

Trice Imaging, Inc. User Manual	Doc. #	UM-01
	Revision	A14
Tricefy 3.7	Effective Date	1/27/2016



Trice

Tricefy 3.7

User Manual

San Diego, January 2016

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INTRODUCTION

Purpose

This manual has been written for the operators of Tricefy™ systems. The general instructions for operation, precautionary instructions, and maintenance recommendations should be read before using Tricefy. In order to obtain maximum efficiency from Tricefy equipment and service and to assist in the proper operation of the system this manual should be read thoroughly and understood completely. Changes to the specifications in the manual may be made at any time without obligation on the part of Trice Imaging.

Tricefy Overview

Tricefy transfers images to Trice Imaging servers at a remote data center over the open Internet. Medical imaging devices do not include encryption in a DICOM transfer specification. To ensure security and privacy, Tricefy first encrypts the data before securely transferring it to Tricefy servers. A single Tricefy Uplink, installed on the local network, can handle multiple imaging devices at the same time.

The Tricefy Uplink appears as a DICOM server on the local network and stores the DICOM data locally, then forwards all data to the Tricefy Service. A positive DICOM acknowledgement is not returned until it is 100% guaranteed that the file can be processed by the Tricefy service. The encryption used follows the DICOM specifications and is of the same caliber as online banking and commerce.

The underlying architecture of the Tricefy Service is a user-based, user-centric system. Medical professionals can be members of multiple clinic accounts simultaneously, accessing them with a single login. Data for each individual clinic is retained and managed in a separate database. Those who are the Administrators for a Clinic (or those who have been given Admin Level permissions) will be the only Users that have access to settings for the [Clinic Profile](#), [Members and Privileges](#), as well as the entire [Branding](#) and [Statistics](#) sections. Each of these administration sections requires Admin-level permissions to access and is invisible to regular Users.

Tricefy includes a web interface where Users can login to export imaging studies, change settings for messaging, incorporate branding and perform other administrative tasks as well as view statistics and usage information. The main page, the Study List, is a complete list of exams that have been uploaded to Tricefy (parsed by clinic for those with multiple memberships.) Users can use the Study List to locate particular data for viewing, exporting and downloading by browsing, searching, filtering and sorting the Study List contents. Users can also **Open Study**, **Share with Colleagues**, **Send to Patient**,

Download Study (.zip), Export as PDF, Open in Osirix (for Apple users), **Check Active Links** or **Show the Access Log** by using the drop down menu available on individual studies in the Study List.

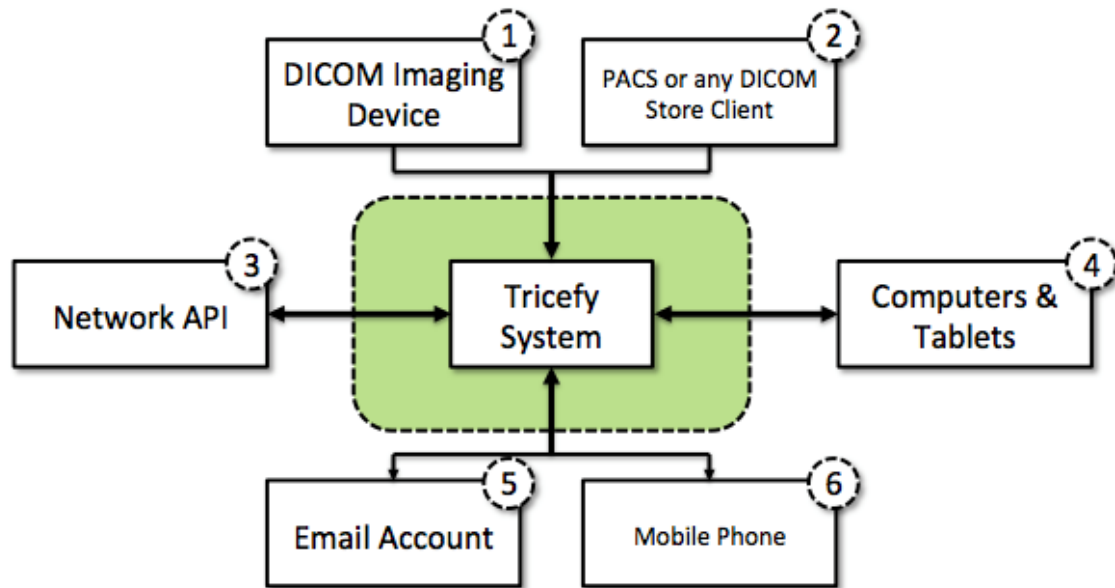
From the **Study List**, Users can click through to the browser-based Viewer with User selectable views of an Image Gallery that supports up to 6 images or cine clips simultaneously, automatic playback of single or multiple cine clips and side-by-side comparison of multiple studies. Each image and cine clip can be zoomed, scrolled, panned, pinned, commented on, sent to patients and colleagues, downloaded, and/or exported as a PDF.

Email and/or mobile messages created by physicians who use the **Send to Patient** function (from Tricefy or directly through the modality) will provide a link for patients to view their own files in a dedicated Landing Zone. Email and/or mobile messages sent between medical colleagues using the **Share with Colleagues** function (from Tricefy or directly through the modality) will provide an email with a link to view the study, if the recipient is already a Trice customer, or a will provide a link to register as a Tricefy user before viewing. The sender may also opt to utilize authentication tokens.

The System then includes an area for **Shared Cases** where studies that colleagues have shared for review and commentary are aggregated in the Tricefy Web interface as **Open Cases** or **Closed Cases**. A Case that is Open can be viewed by invited collaborators who can engage in a digital dialogue that will remain outside of the actual study details until the Owner closes it, at which time it will transition to a Closed Case and appear only in that list.

The following diagram (Operating Environment) shows Tricefy in relation to its operating environment. The following sections describe each component with which the system interacts.

OPERATING ENVIRONMENT



DICOM Imaging Device

The primary data input method is via DICOM storage, networking directly from an imaging device. These devices are typically Ultrasound systems for the targeted medical market segments.

- 1. PACS and Other DICOM Software:** Using the same DICOM storage protocol, Tricefy can also accept data from most PACS and DICOM workstation software.
- 2. Network API:** There is a Network API allowing imaging software Users to integrate and control certain features of Tricefy. This API is currently very limited as it is very specifically designed to interoperate with one particular piece of software.
- 3. Computer and Tablet Browsers:** The main way for Users to interact with Tricefy is via a web application interface, which is compatible with desktop computers and most tablets. The image access section of the User interface is designed to suit any device from simple mobile phones all the way up to large computer screens.
- 4. Email Accounts:** Tricefy™ sends out messages via Email and other formats.
- 5. Mobile Phones:** Tricefy is also able to send out messages via a short message, known as an SMS/text message.

Tricefy Uplink

Trice Imaging offers a downloadable software service called Tricefy Uplink for receiving data and securely forwarding it to the Tricefy service. If a computer is not available to run the Tricefy Uplink, a computer will be recommended for purchase. Tricefy Uplink appears as a DICOM server on the local network, receives the DICOM data locally, and then forwards all data to the Tricefy Service. A positive DICOM acknowledgement is not returned until it is 100% guaranteed that the file can be processed by the Tricefy service. Tricefy Uplink, installed on the local network, can handle multiple imaging modalities simultaneously. The system can act as a light version of a PACS system or co-exist with any other solution. There is no other hardware or software required and no need for large system integration projects.

Tricefy Intended Use

Tricefy is intended to provide physicians with functionalities for receiving, transmitting, presenting, sharing, communicating retrieving, and viewing medical images.



WORKFLOW FOR THE SERVICE

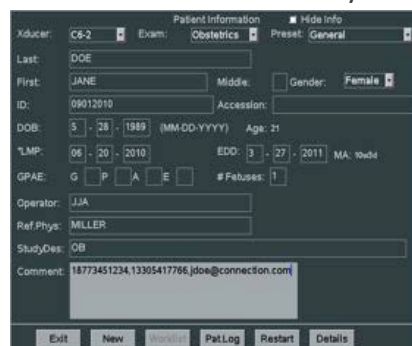
The Tricefy system requires no changes to a clinic's workflow. After entering a recipient's phone number and/or email address in either the new examination form on the modality or in the Tricefy web application, pushing a configured button initiates transfer of a selected image or cine clip directly from the modality or imaging software to the cloud server and then on to the recipient. DICOM images and clips are encrypted and then converted by the service into generally readable formats suitable for mobile devices and computers, which can be branded with the practice's logo. Patients receive anonymized jpg images and cine clips, while medical professionals receive the original DICOM data sent from the modality.

From the Device

1. Start a new examination by pressing the **Patient** button.
2. Click inside the DICOM field labeled for the entry of the patient's **Mobile Phone Number** and **Email Address**.
3. Type in the patient's mobile phone number and email address. Place a comma between entries, +18582259191, +18253239092, asa@mamamia.com, etc.
 - There is no limit to the amount of mobile phone numbers and email addresses the system can handle.
4. Verify with the patient that the entered information is correct.
5. After completing the examination, either press the button on the ultrasound system that has been configured to interact with Tricefy, or go to Sonoview to send the study.

From A Web Interface

Images and clips can also be sent after an examination by accessing the Tricefy service on a web browser with a secure link to the whole study.



The screenshot shows a 'Patient Information' form with the following fields and values:

- Modality: C8-2
- Exam: Obstetrics
- Preset: General
- Last: DOE
- First: JANE
- Middle: (empty)
- Gender: Female
- ID: 09012010
- Accession: (empty)
- DOB: 05 - 28 - 1989 (MM-DD-YYYY)
- Age: 21
- LMP: 06 - 20 - 2010
- EDO: 03 - 27 - 2011
- MA: Study
- GPAE: G ☐ P ☐ A ☐ E ☐
- # Fetuses: 1
- Operator: JJA
- Ref Phys: MILLER
- Study Des: OB
- Comment: 18773451234,13305417766,jdoe@connection.com

At the bottom, there are buttons: Exit, New, [disabled], PatLog, Restart, and Details.

- The exact steps are described in the [Tricefy](#) section of this document.

Integrations - From EMR for athenahealth

The screenshot shows the 'athenahealth Integration' configuration page in the Tricefy system. The page is titled 'Demo Clinic' and has a sidebar with navigation options. The main content area is for 'athenahealth Integration' and includes fields for Practice ID, Default NPI, Search for NPI in, and NPI Shortcuts. A 'Utilities' section on the right allows sending studies to athenahealth. Numbered red arrows (1-7) point to specific elements: 1. Integrations menu, 2. Integration is active checkbox, 3. Practice ID field, 4. Default NPI field, 5. Search for NPI in field, 6. Add New NPI Shortcut button, 7. Send Studies button.

1. After logging in, click the **Cog/Settings** symbol on the lower-left of the Tricefy screen.
2. Click **Integrations** under General Settings^① and choose from the **Available Integrations** by clicking the **Configure athenahealth** button.
 - The page will reload with fields for setting up the integration.
3. Check the box **Integration is active**^② to engage integration functionality.
4. Enter an athenahealth Practice ID^③ into the **Practice ID** field.
5. Enter the practice NPI number into the **Default NPI** field^④, which will be used when the system is not able to find an NPE number in the DICOM data.
6. Specify the field (example: *"Referring Physician"*) where an NPI Number will be searched for in the DICOM data into the **Search for NPI in**^⑤ box.
 - This will cause the system to search all input DICOM fields for something that looks like an NPI number or shortcut, and will use the first one found.
 - If there are no matches, the default will be used.
 - If there is no default, the study will not be sent to an athenahealth account.
7. Configure all referring physicians NPI Numbers, and the abbreviation being used for referring physicians during the patient exam, by clicking **Add New NPI Shortcut**^⑥ and providing them one by one.
8. If your clinic has studies in Tricefy before integrating directly with athenahealth, these can be sent using the **Utilities** at right^⑦.
 - Enter the **NPI Number** and Tricefy will deliver all the studies in your Tricefy account to your athenahealth account.

- Leave the NPI Number blank to use the NPI Number found in the study and click **Send Studies**.
9. Make sure athenahealth has activated with Tricefy on their end.
 10. Test the connection by starting a test patient study, entering the abbreviation for the referring physician in the referring physician field on the ultrasound machine, and then transferring the study to Tricefy.
 11. The PDF or the link to the imaging exam in Tricefy will now appear within Patient charts at athenahealth.

TRICEFY SYSTEM STRUCTURE

Tricefy Login Screen

Users may enter the Tricefy Service through Tricefy.com, which features **Login** and **Signup** buttons as well as some main benefits of the system. If a User has a current account, they click the **Login** button ① in the upper-right corner, which opens the Login screen in a new window and prompts for their **Email Address** and **Password** ②.

Clicking the **Sign In** button ③ at the bottom, or hitting the return key in the password field, will cause the application to authenticate a User by looking up the provided Email address and matching it against the provided password. Any issues are met with error messages to guide the User to a successful login.



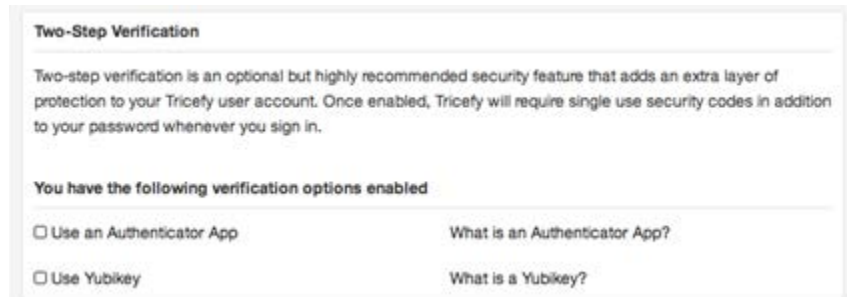
The Login form also contains a checkbox for activating a **Remember me on this computer** ④ feature. Checking this will save the email and password of a successful login for two weeks on the User's computer. Tricefy can therefore always be logged in when a User opens bookmarks saved on a specific desktop, speeding up workflow by several seconds each time as it eliminates the need to login after closing a browser between patient visits. The box should be online and viewable as such between patient visits. The Login Screen also contains a **Forgot your password** ⑤ link that opens a **Send Password Recovery** screen.



Clicking **Signup** ⑥ on Tricefy.com opens a new window and presents a potential Tricefy User with a form for estimating the cost of the system and a **Next Step** ⑦ button for creating an account – which includes **Clinic Name**, **Email Address**, **Phone**, **Password**, and **Password Confirmation** ⑧. A link to Terms of Service and a required checkbox for confirming they were read will appear at the bottom ⑨ just above buttons for selecting the data storage option, the Reseller's promotion code box and the **Get Started** button ⑩. Any issues are met with error messages guiding the User to a successful account creation. Signups without issues are granted immediate access to the system.

Two-Step Verification Option

Security-conscious Users may set up their account to require a multi-factor authentication process, which will then require subsequent steps for more secure login to Tricefy.



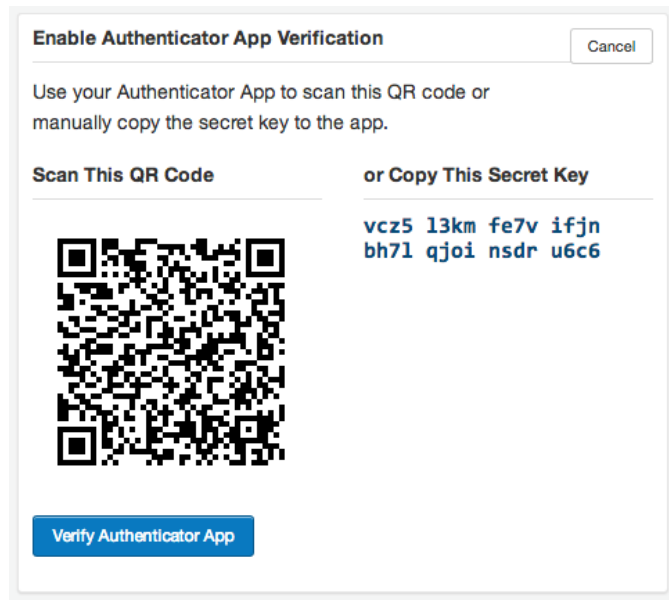
The **Two-Step Verification** screen will list which verification code options (Authenticator App and YubiKey) are available and allow the User to check the ones they would like to have enabled. Explanations of each option are found by clicking the **What is Authenticator App?** or **What is Yubikey?** questions to the right of each one.

Authenticator App

Several mobile apps are available that will generate a unique time-sensitive security code you can use to finish signing in to your Tricify account. Any app that supports the Time-based One-Time Password (TOTP) protocol should work, including the following:

- Google Authenticator (Android/iPhone/BlackBerry)
- Duo Mobile (Android/iPhone)
- Amazon AWS MFA (Android)
- Authenticator (Windows Phone 7)

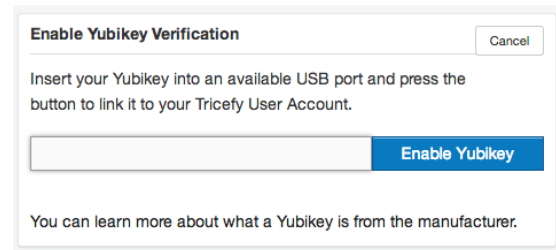
Selecting the **Authenticator App** checkbox will require the User to complete the process by scanning a QR code or copying a **Secret Key** on a subsequent screen.



YubiKey

The Yubikey Standard is a hardware authentication device that changes passwords every time it is used. In its default mode, the YubiKey works by emitting a one-time password (OTP) by emulating a USB keyboard. As USB keyboards are supported by almost all modern computers, the YubiKey requires no additional client software (Windows, Linux, Mac, iPad, Firefox, Chrome, etc.).

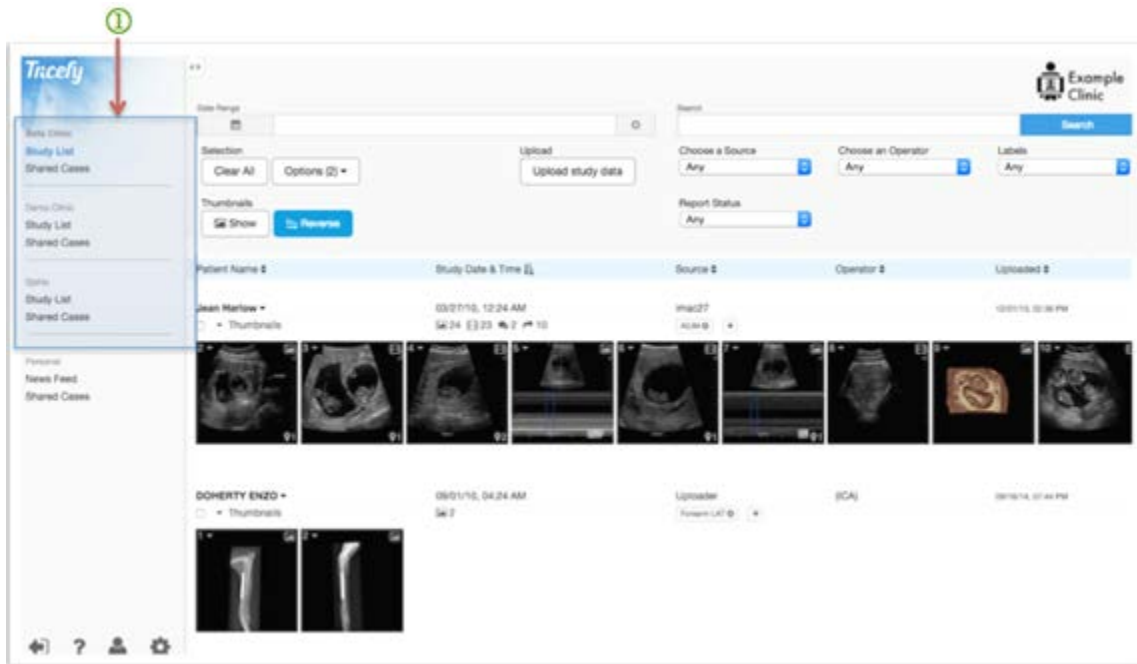
Selecting the **YubiKey** checkbox will require the User to complete the process by inserting the device and clicking the **Enable Yubikey** button on a subsequent screen.



