

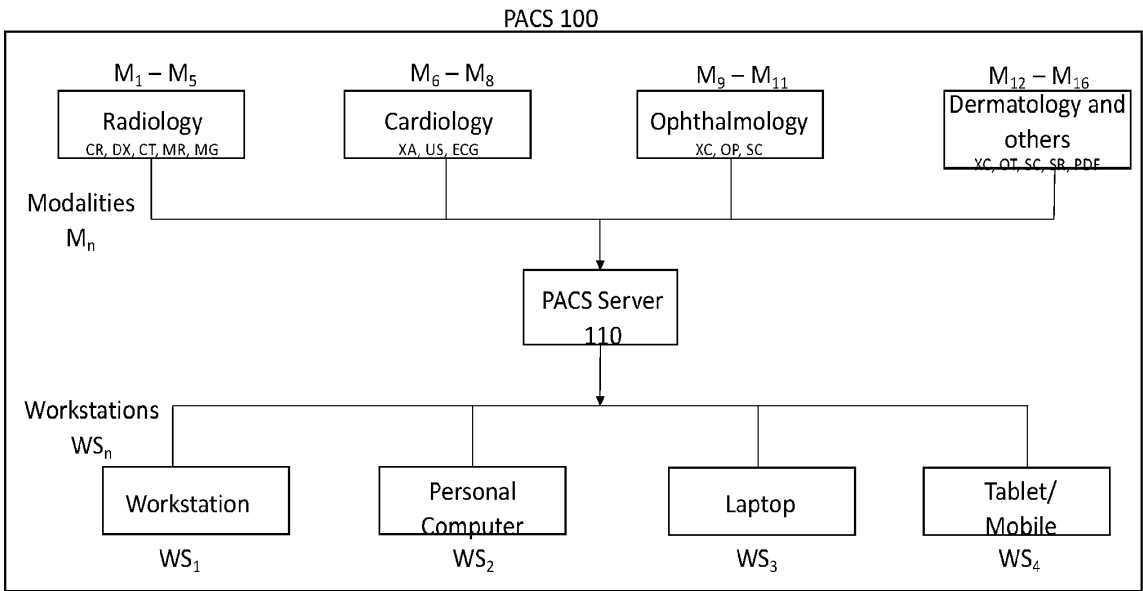


Fig 1: An example of PACS setup

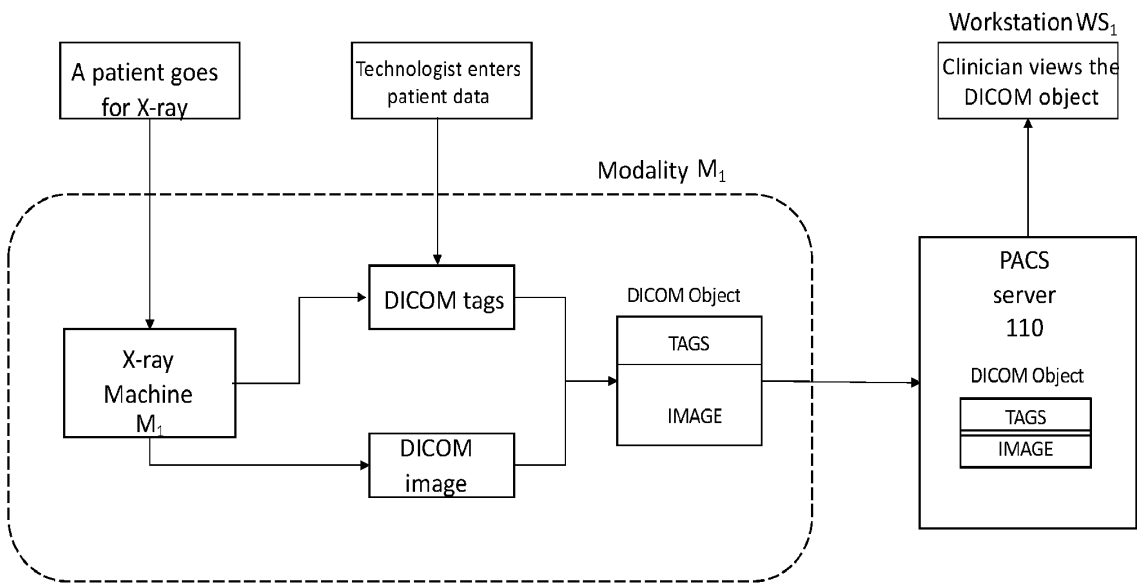


Fig 2: An example of workflow for DICOM modalities in PACS

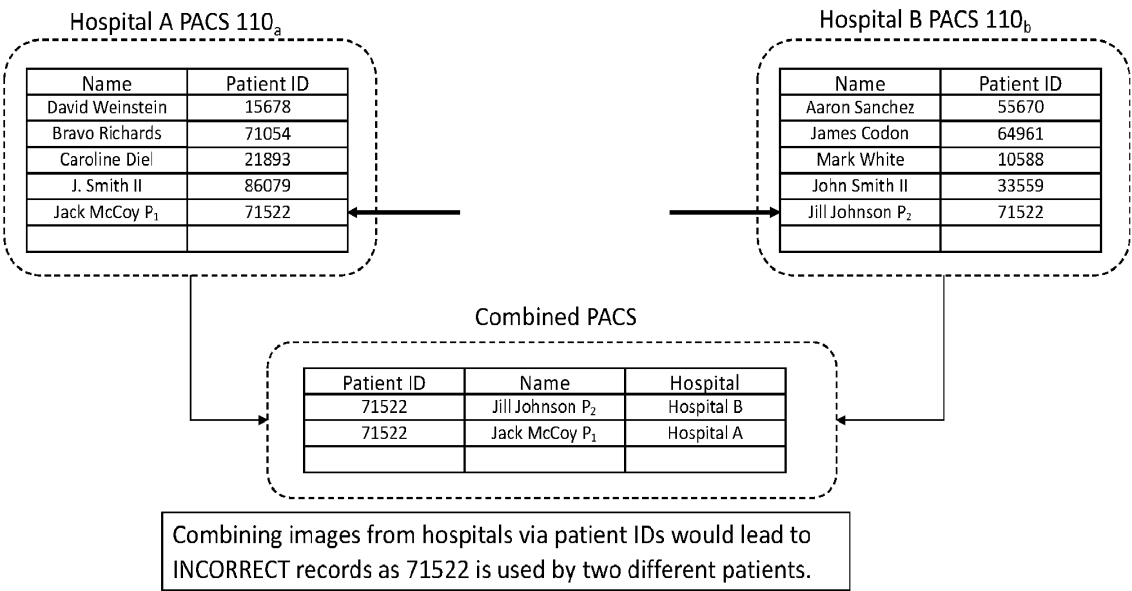


Fig 3: Patient unification problem due to non-unique patient identifiers in prior art PACS

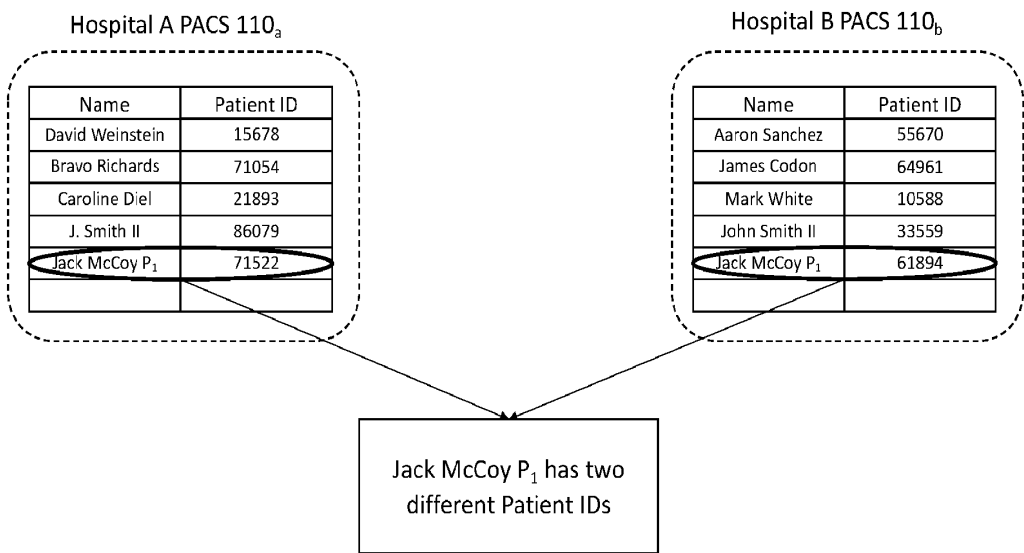


Fig 4: Patient unification problem due to same patient possessing multiple identifiers in prior art PACS

