

Presentation of Grouped Procedures Profile

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Presentation of Group Procedures

What is the Clinical Problem?

- Multislice CT and high speed MR generate HUGE quantities of images quickly
 - ◆ 3000+ Images
 - ◆ No need to load all when only a subset needed
- Multiple orders and / or requested procedures done in one acquisition
- Entire exam may not read by one radiologist
- Clinicians often not interested in entire exam
- Can't track status of each requested procedure

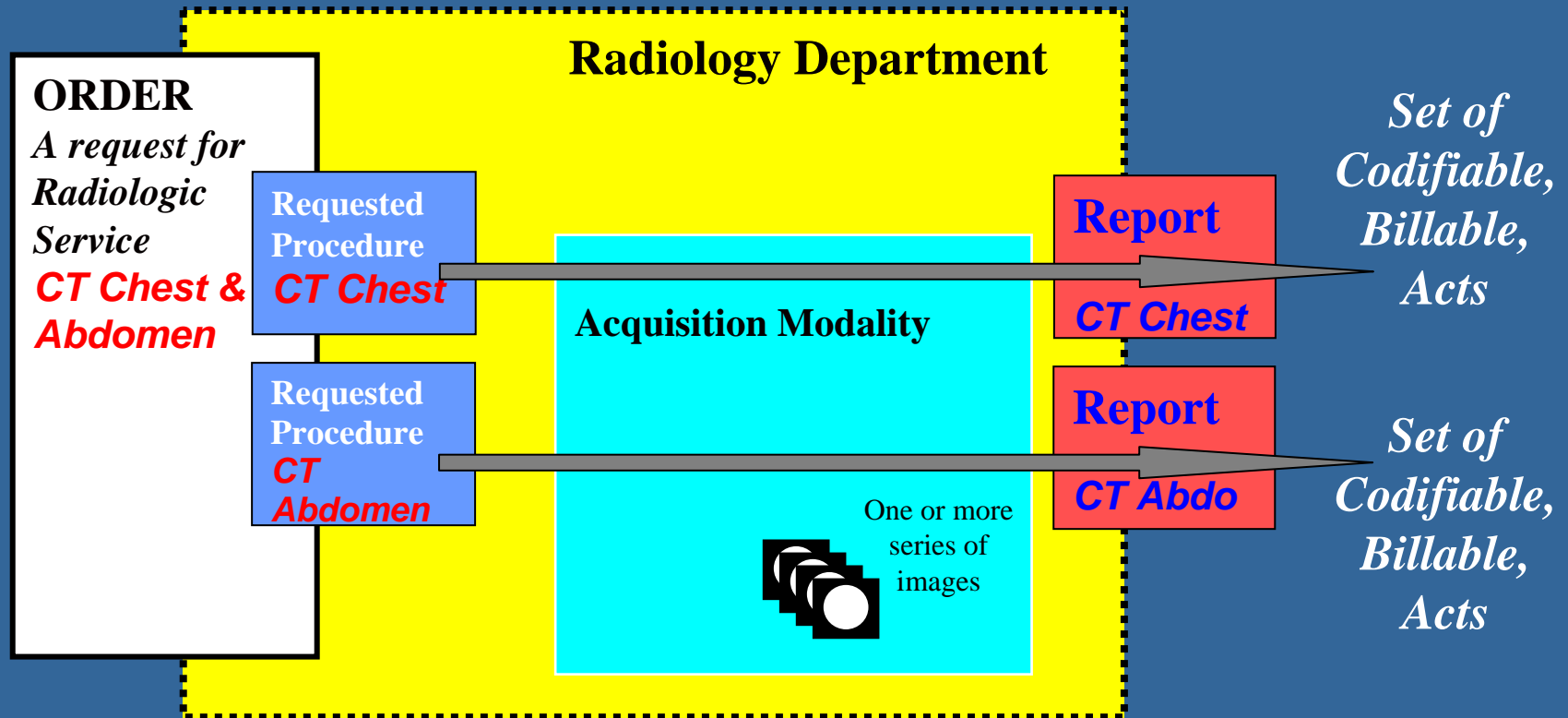
Grouping of Procedures – Use case

- CT Chest/Abdomen/Pelvis
- Neuroradiology: CT Neck & CT Chest
- MR Imaging of different sections of the spine
- MRI and MRA of vessels acquired together
- MRI of the head and neck with specialized coils
- Direct radiography (DR) in a trauma patient: AP images, then move the patient once to acquire a set of orthogonal images, and then regroup by body part
- Sonographic evaluation of the kidneys and of the abdomen
- CT of the pelvis with CT angiographic runoff
- Angiographic studies of multiple vessels mixed with therapeutic interventions on selected segments.