Tricefy Account Structure

Tricefy Users can be members of multiple Clinic accounts simultaneously. *Those who are the **Administrators** for a Clinic will be the only Users that have access to settings for the Clinic Profile, Members and Privileges, as well as the entire Branding and Statistics sections.* Standard Users permissions are governed by the **Sharing** and **PDF Export** permissions.

- See the [Members and Privileges](#) section of this document for more information.



User provide a single login on Tricefy.com and will arrive at the Study List, where each membership account will appear as a link in the upper left corner of the interface ①. All individual clinic data is retained and managed in its own database and can be searched and viewed through the Study List and Viewer.

A User must receive an invitation from an account's Admin to become an active User of that account. If a User has Admin rights they will be able to invite new members into an account. Collaborators that receive **Share with Colleague** access have rights only on that specific Case, until it is closed.

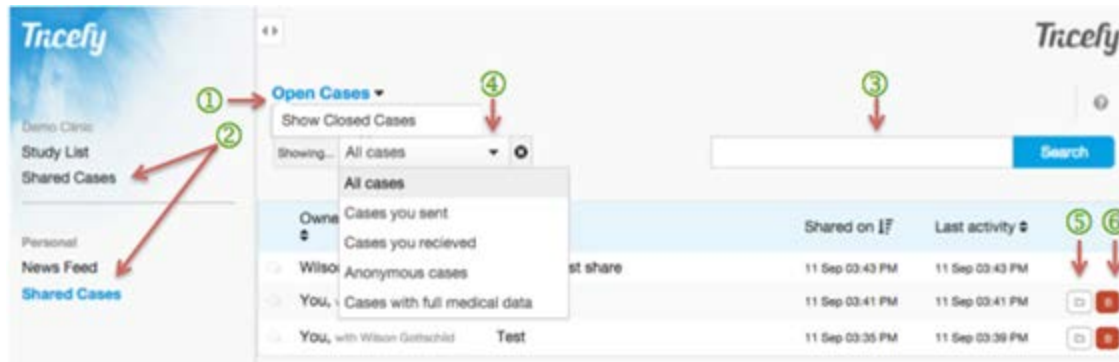
Personal News Feed

New activity regarding a User's Tricefy interactions are posted in a chronological **Personal News Feed**, which is accessible below the Clinic List in the left column.

On the Main Screen, each new activity is on its own line and includes a timestamp, the name of the member from whom the activity originated, and the subject matter to which it corresponds. The type of news is marked with a conversation bubbles icon for newly posted messages and a forwarding arrow for newly shared cases seeking collaboration. Clicking an item in the News Feed takes the User directly to the area of interest.



Shared Cases - Open and Closed Cases

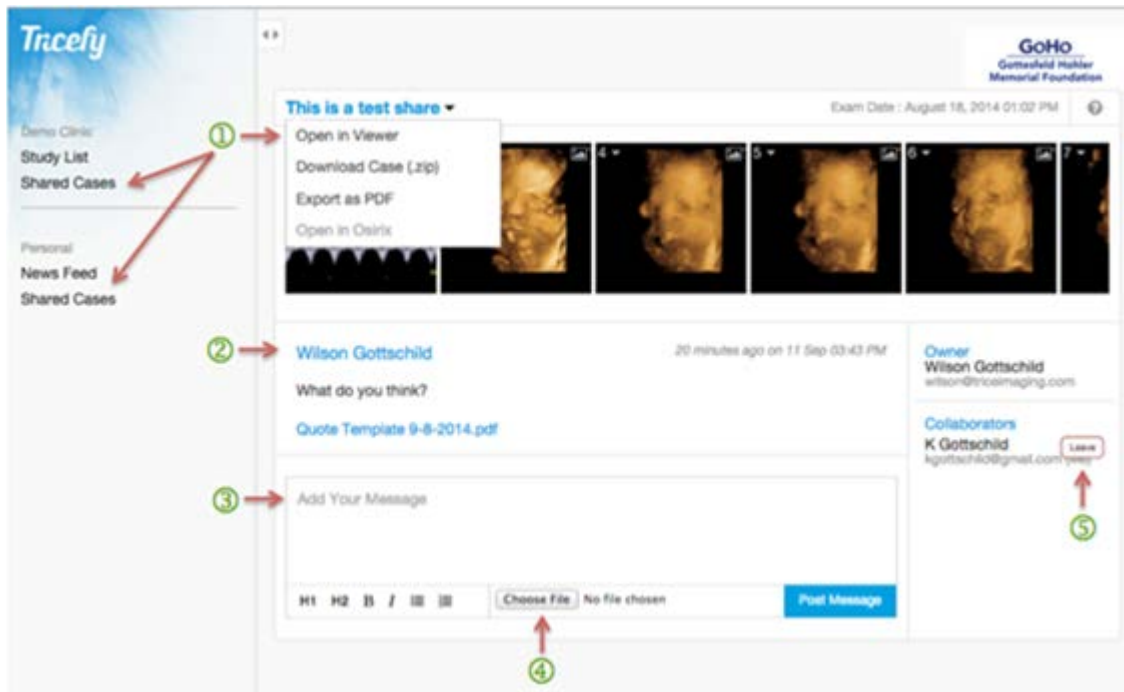


Studies that colleagues have sent for review and those a User has sent to others for commentary appear in the **Open Cases** and **Closed Cases** (1) dropdown of the Tricefy web interface after clicking on **Shared Cases** (2) in either the Clinic or Personal navigation in the left column.

Any Case not yet clicked on will appear as bold in the **Open Cases** list. The **Search Box** (3) at the top of the screen enables Users to search through cases appearing in the list. A case is considered Open until the Owner closes it, at which time it will transition to a Closed Case and appear only in that list.

A dropdown of filtering options allows the User to make the list show **All Open Cases**, **Cases they Sent**, **Cases they Received**, **Anonymous Cases** or **Cases with Full Medical Data** (4). The list can also be sorted alphabetically or chronologically, by any of the column headers (Owner and Collaborator, Subject, Share Date or Last Activity Date).

To the right of each Case appears a folder icon button (5) that will disable the Case from further collaboration (saving what had been entered) and moving it to the Closed Cases section. Clicking the red delete trashcan icon (6) at the far-right will completely and permanently delete the case from Tricefy.



Clicking on an **Open Case** allows Users to view it and engage in a digital dialogue that will remain outside of the actual study details. Only Owners may invite additional colleagues to participate.

Users may interact with a study by clicking one in the Open Cases or Closed Cases list then using the drop-down menu at the top ① to:

- **Open in Viewer**
- **Download Case**
- **Export as PDF** (if permissions allow)
- **Open in Osirix** (Apple users only)

Users may also click a Thumbnail within the scrollbar open the Viewer with the chosen image featured in the main gallery frame. An aggregation of the posted comments ② will remain with the case.

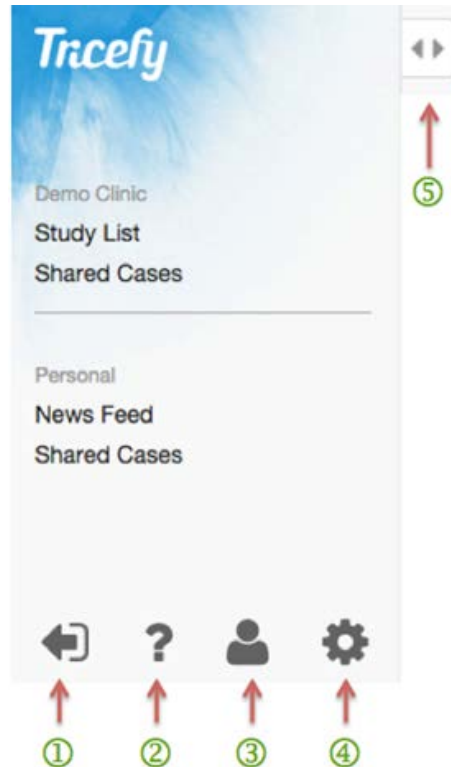
New comments ③, with or without attachments ④, may be posted by collaborators.

Clicking **Leave** ⑤ will eliminate your access to the case.

- More on **Open Cases** appears in the [Share with Colleagues](#) section of this document.

System Navigation Icons


There are four icons in the lower-left column of the Tricefy web interface that provide additional support and access to important tools:



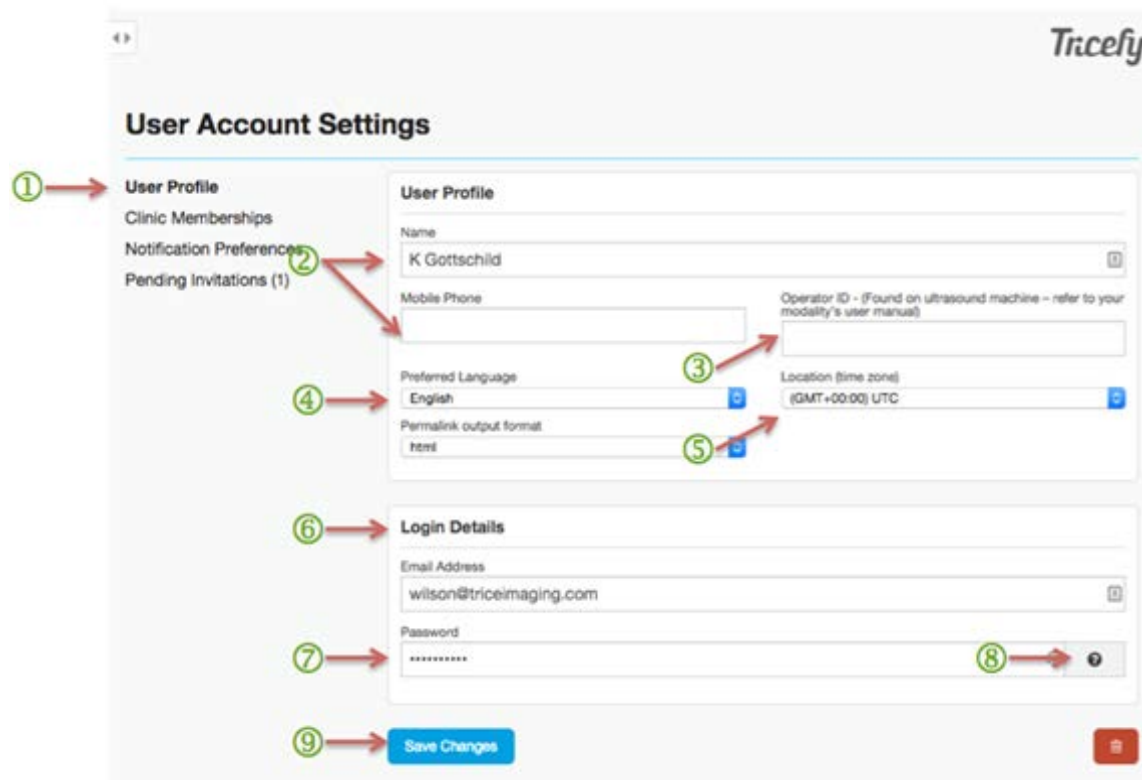
- The **Sign-Out** arrow ^① icon will log a User out of the Tricefy System, returning them to the Tricefy.com login screen.
 - The **Question Mark** ^② icon links Users to relevant **Help Topics** and Tricefy training materials.
 - The **User** ^③ icon links Users to **User Account Settings** where the **User Profile** and **Clinic Memberships** (for administrators) can be managed (more on this below.)
 - **Clinic Account Settings**, which gathers the administrative technical settings in one place, are available for administrators by clicking the **Cog** ^④ icon.
 - All settings within **Account Settings** heavily affect the DICOM features in Tricefy. The more advanced technical settings can be manipulated in the **Administration** section.
- More on these functions is available in the [DICOM Settings](#) section of this document.

To the right of the left column of the Tricefy web interface are **Open/Close** ^⑤ icons. Clicking these at any time will open or collapse the left column and all of its contents.

TRICEFY USER ACCOUNT SETTINGS

User Account Settings, accessible by clicking the **User** icon  in the lower-left of the collapsible Menu column, includes three sections where Users can manage their **Profile** and **Clinic Memberships**.

User Profile



The screenshot shows the 'User Account Settings' page in the Tricefy web interface. The page has a sidebar on the left with a 'User Profile' link highlighted by a red arrow and a green circle with the number 1. The main content area is divided into two sections: 'User Profile' and 'Login Details'. The 'User Profile' section contains five text input fields: 'Name' (with the value 'K Gottschild'), 'Mobile Phone', 'Preferred Language' (with a dropdown menu showing 'English'), 'Permalink output format' (with the value 'html'), and 'Operator ID' (with a placeholder text). The 'Login Details' section contains two text input fields: 'Email Address' (with the value 'wilson@triceimaging.com') and 'Password' (with a masked value). A red arrow and a green circle with the number 2 point to the 'Mobile Phone' field. A red arrow and a green circle with the number 3 point to the 'Operator ID' field. A red arrow and a green circle with the number 4 point to the 'Preferred Language' dropdown. A red arrow and a green circle with the number 5 point to the 'Permalink output format' dropdown. A red arrow and a green circle with the number 6 point to the 'Login Details' section header. A red arrow and a green circle with the number 7 point to the 'Password' field. A red arrow and a green circle with the number 8 point to the 'Save Changes' button. A red arrow and a green circle with the number 9 point to the 'Save Changes' button. A red arrow and a green circle with the number 10 point to the 'Help' icon.

Users can edit their **User Profile** by clicking **User Profile** ① in the User Account Settings section of the Tricefy web interface (found after clicking the User Icon in the lower-left of the screen when the left navigation is open.) This screen has a single form containing five text fields and two dropdowns, as well as the usual **Save** button. Above the form is a heading explaining that this is the screen to make changes to a User Account/Profile.

The **User Profile** screen is where all Users with "User" level permissions (no administrative permissions) manage the details of their own account.

Users can input data into the fields on the User Profile screen to edit their **Name** or **Mobile Phone Number** ②. In the **Name** field, Users can verify and correct the spelling of their name. **Name** is a required field and must be populated before saving changes. The **Mobile Phone** field is optional. The phone number field can be left blank, but anything typed into this field will be validated to see if it might reasonably be a phone number.

Operator ID ③ is the ID shown on the Home Screen when a Study Listing is filtered to show only studies by a particular User. To add the DICOM Operator element to Tricefy, each User profile can specify an Operator ID (officially called "Operator Name" but Ultrasound machines call this various things - most common among them being "Sonographer.") The Operator ID is typically initials, a full name, etc., and needs to correspond to the Operator ID entered on the Ultrasound machine on which the User works. All images sent over to Tricefy will include this Operator ID value and will be used to list and show studies and images generated by that particular Sonographer. This is done by using the **Operator** selection or search box over the Study List. As editing of DICOM data is not allowed, a User can retroactively add or correct the Operator name in their profile to have that match up with existing data in the system. This field is entirely optional.

Preferred Language ④ can be selected from a drop-down list of available translations of Tricefy. At the time of publication, there are translations in English, Swedish, German and French. Other languages will be added as needed and automatically become available in this dropdown. The dropdown defaults to English.

Location ⑤ (time zone in which the User is located) as well as **Login Details** ⑥ (Email Address and Password for logging in to Tricefy.) The email address entered is validated to ensure it is properly formatted and, as it is the Login ID, this field cannot be blank.

The **Password** field ⑦ is obfuscated and only shows a dot for each character that is entered. This field is ignored if it is blank but anything entered will be validated accordingly. Passwords must be eight characters in length. In the **Help** information ⑧ for this screen, there are also guidelines on choosing a good, strong password, which must include at least one lowercase letter, one uppercase letter, and one digit. This field always returns empty if there was a validation error of any kind.

The last thing is the **Save Changes** button ⑨. Clicking this will save the User's changes. If any of the requirements mentioned for the fields above are not met then nothing is saved and a User is returned to this screen with those fields highlighted and an error message at the top of the screen for each problem encountered. If submitted data appears to be entered correctly, all changes are saved and a message at the top of the screen confirms this.

The **Two-Step Verification** option found below the User Profile area of this screen is described in detail in the [Two-Step Verification](#) section of this document.

Clinic Memberships

Under **Clinic Memberships** is a list of clinics to which the User has access on Tricefy per invitations received or accounts initiated by the User. Clicking **Leave** eliminates the Users access to the selected Clinic.

Clinic Memberships	
The Demo Clinic	Leave

Pending Invitations

The **Pending Invitations** screen shows a list of medical professionals whom the User has invited for Membership in their Clinic. Each person is shows as a single line with the Email of the invitee, the timestamp of when they were invited and the ability to **Cancel Invitation** with a button at the far right. Clicking **Show All Invitations** produces a screen listing all Invitations that have ever been sent (pending and complete) in chronological order showing the most recent at the top. A **Cancel Invitation** button appears next to any Invitation that is still pending.

Pending Invitations		Show All Invitations
Email	Sent At	
idrissimed2003@yahoo.fr	Sat, 01 Feb 2014 12:09:50 PM +0100	Cancel Invitation
martin@triceimaging.com	Thu, 16 Jan 2014 04:37:13 PM +0100	Cancel Invitation
asa@triceimaging.com	Thu, 16 Jan 2014 04:36:50 PM +0100	Cancel Invitation
matt@triceimaging.com	Mon, 30 Dec 2013 07:22:15 PM +0100	Cancel Invitation

TRICEFY USER GENERAL SETTINGS

Clinic Profile

Clinic Profile functions are accessible to Users with Administrator permissions only.

The screenshot shows the 'General Settings' menu on the left and the 'Clinic Profile' form on the right. Numbered callouts are as follows:

- ① points to the 'Clinic Profile' menu item.
- ② points to the 'Clinic Name' text field.
- ③ points to the 'Sharing Name' text field.
- ④ points to the 'Public Contact Email Address' text field.
- ⑤ points to the 'Language Used in External Communication' dropdown menu.
- ⑥ points to the 'Require access code to view images' checkbox in the 'Patient Link Customization' section.

The 'Clinic Profile' form contains the following sections:

- Public Information**
 - Clinic Name: Demo Clinic
 - Sharing Name: demo
 - Public Contact Email Address: sales@triceimaging.com
- Language Used in External Communication**
 - Language choice for emails, text messages and landing pages for this Clinic: English
- Patient Link Customization**
 - Require access code to view images: ☐

A 'Save' button is located at the bottom of the form.

Under the **Clinic Profile** ① section of the **General Settings** menu, Administrators can enter the public-facing information that will represent the clinic in all areas of Tricefy, starting with the **Clinic Name** ②.

In order for a Clinic's name to autofill when others are sharing cases, a **Sharing Name** must be entered within the Clinic Profile ③. The Clinic can then be shared cases by addressing it as "Clinic:Name" ("Name " will be replaced by whatever is entered here).

All Email messages sent by Tricefy on behalf of this clinic will include the **Public Contact Email Address** ④ entered in the second field as the **Reply to** address for incoming inquiries or responses. If no address is provided, replies will be discarded. The language selected in the lower **Language Used in External Communication** ⑤ section determines the display language (English, German or Swedish) for emails and text messages sent from Tricefy, as well as landing pages for the Clinic. The **Patient Link Customization** section ⑥ enables Clinic administrators to universally password protect patient Landing Zone pages shared by the Clinic.