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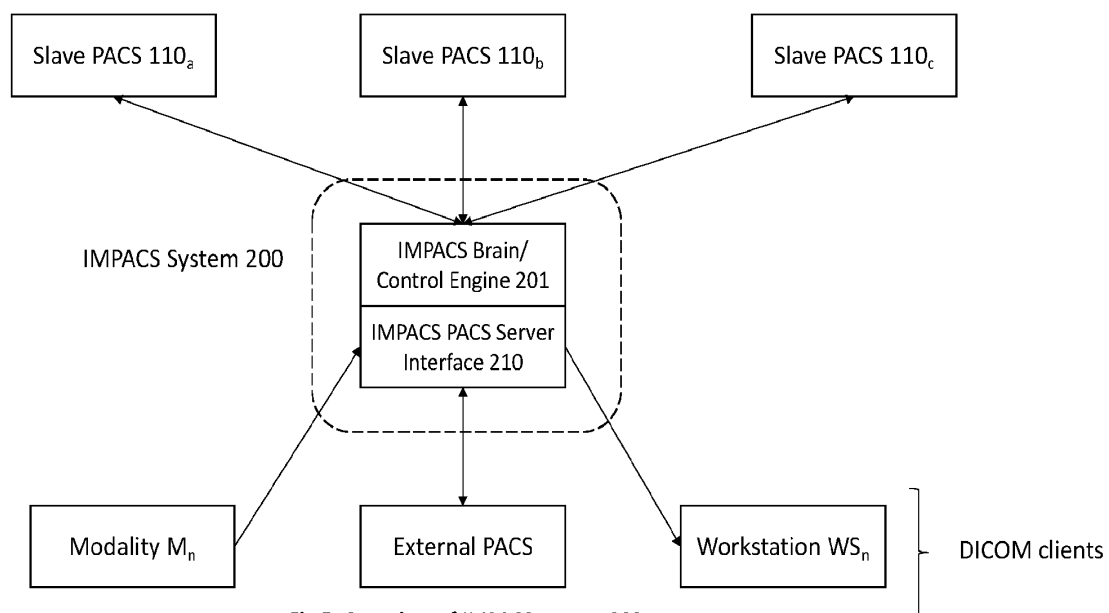


Fig 5: Overview of IMPACS system 200

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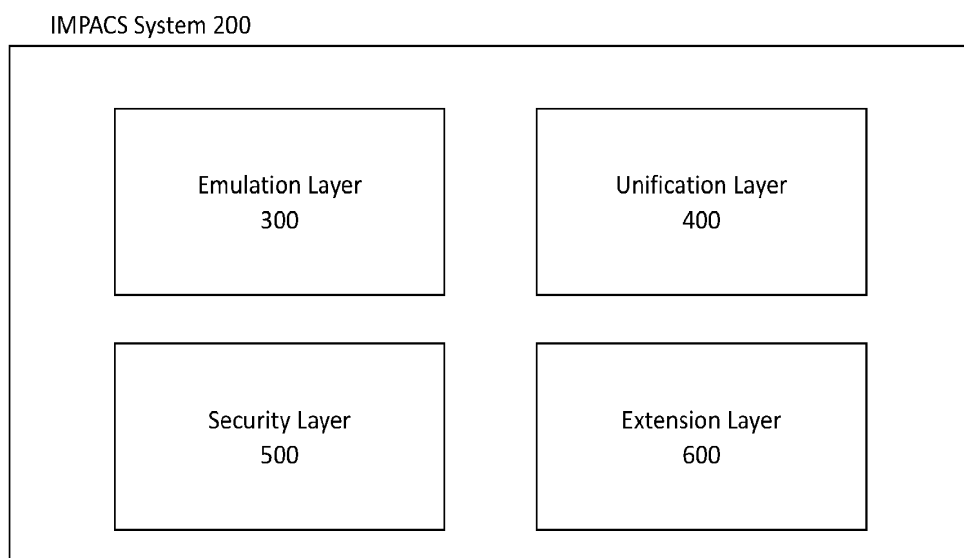


Fig 6: Overview of different layers of IMPACS system 200

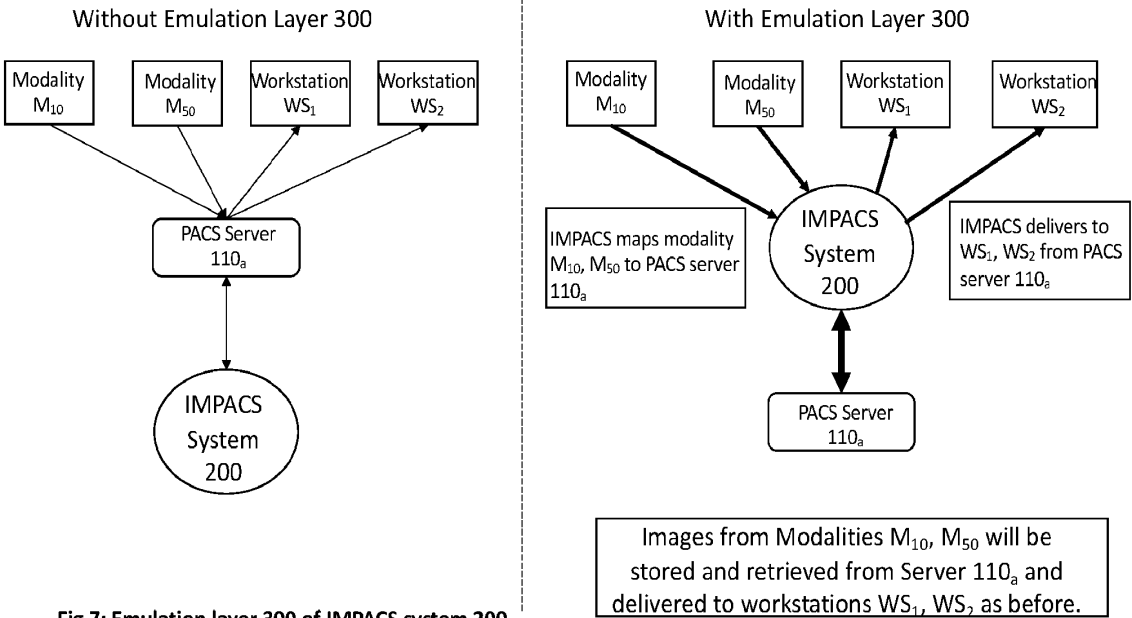


Fig 7: Emulation layer 300 of IMPACS system 200

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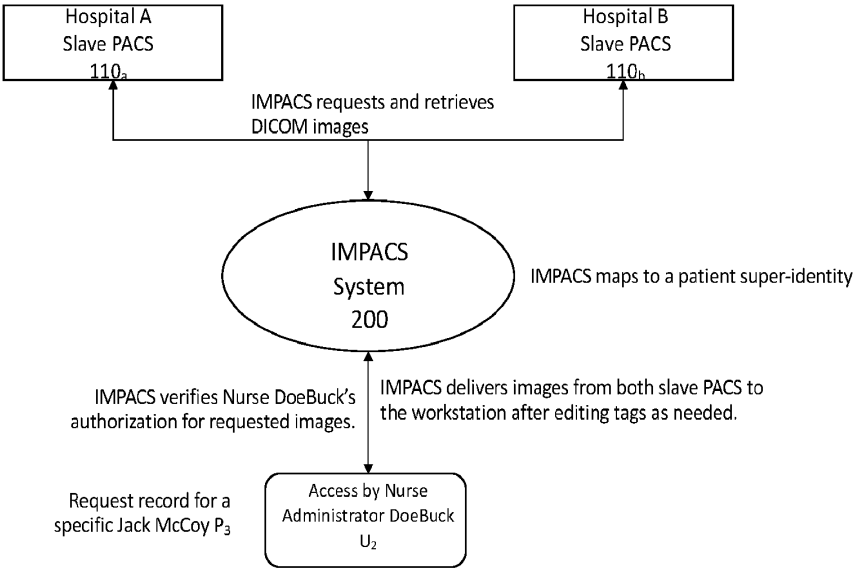


