

OIS Reports Module with Elekta MOSAIQ®

1. Introduction

OIS Reports Module will automatically transfer exported AlignRT Treatment Reports to the Elekta MOSAIQ® OIS as DICOM RT Image files. This document will guide you through setting up your MOSAIQ Oncology Information System (OIS) to accept the AlignRT Treatment Reports and report screenshots, if applicable, into MOSAIQ. If you have any questions or difficulties, please reach out to Vision RT for further assistance.

2. Data security note

The OIS Reports Module transmits patient data to the Treatment Planning Software (TPS) using DICOM files, as per the industry norm. DICOM files are typically created during imaging and treatment planning processes, and it is not yet standard for DICOM files to be encrypted. The OIS Reports Module does not encrypt DICOM files.

A secure DICOM method is available, which includes encryption, and a future release of the OIS Reports Module will support this, in response to market demand. Note the OIS in receipt of encrypted DICOM will need to support the secure DICOM standard to decrypt files (Composite Instances).

Please ensure the Network hosting the OIS Reports Module and DICOM transfer is secured.

3. Configuring the MOSAIQ

A Vision RT Field Service Engineer (FSE) will install the OIS Reports Module, but the customer must configure the MOSAIQ (Vision RT cannot perform those tasks). Configuration of MOSAIQ should be completed prior to the Vision RT FSE setting up the OIS Reports Module.

The information below can be used to help you configure MOSAIQ to accept AlignRT Treatment Reports and screenshots. The information and/or screenshots may differ from your system. Please reach out if you have questions or are unable to configure MOSAIQ with the information below.

In the DICOM Maintenance Utility add a new group and enter details in the DICOM AE Edit window ([Figure 1](#)). This information must be added to the Service Class Provider (SCP) list. OIS Reports Module will send the report as an RT Image to MOSAIQ.

- a. Device Name
 - Choose any name
- b. Hostname
 - IP address of machine hosting the OIS Reports Module
- c. AETitle – VRT-Reports
 - Must match OIS Reports Module configuration
- d. Scanning Port – 104
 - Alternatively, a different port can be used. Be sure the Vision RT Field Service Engineer installing OIS Reports Module is made aware of the port being used