➤ See the [Password Protected Patient Links](#) section of this document for more information.

Members and Privileges - Clinic Member List

Members and Privileges functions are accessible to Users with Administrator only.

The screenshot displays the 'Demo Clinic' interface with a sidebar menu on the left. The 'Members and Privileges' section is highlighted with a red arrow and a circled '1'. The main area shows a 'Clinic Member List' table with columns: Name, Is Admin?, Can Share?, and Can Export PDFs?. Each row has a 'Cancel Access' button. A red arrow and a circled '2' point to the 'Invite New Member' button in the top right. A red arrow and a circled '3' point to the 'Manually Create a User Login' button in the bottom right. Two modal windows are shown: 'Invite New Member' (top right) and 'Create a New User Login' (bottom right). The 'Cancel Access' button for the last member is highlighted with a red arrow and a circled '4'.

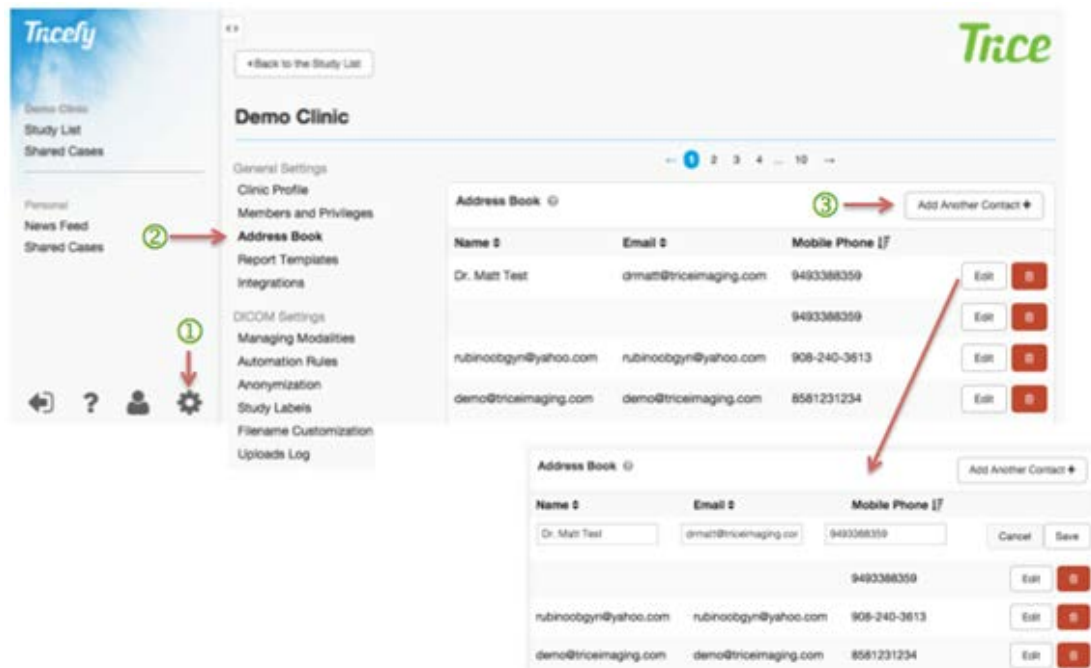
Name	Is Admin?	Can Share?	Can Export PDFs?	Cancel Access
asa@triceimaging.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access
audree@triceimaging.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access
ben.invite1@nerdyworm.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access
benjamin@triceimaging.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access
fred.abrahamson@evnty.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access
jphanna@triceimaging.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access
john@triceimaging.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access
kgottschid@gmail.com (You)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access
martin@greatconnection.se	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access
martin@triceimaging.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access
matt@triceimaging.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cancel Access

Under **General Settings** on the main Settings Menu is a link to the **Members and Privileges** ① section where Users *with Administrator permissions* can manage a list of Clinic Members (people outside of the account with whom the User would like to collaborate and share studies) and their associated permissions ("Is Admin?," "Can Share?," "Can Export PDFs?").

Users can invite a colleague that is already a Tricefy account User by clicking **Invite New Member** ②. All that is needed is an email address and an optional welcome message, as that contact will use a standing Tricefy password to enter the Tricefy interface.

Users can click **Manually Create a User Login** ③ in the lower-right hand corner of the screen to invite a new member into the Tricefy environment. Users enter a name, email address and password for the invited collaborator to use when logging in to the Tricefy environment for the first time. The red **Cancel Access** button ④ to the right of each member will enable the Administrator to disable Users from having access to a Tricefy account.

Address Book



The Tricefy system allows Users to maintain a list of non-clinic medical professional members that are commonly contacted as recipients in an Address Book. Clicking **Address Book** (2) from the Settings Menu (1) provides access to this functionality. New contacts can be added by clicking **Add Another Contact** (3) and current contacts can be edited or deleted by clicking the buttons to the right.

The list is sortable by name, email address and mobile phone. New recipients can also be added by clicking the **Save Recipient to Address Book** (5) box on the Send Study screen as long as the **Send Study** function is completed. The new Recipient will then be accessible in the **Choose Recipient** drop-down box (4) the next time a study is being sent.

Note: Contacts listed in the Address Book can only see the Open and Closed cases that have been shared directly with them.

When **Edit** is clicked next to a previously saved recipient, prepopulated Name, Email and Mobile Phone fields become editable, allowing a User to correct errors and omissions in recipient information. The User can then click **Save** or **Cancel** to complete this task.

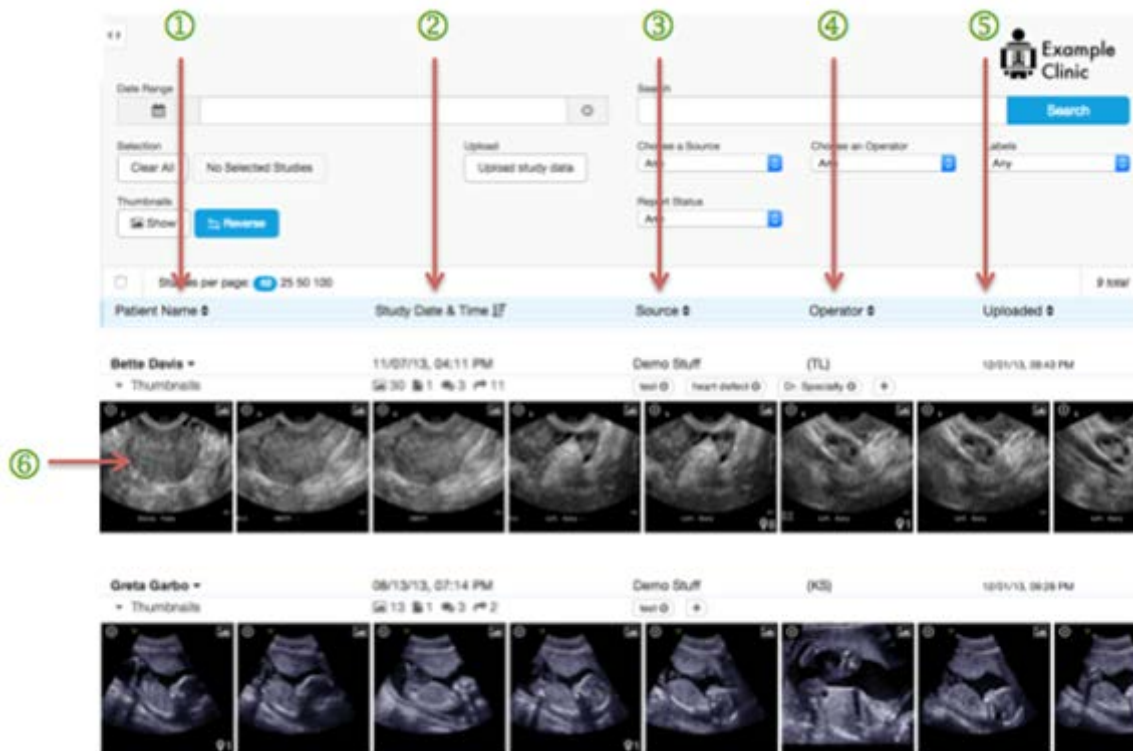
Report Templates

The Tricefy system allows Users to manage the templates that structure the creation of Reports.

- See the [Reporting](#) section of this document for more information.

TRICEFY STUDY LIST

Study List Overview – Toolbar



The Main Page (Study List), is the core of the system and houses a complete list of exams that have been uploaded to Tricefy (parsed by clinic for those with multiple memberships.) Users can use the Study List to locate particular data for viewing, exporting and downloading by browsing, searching, filtering and sorting the Study List contents.

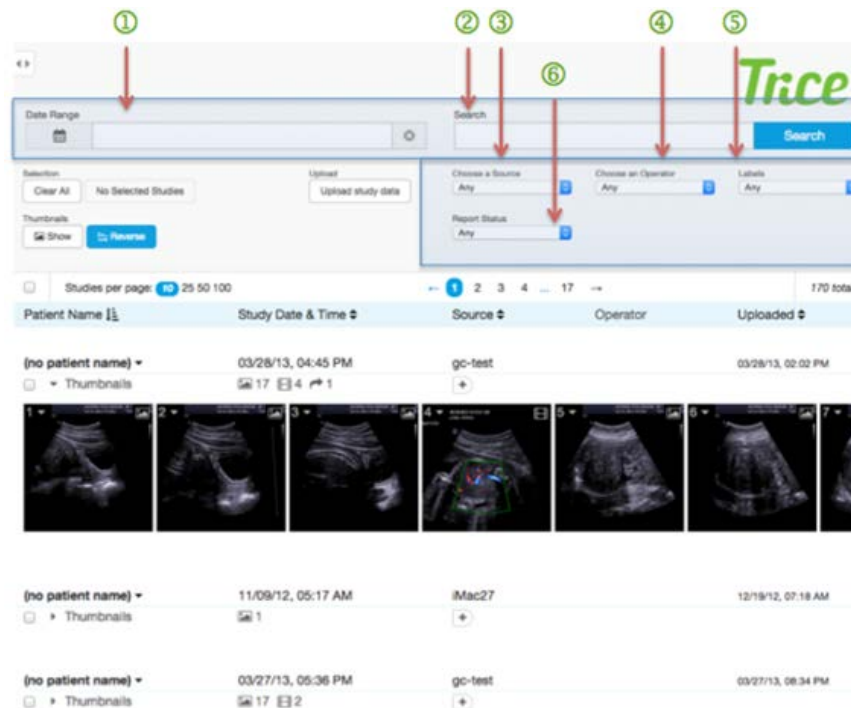
After logging into Tricefy, a User will immediately access the Study List Screen, which presents all Studies from all sources accessible to that Tricefy account. Users can also click **Open Viewer** in the default Study List to access the enhanced Study List.

In the Study List, each Study is represented by the ① **Patient Name**, the ② **DICOM Study Date & Time**, ③ **Source**, ④ **Operator**, and ⑤ **Uploaded** identifiers as they were entered/captured on the modality when sent to the Tricefy System. Clicking certain elements within a Study line will take Users to the Viewer, which shows the full Study including all information, Images, Cine Clips and comments.

- See the [Tricefy Viewer](#) section of this document for more information on Viewer functions.

Each ⑥ row represents a single Study Listing and the page is presented in the system-standard format of a heading area, a button area and a content area.

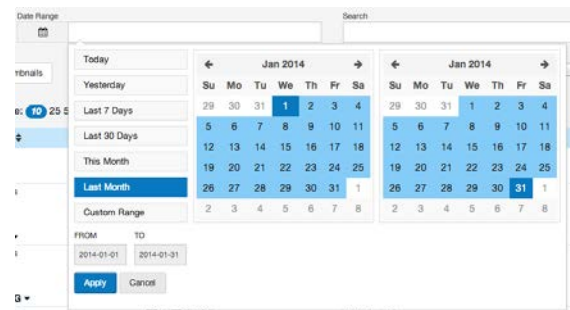
Study List Button Area – Sorting Studies



There are five main ways the Study List can be filtered to show specific studies or types of studies. These include selecting dates, searching on specific terms, choosing a specific source, operator or upload. These filters can be used individually or simultaneously.

① Date Range

Users can narrow the complete Study List to present only studies within a certain **Date Range**. Parameter options include **Today**, **Yesterday**, **Last 7 Days**, **Last 30 Days**, **This Month**, **Last Month**, or **Custom Range**. When utilizing **Custom Range**, Users can enter sequential “From” and “To” dates using their keyboard or by selecting dates from the clickable, scrollable calendar that appears.



After selecting one of the Date Range tools, a User will need to click either the **Apply** or **Cancel** button to cause the list to filter or to exit the Date Range functionality.

② Search

In the center of the Study List Button Area is a Search box followed by a **Search** button. Users can enter keywords from any of the Study List filter categories (e.g. a specific Patient name, Dates, Source, or Operator Name) into the Search box and then click the **Search** button to narrow the current Study List.

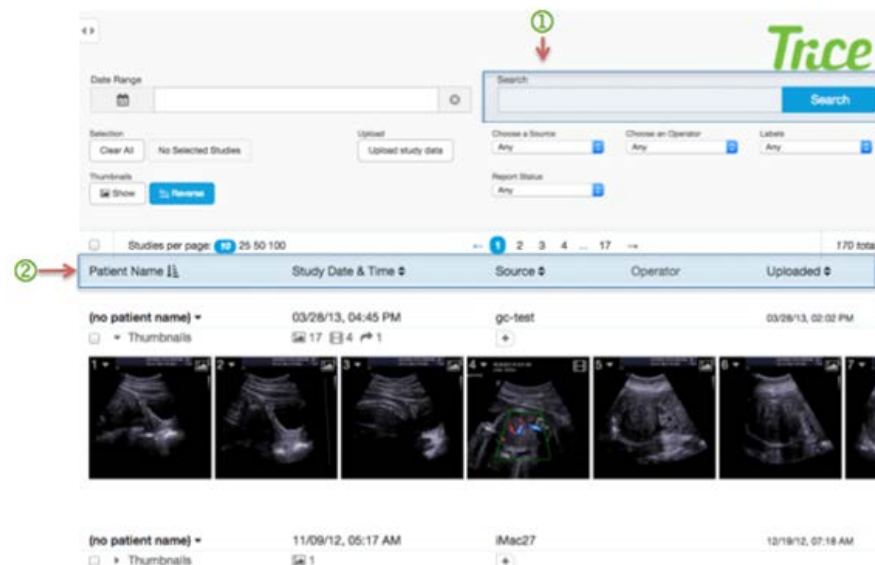
③ Filter by Source, ④ Operator, ⑤ Label, or ⑥ Report Status Drop Downs

There are dropdowns at the top of the screen that can filter the Study List in four ways: **Choose a Source**, **Choose an Operator**, **Labels**, or **Report Status** (no report, preliminary report, finalized report.) Pulling down to a selection on any of these will leave only studies meeting the criteria chosen.

If **Labels** are not set up, or reports are not present in a Tricefy account, this option will not appear above the Study List. However, **Source** and **Operator** will always appear because they are required for the Tricefy System to accept studies.

- See the [Study Labels](#) section of this document for more information on Labels.

Study List Button Area – Search for Studies

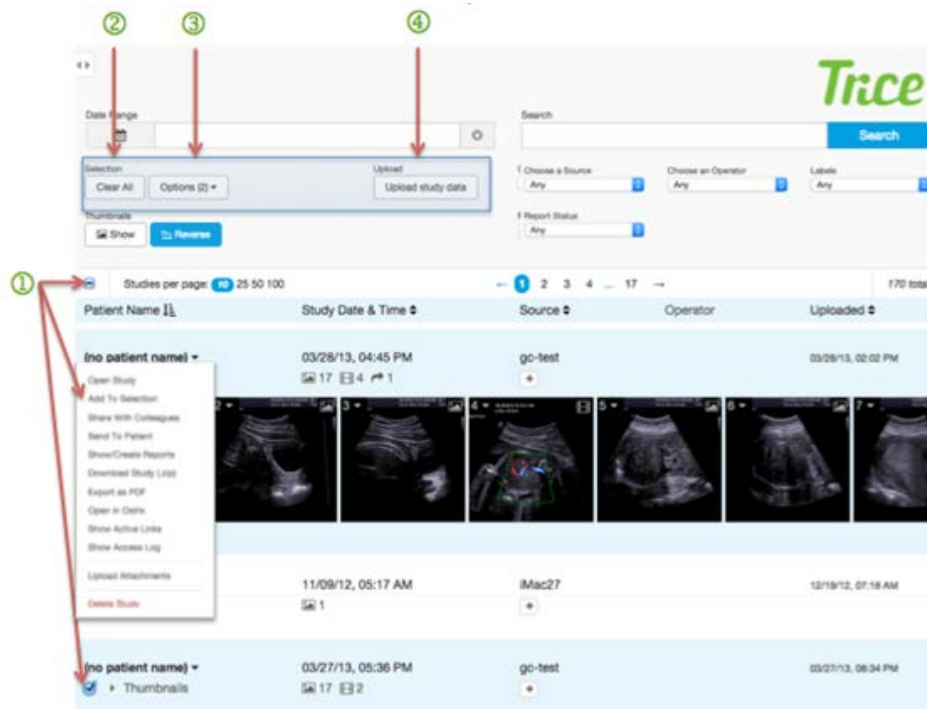


A Search for any components of the sort categories (e.g. patient names, date) or relevant study data - such as referring physician - can also be conducted in the **Search Box** ① at the top of the Study List screen.

When searching by a less-specific identifier, such as a common name, more than one result may match the query. In this case, a list of matches will be returned.

The **Sort** and **Filter** tools ② can then be used to locate the appropriate study.

Study List Selection and Options Areas



① Study Select

There are three ways to select studies (for comparison or download) from the Study List.

1. To the left of each study in the Study List (next to the **Thumbnails** dropdown) is a checkbox. When a User checks an individual study checkbox, it highlights that line in blue.
2. Selecting the master checkbox at the top will select all studies visible on the current page. Clicking this button a second time will deselect all visible studies on the current page.
3. Clicking the **Add to Selection** option from the Study Action List.

When a study is selected, further functions are available as described below.

② Clear All

The **Clear All** button universally unselects any studies that had been selected using the checkboxes at the left of each individual study. Studies can also be deselected by individually.

③ Options (Compare, Download, Move) – presents initially as No Selected Studies

These options are explained on the following page.

④ Upload Area - DICOM Files

DICOM files can be directly uploaded to Tricefy (in instances where a device does not have the ability to export DICOM files directly to the system) using the **DICOM Files** button. Metadata from uploaded files will be automatically sourced by the system and a new

Study List entry will be created. From there the study can be sorted, searched, labeled, compared and shared like any other entry in the Study List.

Study List Options - Compare

After selections are made (as described in the Study Select section above) the **No Selected Studies** button (next to the Clear All button in the Selection Area of the upper navigation) will change into an **Options (X)** drop-down button under which Compare can be selected. (The X represents the number of studies that have been selected using any of these selection methods.) Choosing **Compare** will bring studies that have been selected into the Viewer for a side-by-side comparison.

- See the [DICOM Viewer Toolbar/ Heading Area](#) of this document for more information on comparing images.

Study List Options - Download

After selections are made (as described in the “Study Select” section above) the **No Selected Studies** button (next to the “Clear All” button in the Selection Area of the upper navigation) will change into an **Options (X)** drop down button under which Download can be selected. (The **X** represents the number of studies that have been selected using any of these selection methods.) Clicking the **Download** button will prepare studies that have been selected. A dialogue box will appear so the User can select the Download format (either DICOM, PDF, JPG/MP4); whether or not to anonymize data and if they would prefer to wait for download or receive and email when the download is complete. The dialogue box also summarizes the number of studies, images, videos, reports and the total size (in MB) of the intended download.