Fig 8: Overview of unification layer 400 of IMPACS system 200

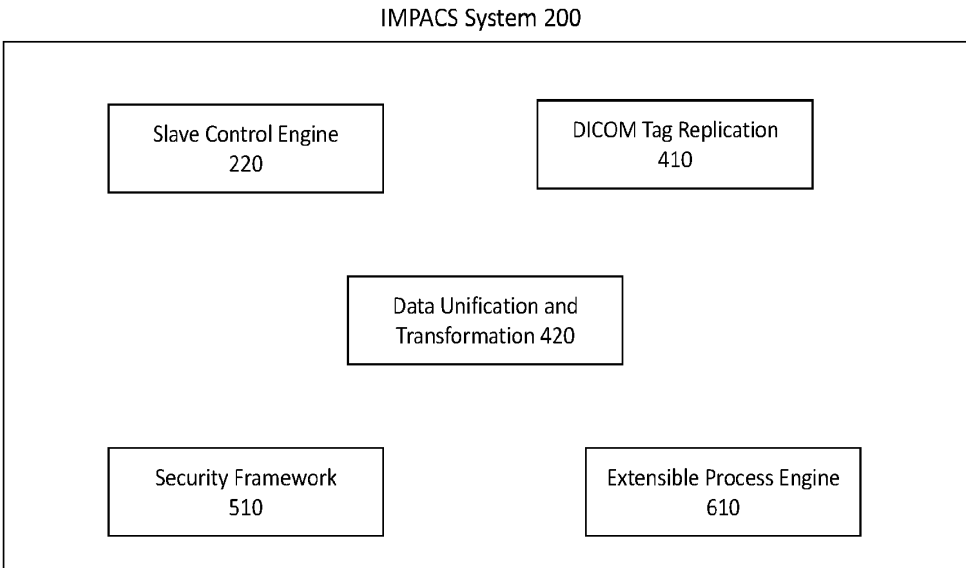


Fig 9: Overview of main elements of IMPACS system 200

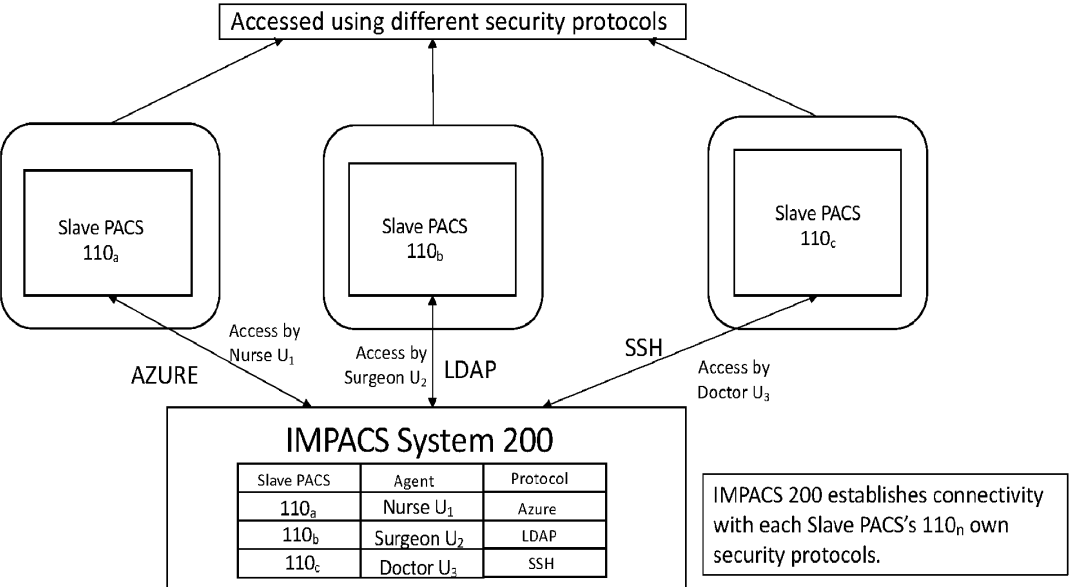


Fig 10: Overview IMPACS system's interaction with slave PACS servers using different security protocols

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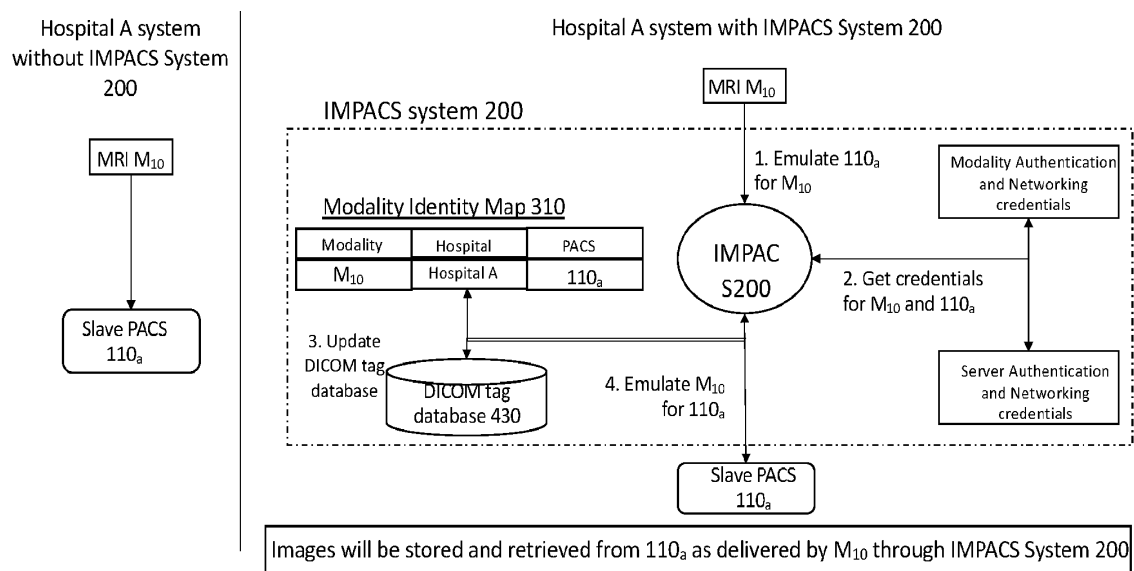


Fig 11: Emulation layer 300 of IMPACS system 200 using modality identity map 310

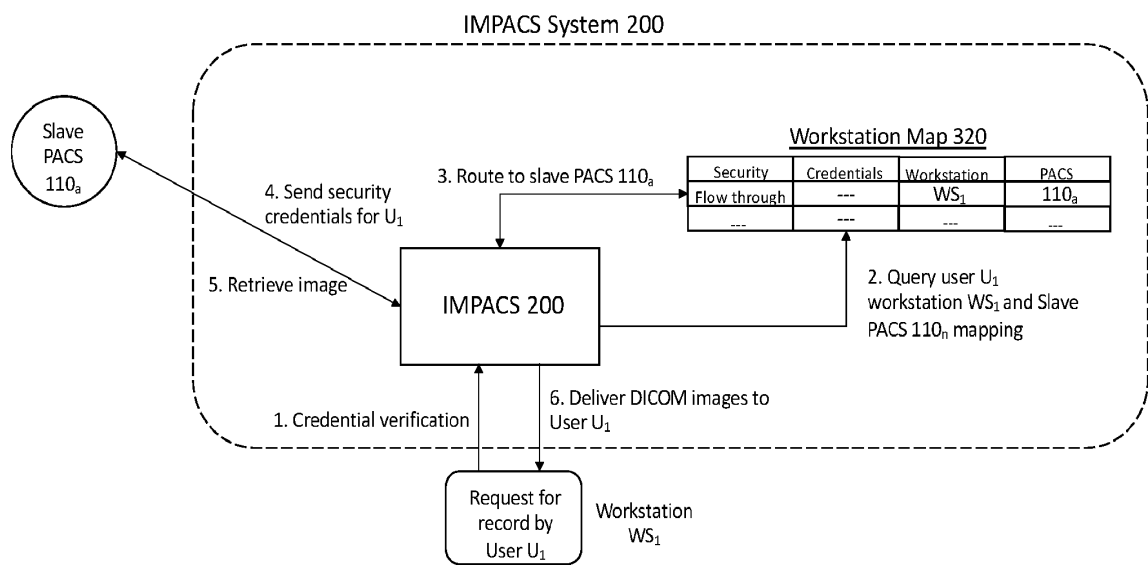
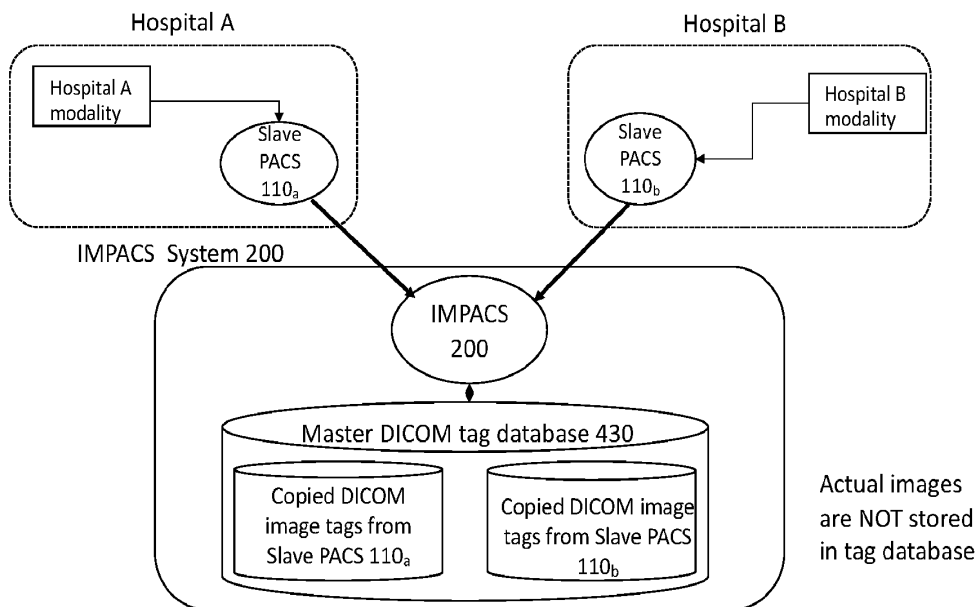


