

SonoReview

SonoReview is a progressive reporting system that helps health care professionals overcome many of the challenges they face. SonoReview enables radiology and cardiology to generate electronic and clinically assisted worksheets and reports with measurements directly from modality. It improves productivity by up to 50%, allowing radiologists to focus on the images and the diagnosis which ultimately leads to better Patient outcomes.

The diagnostic imaging environment is increasingly complex with larger data sets, greater expectation for the radiologist [JWI] to integrate relevant clinical/lab data as well as adhere to the latest clinical guidelines, all while providing rapid report turn-around 24/7/365. Kailo has created an incredible opportunity to find efficiencies in the system so that staff and radiologists can maximize their time while continuing to provide high quality reports.

How SonoReview works

The SonoReview process begins by enabling the transfer of measurements from the imaging modality into customisable electronic technologist worksheets. As the technologists document their findings into the worksheet, SonoReview builds report content based on the data entered. Charts and drawing tools are also included for any information that needs to be represented via graphical means.

Once the technologist completes the exam within SonoReview the worksheet, charts and drawings can be sent to the RIS or PACS so they are visible to the radiologist (similar to a scanned paper worksheet). The “preliminary” report content is also made available within the radiologist’s reporting system for any edits or additions prior to sign off.



INTEGRATE

Patient worklist in SonoReview can be populated via DICOM MWL or HL7 messaging. Completed tech worksheets can be sent to PACS via DICOM or RIS via HL7/webservices. The preliminary report content generated within SonoReview can be sent to any number of reporting systems including PS360, Fluency, or embedded RIS dictation/VR.

SonoReview features:

MEASUREMENTS INTO REPORT

Takes DICOM SR measurements as well as dose data from the imaging modalities and normalizes them for inclusion in the tech worksheet and radiologist report.

IMPROVE ACCURACY

Eliminates the potential for errors with the automated transfer of measurements.

REDUCE ADDENDA

Reduces variability and ambiguity in your reports with standardization of structure and terminology.

INCREASE REFERRER LOYALTY

Boosts referrer satisfaction with consistent and actionable report content.

MITIGATE CLINICAL RISK

Supports built in clinical guidelines and can assist your technologists and radiologists in adhering to them. (eg. LI-RADS, TI- RADS)

AI AND NLP

Structured reporting paves the way for big-data analysis and natural language processing.

TOUCH BASED

SonoReview provides touch driven image review and markup of diagrams.

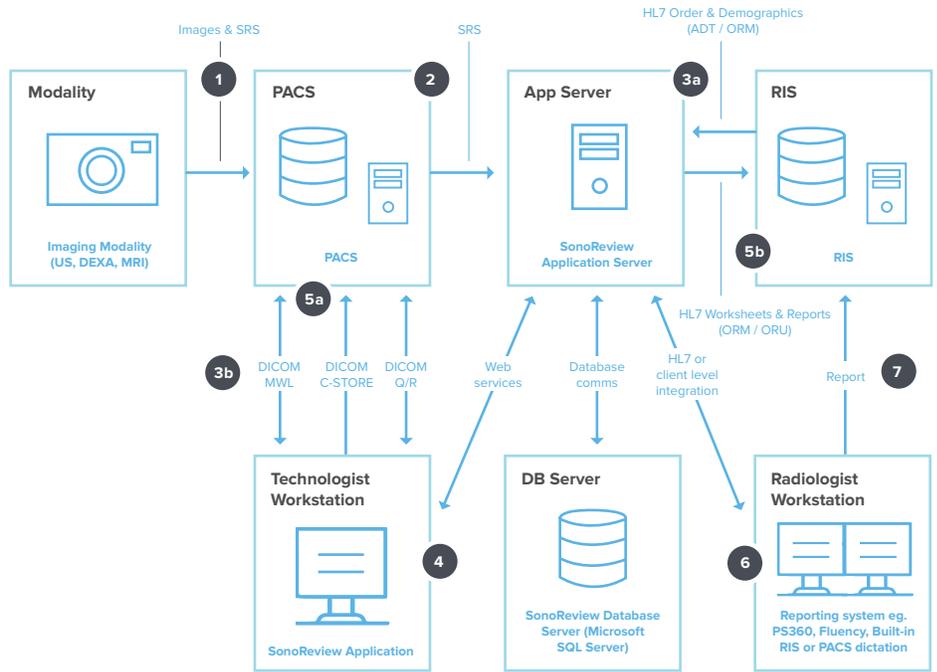
MULTIMEDIA REPORTS

Diagrams, graphs and key images can be included in the final report.

System Overview

- (1)** Images & DICOM SRs are sent from the imaging modality to PACS.
- (2)** DICOM SRs are auto-routed to SonoReview App Server where individual measurements are parsed and stored for auto-population into the worksheet.
- (3)** SonoReview workstation populates the patient worklist either (a) via HL7 messaging from the RIS or (b) via DICOM MWL
- (4)** Technologist opens pre-populated worksheet, reviews images via DICOM Q/R and documents the findings. Completed worksheet (including diagrams/graphs) and preliminary report content are transmitted to SonoReview App Server.
- (5)** Completed worksheet is then sent to (a) PACS via DICOM C-STORE and/or (b) RIS via HL7. Preliminary report is sent to the reporting system.
- (6)** Radiologist loads desired study via their reporting worklist and the SonoReview report content (received earlier via HL7) populates the reporting system.
- (7)** The radiologist can add/edit the preliminary report content from SonoReview and once finalised the report is sent to the RIS for distribution to the referrer.

SONOREVIEW ENTERPRISE TOPOLOGY



Worksheets Supported

- General US
- Obstetrics
- MSK US
- Vascular US
- Echo
- Breast
- Fluoro/US-guided Procedures
- BMD
- Dose Data



System Requirements

SonoReview runs in a Windows environment with SQL server as the underlying database.

We can support a variety of system configurations including separate, dedicated Database and Application servers, combined all-in-one servers for smaller sites or leverage an existing SQL server database farm.

Touch monitors are a great addition to your existing technologist workstations to leverage the full functionality of SonoReview, particularly the drawing tools.

All imaging modalities need to support DICOM SR so that measurements can be sent to SonoReview for automatic inclusion in the worksheet/report.