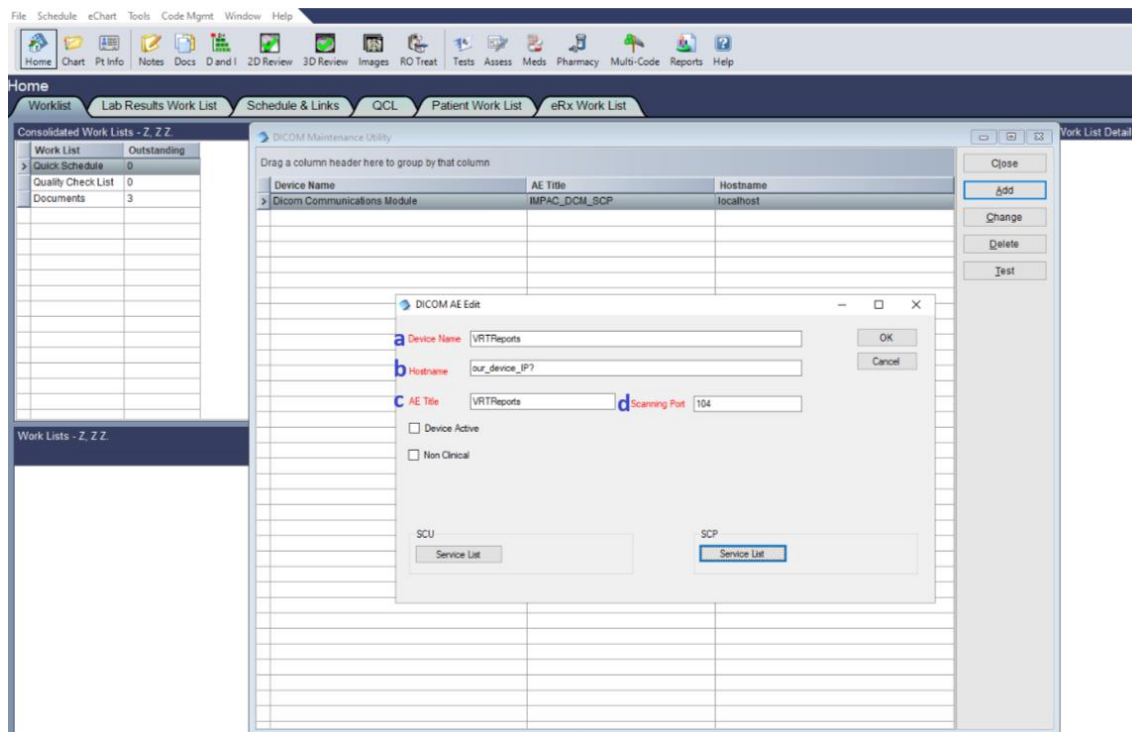


Figure 1 – DICOM AE Edit

4. Configuration Options on Vision RT

The following configuration options can be decided based on how you plan to use the AlignRT information sent to MOSAIQ. If you decide at a later time, you would like to change how the OIS Reports Module is configured, contact Vision RT Support.

4.1 Configuration Options in the OIS Reports Module

These options are configurable during the installation of the OIS Reports Module. Please let the Vision RT representative installing the OIS Reports Module know your preferences.

1. **Time stamp of the AlignRT Treatment Report in MOSAIQ.** By default, the Treatment Report time stamp shown in MOSAIQ is from the start of the AlignRT treatment session. However, you could choose to have the time stamp display for the end of the AlignRT treatment session. If you prefer the latter, let your Field Service Engineer know at the time of the OIS Reports Module installation.
2. **Include screenshots in MOSAIQ.**
 - a. Display only the AlignRT Treatment Report in MOSAIQ
 - b. Display AlignRT Treatment Report and all AlignRT Treatment Report screenshots captured within the report
3. **Number of pages to export to MOSAIQ**
 - a. Export only first page of AlignRT Treatment Report – due to the way RT Images are handled in MOSAIQ, only 1 page of all AlignRT Treatment Reports will be sent
4. **Approval of AlignRT Treatment Report in MOSAIQ**
 - a. Require approval
 - b. Do not require approval (default)

4.2 Configuration Considerations in AlignRT Treatment Report

You can configure the AlignRT Treatment Report at any time in your AlignRT software to include more or less information. Configuration of reports can be done by logging into AlignRT as a user with proper rights (ex. Physicist) then going to Settings / Reports / Report Configuration.

If you wish to display any screenshots in MOSAIQ, you must ensure the AlignRT Treatment Report is configured to save those screenshots.

By default, AlignRT Treatment Reports capture the last image on the AlignRT Treatment screen when the user pauses monitoring and then exits the patient on AlignRT. If the report is only one page, this screenshot will be displayed on the Treatment Report RT Image in MOSAIQ. It is recommended to always pause monitoring when treatment is complete but before the patient is moved out of the treatment position to ensure that final screenshot in the Treatment Report shows an accurate representation of the patient's position during beam delivery. This setting (Final Screenshot) can be disabled in the Treatment Report Configuration in Settings/Reports in AlignRT. Please see the Instructions for Use for your AlignRT version for more information on configuring AlignRT Treatment Reports.

4.3 AlignRT Treatment Report Export Configuration Considerations

In AlignRT, you can choose to manually or automatically export AlignRT Treatment Reports. If automatic report export is set up in AlignRT, all AlignRT Treatment Reports will be exported automatically. If you wish to only have some AlignRT Treatment Reports sent to the OIS (ex. only specific types of treatments), then you must manually export the report from AlignRT.

You may wish to disable automatic report export in AlignRT when OIS Reports Module is first installed to allow you to export a phantom patient treatment report first and see how it appears in MOSAIQ.

Automatic report export can be set up and enabled/disabled with your Regional Field Service Engineer.

5. Viewing the Report in MOSAIQ

Please note that the references for MOSAIQ and Patient Care are specific to MOSAIQ v3 and may not be applicable to your specific build of MOSAIQ.

AlignRT Treatment Reports and report screenshots (if configured) can be viewed in MOSAIQ for any patient treated with AlignRT. Patients treated with AlignRT in Auto-Authorize will not display any AlignRT information in the OIS.