Please choose your download options

DICOM Studies	2
Images	34
Videos	6
Reports	0
Total Size *	272 MB

* Indicates the size of the original DICOM files.
The actual size being downloaded depend on the options selected.

Download format

Anonymize Data

Delivery

Study List Options - Move

After selections are made (as described in the Study Select section above) the No Selected Studies button (next to the Clear All button in the Selection Area of the upper navigation) will change into an **Options (X)** drop-down button under which **Move** can be selected. (The **X** represents the number of studies that have been selected using any of these selection methods.) Users ***with administrative privileges in more than one clinic*** can move studies between accounts. All dependent DICOM files accompany a study wherever it is moved. Associated Labels and AE Titles are created in the target clinic if they are not already there. There is only one master study and duplicates are never made. If a study is moved it no longer appears in the clinic study list where it originated, but can be moved back.

Selecting **Move** will prepare studies that have been selected and open a dialogue box where the User will pick a Clinic from a dropdown that shows only those to which the User has administrative privileges. The dialogue box also summarizes the number of studies, images, videos, Reports associated with the intended move. The **Move** is completed by clicking the blue **Move Now** button or canceled by clicking the **X** in the upper-right of the dialogue box.

Move selected studies to another clinic

DICOM Studies	1
Images	28
Videos	23
Reports	0

Pick a Clinic
Example

The selected studies will be moved and only available in this clinic. Only clinics where you have admin privileges are available.

Move Now

Study List Content Area



① Master Thumbnails Function

In the upper-left corner, above the page selection tool, Users have the option of showing or hiding Thumbnails for all Studies in the Study List using the **Show/Hide Thumbnails**. Users also have the option of reversing the sort order of thumbnails included in the study list. The button affects all studies in the study list simultaneously, and highlights when the order of thumbnails is in reverse to how they were received during transmission. The order (whether reversed or not) remains consistent on pages (e.g. the Viewer) that subsequently list the same thumbnails.

② Study Volume Preference

The Study List defaults to a pagination pattern of 10 study rows per screen. However, Users can control the amount of studies shown per page by clicking the **Pagination Controls** (blue-circled numbers 10, 25, 50, 100) positioned to the left above the Study List. This preference will be cached for the entire User session. In the event there are fewer items in the Study List than the desired number of results per page, the list will simply end when it is fully loaded.

③ Study Pagination

Users can also skip to pages within the Study List by clicking the blue-circled **Page Numbers** in the center of the screen just above the list. Each of these numbers represents a single page of results, whether they contain 10, 25, 50 or 100 rows each. The number of pages will adjust to the amount of data being presented and according to the desired number of results per page. Pagination will also appear in the bottom center of the Study List after the last Study line on each page.

④ Total


The total number of Studies in the current Study List is shown to the right above the list itself as "Total: ###." It automatically adjusts to the actual amount of studies in the list as they are filtered.

Study Listings




Each Study occupies a single row in the Study List. The columns for each row include data for **Patient Name**, **Study Date & Time**, **Source**, **Operator** and **Uploaded date/time**.

① Patient Name


The first column in each Study shows the **Patient Name** (Last Name, First Name.) Patient Names can be listed in the Study List alphabetically by entered name if prioritized by the User. Users can structure the Study List as alphabetically ascending or descending according to Patient Name by clicking on the **Patient Name** column header. An arrow with graduating lines  indicates the selection as ascending or descending. To view all of a single patient's Studies, Users can either sort using the **Patient Name** filter or enter the patient's name as a Search term.

② Study Date & Time

The **Study Date & Time** column shows the Original DICOM timestamp sent from the modality (e.g. 11/18/2013, 03:18 pm). The Study Date & Time column is the default Study List organizer. Studies are presented chronologically with the most recent Study at the top, unless the User is prioritizing other filters. Users can structure the Study List as chronologically ascending or descending according to Study Date & Time by clicking on the **Study Date & Time** column header. An arrow with graduating lines  indicates the column as ascending or descending.

③ Source

The **Source** column shows the name set up in the Tricefy System to represent the AE Title (a.k.a. destination AET) from which the Study was sent. *Example: "Samsung-a30," "vivid_q-020797."* The Trice Imaging team sets these AE Titles when the User provides the initial configuration information.


Sources can be listed in the Study List alphabetically by entered name if prioritized by the User. Users can structure the Study List as alphabetically ascending or descending according to Source by clicking on the **Source** column header. An arrow with graduating lines  indicates the column as ascending or descending.

④ Operator

The column titled **Operator** shows the Operator ID (initials or Last Name, First Name) as assigned to a Tricefy account, if one has been associated with the Study. The Operator column is not sortable by the User.

⑤ Uploaded

The **Upload** column indicates the timestamp of when a study was sent to Tricefy. This may be different to the Study Date & Timestamp captured by the modality.

The Upload timestamp can be listed in the Study List chronologically if prioritized by the User. Users can structure the Study List as chronologically ascending or descending according to Upload timestamp by clicking on the **Uploaded** column header. An arrow with graduating lines  indicates the column as ascending or descending.

⑥ Thumbnails Function - Per Study

A set of Thumbnails including those for Images, Cine Clips and/or DICOM SR Reports will appear as a second line of information below each Study header. The number of Thumbnails per study will be set by the User that sent the data to Tricefy. Thumbnails scroll left and right within the screen according to browser width.

An Image Thumbnail is a scaled down representation of the actual Image contents from a Study. Cine Clips show a scaled-down version of their first frame and DICOM SR documents are represented by a Thumbnail-sized icon indicating it is a Report.

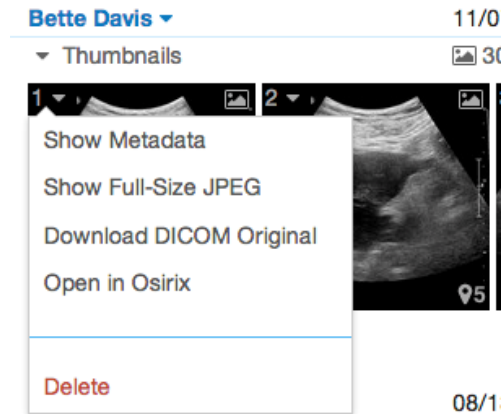
The Study List defaults to hiding the Thumbnail Gallery but it can be shown in two ways. A User can click the **Thumbnails** text that appears in each, individual study line to hide and unhide the Thumbnails on an individual Study basis. A User can also choose to click the master **Show Thumbnails** text appearing just above the **Items per page** numbers in order to control whether Thumbnails appear or don't appear for all study lines at once.

The order of thumbnails (for the entire study list) can be reversed by clicking the **Reverse** button next to the Master Thumbnail button to the upper-left of the study listings.

Each Thumbnail will have a sequential number in the upper-left corner, as well as either an image icon (mountain landscape with a sun 🏔️) or Cine Clip icon (a small filmstrip symbol 🎞️), depending on what the Thumbnail represents. The **Study Image Number** represents the number of the Image as it was generated from the modality. Some Thumbnails may also include a Pin Icon (📌) and the number of pins present on that Image in the bottom right corner. If there are Reports associated with a study there will be a document Icon (📄) where the number inside parentheses is the number of studies that are final out of the total outside of parentheses on the left.

Users can use the drop-down menu available on individual studies in the Study List to **Open Study**, **Add To Selection**, **Share With Colleagues**, **Send to Patient**, **Show/Create Reports**, **Download Study (.zip)**, **Export as PDF** (if permissions allow), **Open in Osirix** (Apple users only), **Check Active Links**, **Show the Access Log**, **Upload Attachments** or **Delete Study**.

In the upper-left hand corner of each Thumbnail is the number and a drop-down arrow which, when clicked, opens a menu specific to that single Thumbnail:



Choosing **Show Metadata** will take a User to a full screen of the Metadata, which displays the full list of DICOM metadata elements available in a DICOM file. This data is presented as a table with one column containing the element names and the other their values. The elements are ordered as they appear in the uploaded DICOM file and are sectioned off by **Metadata Name** or **DICOM Element Name**.

➤ See the following page for an example screenshot.

Tricefy
Image Metadata

Tricefy

← Back

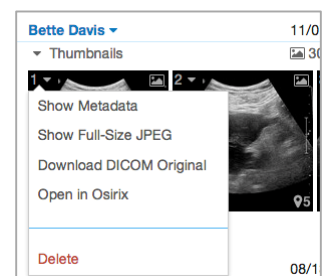
Metadata Details

metadata name	element value
Primary Only	false
Content Type	application/vndicom
Filename	1.3.6.1.4.1.30190.540483414844825974700237
Length	1431364
Upload Date	2014-11-06 19:55:37 UTC
Multi	8c403a895021781853a0b4a48919a84
Domain	demo
Source Aet	bae9083c35a45d
Destination Aet	demo
Raw Destination Aet	demo
Deleted	false
Updated At	2014-11-06 19:55:38 UTC
Created At	2014-11-06 19:55:38 UTC

dicom element name	element value
File Meta Information Version	
Media Storage SOP Class UID	1.2.840.10008.5.1.4.1.1.7
Media Storage SOP Instance UID	1.3.6.1.4.1.30190.540483414844825974700237
Transfer Syntax UID	1.2.840.10008.1.2.4.50
Implementation Class UID	1.2.276.0.7200010.3.0.3.6.0
Implementation Version Name	OFFIS_DCMTK_360
Specific Character Set	ISO_IR_100
SOP Class UID	1.2.840.10008.5.1.4.1.1.7
SOP Instance UID	1.3.6.1.4.1.30190.540483414844825974700237
Study Date	
Study Time	

Amniscan ScanBase

Show Full-Size JPEG will replace the screen contents with a large view of the image or cine clip. **Download DICOM Original** or **Open in Osirix** will do just that (this option is only available for Apple users). The **Delete** option will remove a thumbnail from a study permanently.



⑦ Study Icons

Icons beneath the Study Date & Time show data associated with each Study. Each icon represents a type of a data and the number to its right shows the amount of that data associated with the study:

- Indicates the **Number of Images**.
- Indicates the **Number of DICOM SR Documents** (Structured Reports)
- Indicates the **Number of Cine Clips**
- Indicates the **Number of Comments**
- Indicates the **Number of Attachments**
- Indicates the **Number of Sendings**

⑧ Labels

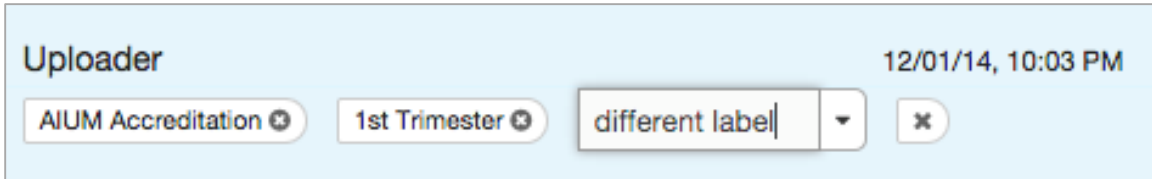
Study Labels that have been assigned when the study was sent from the modality appear to the right of the study icons, beneath the Source column. Labels may be removed by clicking the **X** within each label.

New labels can be added by clicking the **+** which then presents and focuses the cursor in an open text field to allow instant free-typing of a new label. Clicking the drop-down

arrow within an empty label text field will present all available labels associated with the clinic but not associated with the study.

As the User types, any labels set up in the account that are not already assigned to the study will begin to populate the text field and can be selected at any time by highlighting the label words with the cursor, which will automatically add it to the study and present a new empty label field.

New empty label fields will also appear after a return carriage on an existing label or by clicking the + in the Source column.



The screenshot shows a light blue header bar labeled 'Uploader' on the left and '12/01/14, 10:03 PM' on the right. Below the header, there are three label input fields. The first two are 'AIUM Accreditation' and '1st Trimester', each with a small 'X' icon to its right. The third field contains the text 'different label' and has a dropdown arrow on its right side, followed by a larger 'X' icon for discarding the label.

Every newly created label will also become part of the main set of available labels, appearing in the **Labels** dropdown, the **Study Labels** area of **DICOM Settings** within the clinic admin area, as well as within the **Label** drop-down arrow for *all* studies associated with the clinic going forward. There is no limit to the amount of labels that can be added and used by a clinic. Abandoned empty label fields will remain until the **X** is clicked to discard them or they will reset when the page is refreshed.

- See the [Study Labels](#) section of this document for more information on labels.

SHARING STUDIES

Each study, or select portions, can be shared with patients or colleagues either directly from the modality or through the Tricefy web interface.

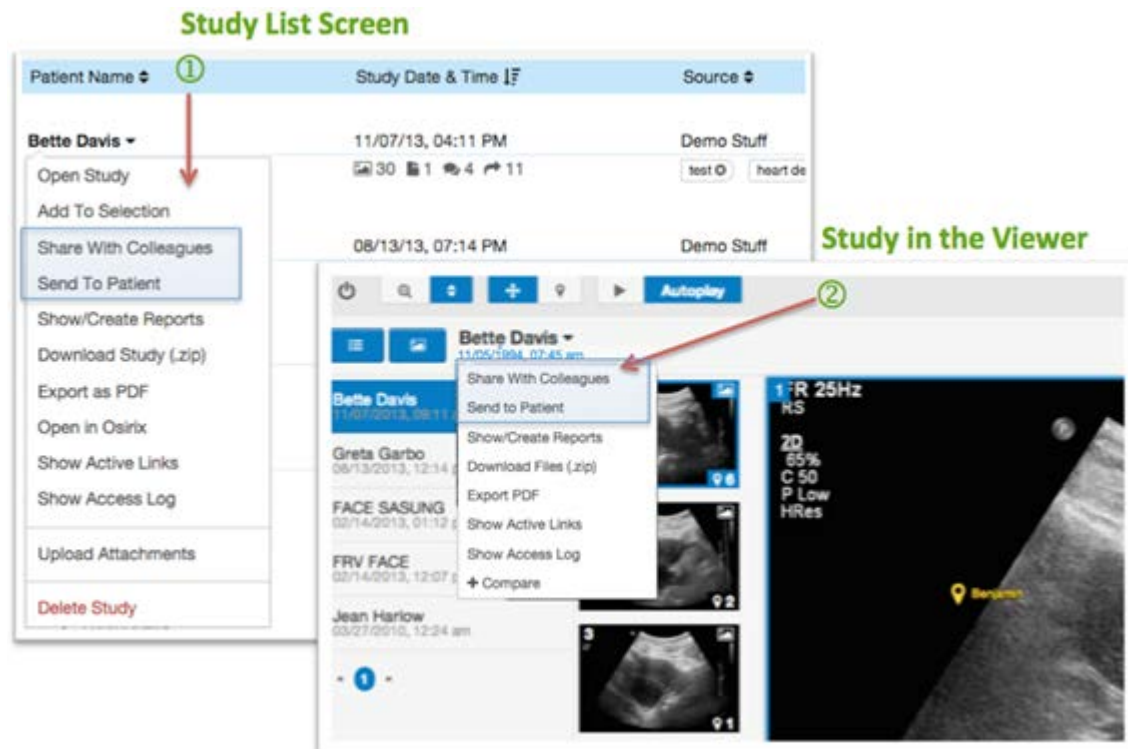
On machines with configurable **P** buttons, studies may be sent directly to patients from the ultrasound system during an exam and without logging into the Tricefy web interface. On machines without configurable “P” buttons, images can be sent after an exam directly from the ultrasound machine by navigating to the **Archive** or **Review** screen, selecting the images and clips to be sent, and sending them to the proper DICOM Store destination.

If **P** buttons have been configured, direct sends can be performed through a few steps. At the start of an exam, the User navigates to the **Start Examination** or **New Patient** page of the ultrasound machine and populates the patient name and other desired fields by entering them manually or retrieving them from DICOM Worklist. Next, the User adds the Patient’s mobile phone number and/or email address in the chosen fields (the most common being “patient comments,” “accession number” and “indication” fields.) **Note:** *Once a phone number or email address have been entered into these fields on an imaging device, they will be able to be recalled by clicking the **Load from DICOM** button on the **Send to Patient** screen.*

When images have been acquired, the User presses the **Print** or **Store** button that has been preconfigured for patient images and, within 30 seconds, the Patient will receive a secure link to the study on their mobile device. When the patient clicks on the link, it will take them to a secure downloading zone where they can acquire the shared items for saving and sharing. Medical images sent from a separate, additional preconfigured “P” button are stored in the clinic’s Tricefy account, which works as a regular PACS archive.

When not sending images directly from the ultrasound machine, the Tricefy web interface can be used for Sending to Patients or Sharing Studies with Colleagues. Patients can receive shared studies (with the “For Patients” message branding, detailed elsewhere) through either their email address or mobile phone number. Cases can be shared with specific colleagues or entire clinics only via email.

There is one screen specific to **Share with Colleagues** and one specific to **Send to Patient**, as they have different capabilities:



To get to either of these screens, the User can click within the menu that pulls down from Patient Name within the Study List ① or within the Viewer ②.

Share with Colleagues

The **Share with Colleagues** function allows the User to share specific studies (or portions of studies) with any medical colleague via email or studies can be shared through Tricefy to the general Clinic account of another Trice customer, as long as they have provided a “Sharing Name” in their Clinic Profile.

- See the [Clinic Profile](#) section of this document for more information on clinic settings.

Sharing with Colleagues creates an **Open Case** and allows any invited collaborators all image viewing capabilities within the Tricefy Viewer - as well as access to an aggregated digital dialogue that will remain inside the Case but outside of the actual study details. Using the **Share with Colleagues** function on Tricefy can be useful for collaborating with consulting physicians, managing clinic workflow, training of residents, etc. Sending data through **Share with Colleagues** sends a link through email or directly from the modality. However, it does provide Collaborators access to the Tricefy Viewer and interface, can be either full DICOM or anonymized, and allows for input to be gathered from multiple parties.

The **Share with Colleagues** screen is made up of two primary parts, which combine to give a User the tools to send a Study, via email, to medical colleagues. The **Back** button at the top of the screen will return the User to the Study List:

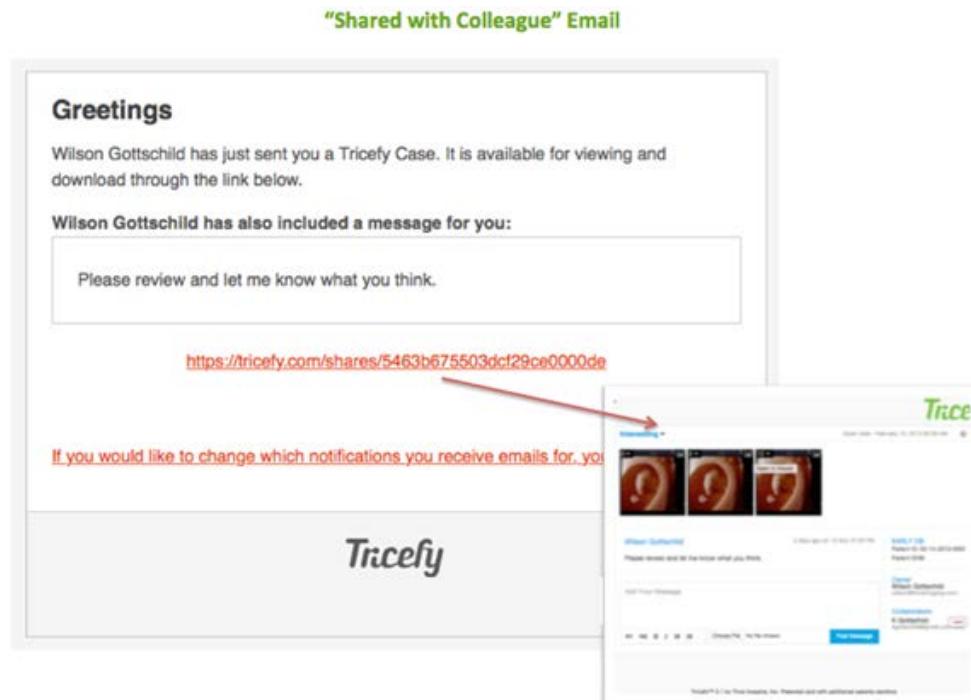
The screenshot shows the 'Share With Colleagues' interface. At the top, there's a title bar with 'Share With Colleagues' and 'Exam Date : November 07, 2013 04:11 PM'. Below this is a 'Thumbnail gallery' (1) showing five ultrasound images, each with a checkbox. Below the gallery are buttons: 'Included Images', 'Uncheck All', 'Check Only Medically Relevant', and 'Check Only Patient-Facing'. A note states: 'Only selected images will be available to the Recipient. By default all images are selected.' Below this are fields for 'Subject' (2), 'Collaborators' (3) with an 'Add Another Collaborator' link, and a 'Your Message...' text area (4). Below the message area is a rich text editor (5) with buttons for 'H1', 'H2', 'B', 'I', and a 'Choose File' button (6) showing 'No file chosen'. At the bottom are two buttons: 'Share Anonymized Case' (7) and 'Share with full medical data' (8).

