Ultrasound DICOM Image Support   
NBIA 4.6

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Document Approvals

The list contains the name and contact information for the core project team and any key stakeholders who have an interest in the success of the project. An “S” identifies persons responsible for approval from the stakeholder groups. Sign off of the document would be required when a decision is made not to take action for defined gaps.

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# Introduction

The purpose of this document is to describe the scope for the tasks related to the support of ultrasound DICOM images in NBIA applications.

# Objectives

The main objective is to support ultrasound images in DICOM format in NBIA. This includes the support of data submission to the image archive and provides the ability to search for ultrasound DICOM images based upon ultrasound specific search criteria.

# Out of Scope

This task is based on the assumption that CTP is compatible with any kind of images as long as it is in DICOM format. The NBIA team will depend on John Perry to test and upgrade CTP to support ultrasound images as needed.

# Deliverables

* Binary/executable software that can be used to search and retrieve ultrasound DICOM images persisted in NBIA file system and database.
* The source code.
* Design Document and modified User Guide.

# Risks

* The NBIA team does not have the subject matter expertise to come up with a set of useful search criteria for ultrasound image and to map the specific DICOM tag to the set of predefined search criteria. This means that the schedule is dependent upon external resources that the NBIA team doesn’t “control”. These resources include:
* End users who help to define the set of search criteria.
* A radiologist who is specialized in ultrasound image and familiar with the DICOM tag.
* CTP server/client which is used for image submission is developed by a third party and currently does not fully support ultrasound DICOM image submission. Again, this means that the schedule is dependent upon external resources that the NBIA team doesn’t “control”. These resources include:
* The developer of CTP: John Perry

# High-level Requirements

#### Data Submission using CTP

#### Ultrasound DICOM Images will be submitted into NBIA using CTP. The DB adapter of CTP should be able to capture values of predefined set of DICOM tags related to ultrasound images and to persist them in database.

#### 

#### GUI

Create a new user interface to let user specify the search criteria related to ultrasound modality. The set of new criteria is yet to be defined.