



Image and Radiology Report Submission to TRIAD™

Version 1 – February 2023

Digital Image Submission via TRIAD™

- All imaging studies are to be submitted via TRIAD™ to the ACR Center for Research and Innovation (ACR CRI)
 - No image data will be accepted on media for ALZ-NET
- TRIAD™ (Transfer of Images and Data) is the ACR CRI's cloud-based image and data exchange platform that supports image and data archival as well as immediate transfer of data
- All imaging studies are required to be submitted using TRIAD™
- TRIAD™ can be installed on one or several computers of choice within the institutional 'firewall' and/or on an institutional network
- The application can be configured as a DICOM destination on either the scanner console or PACS system for direct network transfer

TRIAD™ Facts and System Requirements

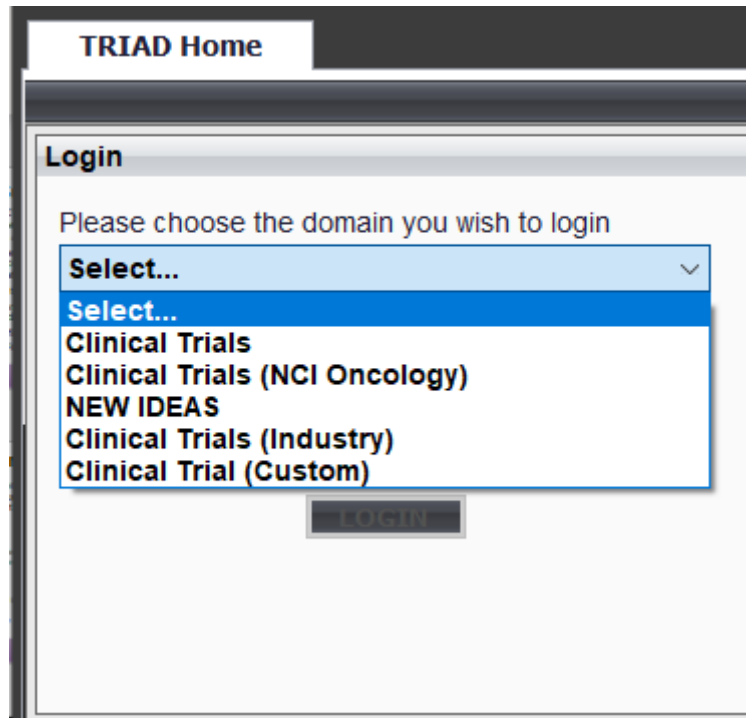
- TRIAD™ meets FDA regulatory requirements for use in Clinical Trials and is Title 21 CFR Part 11 compliant
 - Sends images and data files securely
 - Anonymizes the DICOM headers locally before submission based on flexible and profile-based algorithm
 - A straight-forward software download is all that is needed to get started
 - Images are submitted with the click of a button
- TRIAD™ components are upgraded to newest .NET Framework version 4.8
- TRIAD™ end user access/log in is authenticated by Okta Single Sign On (SSO) for added security
 - TRIAD access will use the same login credentials as CTMS, the application to register patients for ALZ-NET.

Image Data to be Submitted

- The imaging studies collected for ALZ-NET are to be imaging exams that were performed as part of regular clinical care (i.e, Amyloid PET, Amyloid PET/CT, Amyloid PET/MR, Tau PET, Tau PET/CT, Tau PET/MR, and/or MRI Brain scans).
- All Patient Name and Patient ID DICOM tag fields are anonymized upon submission to TRIAD™
 - TRIAD™ replaces Patient Name and Patient ID fields with trial-specific ALZ-NET Case ID Number
 - No 3rd party or additional anonymization programs are recommended to be used as these systems can often times wipe valuable DICOM tags related to patient gender, date/year of birth or specific image-related details used during the Image Quality Assessment process
- Valuable scan data and details are contained in specific DICOM tag fields that are necessary for study identification as well as to confirm technical aspects of the scans
- Radiology reports associated with each uploaded image are also required to be uploaded via TRIAD.
 - Reports do not need to be redacted. Patients have authorized transfer of PHI via their signed ALZ-NET informed consent document.

