

# Scoring Metrics: 1 (low) to 5 (high)

- **Applicability/Reach:** How broad is the reach of this use case to routine clinical use?
- **Safety:** What is the value or impact of the use case in terms of improved or enhanced patient safety?
- **Technical Ease of Implementation:** How easy is the use case to implement?
- **Industry Alignment:** How well does the use case align with strategic initiatives in the industry? (e.g. ASTRO initiatives and guidelines)

# Off-line Review - 3<sup>rd</sup> Party Imaging Systems

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# Overview of the Use Case

This profile is intended to specify the requirements for an offline review application to accept, display and modify a review status for on treatment images from third party systems.

# The Problem

Many third party imaging systems are used in radiation oncology to obtain on line images and correct position. This includes stereotactic systems for body stereo as well as portable X-ray units for hand placed TBI lung blocks or brachytherapy implants. In order to facilitate review and archive of these images it would be ideal for these to come into an OIS and enter the image review workflow used with in the OIS.

# The Solution

- It is essential to present a uniform workflow for radiation oncology to review on treatment images. To support proper documentation of patient treatment the OIS must be the collecting point of all information used to treat the patient no matter what system produces it.

# The Benefit

- By providing a method whereby on treatment images accumulate into one system and are reviewed with one software application it will provide a concise documentation of the patients radiotherapy and a consistent environment for the oncologists to review and approve images offline.

# Issues for Discussion

- Should there be a designate system for the review of all on-treatment images and if so, is the OIS the correct system?
- Does this use case have a strong potential to be viewed as a functional specification, rather than as an interoperability specification?



# Scoring Metric: Applicability / Reach

- The use of third party imaging systems is in decline with the increasing availability of on board MV and kV imaging. However, there is still substantial use of 3<sup>rd</sup> party imaging systems on both old and new equipment.



# Scoring Metric: Safety

- Ensuring that all on-treatment images are available for review in a single system reduces the possibility for missing or mis-interpreted image sets from 3<sup>rd</sup> party systems.

# Scoring Metric: Technical Ease of Implementation

- TBD – to be discussed.

# Scoring Metric: Industry Alignment

- Unclear industry alignment.