Post-Processing and Reporting Workflow

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• Purpose and Abilities
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Purpose

- Support of Post-Processing and Reporting in an integrated environment
  - Image Processing and Reconstruction
  - Computer Aided Detection
  - Interpretation, Dictation, Transcription and Verification of Report
  - Review and Comparison of Reports
Abilities

• To schedule and keep track of progress of Post-Processing and Reporting activities
  – Provide Worklists with General Purpose Worklist Management
  – Update status with General Purpose Performed Procedure Management

• Both are a super set of the Modality Worklist and Performed Procedure Management
Reporting Workflow Overview

- Work Item Claimed
- Released (Completed)
- Reporting Worklist
- Store Reports
- RIS
- Report Reader/Creator
- Retrieve Images & Evidence Documents
- Measurements CAD Reports
- PACS
- Reporting Procedure Step COMPLETED
- Reporting Procedure Step COMPLETED
Query for Workitems

- General Purpose Worklist SOP Class

- Examples of query cases:
  - Patient Oriented Query: Worklist for a specific patient / procedure
  - Station Oriented Query: Broad Worklist for a particular workstation
  - Class Oriented Query: Broad Worklist for a class of workstations (e.g. workstations for CT 3D Reconstructions)

- Worklist provided with workitems codes, e.g., image processing or computer aided detection
Workitem Selected and Claimed

- General Purpose Scheduled Procedure SOP Class
- Workstation takes ownership of workitem to prevent simultaneous processing of data
Create Performed Procedure Step

- General Purpose Procedure Step SOP Class
- Notification to RIS that workitem is in progress
Create Performed Procedure Step

- General Purpose Procedure Step SOP Class
- Notification to RIS that workitem is in completed
- Report results, material used, etc.
Workitem Completed

- General Purpose Scheduled Procedure SOP Class
- Workstation report finalizing the workitem
Wrap Up

Post-Processing Workflow (Multiple Steps) with Post-Processing Manager grouped with Image Manager
Query for Reportitems

- General Purpose Worklist SOP Class

- Examples of query cases:
  - Patient Oriented Query: Worklist for a specific patient / procedure
  - User Oriented Query: Worklist for a particular user

- Worklist provided with workitems codes for:
  - Interpretation
  - Transaction
  - Verification
Same Messages as with Post Processing

- Reporting Workstation to N-ACTION (SPS in Progress) to RIS
- Reporting Workstation to N-CREATE (PPS in Progress) to RIS
- Reporting Workstation to N-CREATE (PPS Completed) to RIS
- Reporting Workstation to N-ACTION (SPS Complete) to RIS
Workflow Example

PACS

Retrieve Images

Retrieve Evidence Documents

Images Available

RIS

Report Submission

Reporting Worklist Provided

Workitem Claimed

Workitem PPS In Progress

Workitem PPS Completed

Workitem Completed

Reporting Workstation