The first section, at the top of the form, is the scrollable **Thumbnail gallery** (1) where the User selects which images will be part of the new Case. By default, Thumbnails of all the Image files in this Study, excluding SR Reports, appear and are selected. The User can edit the set of images to be shared by clicking either the individual checkboxes next to each image in the Thumbnail gallery, or by clicking the **Uncheck/Check All**, **Check Only Medically Relevant** or **Check Only Patient-Facing** button next to where it says **Included Images**. If the User selects **Check Only Medically Relevant** then only images that were sent to the system from a modality using the Clinicname-mr DICOM store will be part of the Case. If the User selects **Check Only Patient-Facing** then only images that were sent to the system from a modality using the "Clinicname-pf" DICOM store will be part of the Case. Whether the images are anonymized or include full DICOM data is decided in the final step of this send process.

The second part of the form has spaces for adding a **Subject** (2), adding in the emails of invited **Collaborators** (3) (Clinics and individuals already in the account's Address Book or are Clinic Members will autofill when a name is typed) and adding a message (4). Attachments may be included with the email and text can formatted with headers, bold, italics, bullets or an outline (5). The Patient Name, ID and Date of Birth, as well as the information on the originator (Owner) of the case appear in the lower right hand corner (6).

To send, a User may click either **Share Anonymized Case**, ⑦ which will eliminate or crop patient-identifying information from the Case data or "b" ⑧ can be chosen when the Users wishes for the original DICOM data to accompany the Case. If the areas that require proper content (Subject and Collaborators) are not populated appropriately, the form will flash red messages ("can't be blank" and "Requires at least one recipient") to guide the User toward a successful send.

Once the form is completed and sent, Collaborators will receive an email notifying them of an invitation to collaborate on a specific Case. Clicking the embedded link will take them to the case within Tricefy.



Studies can also be sent directly to the general account of a Clinic from a modality by entering the Clinic's Sharing Name (as described in the [Clinic Profile](#) section) into the Study Description field on the machine.

Trice customers will also see new/bold Cases in the "Open Cases" section of the Tricefy web interface. Invited collaborators click on the red link in the email invitation. It will take them to the Case within the Tricefy environment. If they don't have a Tricefy User account then they will be prompted to create a User name and password.

- More information on the Cases that are created when using **Share with Colleagues** is available in the [Open and Closed Cases](#) section of this document.



The Owner who sent the Case will see a screen that includes the **Subject** and any **Message** they created as the first entry ② in the message section.

Above the included images will be the Subject of the Email as a Case title. Clicking on it will produce a drop down menu that will allow any Collaborator to **Open in Viewer**, **Download Case (.zip)**, **Export as PDF**, or **Open in Osirix** ①.

Messages can be entered in the **Add Your Message** box ③, formatted, and posted with or without attachments ④ by clicking the **Post Message** button ⑤.

A list of the Owner and Collaborators is kept at right ⑥. The Owner has the ability to immediately add subsequent Collaborators within the **Add Another Collaborator** box. Messages that are posted within the Case cannot be edited or deleted. A case may only be designated as closed by the Owner of the Case. This can be done by clicking on the "Close" button within the Open Cases section Also within the Open Cases area, an Owner of a Case may choose to permanently delete it.

- See the [Open/Closed](#) section of this document for more information.

Send to Patient

The **Send to Patient** function allows the User to share specific studies (or portions of studies) with any patient through the Tricefy Web interface. Users can get to the **Send to Patient** screen through either the Study List or the Viewer, as described in the [Sharing Studies](#) section of this document. Users who wish to send a study to medical professionals must use the “Share with Colleague” tools.

The screenshot shows the 'Send To Patient' interface in the Tricefy web application. At the top, there is a 'Back' button and the Tricefy logo. The main header area displays 'Send To Patient' and 'Exam Date: 11/06/14, 07:54 PM'. Below this is a 'Thumbnail Gallery' (callout 1) showing two medical images with checkboxes. Below the gallery are three buttons: 'Uncheck All', 'Check Only Medically-Relevant', and 'Check Only Patient-Facing', along with a '2/2 Included Images' indicator. A note states: 'Only selected images will be available to the Recipient. By default all images are selected.' Below this is a 'Choose Recipient' section (callout 3) with a dropdown menu, a 'Load From DICOM' button (callout 9), and a patient information box (callout 2) for 'DeVore R' with Patient ID: unknown-1.3.6.1.4.1.35190.23606946491 and Patient DOB: 1895-01-02. Below the recipient section are fields for 'Email' (callout 4) and 'Mobile Phone' (callout 5), with a note: 'Add as many email addresses and mobile numbers as needed in the above fields.' There is a checkbox for 'Save Recipient to Address Book' (callout 5). Below this is a 'Message text' field (callout 7) and a 'Message Type' dropdown menu (callout 6) set to 'For Patients'. At the bottom is a 'Send Study' button (callout 8).

The **Send to Patient** screen is made up of two primary parts, which combine to give a User the tools to send a Study, via email or text message, directly to Patients.

The first pieces are the scrollable **Thumbnail Gallery** ① where the User selects which images will be made available for viewing. By default, Thumbnails of all the Image files in this Study, excluding SR Reports, appear and are selected. The User can edit the set of images to be shared by clicking either the individual checkboxes next to each image in the Thumbnail gallery, or by clicking the **Uncheck/Check All**, **Check Only Medically Relevant** or **Check Only Patient-Facing** button that appear on the top-right of the Thumbnail gallery.

If the User selects **Check Only Medically Relevant** then only images that include full DICOM data will be part of the Case. If the User selects **Check Only Patient-Facing** then only images that are anonymized (do not include DICOM data) will be part of the Case. Study identifiers ②, including Physician Name, Patient Name, Patient ID, Patient DOB and Exam Date.

The **Back** button at the top of the form will return the User to the Study List.

In the second part of the **Send to Patient** screen Users may load an existing contact by using the **Choose Recipient** drop down box ③ or enter the email address or phone number of a new recipient ④.

- Hitting the **Enter** key after the last digit in a phone number turns that number into an item in the field. Continuing to type starts a new number, which also turns into an item when hitting the **Enter** key.
- Clicking anywhere else and leaving this field will behave like the **Enter** key and make an item of anything typed in. This allows the number to be treated as a single entity and deleted by clicking on a delete icon on the item or by hitting the backspace key one time.
- The field will expand vertically to accommodate an infinite amount of mobile numbers. This field does not support "auto-fill" functionality, which could potentially reveal a previous patient's identity to unauthorized persons. It is also always blank when returning to this screen for similar reasons.

The Tricefy system is enabled to send a secure link of a Study to both mobile phones and email addresses simultaneously from the same form on the Send Study Screen. Below these two fields is a brief text indicating that the User is free to enter as many numbers and addresses as needed.

The **Email** and **Mobile Phone** fields are followed by a **Save as recipient to Address Book** check box ⑤, which allows the contents of the fields to be saved as a recipient for future use. If the phone and/or email contents were entered manually, the directions will indicate that a new recipient can be created using the contents of the two fields. If a recipient was chosen from already saved recipients using the dropdown, the directions will then indicate that checking the box will update this recipient's information with any changes made in the fields. The creating and updating of the recipient will take place when the form is submitted.

The **Choose recipient** dropdown contains a list of existing recipients (either those that have been entered as recipients before or those from an uploaded list.) Selecting a recipient from the drop down populates the subsequent email and mobile phone fields with that recipient's information. Doing this replaces any information already in the two fields. Selecting another recipient also replaces the information with this newly selected recipient's information.

The default Message Type is titled "**For Patients**" ⑥ and is a generic template for any type of patient. It assumes the message contains Images and other data of the recipient himself/herself.

The bottom half of the Send Study screen contains a Message Text ⁷ area for typing a personal message. This message is what the recipient will receive as part of the email or mobile message sent with the Study. When this field is left blank, the Study will be sent with no personal message.

To send the selected Images and message to the intended recipient, the User then clicks the **Send Study** button at the bottom left ⁸. If the phone number or email address has already been entered in the imaging device it can be loaded by clicking on **Load from DICOM** button ⁹.

Password-Protected Patient Links

Clinic administrators can enable password/access code protection across all links shared with clinic patients. This will retroactively affect all previously sent links and all links sent in the future.

Enabling universal protection for all shared patient links can be done by checking a single box within the Clinic Profile under **General Settings**, after clicking the Settings cog at lower left in Tricefy. An access code will be generated by the system and provided to each recipient alongside the link to the shared Landing Zone.

Development Clinic ▼

General Settings

- Clinic Profile**
- Members and Privileges
- Address Book
- Report Templates
- Integrations

DICOM Settings

- Managing Modalities
- Tricefy Uplinks
- Automation Rules
- Anonymization
- Study Labels
- Filename Customization
- Uploads Log

Branding

- Image Branding
- Message Branding

Statistics

Overview

Clinic Profile

Public Information

Clinic Name
Development Clinic

Sharing Name
dev

Public Contact Email Address
development@tricefy.com

Language Used In External Communication

Language choice for emails, text messages and landing pages for this Clinic
Svenska

Patient Link Customization

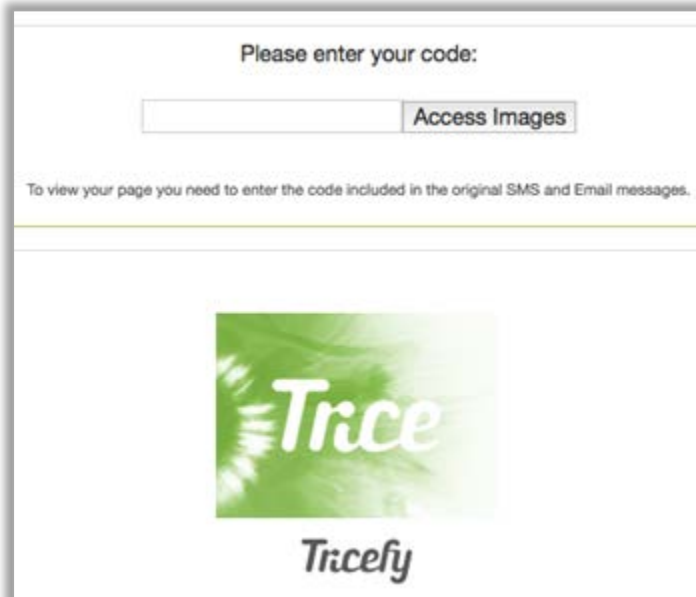
Require access code to view images. ☐

Save

Patients and visitors that are directed to any password-protected Landing Zone shared by the clinic will need to enter an access code and click an **Access Images** button. They will receive the individualized access code, which was randomly generated by the system, within the text or email received when the study was originally shared. A lost access code cannot be recovered. A new share would need to be generated in the event that a patient loses an access code.

The message includes the following language:

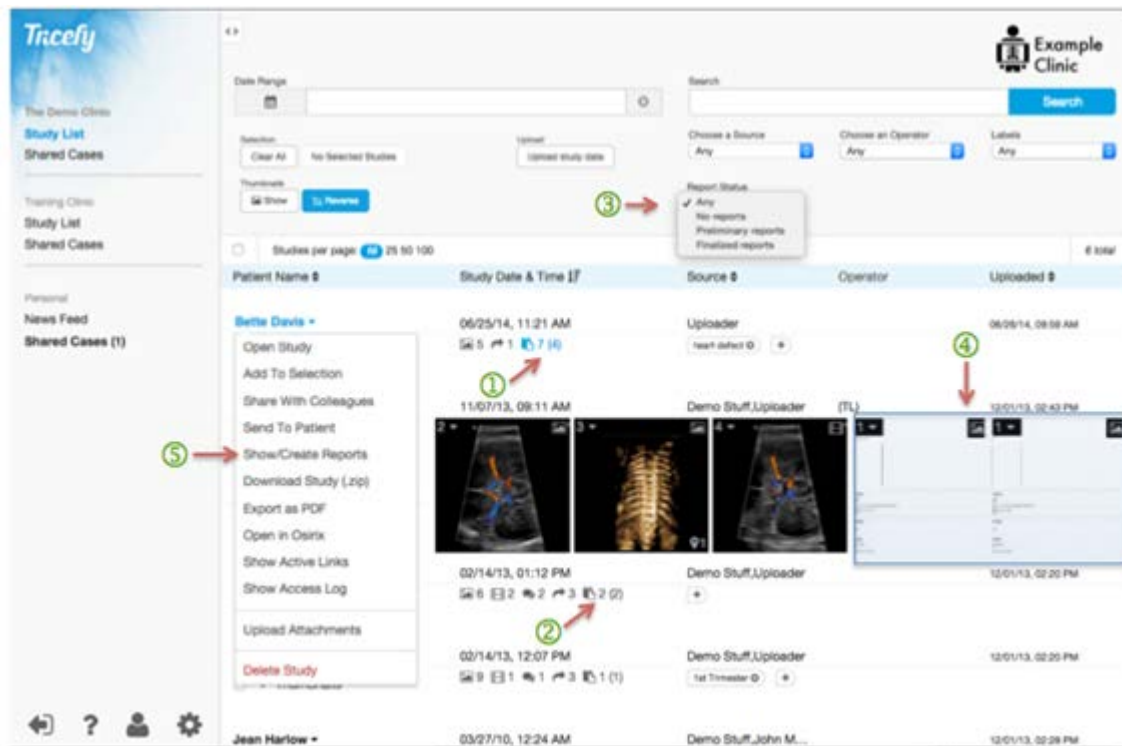
“This is a secure and unique link. The images can only be accessed via this link, which will be automatically deleted after 90 days. If you want access to these images in the future you will need to save them to your device. Please note: these images are not for medical purposes and you are responsible for the security and distribution of your images from this point forward.”




The screenshot shows a web interface for accessing images. At the top, it says "Please enter your code:". Below this is a text input field and a button labeled "Access Images". Underneath the input field, a message states: "To view your page you need to enter the code included in the original SMS and Email messages." A horizontal line separates this section from the bottom part of the page. The bottom part features a large green square logo with the word "Trice" in white script, and below it, the word "Tricefy" in a smaller, black, sans-serif font.

REPORTING

After exams are uploaded to Tricefy, Users can login to create a Report using existing templates or create a new template for that type of exam. Tricefy includes functionality that allows Users to organize the information of a study into a finalized, templated Report PDF that becomes a read-only file associated with the study and can be printed, downloaded or shared like any other image in a study.



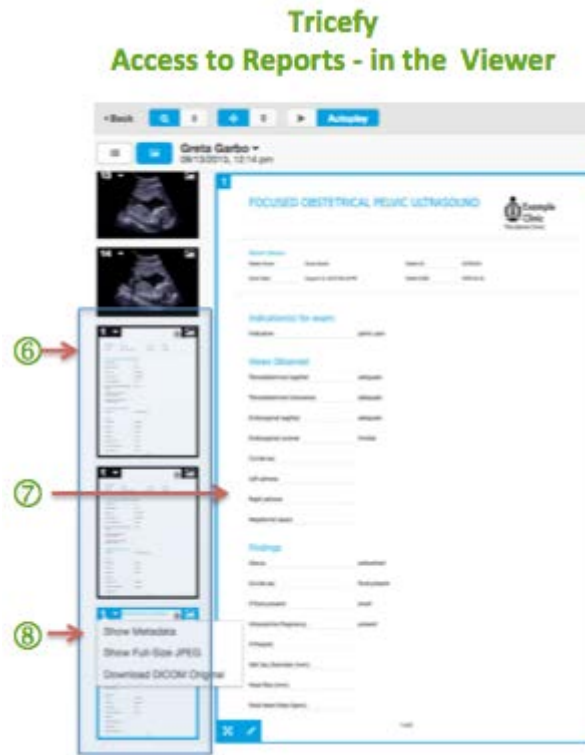
When a Study includes associated Reports there will be a document Icon next to the other Icons within the Study list item ( 8 (7)) ①. The number outside of parentheses on the left (in this case 8) is the total number of Reports that have been generated for this study. The number inside parentheses is the number of studies that are final (in this case 7) out of the total. Both the icon and the numbers remain blue until all Reports are finalized, when they will then turn black ②.

Clicking blue or black Reporting icons and numbers display the [Show/Create Reports](#) page.

Filtering the entire Study List and prioritizing studies that include Reports can be done using the **Report Status** drop-down filter ③ at the top of the page. The functionality defaults to **Any** but can be switched to include only studies with **No Reports**, only those with any **Preliminary Reports** or only those with any **Finalized Reports**.

Finalized Reports appear within the slider of thumbnails for Studies that have them^④.
Selecting **Show/Create Reports**^⑤ within the Study Action drop-down list from any single study will open a new page where Reports for that patient are listed and new Reports can be created.

Clicking a Report thumbnail will open it within the Tricefy Viewer:



Additionally, within the Viewer, Reports appear as part of the thumbnail list^⑥ or within the main part of the Viewer^⑦ when selected. Whether in the Study List or in the Viewer, clicking on the number in the upper left of a Report thumbnail will provide the User the option to **Show Metadata**, **Show Full-Size JPEG** or **Download DICOM Original**^⑧.

Accessing Reports

The **Show/Create Reports** screen begins with study identifiers including **Patient Name** the **Study Date** time stamp and the name of the **Referring Physician**, if there is one ①. Though the Report table can be filtered by Reports in a given status to show **All** reports, just those that are **Preliminary** or just those that are **Finalized** using the **Showing...** dropdown ② above the headers.

Similar to the Study List, further sorting of the Report list by **Template** type, **Collaborators**, **Started**, **Updated**, and **Finalized By** can be accomplished by clicking on the list headers ③. Clicking on any of the headers multiple times will toggle the priority from ascending to descending either alphabetically or by time stamp.

Reports that are **Finalized** are denoted by a green checkmark and the presence of a value in the **Finalized By** column. Reports that are **Preliminary** are denoted by an open circle at left ④. Clicking the title of a Finalized Report will open the PDF that was generated for the Report.

- If a user clicks this record before finalization is complete they will be shown a spinner that will continue to retry for 60 seconds. If 60 seconds passes and the Report PDF is still not found, a message to try again later will be displayed.
- Clicking the title of a **Preliminary** Report will open a page that will allow for the editing of Report elements and the opportunity to **Finalize** it. When the **Finalize** button is selected, a gate-keeping dialogue box warns the User *"You are about to finalize this Report. Please note that once the Report is finalized the Report cannot be*

changed.” Once a User is certain the data input is correct they have the option of clicking **Finalize** or **Cancel**.