Presentation of Group Procedures

Scope

One Order – Two Procedures – One Acquisition - Two Reports Step



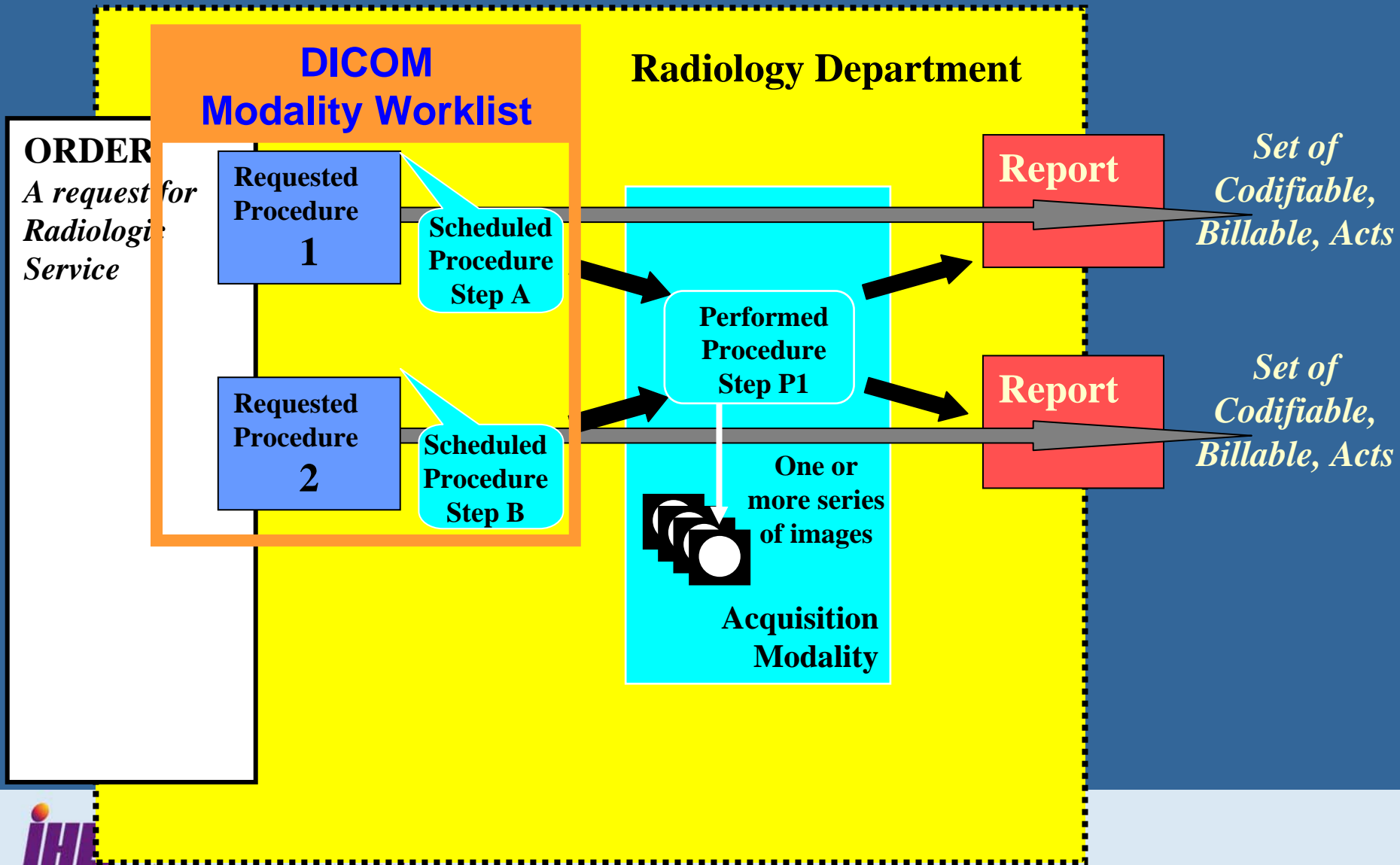
Grouping of Procedures – Value Proposition

- Optimize patient comfort
- Optimize time of image acquisition.

But, there is the need to:

- Maintain the link back to each one of the grouped procedures without breaking the acquisition apart.
- Ensure that each image subset related to a requested procedure is identified and ready to be presented. This is key for quick display of new and prior studies.
- In the film world, images are manually sorted. In the film-less world, images should be sorted automatically when displayed

Group Case



Grouping of Procedures in IHE

Group Case support is required by the IHE Scheduled Workflow Integration Profile:

- On Image Managers (PACS)
- On Order Fillers (RIS).

