWAYS            | AUTO   |         |
| Series Time                         | 0008,0031 | TM |       | ALWAYS            | AUTO   |         |
| Modality                            | 0008,0060 | CS | XA    | ALWAYS            | FIXED  |         |
| Series Instance UID                 | 0020,000E | UI |       | ALWAYS            | AUTO   |         |
| Series Number                       | 0020,0011 | IS |       | VNAP              | AUTO   |         |
| Related Series Sequence             | 0008,1250 | SQ |       | VNAP              | AUTO   |         |
| >Study Instance UID                 | 0020,000D | UI |       | ALWAYS            | AUTO   |         |
| >Series Instance UID                | 0020,000E | UI |       | ALWAYS            | AUTO   |         |
| >Purpose of Reference Code Sequence | 0040,A170 | SQ |       | VNAP              | AUTO   |         |
| Performed Procedure Step Start Date | 0040,0244 | DA |       | ANAP              | COPY   |         |
| Performed Procedure Step Start Time | 0040,0255 | TM |       | ANAP              | COPY   |         |
| Performed Procedure Step ID         | 0040,0253 | SH |       | ANAP              | COPY   |         |

**Table 42: General Equipment Module**

| Attribute Name   | Tag       | VR | Value   | Presence of Value | Source | Comment                  |
|------------------|-----------|----|---------|-------------------|--------|--------------------------|
| Manufacturer     | 0008,0070 | LO | Philips | ALWAYS            | FIXED  |                          |
| Institution Name | 0008,0080 | LO |         | VNAP              | CONFIG | Configured Hospital Name |

|                           |           |    |                         |        |       |                |
|---------------------------|-----------|----|-------------------------|--------|-------|----------------|
| Station Name              | 0008,1010 | SH |                         | ALWAYS | AUTO  | Hostname IW PC |
| Manufacturer's Model Name | 0008,1090 | LO | Interventional Workspot | ALWAYS | FIXED |                |
| Software Versions         | 0018,1020 | LO | 1.8.0                   | ALWAYS | AUTO  |                |

**Table 43: SC Equipment Module**

| Attribute Name  | Tag       | VR | Value | Presence of Value | Source | Comment |
|-----------------|-----------|----|-------|-------------------|--------|---------|
| Modality        | 0008,0060 | CS | XA    | ALWAYS            | FIXED  |         |
| Conversion Type | 0008,0064 | CS | WSD   | ALWAYS            | FIXED  |         |

**Table 44: General Image Module**

| Attribute Name      | Tag       | VR | Value | Presence of Value | Source | Comment |
|---------------------|-----------|----|-------|-------------------|--------|---------|
| Instance Number     | 0020,0013 | IS |       | ALWAYS            | AUTO   |         |
| Patient Orientation | 0020,0020 | CS |       | VNAP              | AUTO   |         |

**Table 45: Image Pixel Module**

| Attribute Name             | Tag       | VR    | Value | Presence of Value | Source | Comment |
|----------------------------|-----------|-------|-------|-------------------|--------|---------|
| Samples per Pixel          | 0028,0002 | US    |       | ALWAYS            | AUTO   |         |
| Photometric Interpretation | 0028,0004 | CS    |       | ALWAYS            | AUTO   |         |
| Planar Configuration       | 0028,0006 | US    |       | ALWAYS            | AUTO   |         |
| Rows                       | 0028,0010 | US    |       | ALWAYS            | AUTO   |         |
| Columns                    | 0028,0011 | US    |       | ALWAYS            | AUTO   |         |
| Bits Allocated             | 0028,0100 | US    | 8     | ALWAYS            | AUTO   |         |
| Bits Stored                | 0028,0101 | US    | 8     | ALWAYS            | AUTO   |         |
| High Bit                   | 0028,0102 | US    | 7     | ALWAYS            | AUTO   |         |
| Pixel Representation       | 0028,0103 | US    | 0     | ALWAYS            | AUTO   |         |
| Pixel Data                 | 7FE0,0010 | OW/OB |       | ALWAYS            | AUTO   |         |

**Table 46: SOP Common Module**

| Attribute Name         | Tag       | VR | Value                     | Presence of Value | Source | Comment                          |
|------------------------|-----------|----|---------------------------|-------------------|--------|----------------------------------|
| Specific Character Set | 0008,0005 | CS |                           | ANAP              | AUTO   | As supported by hosting platform |
| SOP Class UID          | 0008,0016 | UI | 1.2.840.10008.5.1.4.1.1.7 | ALWAYS            | FIXED  |                                  |
| SOP Instance UID       | 0008,0018 | UI |                           | ALWAYS            | AUTO   |                                  |
| Instance Creation Date | 0008,0012 | DA |                           | ALWAYS            | AUTO   |                                  |
| Instance Creation Time | 0008,0013 | TM |                           | ALWAYS            | AUTO   |                                  |
| Instance Number        | 0020,0013 | IS |                           | ALWAYS            | AUTO   |                                  |