Fig 12: IMPACS System 200 in emulation mode with workstation mapping

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**Fig 13: Master DICOM tag database 430 of the IMPACS system 200**

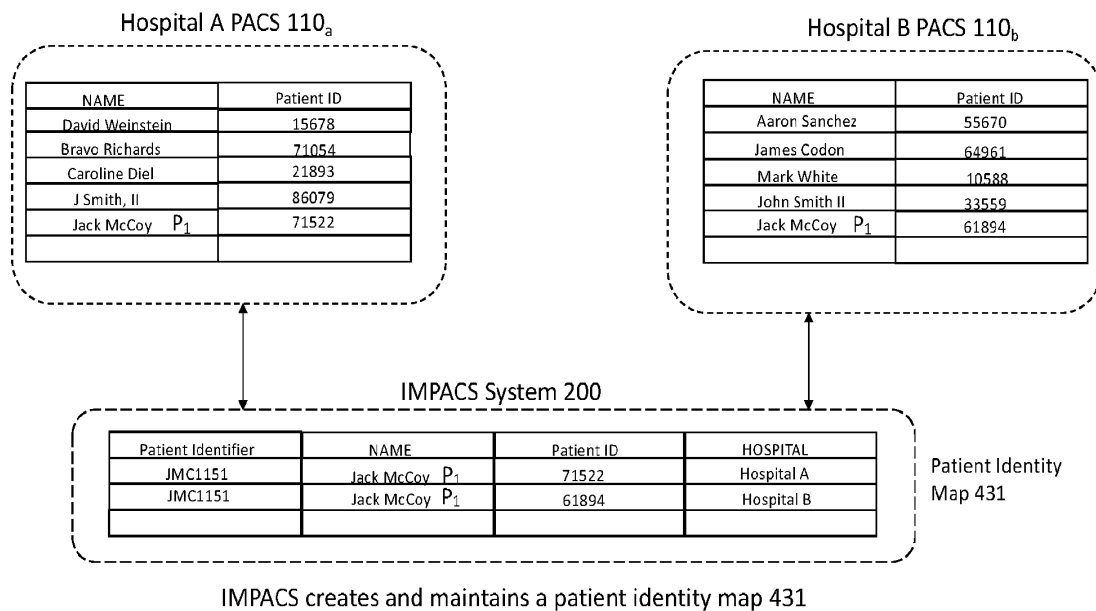


Fig 14: Overview of the setup of super-identity map 431

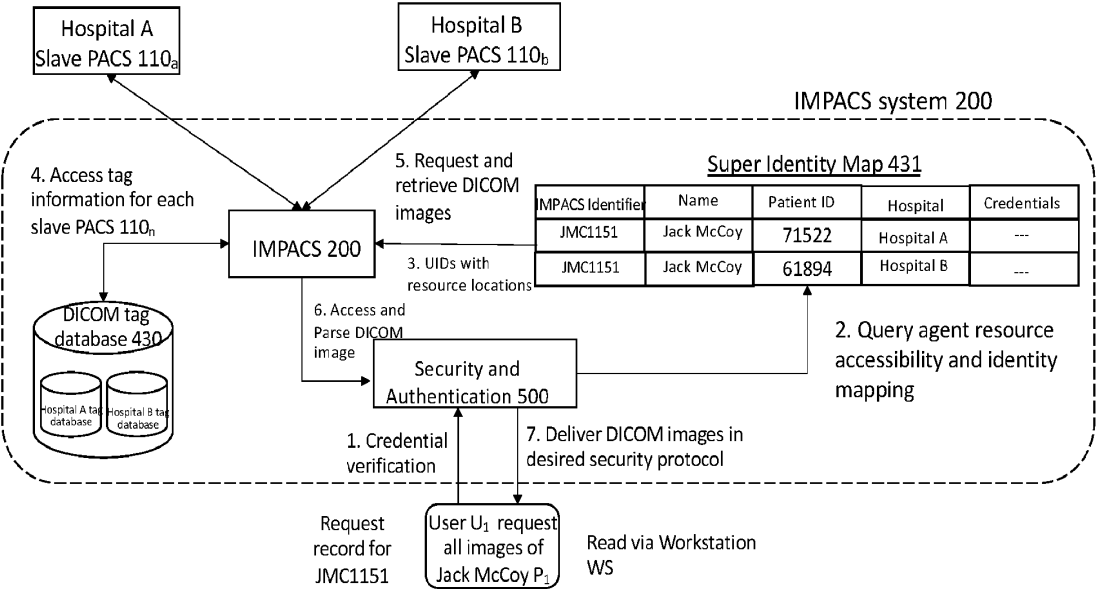


Fig 15: Overview of search of images in IMPACS system 200 with patient super-identity

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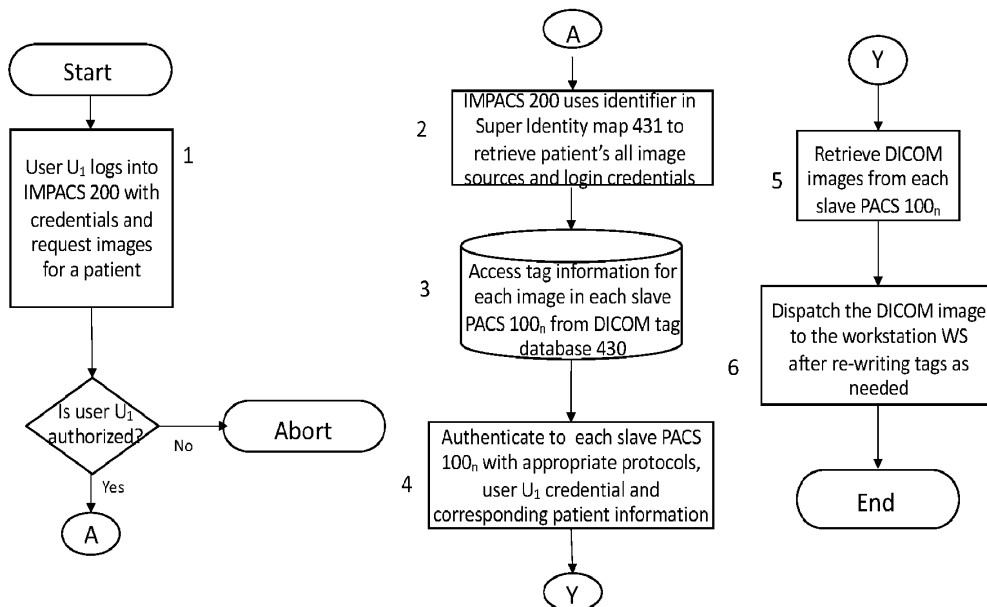


Fig 16: Flowchart for the process of searching for images with patient-super identity

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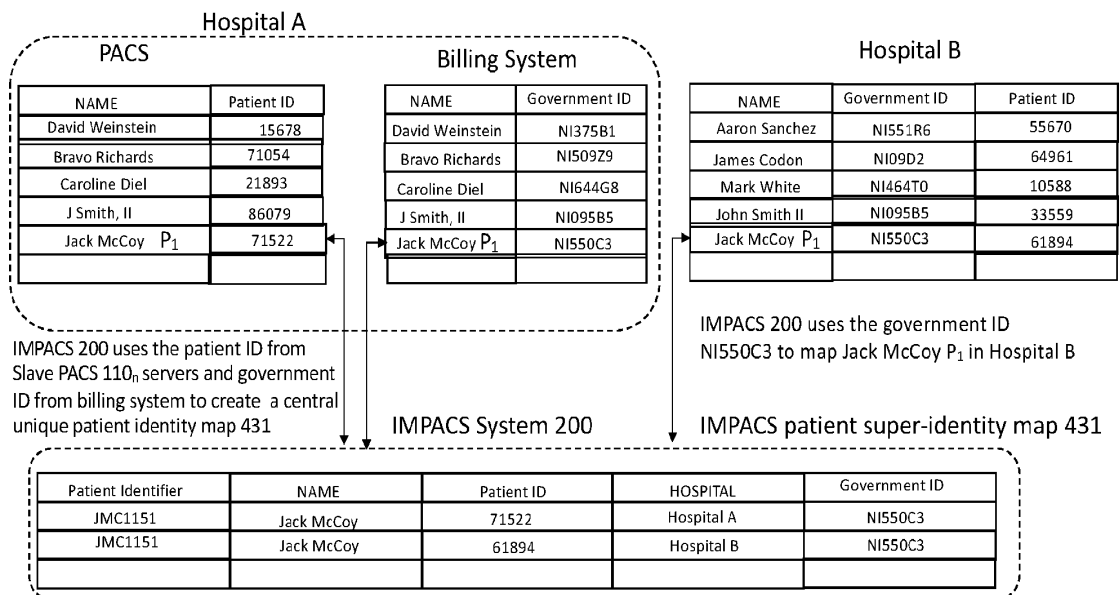