Group Case support is optional on Modalities.

PGP requires support of the “Group Case Option” on Modalities.

Presentation of Grouped Procedures

builds upon SWF and CPI

Scheduled Workflow Group Case

Admit, order, schedule,
acquire images, notify of
completed steps

+

Consistent Presentation of Images - *GSPS*

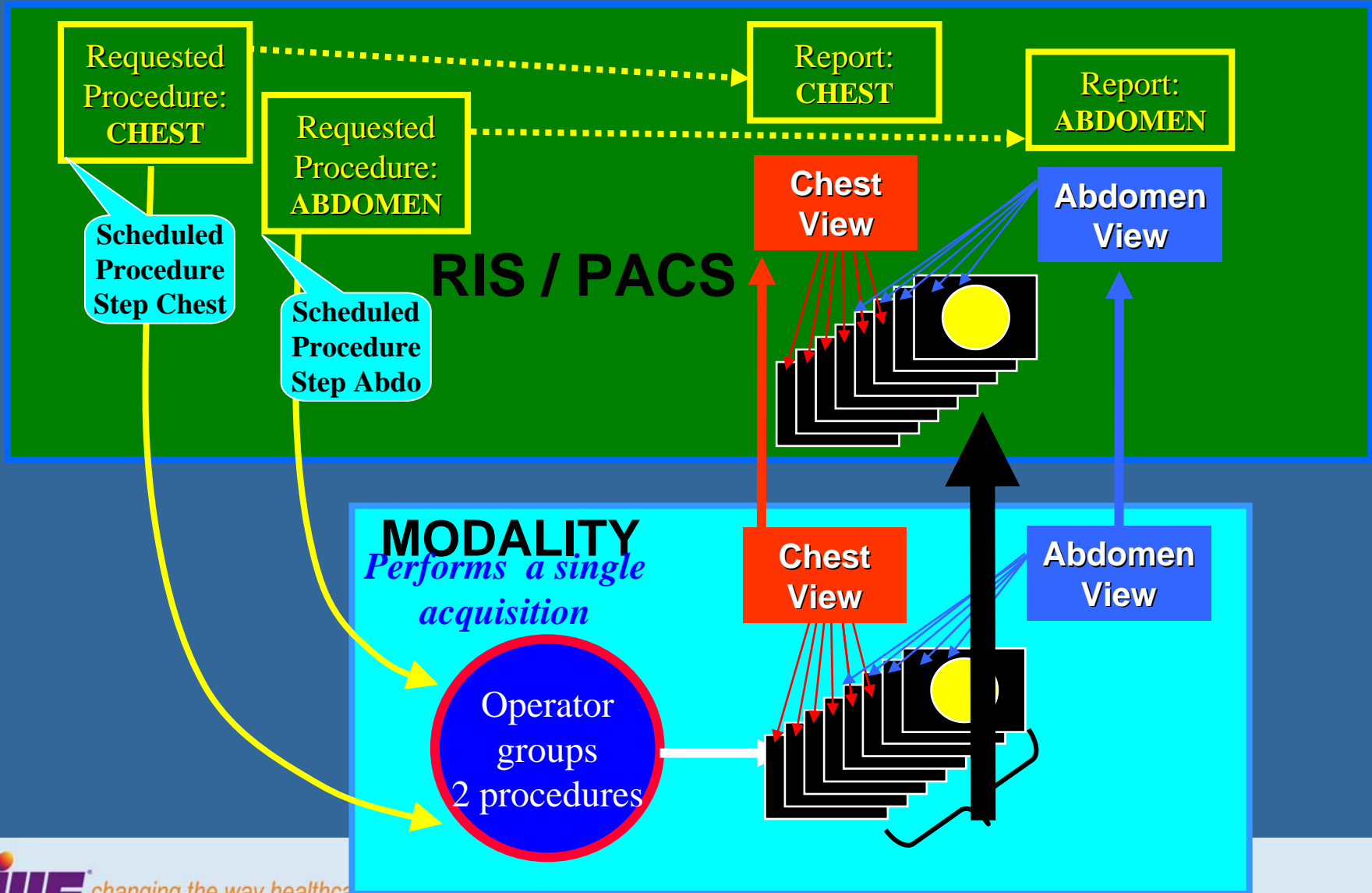
Softcopy
grayscale and
presentation state