Accessing TRIAD™ for Image Submission

- Select the '**Clinical Trial (Custom)**' domain of TRIAD:



TRIAD Home

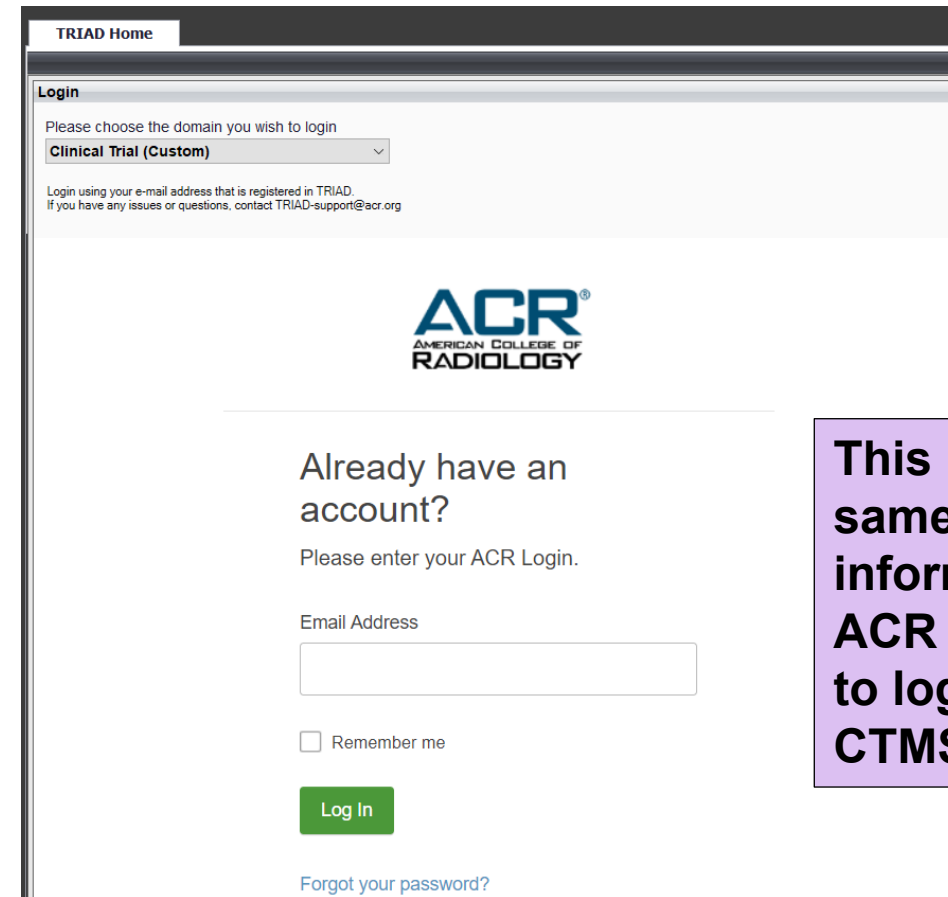
Login

Please choose the domain you wish to login

Select...
Select...
Clinical Trials
Clinical Trials (NCI Oncology)
NEW IDEAS
Clinical Trials (Industry)
Clinical Trial (Custom)

LOGIN

- Enter the registered User email address:



TRIAD Home

Login

Please choose the domain you wish to login

Clinical Trial (Custom)

Login using your e-mail address that is registered in TRIAD.
If you have any issues or questions, contact TRIAD-support@acr.org

ACR
AMERICAN COLLEGE OF
RADIOLOGY

Already have an account?
Please enter your ACR Login.