Fig 17: Example of use of external resources for IMPACS patient super-identity map 431

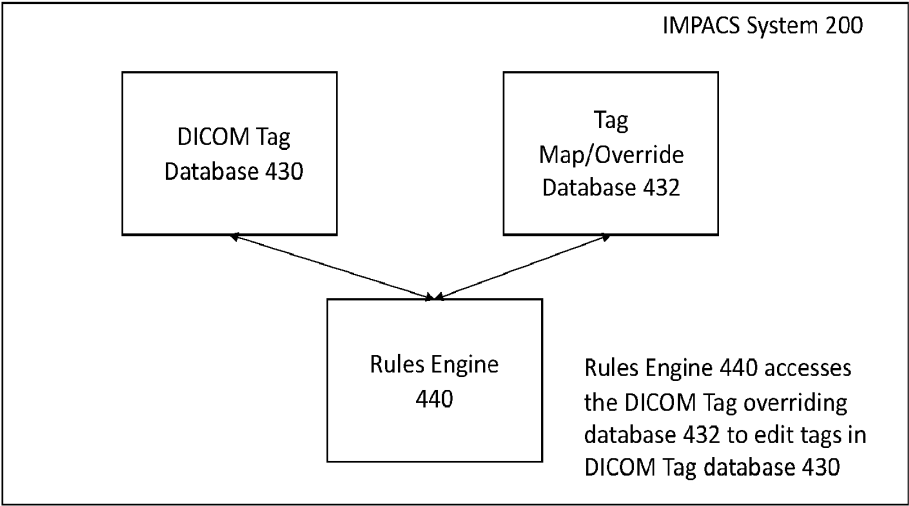


Fig 18: Role of Rules Engine 440 in DICOM tag modification

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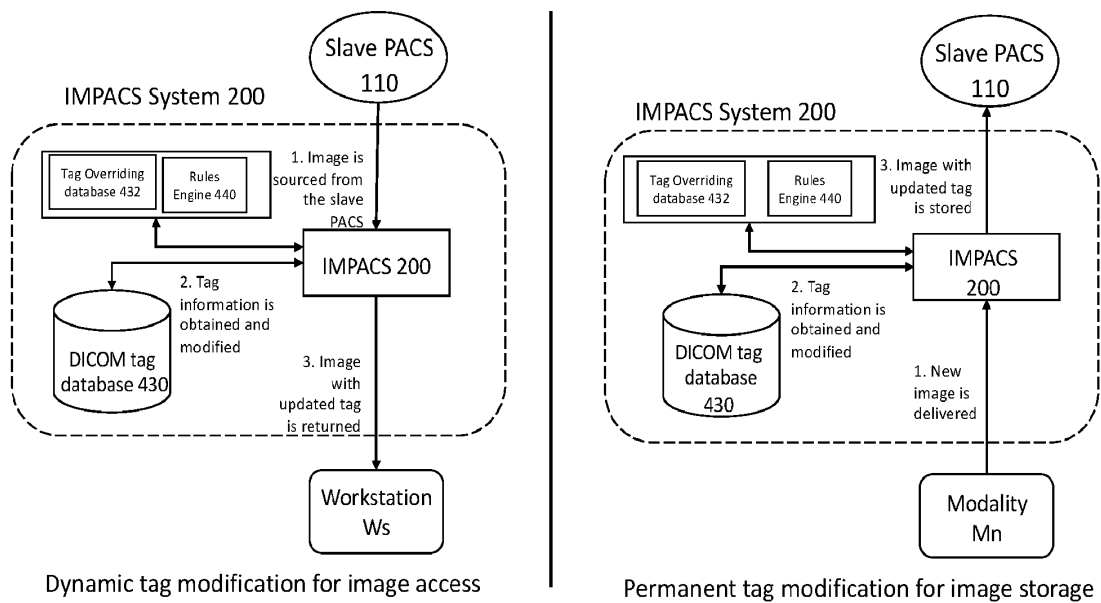