Required for

Presentation of
Grouped Procedures

Presentation of Subsets of
a Single Acquisition

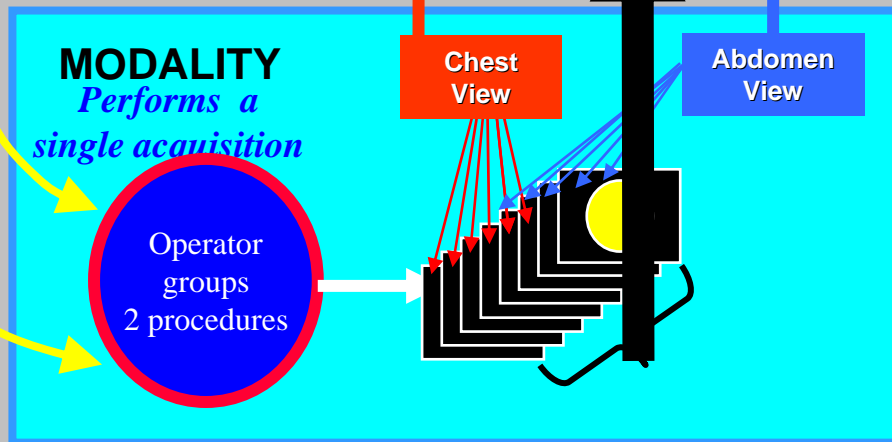
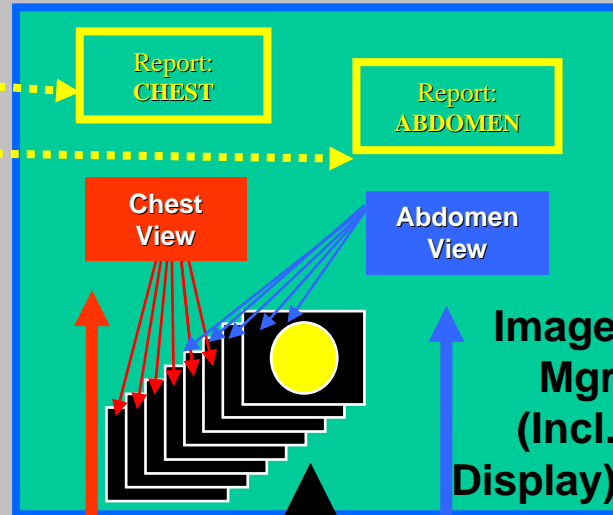
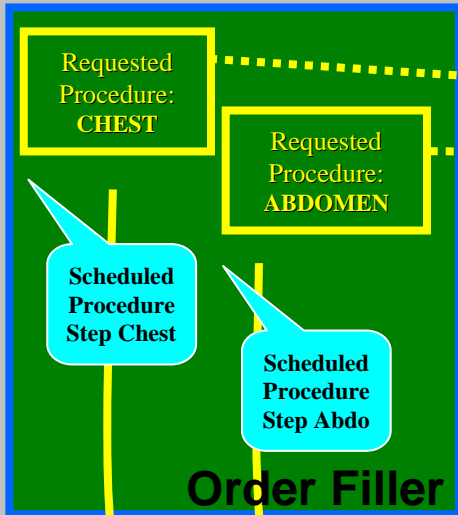
IHE – Presentation of Grouped Procedures



IHE PGP - Implementation Example

Image Display Constraints

SWF/PGP Actors



CPI only Actor

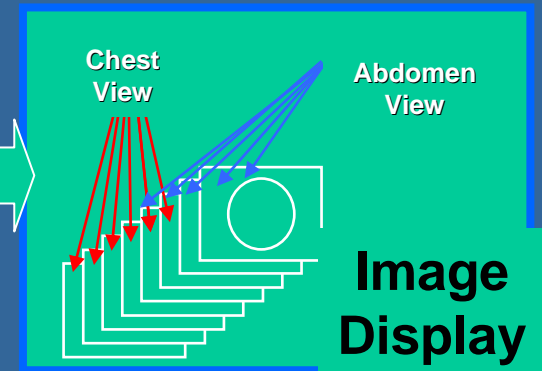


Image Display has no access to full Requested Procedure Information

Presentation of Grouped Procedures

Value Proposition

Improves workflow, overall efficiency of care and reduces costs of providing services:

- Lowers barriers to migration to digital radiology practice
- Optimizes use of newer & faster acquisition devices
- Improves clarity and access to Radiology results
- Simplifies and facilitates billing of grouped procedures
- Enhances softcopy interpretation throughput

Implementing PGP made easy !

Feedback from early implementors has resulted in significant improvement for the Technical Framework:

- **Appendix A has been entirely restructured** to provide a thorough and unambiguous specifications of all SWF+PGP workflow cases.
- **The New Appendix A defines precisely every details for information mappings** in modalities between MWL, Images/Presentation States, Modality PPS. This is critical information for PACS and RIS implementations of SWF and PGP.



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