Email Address

Remember me

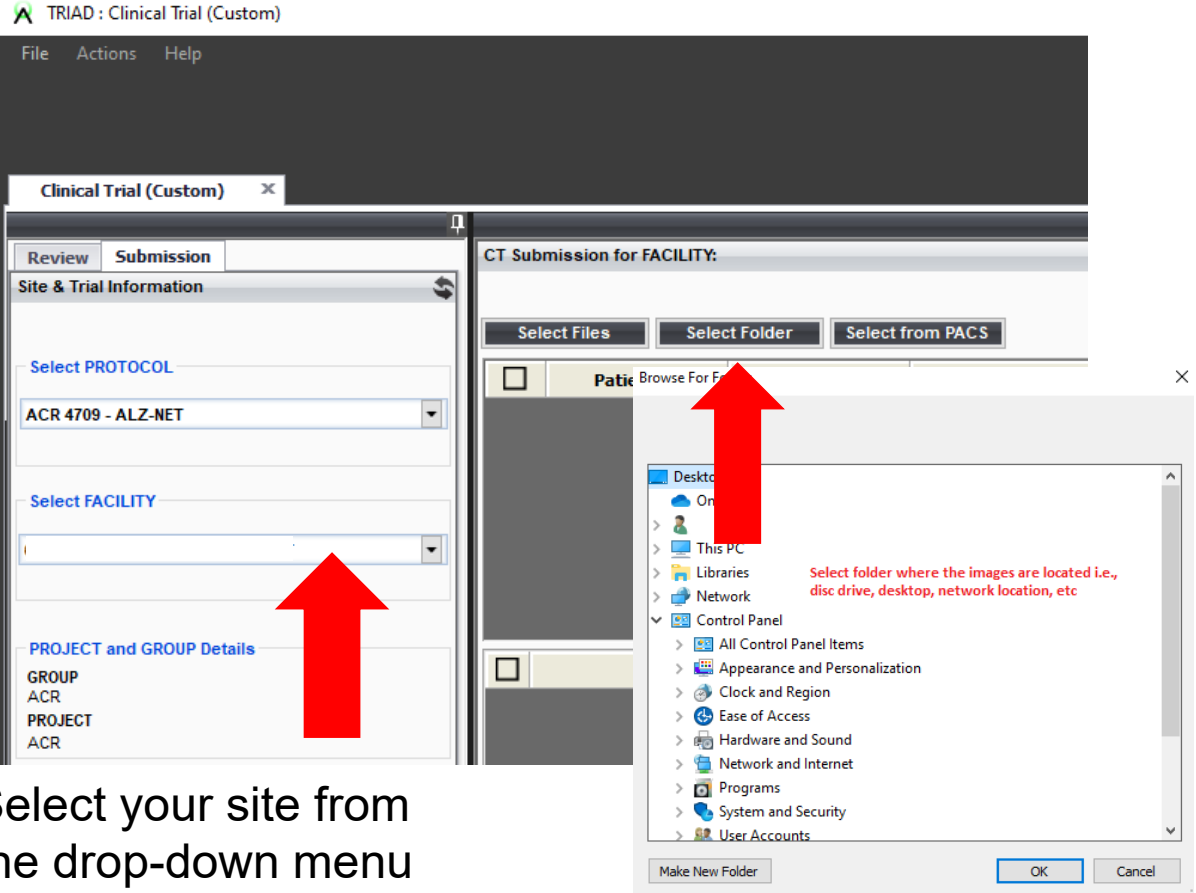
Log In

[Forgot your password?](#)

This is the same login information for ACR Okta (used to login to CTMS)

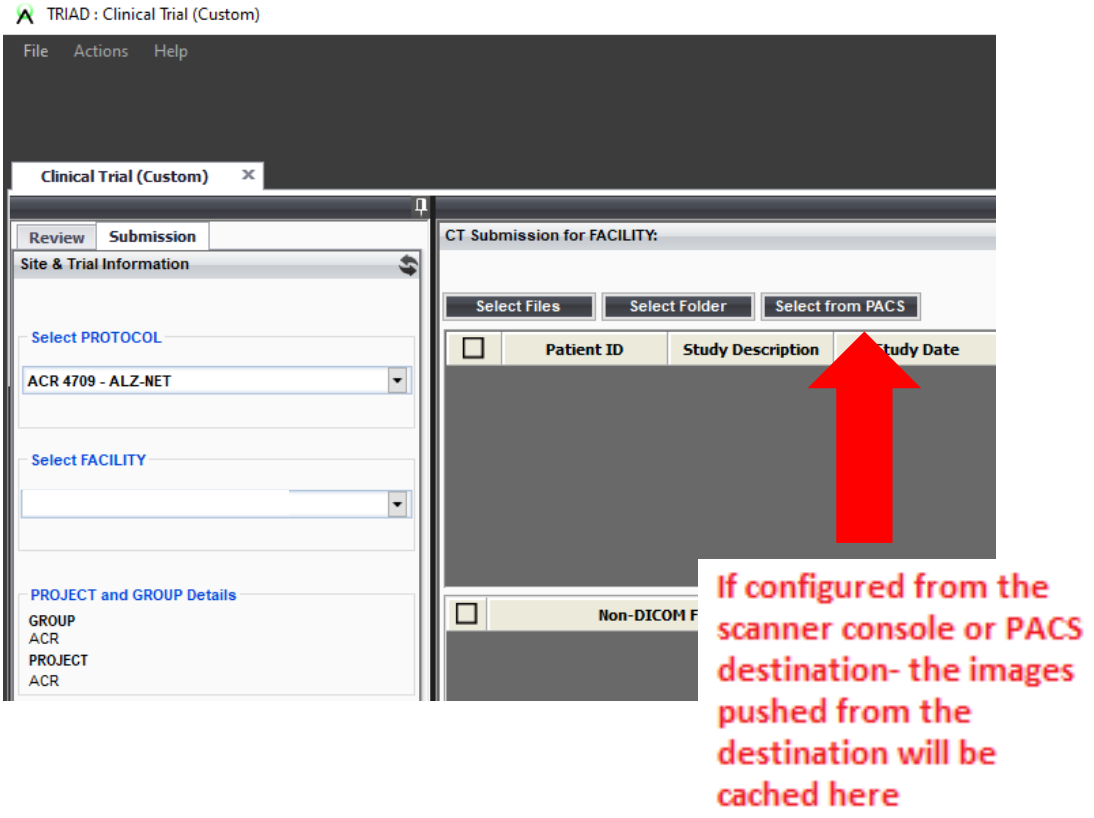
Selecting Image Data Files for Submission

