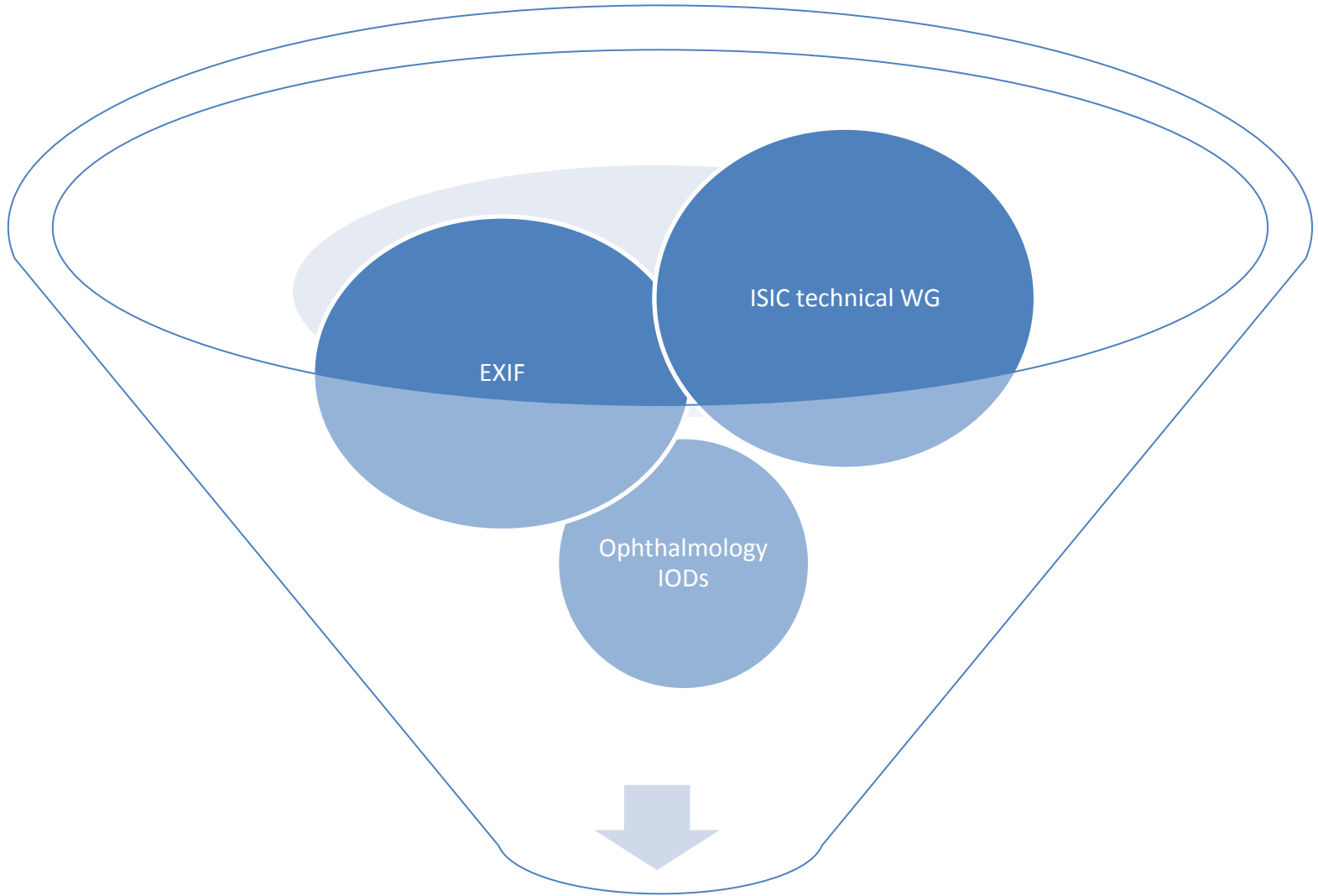


Metadata group

Update as of June 2015

Aim of the metadata group

- To develop a standard set of metadata elements
- Strategy
 - Leverage existing DICOM definitions especially Ophthalmology
 - Use EXIF information from COTS digital cameras
 - Use Dermatology specific elements identified by other ISIC working groups



Dermatology DICOM IOD

Summary of Current Activities

- Vendor scan
- EXIF to DICOM mapping
- Examination of Ophthalmology IODs

Vendor Scan

- Identify key dermatology vendors
- Identify vendors of relay station (JPEG to DICOM) software
- Identify current state of support of DICOM in dermatology products
- Survey vendors for metadata needs and capabilities

EXIF to DICOM mapping

- Exchangeable image file format (EXIF)
- EXIF data produced by commercial-of-the-shelf digital camera manufacturers
- EXIF data will contribute to DICOM metadata for images produced by COTS digital cameras
- Machine readable (as opposed to user entered)

EXIF Tag	Example Value	DICOM Attribute	
Manufacturer	CANON	(0008,0070)	Manufacturer
Model	650D	(0008,1090)	Manufacturer's Model
Orientation (rotation)	Top - left [8 possible values]		
Software	Ver1.01	(0018,1020) (0018,1019)	Software Version(s) or Secondary Capture Device Software Versions
Date and Time	2003:08:11 16:45:32		
YCbCr Positioning	Centered		
Compression	JPEG compression	(0028,2110) (0028,2112) (0028,2114)	Lossy Image Compression Lossy Image Compression Ratio Lossy Image Compression Method
Exposure Time	1/659 sec.	(0018,1150)	Exposure Time
FNumber	f/4.0	(0048,0113)	Objective Lens Numerical Aperture

Ophthalmology IODs

- Ophthalmology IODs closest to proposed dermatology
- Decode Ophthalmology IODS > Simplify (plain English) > Distribute for comment and/or Delphi