### 8.1.2.1.4. Multiframe True Color Secondary Capture Image Storage SOP class

**Table 47: IOD of Created Multiframe True Color Secondary Capture Image Storage SOP Class Instances**

| Information Entity | Module                               | Presence Of Module |
|--------------------|--------------------------------------|--------------------|
| Patient            | Patient Module                       | ALWAYS             |
| Study              | General Study Module                 | ALWAYS             |
|                    | Patient Study Module                 | ALWAYS             |
| Series             | General Series Module                | ALWAYS             |
| Equipment          | General Equipment Module             | ALWAYS             |
|                    | SC Equipment Module                  | ALWAYS             |
| Image              | General Image Module                 | ALWAYS             |
|                    | Image Pixel Module                   | ALWAYS             |
|                    | Cine Module                          | ALWAYS             |
|                    | Multi-Frame Module                   | ALWAYS             |
|                    | Multi-Frame Functional Groups Module | ALWAYS             |
|                    | SC Multi-frame Image Module          | ALWAYS             |

|  |                   |        |
|--|-------------------|--------|
|  | SOP Common Module | ALWAYS |
|--|-------------------|--------|

**Table 48: Patient Module**

| Attribute Name       | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------------|-----------|----|-------|-------------------|--------|---------|
| Patient's Name       | 0010,0010 | PN |       | VNAP              | COPY   |         |
| Patient ID           | 0010,0020 | LO |       | VNAP              | COPY   |         |
| Patient's Birth Date | 0010,0030 | DA |       | VNAP              | COPY   |         |
| Patient's Sex        | 0010,0040 | CS |       | VNAP              | COPY   |         |

**Table 49: General Study Module**

| Attribute Name             | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------------------|-----------|----|-------|-------------------|--------|---------|
| Study Date                 | 0008,0020 | DA |       | ALWAYS            | COPY   |         |
| Study Time                 | 0008,0030 | TM |       | ALWAYS            | COPY   |         |
| Accession Number           | 0008,0050 | SH |       | VNAP              | COPY   |         |
| Referring Physician's Name | 0008,0090 | PN |       | VNAP              | COPY   |         |
| Study Instance UID         | 0020,000D | UI |       | ALWAYS            | COPY   |         |
| Study ID                   | 0020,0010 | SH |       | VNAP              | COPY   |         |

**Table 50: Patient Study Module**

| Attribute Name   | Tag       | VR | Value | Presence of Value | Source | Comment |
|------------------|-----------|----|-------|-------------------|--------|---------|
| Patient's Weight | 0010,1030 | DS |       | ALWAYS            | COPY   |         |

**Table 51: General Series Module**

| Attribute Name                      | Tag       | VR | Value | Presence of Value | Source | Comment |
|-------------------------------------|-----------|----|-------|-------------------|--------|---------|
| Series Date                         | 0008,0021 | DA |       | ALWAYS            | AUTO   |         |
| Series Time                         | 0008,0031 | TM |       | ALWAYS            | AUTO   |         |
| Modality                            | 0008,0060 | CS | XA    | ALWAYS            | FIXED  |         |
| Series Instance UID                 | 0020,000E | UI |       | ALWAYS            | AUTO   |         |
| Series Number                       | 0020,0011 | IS |       | VNAP              | AUTO   |         |
| Related Series Sequence             | 0008,1250 | SQ |       | VNAP              | AUTO   |         |
| >Study Instance UID                 | 0020,000D | UI |       | ALWAYS            | AUTO   |         |
| >Series Instance UID                | 0020,000E | UI |       | ALWAYS            | AUTO   |         |
| >Purpose of Reference Code Sequence | 0040,A170 | SQ |       | VNAP              | AUTO   |         |
| Performed Procedure Step Start Date | 0040,0244 | DA |       | ANAP              | COPY   |         |
| Performed Procedure Step Start Time | 0040,0255 | TM |       | ANAP              | COPY   |         |
| Performed Procedure Step ID         | 0040,0253 | SH |       | ANAP              | COPY   |         |

**Table 52: General Equipment Module**

| Attribute Name            | Tag       | VR | Value                   | Presence of Value | Source | Comment                  |
|---------------------------|-----------|----|-------------------------|-------------------|--------|--------------------------|
| Manufacturer              | 0008,0070 | LO | Philips                 | ALWAYS            | FIXED  |                          |
| Institution Name          | 0008,0080 | LO |                         | VNAP              | CONFIG | Configured Hospital Name |
| Station Name              | 0008,1010 | SH |                         | ALWAYS            | AUTO   | Windows host name        |
| Manufacturer's Model Name | 0008,1090 | LO | Interventional Workspot | ALWAYS            | FIXED  |                          |
| Software Versions         | 0018,1020 | LO | 1.8.0                   | ALWAYS            | FIXED  |                          |