- If intended image files to be submitted are on CD or an internal network location:



Select your site from the drop-down menu

- If image files are on the configured scanner console or internal PACS destination:



If configured from the scanner console or PACS destination- the images pushed from the destination will be cached here

Moving Image Data to the Submission Queue

- Images ready for submission will pre-populate and must be selected for the Image Submission queue:

The screenshot displays a web application interface for managing clinical trial data. At the top, there is a navigation bar with 'File', 'Actions', and 'Help' menus, and a user login status 'Logged in as: rdigati@acr.org'. Below this, a 'NEW IDEAS' tab is active. The main area is divided into several sections:


- Site & Trial Information:** Includes fields for 'Your Site' (set to 'ACR 4709 - ALZ-NET') and 'Project and Group Details'.
- CT Submission for Site:** Features buttons for 'Select Files', 'Select Folder', 'Select from PACS', 'Delete', 'Move to Submission Queue', and 'Send To Device'. A red arrow points to the 'Move to Submission Queue' button.
- Image Series Table:** A table with columns: Patient ID, Study Description, Study Date, Accession Number, Attachment, Images, and Comments. The table contains three rows of image series, each with a checkmark in the 'Images' column, indicating they are ready for submission. A red box highlights this table.
- Submission Queue:** A section at the bottom with buttons for 'Upload Selected' and 'Delete from Queue', and a table with columns: Subject ID, Timepoint ID, Timepoint Description, SubmissionType, Additional Parameter, Trial, Study Description, Study Date, Validation Result, Anonymize and Upload, and Cancel.

A red box highlights the 'Image Series Table' and the 'Submission Queue' section. A red arrow points to the 'Move to Submission Queue' button.

| Series Descripti... | Series Number | Modality | Number Of Files | Images | Metadata | Clean Pixel Data | Attachm... | Comments |
|---------------------|---------------|----------|-----------------|--------|----------------------|------------------|------------------------|--------------------------|
| TEST CT WB | 5 | CT | 263 | | View | Clean | Sel... | Comments |
| TEST PET AC WB | 6 | PT | 263 | | View | Clean | Sel... | Comments |
| TEST PET NAC WB | 7 | PT | 263 | | View | Clean | Sel... | Comments |


| Subject ID | Timepoint ID | Timepoint Description | SubmissionType | Additional Parameter | Trial | Study Description | Study Date | Validation Result | Anonymize and Upload | Cancel |
|------------|--------------|-----------------------|----------------|----------------------|-------|-------------------|------------|-------------------|----------------------|--------|
|------------|--------------|-----------------------|----------------|----------------------|-------|-------------------|------------|-------------------|----------------------|--------|

Moving Image Data to the Submission Queue


- Once the desired image series are selected, click 'Move to Submission Queue': 
- The scan now appears at the bottom of the screen and is ready to be assigned the correct ALZ-NET Case ID number and submitted:

Submission Queue

| <input type="checkbox"/> | Subject ID | Image Code | Image Type | SubmissionType | Additional Trial Input | FACILITY | PROTOCOL | Study Description | Study Date | Validation Result | Anonymize and Upload | Cancel |
|--------------------------|------------|------------|------------|----------------|------------------------|----------|----------|-------------------|------------|----------------------|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> | | | Optional | ClinicalTrial | N/A | | ALZ-NET | | | View | <input type="button" value="Submit"/> | <input type="button" value="Cancel"/> |

 A drop down of Case/Subject ID Numbers specific to your site will appear here in the 'Subject ID' tab

A drop down of Scan Submission Types will appear in the 'Image Code' tab

When a Case/Subject ID and Image Code are selected, the images may be submitted by clicking 'Submit': 