Reports that are **Finalized** cannot be deleted. However, the red trashcan to the right of any Preliminary Report allows it to be deleted.

The functionality that allows users to create Reports is detailed in the [Creating Reports](#) section of this document, which can be accessed by clicking **New Report from Template** ⑤.

There is also a **Manage Templates** button ⑥ on the **Show/Create Reports** page, which takes the User to a Template Management view where new templates can be created, existing templates can be copied or deleted.

Managing Report Templates

The screenshot shows the 'Report Templates' management interface. On the left is a sidebar with navigation links: General Settings, Clinic Profile, Members and Privileges, Address Book, Report Templates (highlighted with a red arrow and callout 1), Integrations, DICOM Settings, Managing Modalities, Automation Rules, Anonymization, Study Labels, Filename Customization, Uploads Log, Branding, Image Branding, Message Branding, Statistics, and Overview. The main area is titled 'Report Templates' and contains a table of templates. At the top of the table are buttons for '+ New Template' and 'New Template from Preset' (with a dropdown menu shown, containing options like 'F FOCUSED Non-Obstetric PELVIC ULTRASOUND', 'F Intussusception Report', 'F FOCUSED ABDOMINAL AORTA', and 'F FOCUSED OBSTETRICAL PELVIC ULTRASOUND'). The table has columns for 'Template Name' and 'Last Updated'. Each row has icons for editing (pencil) and deleting (trashcan) on the right. Numbered callouts are: 1 points to 'Report Templates' in the sidebar; 2 points to the edit/pencil icon; 3 points to the delete/trashcan icon; 4 points to a template row; 5 points to the 'New Template from Preset' dropdown; 6 points to the 'Manage Templates' button in the sidebar.

Template Name	Last Updated
Intussusception Report	11/21/2014, 04:21 pm
Copy of Template Name	11/26/2014, 10:04 am
Copy of Intussusception Report	11/26/2014, 11:01 am
FOCUSED Non-Obstetric PELVIC ULTRASOUND	11/20/2014, 09:59 am
Intussusception Report	11/21/2014, 04:05 pm
Copy of FOCUSED Non-Obstetric PELVIC ULTRASOUND	11/21/2014, 04:04 pm
FOCUSED Non-Obstetric PELVIC ULTRASOUND	11/21/2014, 04:05 pm
Copy of FOCUSED Non-Obstetric PELVIC ULTRASOUND	11/21/2014, 04:20 pm
FOCUSED Non-Obstetric PELVIC ULTRASOUND	11/26/2014, 10:37 am
Copy of Intussusception Report	11/26/2014, 11:02 am

The **Manage Templates** page, accessible from the **Show/Create Reports** page or under **General Settings** ①, provides any clinic member the tools to create new templates for formatting future Reports. These templates can be made from scratch using Tricefy tools or by copying and editing templates already existing in Tricefy.

The Report Templates grid includes a list of templates and a time stamp (localized to the User’s time zone) indicating when a template was last updated. Buttons to the right of each template row include icons for copying or deleting an existing template ②.

Editing an Existing Template created by the Clinic

For editing portions and then overwriting an existing template, the name of a template within the list can be clicked to enter the Template Editor. Additionally, an edit pencil icon will appear when hovering over the row of an existing template ③. Changes can

either be **Saved** or **Canceled** within the Template Editor and then the latest version of the edited template will be in the list of available templates on the **Manage Templates** screen and time stamped to show when the last update was made.

Copying an Existing Template

If a User wishes to work with a template already in use by the Clinic but not edit/overwrite it, a duplicate of the template must be created first. This can be done by clicking the copy icon to the right of the template name, which will add a “**Copy of [template name]**” to the bottom of the list ④. From here the template can be opened, renamed and modified as need be using the Template Editor.

Creating a New Template using Preset Templates

Industry standard templates can be copied and customized from the Manage Reports page. Clicking the **New Template from Preset** button ⑤ provides a dropdown of standardized Report templates from accredited industry organizations. When a selection is made the User is taken to the Template Editor screen to make and **Save Changes** starting with the preset template as the structure. The template that the User creates and saves becomes a new template option in the **New Report from Template** dropdown on the **Show/Create Reports** screen.

Creating a New Template using Tricefy Report Elements

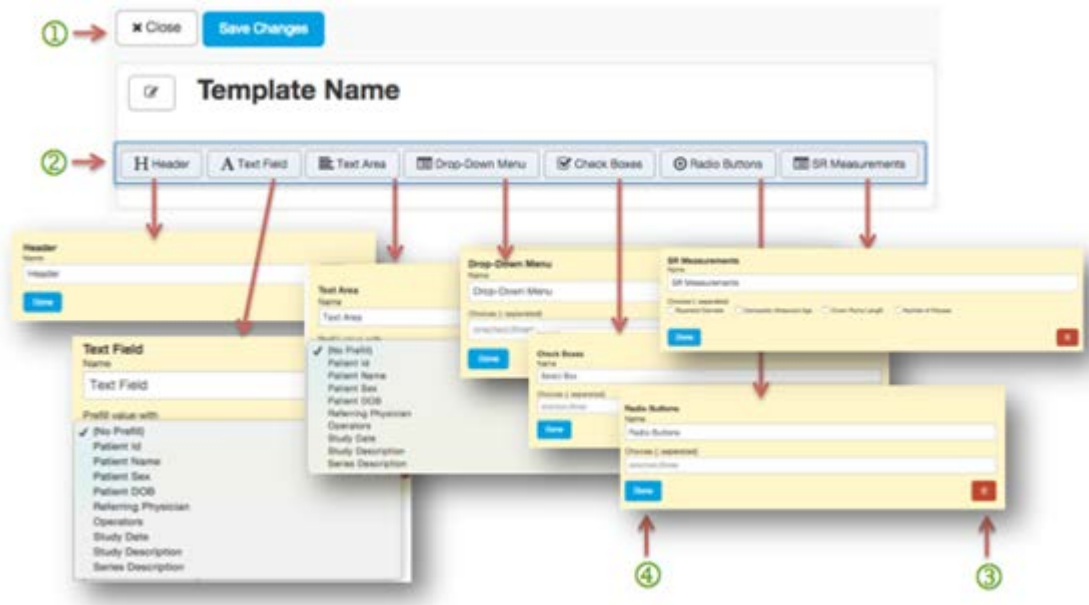
Clicking **+ New Template** on the **Manage Reports** screen allows Users to create a custom Report template from scratch by combining and editing element options provided by Tricefy ⑥.

Creating Reports – The Report Template Editor

Templates are reusable custom forms that are used to fill in reports. Before any Reports can be generated for a clinic, a template must be created within the Tricefy account, as described in the [Manage Templates](#) section.

Templates are managed under **Report Templates** of the clinic account settings (available for Administrators only). Here, all Templates associated with the Clinic’s account can be viewed, edited, created, copied or deleted.

The Template Editor serves as the means to customize templates before they are used in Reports. To enter the Template Editor and create a brand New Template, a User clicks the **+ New Template** button on the Report Templates Main Page. Templates can also be managed through the **Show/Create Report** area, which is accessed through individual Study Action drop down lists in the Study List.



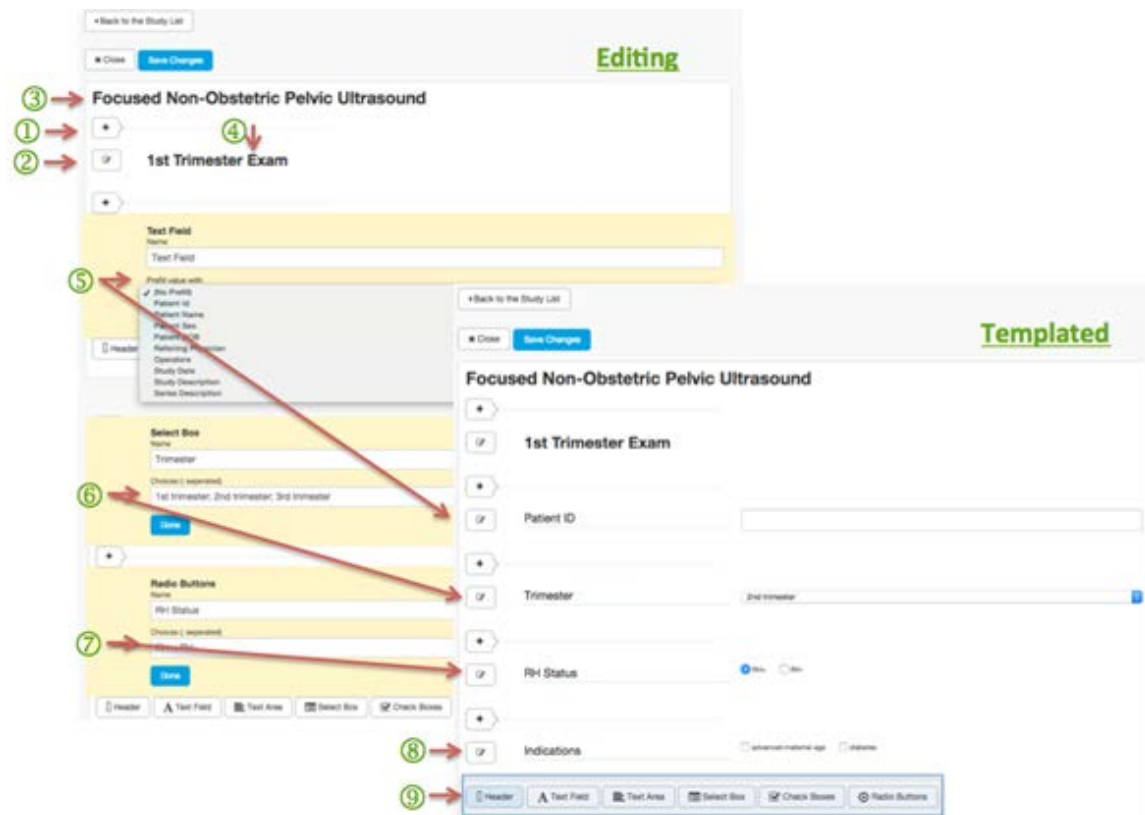
When a User is finished with the Template Editor any changes made to a template can be saved by clicking the **Save Changes** button or the screen can be closed by clicking the **X Close** button, which will discard any unsaved changes^①.

Form elements within the Template Editor, including **Header**, **Text Field**, **Text Area**, **Drop-Down Menu**, **Check Boxes**, **Radio Buttons**, and **SR Measurements**^②, can be added to the template by clicking the corresponding button. Once added, each element will be placed within the form in edit mode and in order of how they were entered, but sections can be “drag-and-drop” rearranged at any time.

Elements have slightly varying edit options based on the type of form element they represent. Text Fields and Text Areas have the option of pointing to a DICOM field to attempt to prefill data when the Report is created from a Study. Elements that require multiple-choice options (drop-down Menus, check boxes and radio buttons) can be entered as comma separated lists. All elements have a red trashcan delete button^③ for canceling edits and removing the element. All elements also have a **Done** button^④ for completing and saving the section within the Template Editor.

The overall **X Close** and **Save Changes** buttons^① at the very top of the Template Editor affect the saving or discarding of the entire template. Clicking the **Back to the Study List** button will take the User back to the main Study List for the clinic.

Elements can be customized when in **edit mode** of the Template Editor:

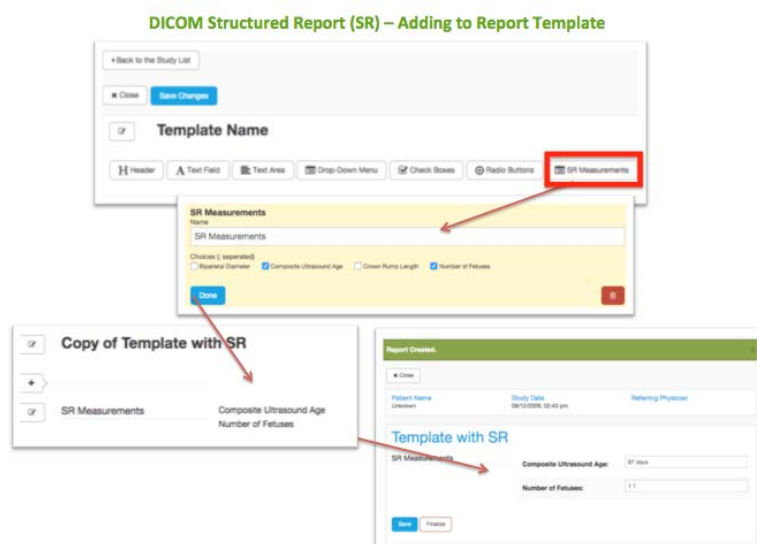


After the Template Name is created, **Element edit mode** is started by clicking an element button (such as “Header,”) After this, inserting a new element above an area can be accomplished by clicking the Element Insert button + ① or by clicking the edit icon ② next to an existing element.

Generally – the elements are meant to help organize the following types of information:

1. **Template Name** ③: A Template Name should be something unique that will be understandable by all clinic members and Report readers. Template Name can be entered or edited by clicking on the words “**Template Name**,” or the edit icon to the left of the “Template Name,” or a Name that has already been entered. Clicking **Done** or hitting **Return/Enter** on a keyboard while the cursor is still in the text input will complete the edit.
2. **Header** ④: Delineates a section of Reported information like “Indication.” This is edited in the same fashion as all other elements using the fill-in box then clicking **Return/Enter** on the keyboard or the **Done** or **Delete** buttons.
3. **Text Field** ⑤: This element presents a drop down of DICOM data taken at exams (ex: Patient ID, Patient Name, etc.) Whichever DICOM data is selected from the drop-down is pulled from DICOM images and will prefill from study data. The text that is entered in the fill-in box above the drop down appears on the Report next to a blank fill-in box for User input so it should be descriptive to the data.

4. **Text Area:** This element is similar to “Text Field” but can accommodate longer paragraphs and be used for a summary, etc.
5. **Drop-Down Menu** ⑥: This element creates a drop down of customized text options. Users must enter each choice separated by semicolons (“;”) to supply the options as they will appear in the Report Template. Report creators will then be able to choose one selection at a time for choices like “1st Trimester,” “2nd Trimester” or “3rd Trimester.”
6. **Check Boxes** ⑦: This element creates a series of check boxes that are made from customized text as entered by the Template creator. Each choice must be entered and separated from subsequent choices by semicolons (“;”). Report creators will then be able to choose multiple selections at a time for yes-or-no options, like “Advanced maternal age,” and “diabetes.”
7. **Radio Buttons** ⑧: This element creates a series of radio button boxes that are customized text as entered by the Template creator. Each choice must be entered and separated from subsequent choices by semicolons (“;”). The forces the Report creator to make only have one selection at a time – for example: “Seen,” “Not seen,” or “Sub-optimal.”
8. **SR Measurements** ⑨: This element will add SR Measurements to a template, which will then cause the data to automatically populate in Tricefy reports when available. Measurements performed during any ultrasound exam that is transmitted to Tricefy are sent and saved as a DICOM SR file. Measurement data will vary based on the examination, the model and configuration of the ultrasound machine but typically contain raw measurements, means and averages and also calculations specific to particular types of examinations (such as fetal age and other data applicable to obstetric ultrasound.) Based upon the most recent SR files associated with the clinic in Tricefy, the types of measurements (e.g. crown rump length, composite ultrasound age) are shown as a list of checkboxes that can be selected for inclusion in a report template. To dynamically add to the list, additional SR files would need to be sent.



9. **New Element Row** ⑨: The full list of Report Element options always appears after the last element in Edit mode. Clicking any of the buttons will pull open the dialogue box of that element for customization.

If a Report template is later altered it will not affect nor update any Reports previously created using that template. Only what is selected is shown on the finalized Report.

Preliminary Reports

When a User opens a Report that is still has **Preliminary/Not Finalized** status they are brought to the Report view where any of the provided form fields can be completed.

① → Close without saving

② → Patient Name, Study Date, Referring Physician

③ → FOCUSED Non-Obstetric PELVIC ULTRASOUND

④ → Save, Print

The head of the Report includes Study Identifiers such as Patient Name, Study Date and Referring Physician ①.

The Template Name appears next, as chosen by the creator of the template that was used for this Report ②.

Form fields, for example Checkboxes for **Indication(s) for exam**, radio buttons for **Views Obtained**, or a text field for **Open**, appear in the order in which the template creator placed them.

If measurements are included and a report template includes a query for them, a set of fields with pre-populated values from the exam will appear when a report is created. Any measurements that are sent but are “extra” to the parameters of the template will not appear in a Report generated by that template.

If a prepared template queries for measurements that do not come over in the data of a study, open text boxes will appear and data can then be entered manually or left blank. The User always has final control over the contents of the report ③.

When the user has completed the review and/or edit of the Report they have three buttons from which to choose ④. At the top of the Report is a **Close without Saving** button for discarding any unsaved changes.

At the bottom, **Save** should be clicked when the User wants to store the information they've entered in the template but not finalize the Report. The User can choose **Finalize** to lock the Report and begin the finalization process, which leads to archiving the Report in its final, read-only PDF form. The final report becomes part of the final DICOM dataset and it is included when the study is shared or exported.

Finalizing a Report cannot be undone so the User is met with a gate-keeping dialogue box, which warns the User, *"You are about to finalize this Report. Please note that once the Report is finalized the Report cannot be changed."*

Finalizing Reports

Reports that have been chosen from the list within the **Show/Create Reports** area of a particular study can be Finalized by clicking **Finalize** at the bottom of a Preliminary Report review/edit screen.

The screenshot shows a medical report form titled "FOCUSED OBSTETRICAL PELVIC ULTRASOUND" from "Example Clinic". The form includes sections for patient details, indications, views obtained, findings, and interpretation. Red arrows with numbers 1 through 4 highlight key elements: 1 points to the title, 2 points to the patient details section, 3 points to the main content area, and 4 points to the footer section which includes "Finalized by", "Generated by", and the Tricefy logo.

The Template Name^① and Clinic logo appear at the top. These are followed by Patient Identifiers such as **Patient Name**, **Exam Date**, **Patient ID**, and **Patient DOB**^②. Next appear Report Elements in the order in which they were placed within the Template that created the Report^③. The Report contains a Footer noting the name of the User that finalized the Report and the timestamp of that occasion under **Finalized by**. Next is listed the name of the User who prepared the Report for PDF and then the Tricefy logo appears under **Generated by** to indicate that Tricefy generated the Report^④.