**Table 53: SC Equipment Module**

| Attribute Name  | Tag       | VR | Value | Presence of Value | Source | Comment |
|-----------------|-----------|----|-------|-------------------|--------|---------|
| Modality        | 0008,0060 | CS | XA    | ALWAYS            | FIXED  |         |
| Conversion Type | 0008,0064 | CS | WSD   | ALWAYS            | FIXED  |         |

**Table 54: General Image Module**

| Attribute Name       | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------------|-----------|----|-------|-------------------|--------|---------|
| Instance Number      | 0020,0013 | IS |       | ALWAYS            | AUTO   |         |
| Patient Orientation  | 0020,0020 | CS |       | VNAP              | AUTO   |         |
| Burned in Annotation | 0028,0301 | CS |       | ANAP              | AUTO   |         |

**Table 55: Image Pixel Module**

| Attribute Name             | Tag       | VR    | Value | Presence of Value | Source | Comment |
|----------------------------|-----------|-------|-------|-------------------|--------|---------|
| Samples per Pixel          | 0028,0002 | US    |       | ALWAYS            | AUTO   |         |
| Photometric Interpretation | 0028,0004 | CS    |       | ALWAYS            | AUTO   |         |
| Planar Configuration       | 0028,0006 | US    |       | ALWAYS            | AUTO   |         |
| Rows                       | 0028,0010 | US    |       | ALWAYS            | AUTO   |         |
| Columns                    | 0028,0011 | US    |       | ALWAYS            | AUTO   |         |
| Bits Allocated             | 0028,0100 | US    | 8     | ALWAYS            | AUTO   |         |
| Bits Stored                | 0028,0101 | US    | 8     | ALWAYS            | AUTO   |         |
| High Bit                   | 0028,0102 | US    | 7     | ALWAYS            | AUTO   |         |
| Pixel Representation       | 0028,0103 | US    | 0     | ALWAYS            | AUTO   |         |
| Pixel Data                 | 7FE0,0010 | OW/OB |       | ALWAYS            | AUTO   |         |

**Table 56: Cine Module**

| Attribute Name | Tag       | VR | Value | Presence of Value | Source | Comment |
|----------------|-----------|----|-------|-------------------|--------|---------|
| Frame Time     | 0018,1063 | DS |       | ALWAYS            | AUTO   |         |

**Table 57: Multi-Frame Module**

| Attribute Name          | Tag       | VR | Value | Presence of Value | Source | Comment |
|-------------------------|-----------|----|-------|-------------------|--------|---------|
| Number of Frames        | 0028,0008 | IS |       | ALWAYS            | AUTO   |         |
| Frame Increment Pointer | 0028,0009 | AT |       | ALWAYS            | AUTO   |         |

**Table 58: Multi-Frame Functional Groups Module**

| Attribute Name   | Tag       | VR | Value | Presence of Value | Source | Comment |
|------------------|-----------|----|-------|-------------------|--------|---------|
| Instance Number  | 0020,0013 | IS |       | ALWAYS            | AUTO   |         |
| Number of Frames | 0028,0008 | IS |       | ALWAYS            | AUTO   |         |

**Table 59: SC Multi-Frame Image Module**

| Attribute Name          | Tag       | VR | Value | Presence of Value | Source | Comment |
|-------------------------|-----------|----|-------|-------------------|--------|---------|
| Frame Increment Pointer | 0028,0009 | AT |       | ALWAYS            | AUTO   |         |
| Burned In Annotation    | 0028,0301 | CS |       | ALWAYS            | AUTO   |         |

**Table 60: SOP Common Module**

| Attribute Name         | Tag       | VR | Value                       | Presence of Value | Source | Comment                          |
|------------------------|-----------|----|-----------------------------|-------------------|--------|----------------------------------|
| Specific Character Set | 0008,0005 | CS |                             | ANAP              | AUTO   | As supported by hosting platform |
| SOP Class UID          | 0008,0016 | UI | 1.2.840.10008.5.1.4.1.1.7.4 | ALWAYS            | FIXED  |                                  |



|                        |           |    |  |        |      |  |
|------------------------|-----------|----|--|--------|------|--|
| SOP Instance UID       | 0008,0018 | UI |  | ALWAYS | AUTO |  |
| Instance Creation Date | 0008,0012 | DA |  | ALWAYS | AUTO |  |
| Instance Creation Time | 0008,0013 | TM |  | ALWAYS | AUTO |  |
| Instance Number        | 0020,0013 | IS |  | ALWAYS | AUTO |  |

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Doc Id: HSDP-1068602

Date: 10-Feb-2023