Fig 19: Dynamic and permanent DICOM tag modification

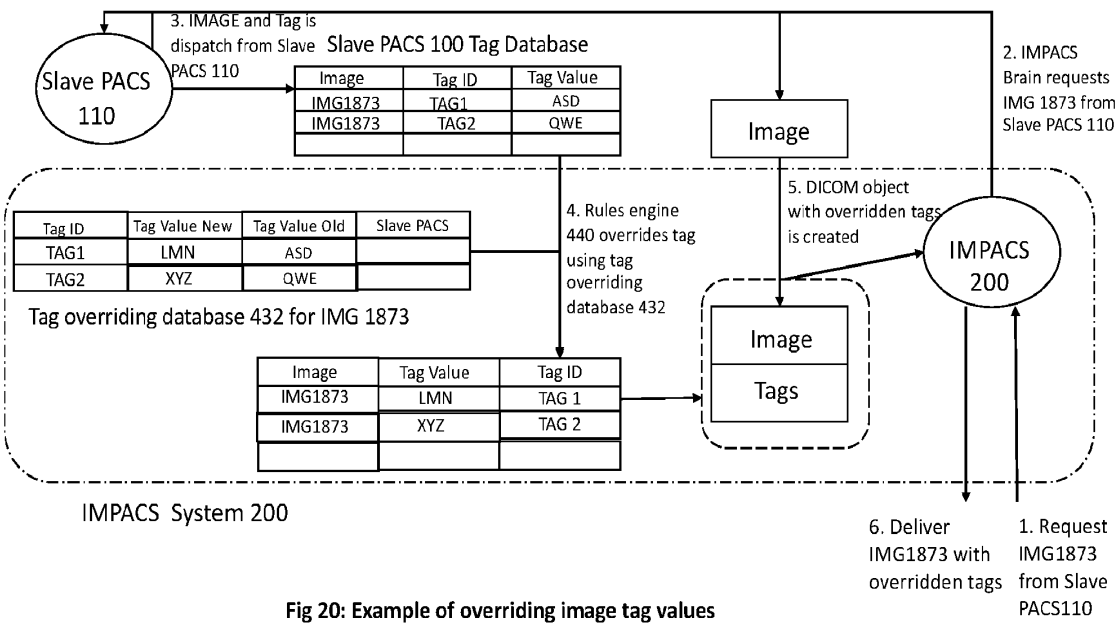


Fig 20: Example of overriding image tag values

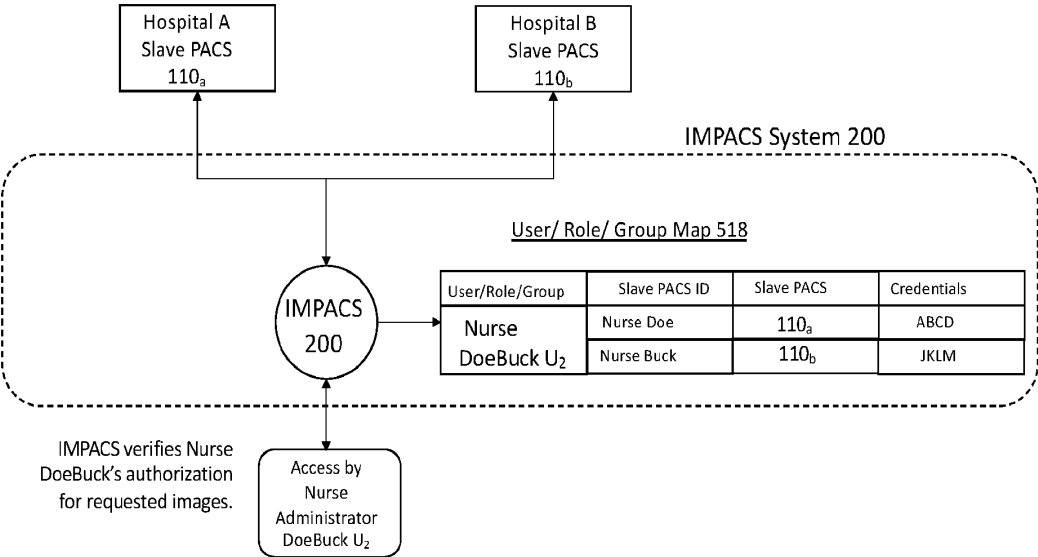


Fig 21: IMPACS user/role/group map 518

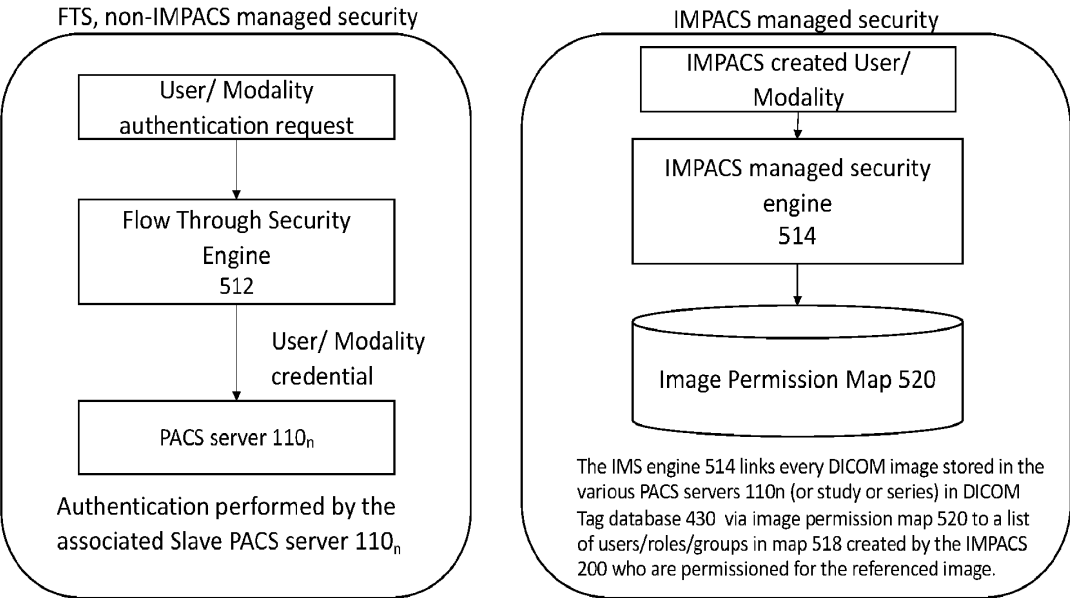


Fig 22: IMPACS system 200 managed security framework

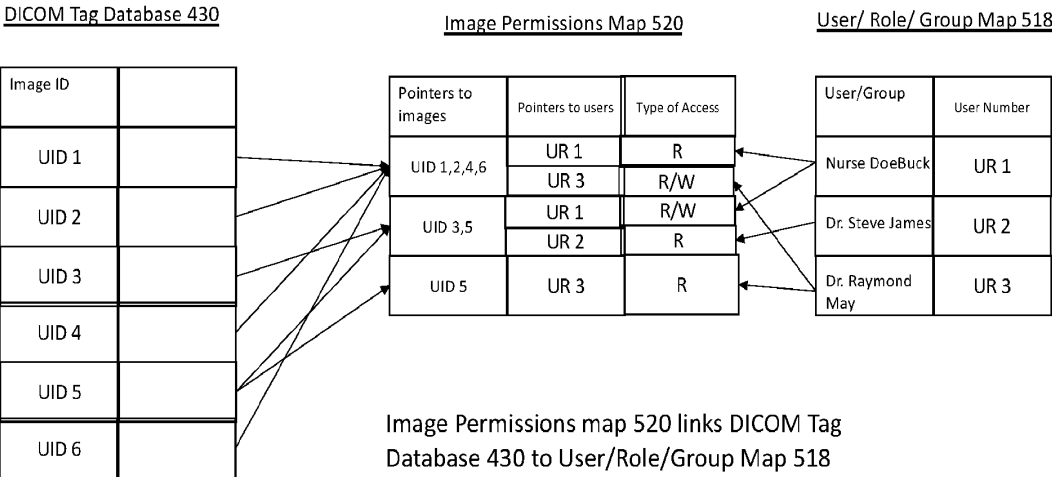


Fig 23: IMPACS image permission map

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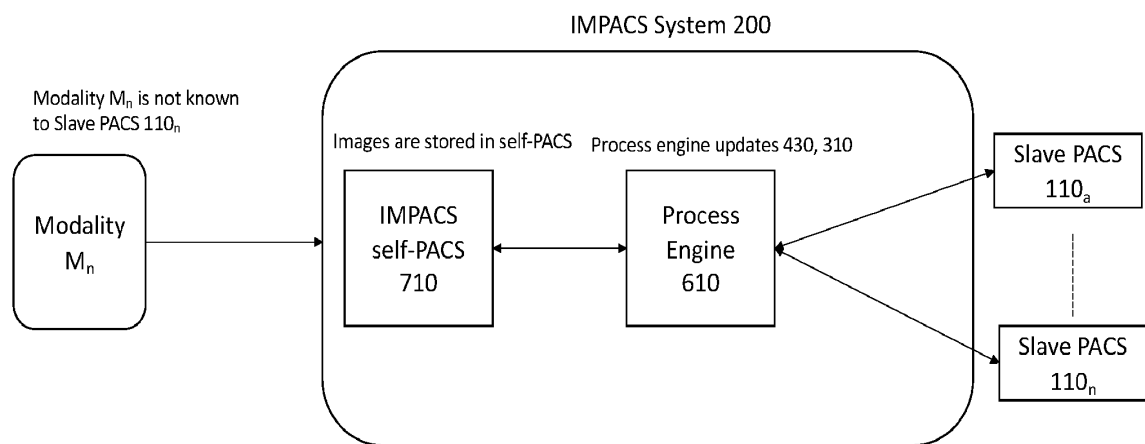


Fig 24: Example of Self-PACS within IMPACS system 200

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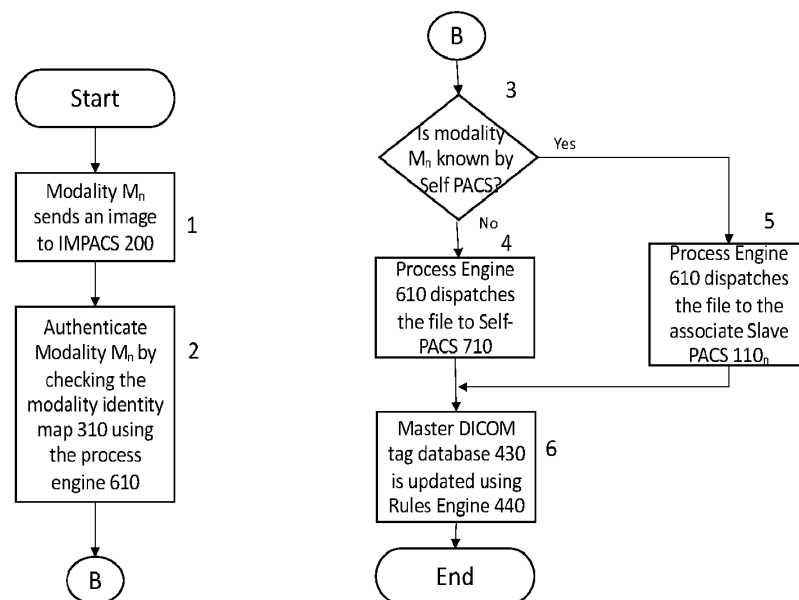


Fig 25: Flowchart for IMPACS system's 200 self-PACS in use

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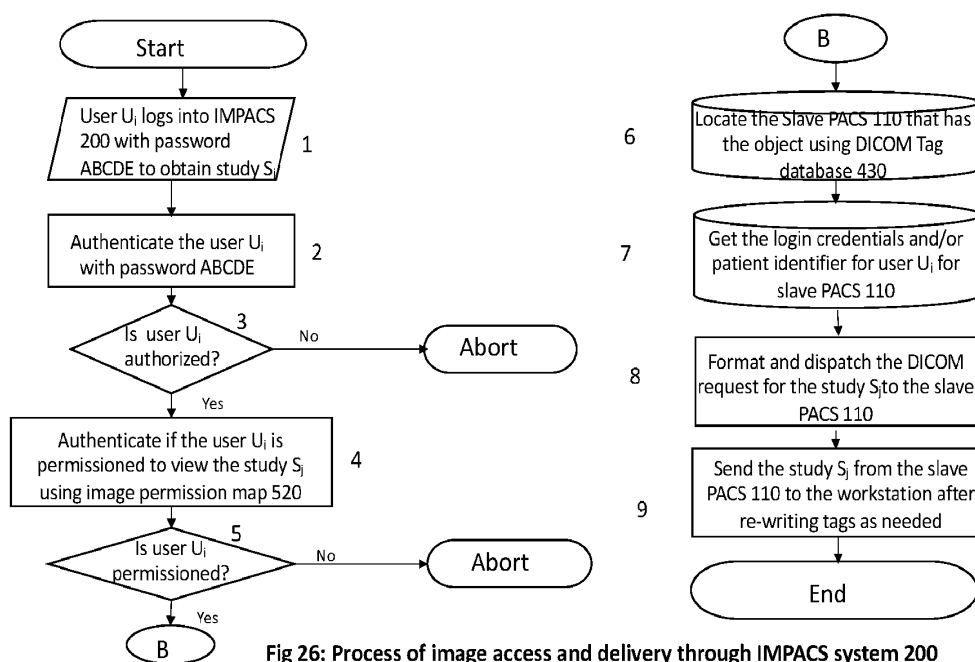


