

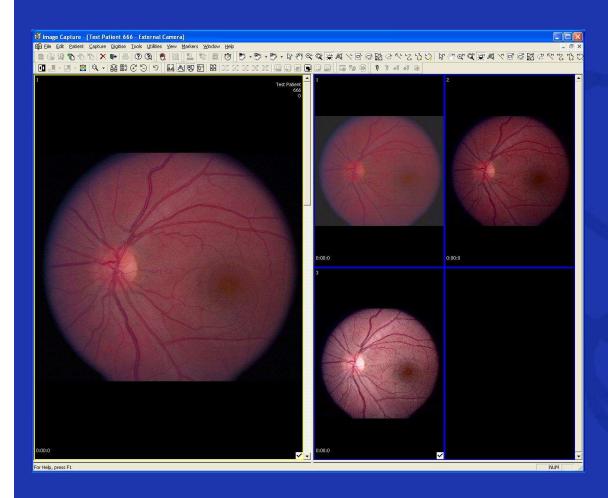
Experience of the new Opthalmic Image IODs

Stefan Claesen

ComMedica OPACS

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Integrates with standard digital camera backs

File sizes are a major concern 12MP = 36MB

Previously VL based, now uses OP IODs

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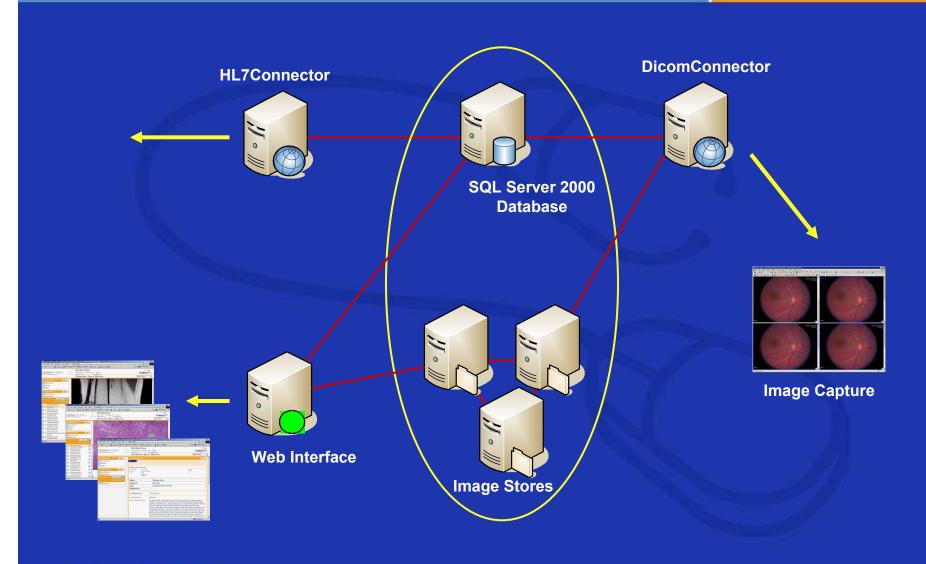
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- Shares PACS back-end architecture
- Fully Dicom based client application

OPACS Technical Architecture

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Moving from VL to OP IOD

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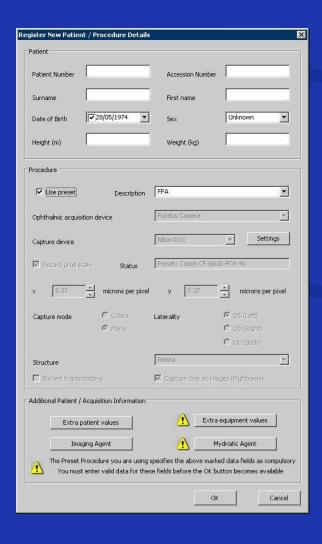
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- Additional parameters
- Multi-frame objects
- Stereo Metric Relationship

Starting a new procedure

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Patient demographics need to be entered by the photographer

Additional parameters need to be entered to satisfy the IOD requirements

Additional parameters

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Enhanced data quality forced by the IOD

Mydriatic

Agent

C6 C7 C8 C9

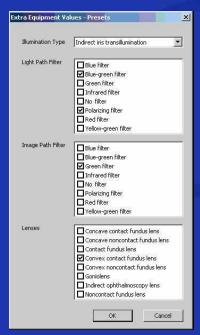
Cancel

Mydriatic Agent

Mydriatic Agent

Tropicamide

Degree of Dilation (mm)

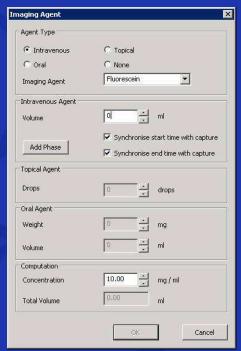


Extra
Equipment
Values



Extra Patient Values

Imaging Agents



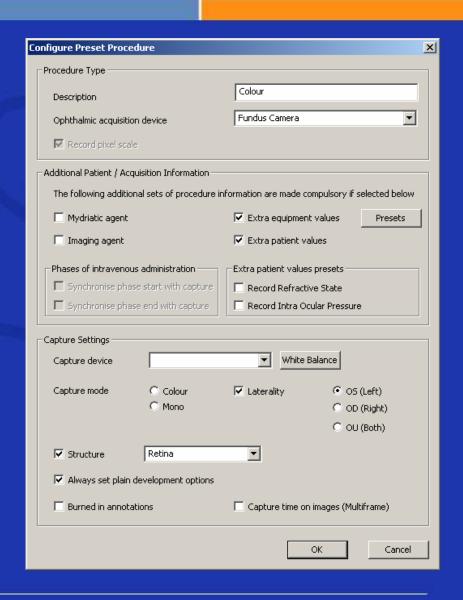
A mixture of type 1 and type 2 Attributes