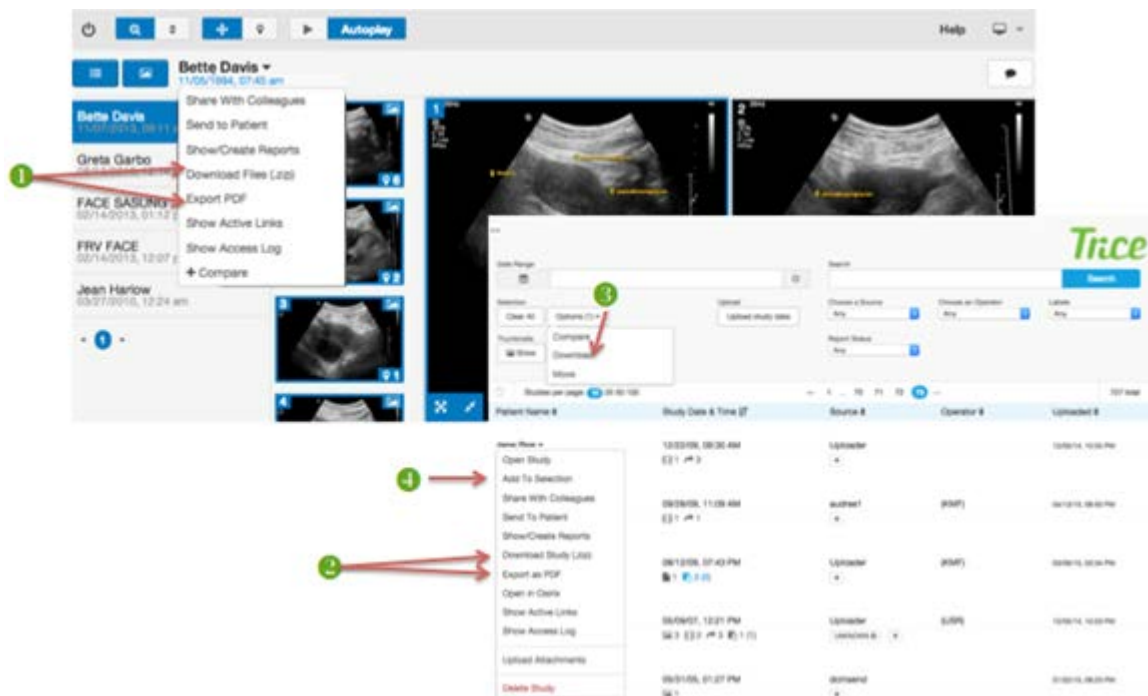
STUDY ACTION LIST

Users can find a complete set of tools for moving and managing Studies within the Study Action List drop down, which can be found by clicking the Study (Patient) Name within the Study List. [Share with Colleagues](#), [Sent to Patient](#), and [Show/Create Reports](#) are detailed in other sections of this document.

Downloading Studies – Download Study (.zip)

Users can select a single study or several for Download using several tools which make it easy to export large quantities of PDF summaries and DICOM studies, streamlining the process of importing data to an EMR or imaging software.

- See the **Study Selection** section within the [Study List Selection and Upload Areas](#) of this document for further information on how to select studies.



Whenever studies are selected, the **Download Study (.zip)** and **Export as PDF** options are available in the drop down within the Study Viewer **1** and in the drop down within the Study List **2**. Above the Study List a single **Download** button appears and leads Users to DICOM, PDF and JPG/MP4 export options within a dialogue box. T

- This feature is described further in the **Download** portion of the [Study List Selection Area](#) section in this document **3**.

In each case, Users may opt to **Wait for Download** (a progress bar will appear) or opt for the Tricefy Service to **Email me when available**, which will be an email containing a direct link to the data when the download has completed.

Once saved to a preferred destination, importing this data to an EMR or imaging software is typically accomplished with a simple file import function within the systems.

Open in Osirix

The seventh option in the Study Action List drop down is an **Open in Osirix** function, which uses an integration feature to download the entire screen contents directly into the database of the Osirix DICOM Viewer and *is only visible* if the User is on a device that can run the Osirix DICOM Viewer application. These include Mac OS computers or Apple iOS devices. It is not possible to detect if Osirix is actually installed but clicking this button on a device without Osirix installed will simply do nothing.

Show Active Links

The eighth option in the Study Action List drop down is the **Show ## Active Links** function (where ## is replaced by the actual number of Active Links pertaining to the Study.) Studies that have been Sent to Patients from the modality or through the Tricefy System (but not those shared with colleagues) include links to the Study Images that are kept accessible for a specific duration (usually three months.)

Tricefy

⑤ → Back

③ → 1 2 →

① → **Active Links of Bette Davis on November 07, 2013 04:11 PM**

② →

Link ID	Expires in	on	Pageviews	Last Viewed	Template Used	④ →
k1gvkcg6v6g	about 25 years	February 06, 2039 04:38 PM	0	no data	doctor	🗑️
5e0v3bd7pyq2	almost 25 years	January 28, 2039 11:57 PM	0	no data	doctor	🗑️
cdzvrq1vwmn	almost 25 years	January 28, 2039 11:57 PM	0	no data	doctor	🗑️
fgdremjzwjhb	almost 25 years	January 21, 2039 06:16 PM	0	no data	doctor	🗑️
0r86xmaf5x5r	almost 25 years	January 15, 2039 03:33 PM	0	no data	doctor	🗑️
majd8z8pzq6e	almost 25 years	January 15, 2039 03:33 PM	0	no data	doctor	🗑️
q7permybb01	about 1 month	April 02, 2014 04:45 PM	4	about 1 month	mobilebaby	🗑️
0m1sramtwz	about 1 month	March 30, 2014 03:07 PM	0	no data	mobilebaby	🗑️
aevmj73dd1qp	about 1 month	March 30, 2014 06:06 PM	0	no data	mobilebaby	🗑️
m0whganje8xh	about 1 month	March 13, 2014 06:50 PM	0	no data	doctor	🗑️

③ → 1 2 →

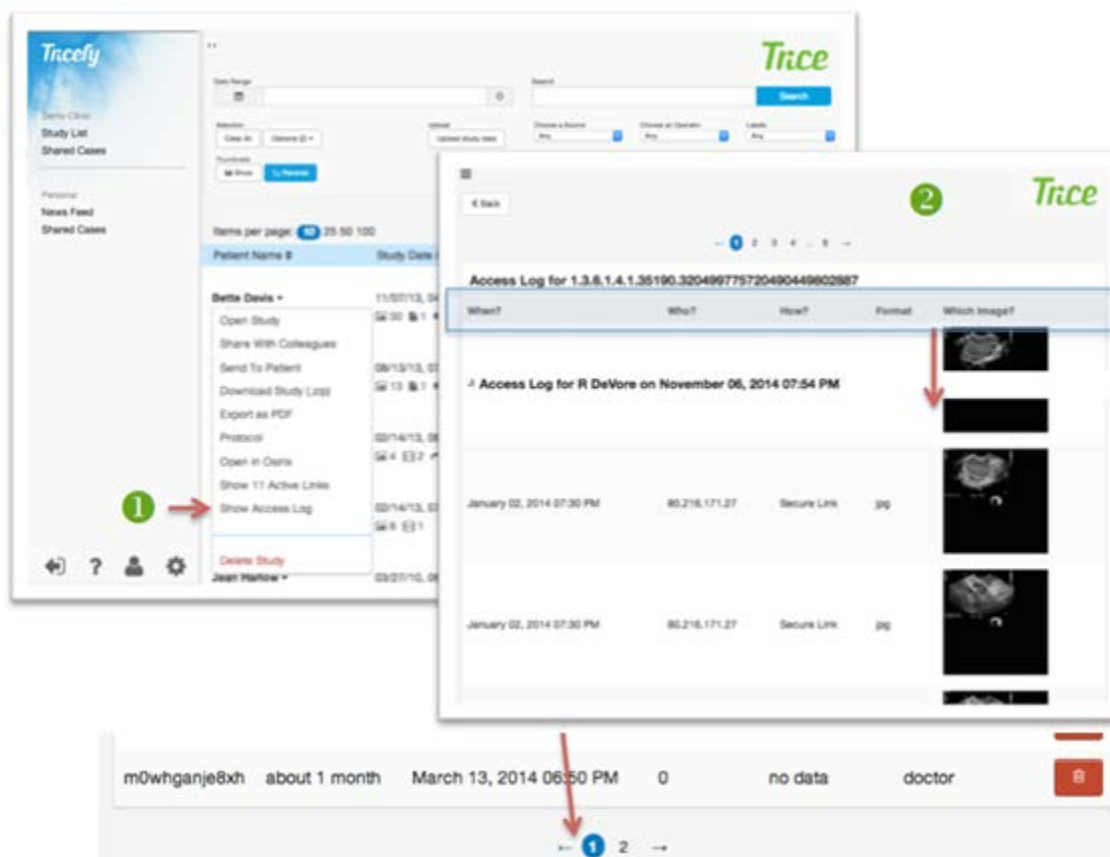
The **Active Links** screen details how many links that were shared are still Active for each specific study up to a particular date – written out as, for example “*Active Links of Bette Davis on November 07, 2013 04:11 PM*” ①. Each record indicates when any file was sent out of the system and made active for viewing.

- Clicking on a record (**Link ID**) will take the User to the actual shared data, live in its Landing Zone.

Columns indicate the Link ID, when it **Expires In** and the date that will be “on” as well as **Page Views** of that Link ID, when it was **Last Viewed** and which was the **Template Used** ②. The list is paginated at the top and bottom ③ and each line (any Link ID) can be deleted by clicking the Trashcan Icon at the far right of the screen ④. The **Back** button ⑤ will return the User to the Study List.

Show Access Log

The second to last option in the Study Action List drop down is the **Show Access Log** function, which connects the User to the Access Logs of each individual Study that has been sent to Patients (not medical staff):



This activity may also be viewed at any time by selecting the study of interest from the Study List and pulling down the menu to **Show Access Log** ①. The log includes **When** (marked by a timestamp), by **Whom** (the IP address of the device that viewed the data e.g. 80.216.171.27,) **How** (e.g. “Secure Link”), **Format** (e.g. “jpg”), and which **Image** (a Thumbnail of the actual Image or cine clip) ② were accessed in a paginated list of single rows. The rows are sorted by date of access, with the most recent at the top. Every time an image is accessed within a Clinic's Account, a record is formed. A **Back** button returns the User to the screen from which they accessed the Access Log.

Upload Attachments

Tracify

◀ Back

Upload an attachment to this study

File
Choose Files No file chosen
Upload and attach (3)

Include in a specific series
Create a new one

Exam Date : 1994-11-05 13:45:00 UTC ⓘ

Anonymized
Patient ID: unknown-999.999.2.19941105.134500
Patient DOB: 1970-01-01

Existing Attachments

Filename	Uploaded by	Uploaded on	Updated	Addition Status	Addition Actions
study pin 141121.png	Wilson Gottschild	21 Nov 06:27 PM	21 Nov 06:27 PM	stored	Reprocess

The final option in the Study Action List drop down is an Upload Attachments function, which allows the User to select and upload ① files (PDFs, images, etc.) that will then be converted into DICOM and associated with a specific study.

Uploaded files will appear in the thumbnail view within each Study and within the Viewer.

On the **Upload Attachment** page, the user can verify that the correct Study is being accessed ③, and also decide if an uploaded file should be included in a specific series or create a new one using the drop-down list ②.

Details on the uploaded attachment, and any other Existing Attachments associated with a Study, are detailed at the bottom of the screen ④. This information includes:

- File name
- Uploaded by timestamp
- Updated date
- **Addition Status** (either “Processing,” “Pending” or “Stored”)
- **Reprocess** option (for if an error is reported)

The **Back** button will return the User to the Study List.

TRICEFY DICOM VIEWER

After logging in on the Tricefy Login screen, Users can access the Tricefy Viewer by clicking the **Open Study** button from the Study Title -down menu in the Study List, by clicking a Thumbnail image beneath any study in the Study List or an Open Case. The Viewer contains a Toolbar, Button Area and Content Area, which includes the Study List, Study Thumbnails, Image Gallery, and a Comments section. Each of these areas will be covered in detail below.



DICOM Viewer Toolbar/ Heading Area

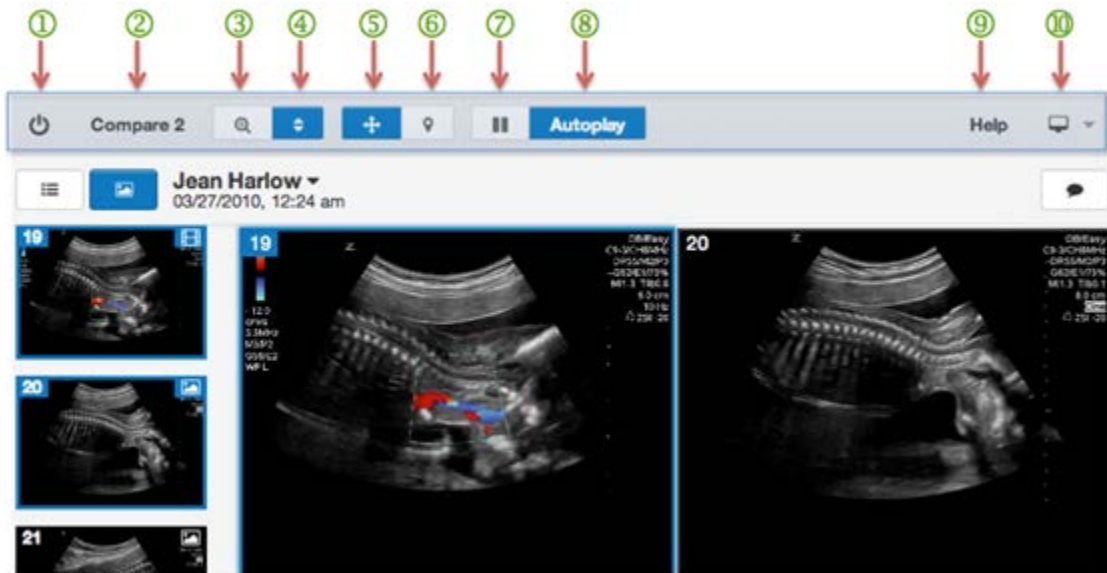
There are several tools at the top of the screen that add functionality to the Viewer:

- The **Power** button enables the User to navigate between the Study List and the Viewer.
- The **Compare, Zoom, Scroll, Pan, Pin, Play/Pause** and **Auto-play** icons enable the User to review and mark Study elements.

An active function (an icon that has been toggled on) will appear highlighted in blue.

An inactive function (an icon that has not been selected or toggled off) will appear with a white background.

The toolbar buttons are explained on Pages 62-66.

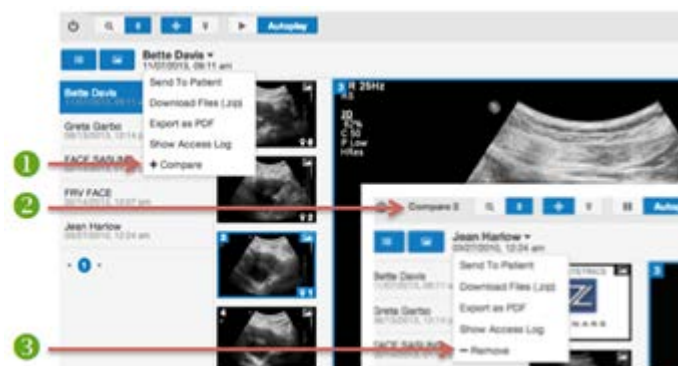


① Power Button

Clicking the upper leftmost **Power** icon closes the DICOM viewer and returns the User to the standard Study List. Any filtering that had been applied will remain in the cache and the Study List will appear as it was before the User accessed the Viewer. The User will need to hit **Open Study** to return to the enhanced Study List.

② Compare

The Compare button is a feature that can only be activated when within the Viewer. It will not appear until Studies have been selected for comparison.



Users may select an unlimited amount (as many as will fit on the screen) of Studies from the Study List to compare side-by-side by clicking the **+Compare** button ① within the Study Title drop down of individual Studies.

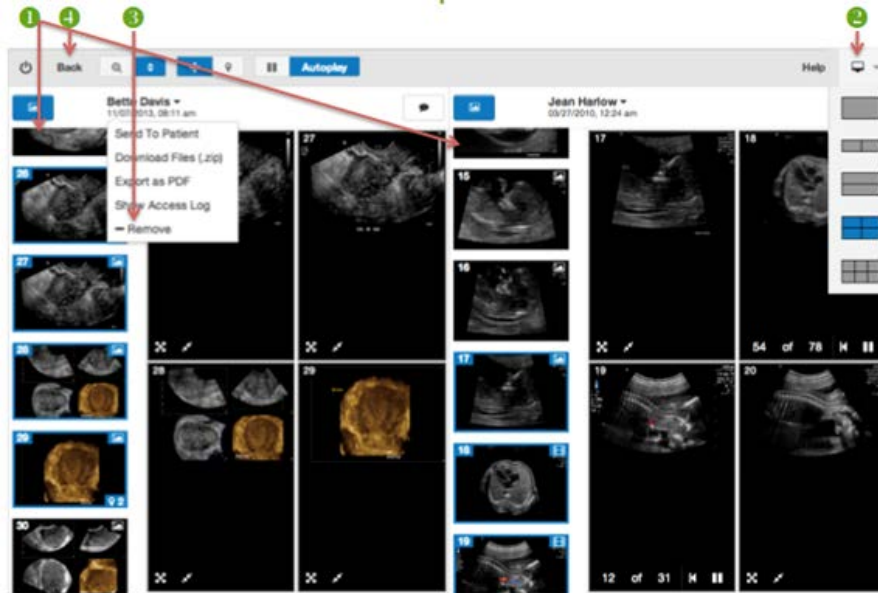
- Further studies can be added in the same manner.

Once selections are chosen the **Compare** button will show the number of Studies selected for comparison as **Compare # 2** in the Viewer Toolbar. Clicking **Compare #** will populate the screen with the selected images appearing within the gallery side by side.


In the Menu, the **+Compare** button of Studies is replaced with **-Remove 3**. If a User wishes to eliminate a Study from the comparison set, the **- Remove** button may be clicked.

Compare Function

In the Viewer, Studies that are selected for comparison (from the Study List) and their Image Gallery will be resized so that all Studies selected for comparison are live in the browser window at the same time.



An independently scrollable column of all **1** Thumbnails associated with each Study appears to the left of each Study in the comparison Viewer. Any single frame of the Thumbnail Images from each Study can be clicked so that side-by-side comparisons can be made between Studies. Though single Images can be selected for comparison, the entire Study that surrounds it will also populate the gallery and Thumbnails. Any cine clips will adhere to the **Auto-play** or **Pause** choice the User has selected in the Toolbar. Information on those functions is detailed further down in this same section.

Users control the number of Images presented in the Viewer using the **2 Image Gallery** preference tool (monitor icon ) in the upper-right hand side of the Viewer Screen. Whichever Image Gallery format is chosen will apply to all Studies being compared and will default to the last setting if the User leaves and returns to the Viewer. Information on the Image Gallery display function is detailed further down in this same section.

To change which Studies appear in the comparison, a User must actively deselect any already selected Study by clicking on the **Study Title drop-down Menu** and selecting the - **Remove** button of the individual Study or hitting the **Back** button, clicking on the Study from the Study List and selecting - **Remove** from the Study Action List drop down Menu. The - **Remove** ③ option in the Study Title drop down immediately removes the additional study from comparison without leaving the Viewer. If the User is in the Compare screen and removes all studies selected for comparison, a message will appear reading “No studies to compare. You can compare studies side by side by clicking the +compare button.”

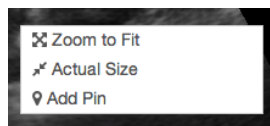
Hitting the **Back** button ④ acts as a standard Back button and will undo a removal, return the User to the previous comparison set-up or all the way back to the beginning of the comparison selection process.

Clicking the **Compare #** button while already viewing a comparison simply reloads the Viewer screen.


③ Zoom Icon

When the **Zoom** Icon (🔍) is toggled on (highlighted as blue,) any Image or Cine Clip that the User hovers over with their mouse can be zoomed in or out by a User’s mouse scroll feature. Double clicking an Image when the **Zoom** icon is toggled on will cause the Viewer to place that Image into a 1-up Gallery view. Images that have been zoomed will reset to 100% if a User exits the Viewer and returns to the same Study. Any zooming of Images can be reset to the full-frame, centered default by clicking the **Zoom** Icon (🖼️) in the lower left-hand corner of the Image, even when the Zoom Icon has not been toggled to on. Similarly, the **Actual Size** Icon (📏) can return the Image to its original size and view, regardless of the size of the browser window. **Actual Size** and **Zoom to Fit** icons control these functions within individual image frames.

The keyboard shortcut for zooming is detailed in the **Help** section and involves the User holding “Shift” and “Z” at the same time. Right clicking with a mouse while on a single Image will provide the User access to the **Zoom to Fit**, **Actual Size** and **Add Pin Tools**.