Fig 26: Process of image access and delivery through IMPACS system 200

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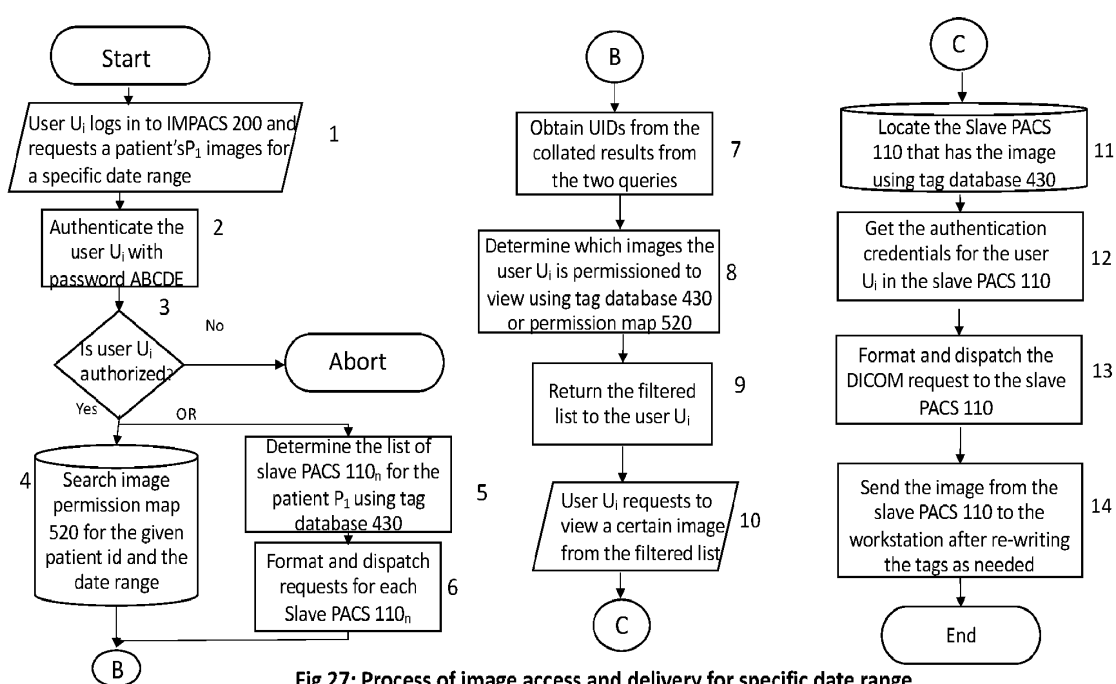


Fig 27: Process of image access and delivery for specific date range

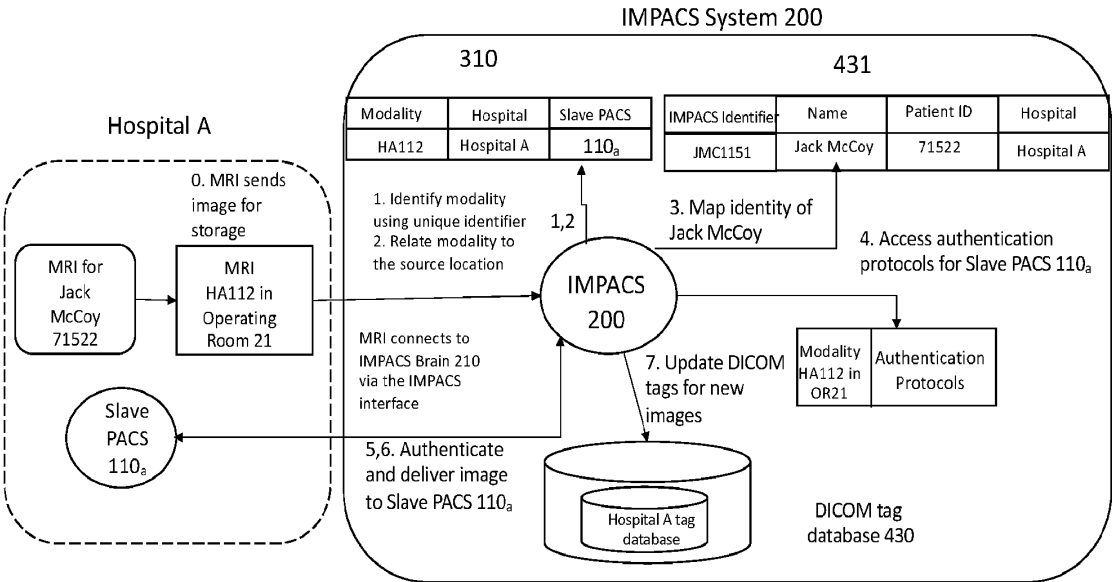


Fig 28: Modality using IMPACS system 200 in emulation mode

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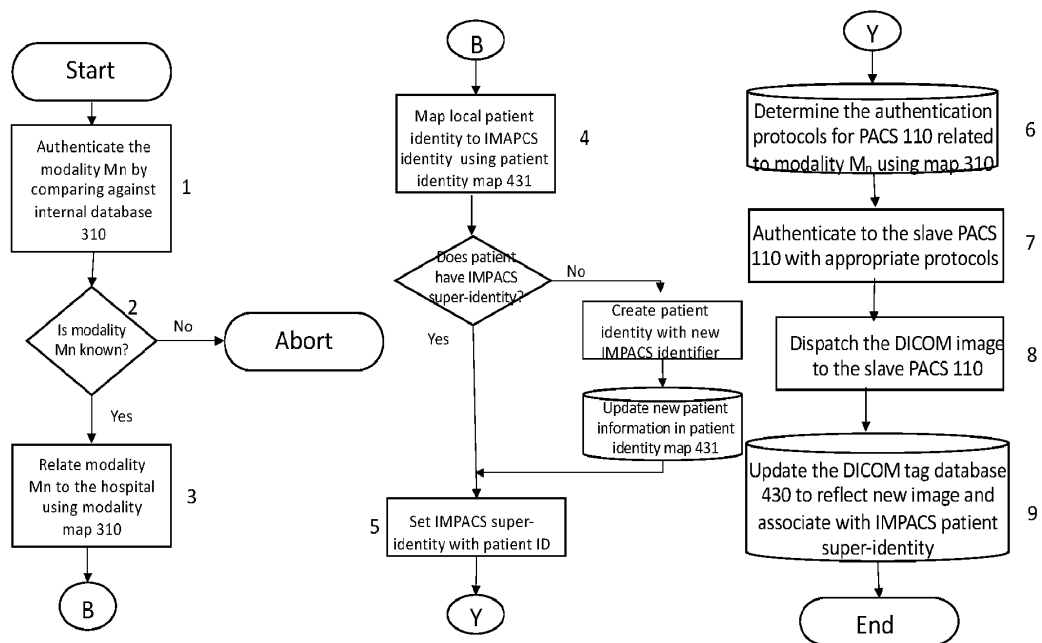