Preset Procedures are the answer

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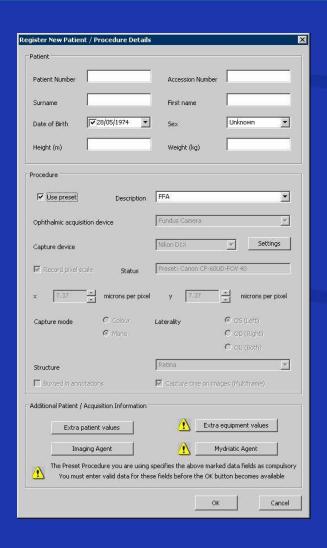
A number of preset procedures can be defined and stored as part of the system settings



Starting a new procedure (2)

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Patient demographics can be retrieved using Modality WorkList

Selecting a Preset Procedure completes most of the additional parameters

Separating left and right eyes

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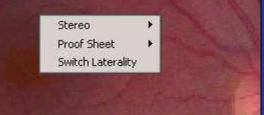
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Left and right eye images are stored as two separate multi-frame objects

This can lead to

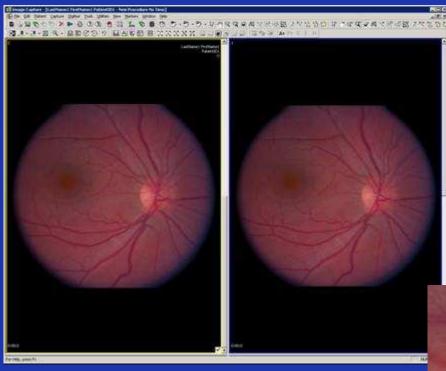
- Timer issues
- Large object sizes



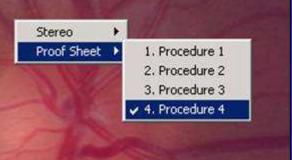
Viewing prior procedures

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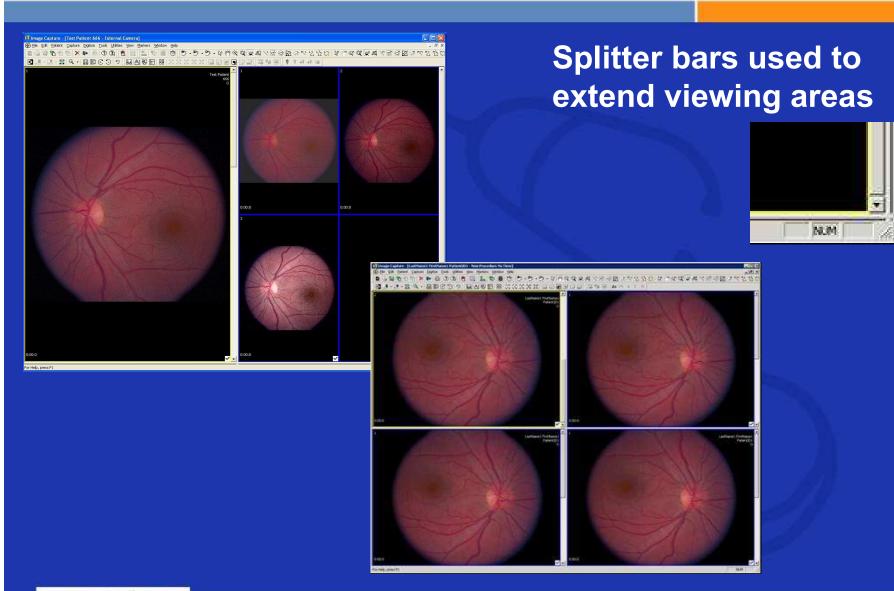
Prior procedures can be loaded into any of the viewable panes



Multiple view panes

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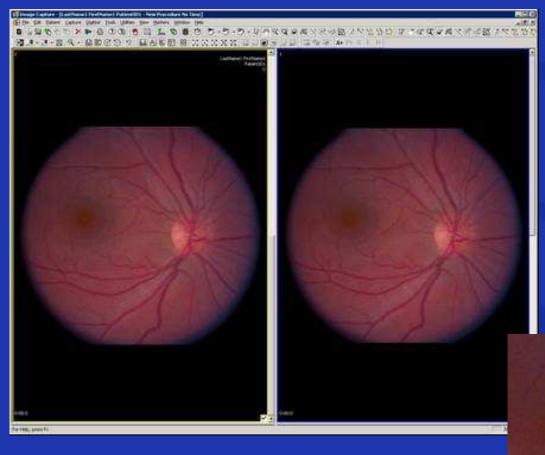
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Stereo Metric Relationship object

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Like a presentation state for ophthalmology

Moving from PACS into OPACS

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- A lot of conventional radiology wisdom can bring benefits to ophthalmology
 - Modality Work List
 - Prior exams \ "Hanging protocols"
- The new OP IOD brings some challenges to the ophthalmology workflow
 - Preset procedures
 - Large multi-frame objects
- Integrating the OP IOD is not superficial, even for the PACS server
 - Stereo metric relationships



Thank you

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