Radiology Report Submission

Radiology Reports are uploaded to TRIAD using the steps outlined in slide 6

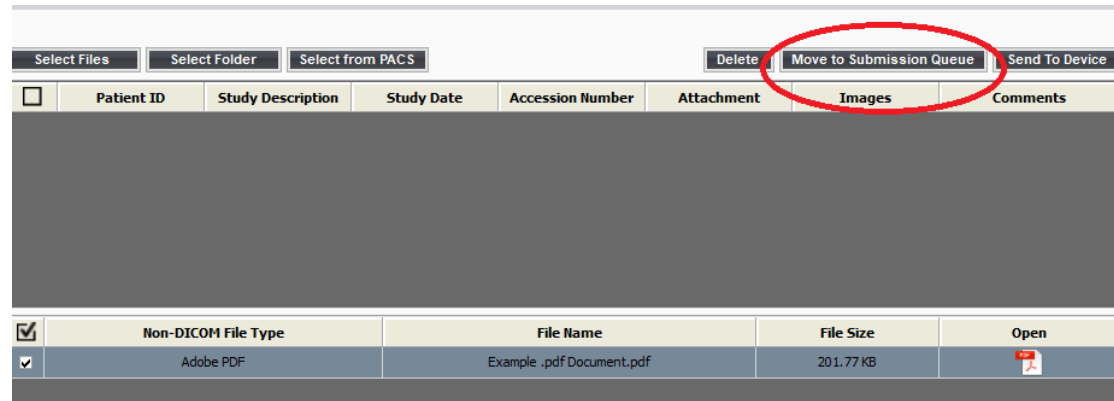
The .pdf document(s) will populate in the 'Non-DICOM File Type' box:

****Please ensure that Radiology Reports are in pdf format ONLY****

The screenshot displays the TRIAD interface for file upload. At the top, there are three buttons: 'Select Files' (circled in red), 'Select Folder', and 'Select from PACS'. To the right are 'Delete', 'Move to Submission Queue', and 'Send To Device'. Below these is a table with columns: Patient ID, Study Description, Study Date, Accession Number, Attachment, Images, and Comments. A red arrow points from the 'Select Files' button to the 'Attachment' column. A text box below the table reads: 'Locate the .pdf on the saved PC/network location using 'Select Files''. Below the table is a section for 'Non-DICOM File Type' (circled in red). It contains a table with columns: File Name, File Size, and Open. A row is shown with 'Adobe PDF', 'Example .pdf Document.pdf', and '201.77 KB'. A red arrow points from the 'Non-DICOM File Type' header to this row. A text box below the table reads: 'The cached .pdf Report will populate here in the 'Non-DICOM File Type' box'. At the bottom, a warning message states: 'Warning: Some or all of this submission contains non-DICOM files. TRIAD cannot automatically anonymize non-DICOM content. Ensure all attached files have PHI redacted.'

Radiology Report Submission (continued)

Once the desired .pdf document(s) is displayed, select 'Move to Submission Queue':



Once in the Submission Queue:

A screenshot of the 'Submission Queue' interface. At the top, there are two buttons: 'Upload Selected' and 'Delete from Queue'. Below these is a table with columns: Subject ID, Image Code, Image Type, SubmissionType, Additional Trial Input, FACILITY, PROTOCOL, Study Description, Study Date, Validation Result, Anonymize and Upload, and Cancel. The 'Subject ID' and 'Image Code' columns are circled in red. The 'Anonymize and Upload' column contains a 'Submit' button, also circled in red. Below the table, there are two red arrows pointing to the 'Subject ID' and 'Image Code' columns. The first arrow points to the 'Subject ID' column with the text: 'A drop down of Case/Subject ID Numbers specific to your site will appear here in the 'Subject ID' tab'. The second arrow points to the 'Image Code' column with the text: 'A drop down will also appear to select the type of submission in the 'Image Code' tab'. To the right of the 'Submit' button, there is another red arrow pointing to it with the text: 'When a Case/Subject ID Number and Image Code are selected, the .pdf document may be submitted by clicking 'Submit''.

TRIAD™ Support

- Questions and inquiries related to the TRIAD™ Platform may be addressed to the TRIAD™ Support Team:

Triad-Support@acr.org
703.390.9858

- Tech Support is available from Monday to Friday between 8am - 5pm EST
- TRIAD™ User Guide is available:

<https://triadinstall.acr.org/triadclient/>

Upon Image Submission

- Once a scan has been submitted to TRIAD, some of the details related to the scan are transferred to the ALZ-NET database
- Submitted scans are archived at the ACR CRI and are expected to contain specific DICOM data intact and present for successful archival at ACR CRI

ALZ-NET Imaging Support

- Questions and inquiries related to the imaging expectations for ALZ-NET may be addressed to the ACR CRI Imaging Technologist:

Rebecca DiGati, CNMT

Senior Imaging Services Specialist

rdigati@acr.org

215.574.3175