Fig 29: Flowchart for modality using IMPACS system 200 in emulation mode

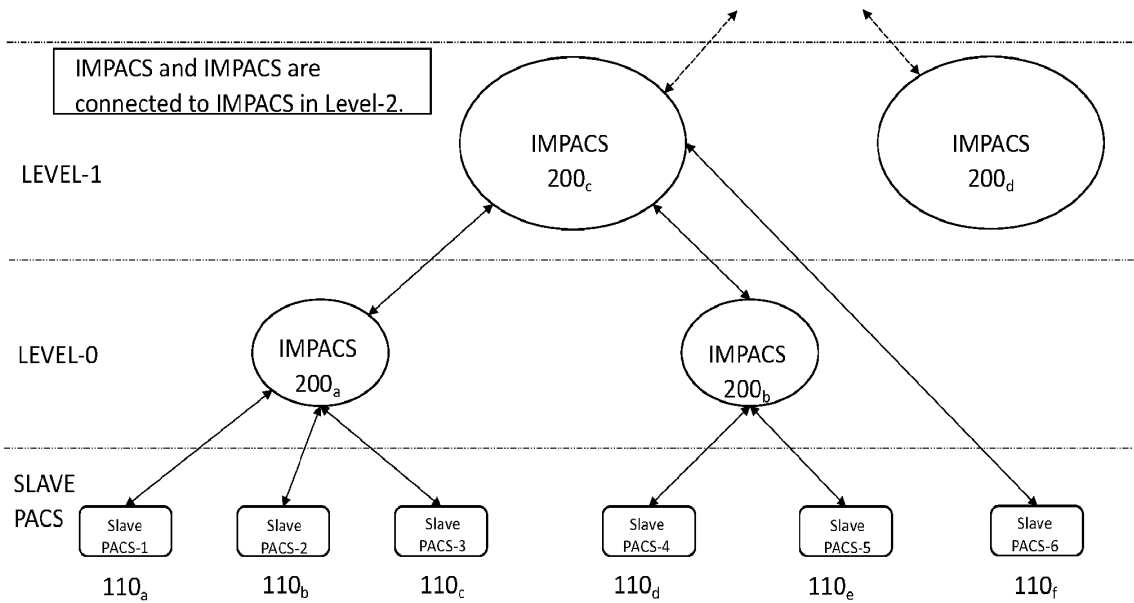


Fig 30: Example of IMPACS system 200 hierarchy

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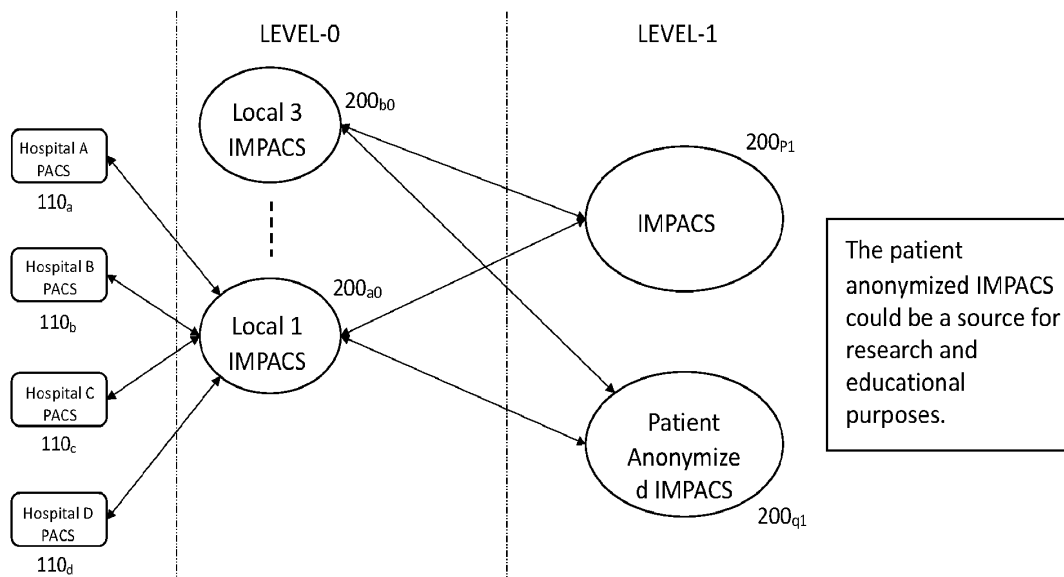


Fig 31: Another example of IMPACS system 200 hierarchy

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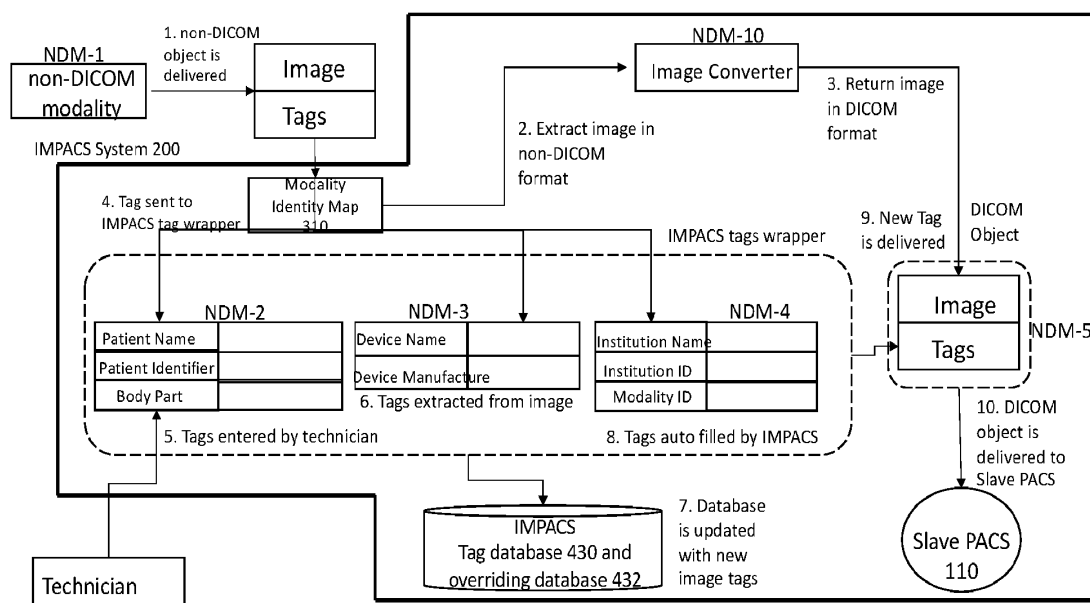


Fig 32: IMPACS system 200 servicing non-DICOM modality

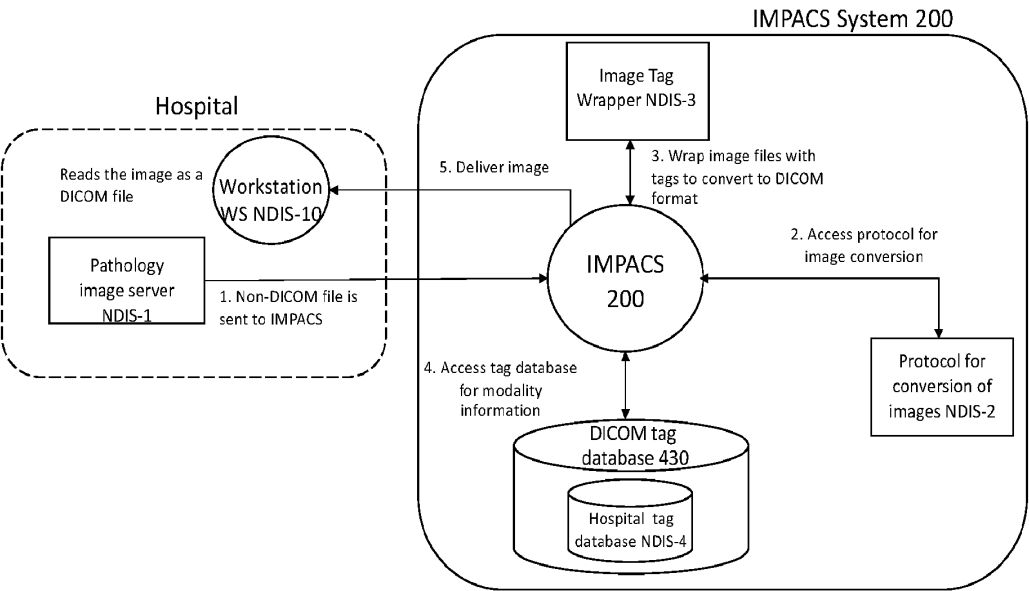


Fig 33: Non-DICOM image stores in IMPACS system 200

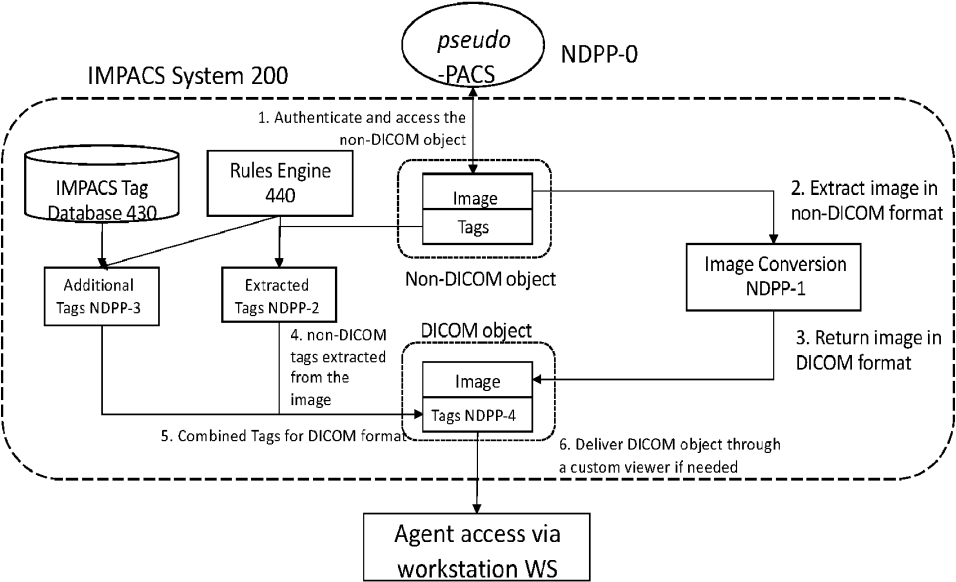


Fig 34: IMPACS system 200 operating non-DICOM pseudo PACS