AlignRT Treatment Reports are matched to a patient based on the Patient ID and the treatment session time from the AlignRT Treatment Report. After a treatment session where AlignRT was used for monitoring and if the reports are set up to automatically export, the AlignRT Treatment Report and report screenshots (if configured) will be displayed in MOSAIQ Images / Image List ([Figure 2](#)).

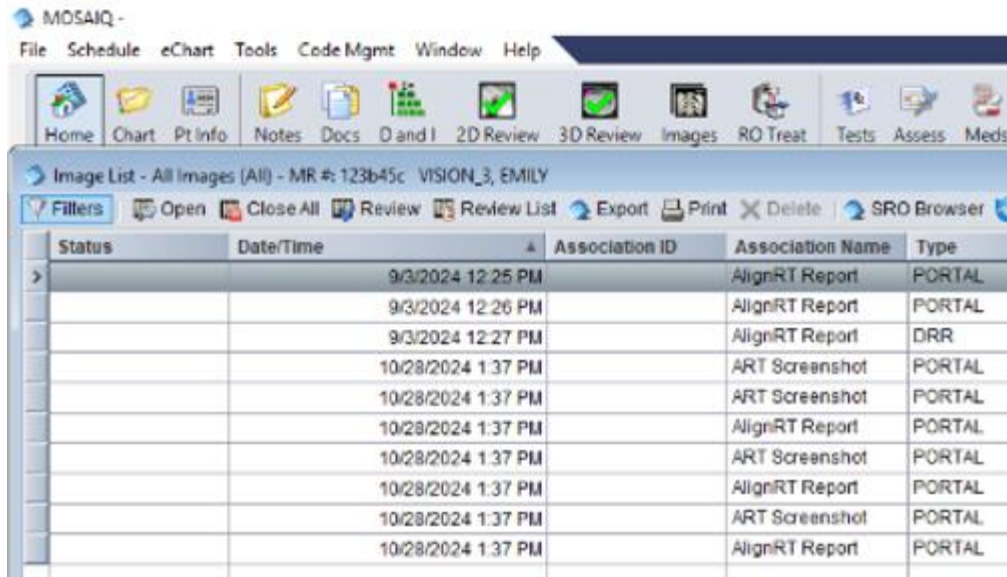


Figure 2 – Image List with AlignRT Reports and ART Screenshots Listed

To view the AlignRT Treatment Report or AlignRT Screenshot RT Image, select it from Patient Care / Image Review / 2D Review (Figure 3).

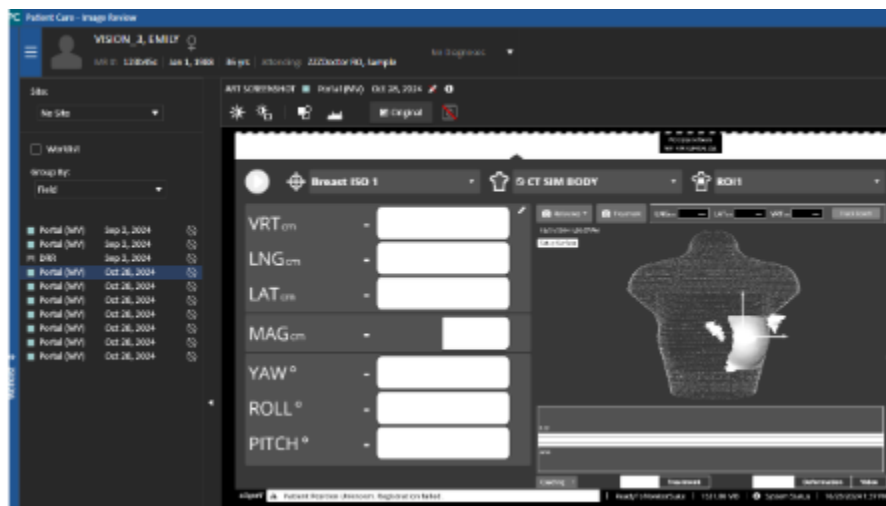


Figure 3 – Image Viewer 2D Review to View the Report or Screenshot

If approval of the AlignRT Treatment Report is required, you can do this the same way you would approve other items in MOSAIQ.

6. Storage Space

As mentioned earlier in the document, only the first page of the report will be sent to MOSAIQ due to file size limitations.