④ Scroll Icon


When the **Scroll** Icon () is toggled on (highlighted as blue) at the top of the Viewer screen, Users can scroll through the Images, Cine Clips and other files associated with a Study in either the Thumbnail Gallery or the Image Gallery. Scrolling is activated by the User's mouse scroll feature when hovering over the area the User would like to browse. The active files (those appearing in the Image Gallery windows) will appear as highlighted with a blue box in the Thumbnail Gallery. Scrolling can be performed on any file included within a Study.

Scrolling can also be performed on any of the Galleries when multiple Studies are being compared. Galleries that have been scrolled will reset to the default order of files if a User exits the Viewer and returns to the same Study or comparison. The Image Gallery will size to the width of the browser window, studies cannot be scrolled left to right as they are right-sized to the browser width.

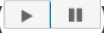


⑤ Pan Icon

When the **Pan** Icon () is toggled on (highlighted as blue), Users can pan an Image or Cine Clip (side to side and/or up and down) by clicking and holding down the left mouse button. Files that have been panned will reset to the default view of the file if a User exits the Viewer and returns to the same Study or comparison.

⑥ Pin Icon


When the **Pin** Icon () is toggled on (highlighted as blue,) Users can place a Pin on an Image or Cine Clip to call attention to an area of an Image. The Pins will be color coded by User, have a time and date stamp of when they were placed, (which appear when the Pin is hovered over,) and allow the User to type a comment associated with the Pin. Creators of Pins have the ability to edit or delete their own Pins but can't make changes to other Users' Pins. The placement of Pins will be cached and they will remain in place as part of the Study even if a User exits the Viewer and returns to the same Study or comparison.

⑦ Play/Pause Icon

When the **Play/Pause** Icon () is toggled it remains white. Users can play or pause all Cine Clips contained in the Study or comparison simultaneously. Users can also control individual Cine Clips using the playback tools available on each Cine Clip. Users can control playback of Cine Clips frame-by-frame using the toolbar that appears within the Image Gallery cell: . This toolbar will highlight as blue when activated individually: . This includes a **Play/Pause** Icon, frame advancer and frame reverser as well as the total number of frames and count of each frame as, for example, "12 of 13."

If there are no Cine Clips within a Study, the **Play/Pause** Icon button in the Toolbar will have no effect.

⑧ Auto-play Icon

When the **Auto-play** button () is toggled on (highlighted as blue,) all Cine Clips in the Study or comparison will start to play automatically when they are opened in the Viewer. When it is toggled off, Cine Clip playback can be started by selecting **Auto-play** or **Play/Pause** Icons in the Toolbar or by using the **Play/Pause** tools in individual cine clip frames.









⑨ Help

The **Help** button at the top right of the screen contains a text description of the help mechanisms available. It has no interactive elements and is simply informative. The pop-up **Help** box contains the following text:


“Welcome. To the left is a list of available help topics. Should you have any questions please email us at support@triceimaging.com or call toll-free 858.397.5216.”

Keyboard shortcuts is available in the **Help** section and provides a list of keyboard shortcuts that can be performed by the User during a session in the Viewer. The shortcut functions include **Previous Instance**, **Next Instance**, **Next Video Frame**, **Previous Video Frame**, **Jump Tool**, **Zoom Tool**, **Annotation Tool**, and **Panning Tool**.

Keyboard Shortcuts

	- Previous Instance
	- Next Instance
	- Next Video Frame
	- Previous Video Frame
Shift + 	- Jump Tool
Shift + 	- Zoom Tool
Shift + 	- Annotation Tool
Shift + 	- Panning Tool

⑩ Monitor Icon – Image Gallery Selection

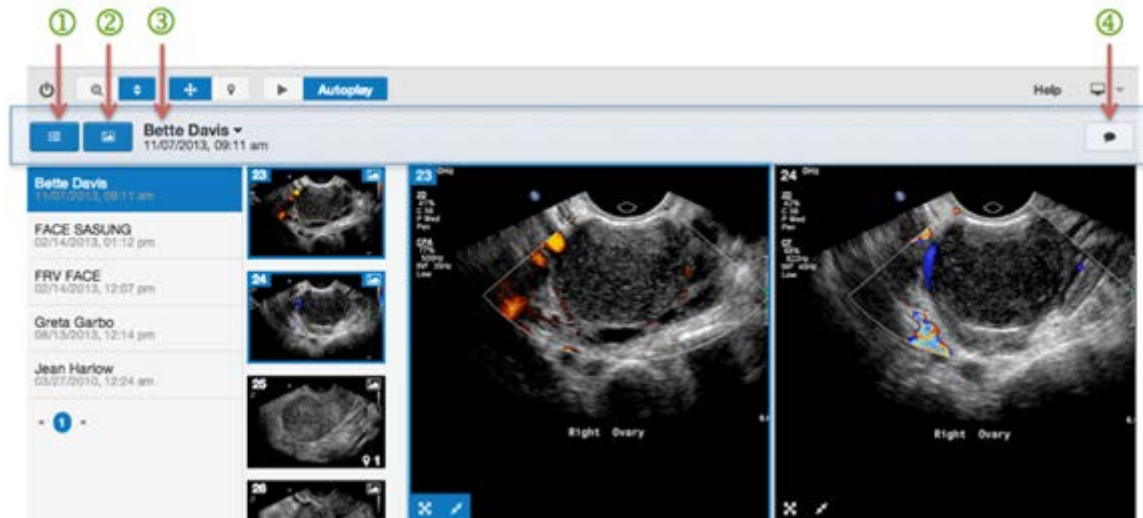
The **Monitor** Icon () to the far right of the Viewer Screen provides Users a drop down from which to select a preferred view of the number of Images that will be presented in the Image Gallery. Users can select 1-up, 2-up (vertically or horizontally,) 4-up or 6-up views. Images will populate the Image Gallery in the order of upload to Tricefy.



➤ More on the Image Gallery can be found in the [Image Gallery](#) section of this document.

DICOM Viewer Button Area

The Viewer has four content sections: **Study List**, **Thumbnail Gallery**, **Study Title and Drop-down Menu**, and **Comments Area**. The User can customize whether the Thumbnail Gallery and/or Comments area are viewable or hidden by clicking their Icons. The Icons will appear highlighted in blue when activated and white when they are not activated. All of these sections together will size to the width of the browser window and cannot be scrolled left to right.



① Study List Icon

Clicking the Study List Icon  shows or hides the entire Study List.

The list is scrollable with the mouse and clicking any Study will cause it to populate the Image Gallery area. This can be controlled independently of the other functions in the Button Area. The preference will be cached even if a User exits the Viewer and returns to the same Study or comparison. This function is not affected by selections made for the other functions in the Button Area.

Pagination markers "1" guide the User through multiple pages if the list is long as the maximum that can appear in the Viewer at once is 10 Studies at a time.

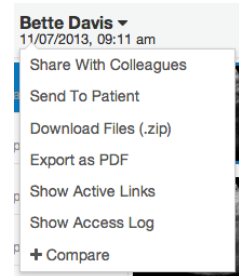
② Thumbnail Gallery

Thumbnails of the entire Study appear on the left side of the Viewer screen and can be toggled on to be viewed, or toggled off to be hidden by clicking the Image icon. The list is scrollable with the mouse and clicking any Image will cause it to populate the Image Gallery area and appear in the Image Gallery (in the upper-left corner if a multiple image view has been chosen). The preference will be cached even if a User exits the Viewer and returns to the same Study or comparison. This function is not affected by selections made for the other functions in the Button Area.

- More on the Thumbnail Gallery can be found in the [Study Thumbnails](#) section of this document.

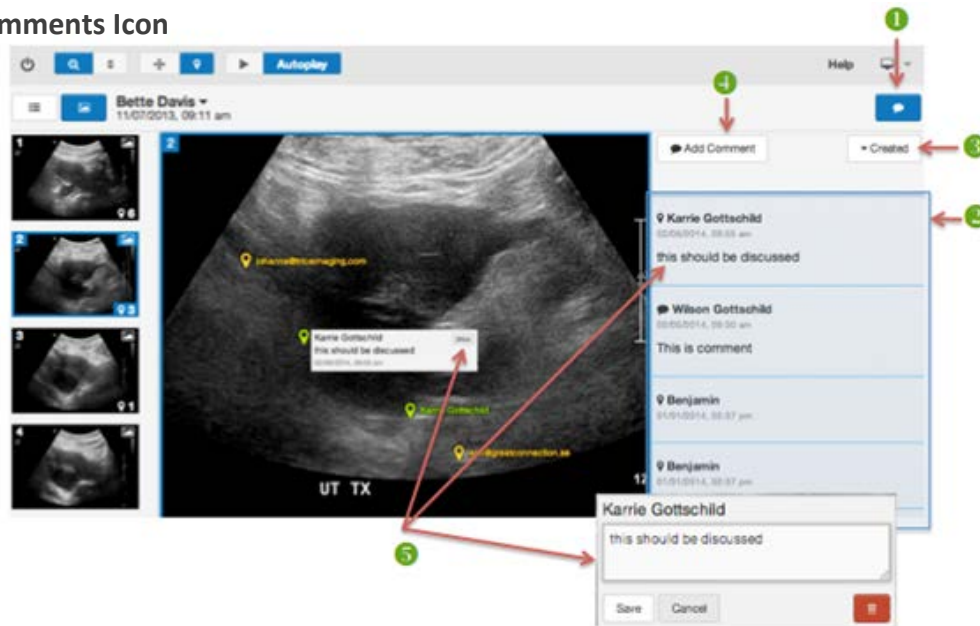
③ Study Action List Drop-down Menu


The Study Title, along with a time and date stamp of the Study, appear as the header of a drop down list of tools for managing the Sending (to Patient and Colleagues), Downloading, exporting as PDF, Active Links, Access Logs and comparisons of the Study.




- **Share With Colleagues** – Takes Users to the Share with Colleagues Screen where the selected Study can be prepared and sent to recipients as a text or email.
 - See the [Share with Colleagues](#) section of this document for further details.
- **Send to Patient** – Takes Users to the Send to Patient Screen where the selected Study can be prepared and sent to recipients as a text or email.
 - See the [Send to Patient](#) section of this document for further details.
- **Download Study (.zip)** – Allows Users to download the entire Study as a .zip file that contains all the Study data in DICOM format. Clicking this option begins an immediate download via the web browser.
 - See the [Download Study \(.zip\)](#) section of this document for further details.
- **Export as PDF** – Immediately creates a formatted PDF file of Exam Details (Patient Name, Patient ID, Patient DOB, Exam Date) an Image Data Direct Access Link and Delete Code, the Image Archive Location and Images Archive Contents from the Study. Cine clips are represented by a single frame in the PDF. The standard preferences for the Filename of the PDF can be set in the DICOM Settings Area under **Filename Customization**.
 - See the [Download Files](#) and [Filename Customization](#) sections of this document for further details.
- **Show Active Links** – Connects the User to the Access Links of each Study.
 - See the [Show Active Links](#) section of this document for further details.
- **Show Access Log** – Connects the User to the Access Logs of each Study.
 - See the [Access Log](#) section of this document for further details.
- **+ Compare/- Remove** – Selects the current Study to be included in a comparison with other Studies. When the User chooses subsequent Studies for comparison those previously selected through this drop down will be included as well. Users may also remove a Study from a comparison without leaving the Viewer by clicking - **Remove**.
 - See the [Compare](#) section of this document for further details.

④ Comments Icon




The **Comments** icon () ① on the right side of the Viewer can be toggled on or toggled off to be hidden. Comments are for documenting a dialogue between Users when collaborating on any element within a Study and they become part of the Study file in the Viewer. Any User who can log in has access to all Comments on a Study.

When toggled on, the button appears as highlighted in blue and the Comment string ② appears in a list below the Icon. When it is not activated, the button appears as white and the Comments Area is hidden.

Users can view or add general Comments to the Study. Comments include a time stamp indicating when they were added and are will default to being presented chronologically with the most recent Comment at the top of the string, but the order can be switched from ascending to descending order by hitting the **Created** button () ③.

Items in the Comment list include Comments that were added using the **Add Comment** ④ button appear when the User types in a message and clicks **Save**. The Comment string also includes documentations of Pins that are added to Images and Cine clips once the Study or browser is reloaded or the pin is saved by clicking **Edit**, adding a comment and clicking **Save**. Users can click on **Pins** within the Comment string and the Image associated with the Pin will be presented in the Image Gallery.

When creating Comments, Users can click the **Add Comment** button () ④ and then must click the **Save** button that appears within the Comment Textbox, to ensure their comments are stored in the database and viewable in the string of Comments. The User by way of the **Cancel** button, which also appears in the Comment Textbox, may also cancel comments.

Pins can be notated by hovering over them within the Image Gallery and then clicking the **Edit** button within the Pin area, which will bring up a Pin Textbox⁵. Text that is typed into the textbox (which looks identical to the Add Comment Textbox) begins to populate next to the Pin-documenting Comment line in the Comment area. Text entered in this way can be Saved or Canceled in the Pin Textbox. To edited or delete a notation associated with a Pin, the User needs to repeat the steps above to get to the Pin Textbox to make changes.

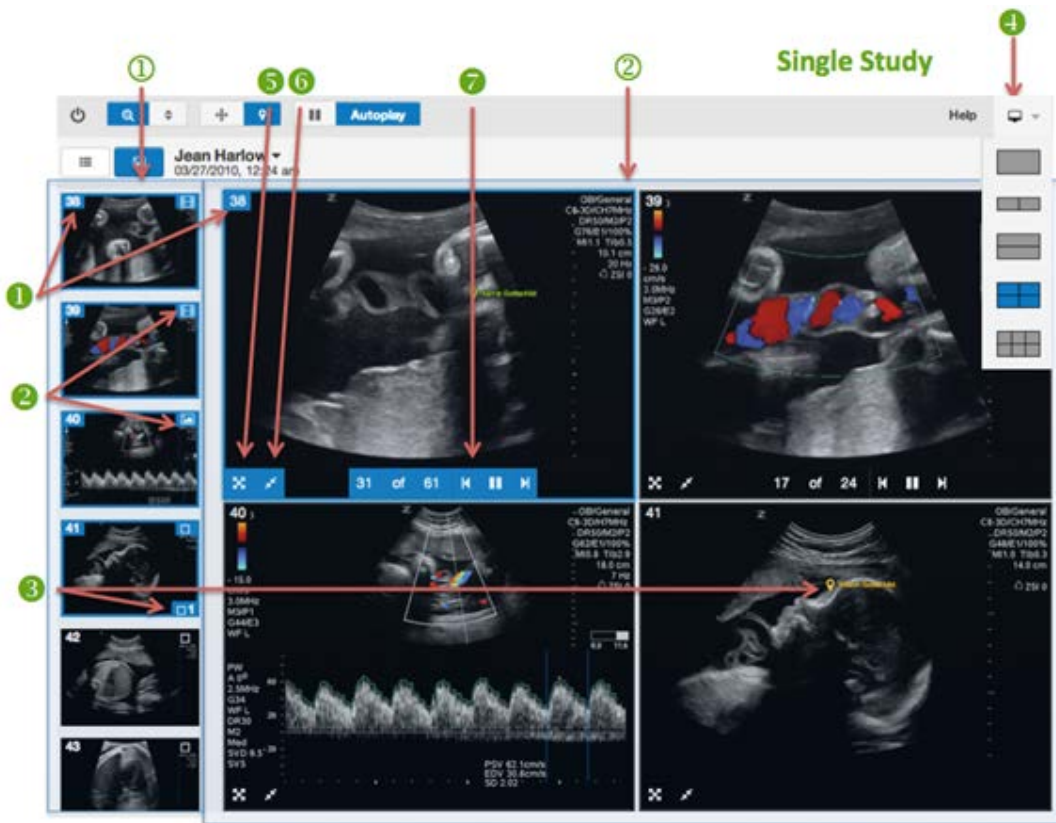
Creators of Comments have the ability to edit or delete their own Comments by clicking on them in the list, or on Pins within the images, but they cannot make changes to other User's comments.

DICOM Viewer Content Area

The Viewer (Content Area) allows Users to closely examine the Images, Cine clips and other files associated with a Study as well as compare files from different Studies simultaneously.

The Image Viewer is divided into sections that include:

- Study List
 - Covered in the [Study List Icon](#) section of this document
- Thumbnail Gallery
- Image Gallery and the Comments Area
 - Covered in the [Comments Icon](#) section of this document




① Study Thumbnails




Users can scroll through the Study Thumbnails using the scroll button on their mouse as long as their mouse is hovering in the Thumbnail Gallery area to the left of the screen. When Users single-click on an Image in the Thumbnail Gallery, it will open in the Image Gallery area and place it in the frame (or first frame in the upper left if a multiple frame view was chosen in the Image Gallery setting.) Images that are being shown in the Image Gallery area will be highlighted in blue in both the Thumbnail Gallery.

Images in the Thumbnail Gallery will contain their Study Image number ① (the number of the Image as it was generated from the modality) in the top left corner, a symbol to indicate if it is an Image (🖼️) or Cine Clip (🎞️) in the top-right corner ②, and a Pin icon (📌) ③, including the number of Pins present on that Image in the bottom right corner of the Thumbnail. More on how these markings change when they are moved into the Image Gallery appears in the Image Gallery section, described below:





② Image Gallery



The Image Gallery is at the center of the Viewer screen and will present each Study with one Image per frame matching the number of frames chosen by the User using the Image Gallery selection tool, which is accessed by clicking the Monitor Icon (🖥️) ④ in the far upper right of the screen. Users can select 1-up, 2-up (vertically or horizontally,) 4-up or 6-up views.

The Image Gallery default populates with the first Images in the Study at actual size but Users may click an Image in the Thumbnail Gallery at left to place it into the Image Gallery at right. Images can be scrolled through in the Image Gallery when the **Scroll** icon () on the Toolbar has been selected. Selected Images will remain in the cache and the Image Gallery will appear as it was if the User leaves and returns to the Viewer.

Images will contain their Study Image number  (the number of the Image as it was generated from the modality) in the top left corner. When Pins have been placed on an image, the **Pin** icon ()  will appear within the cell of the Image Gallery (but only as a notation and number in the Thumbnail Gallery.)

➤ More about Pins can be found in the [Pin Icon](#) section of this document.

Zoom to Fit ()  and **Actual Size** ()  tools appear in the bottom left corner of each Image. The Image and Cine clip icons do not appear on the files in the Image Gallery.

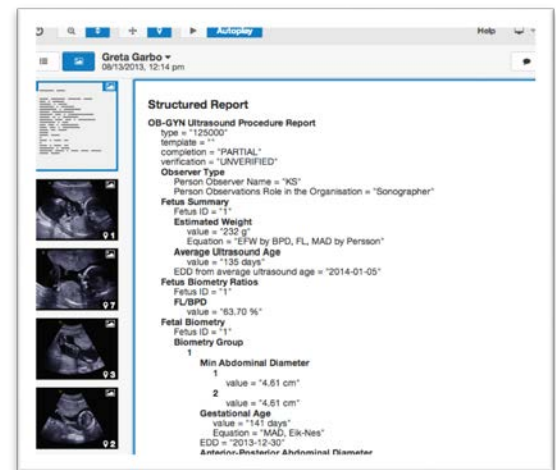
Cine Clips will have **Playback** tools ()  in the bottom center section of the clip. This tool shows the total number of frames in the Cine Clip and the frame number as the clip plays. Users have the ability to control the playback of each Cine Clip individually:

- Clicking the **Play** button will play the Cine Clip at its acquired speed.
- Users can also move through the Cine Clip frame by frame by clicking the **Pause** button and arrow buttons on the toolbar or by using the arrow keys on the keyboard.

SR Report Screen

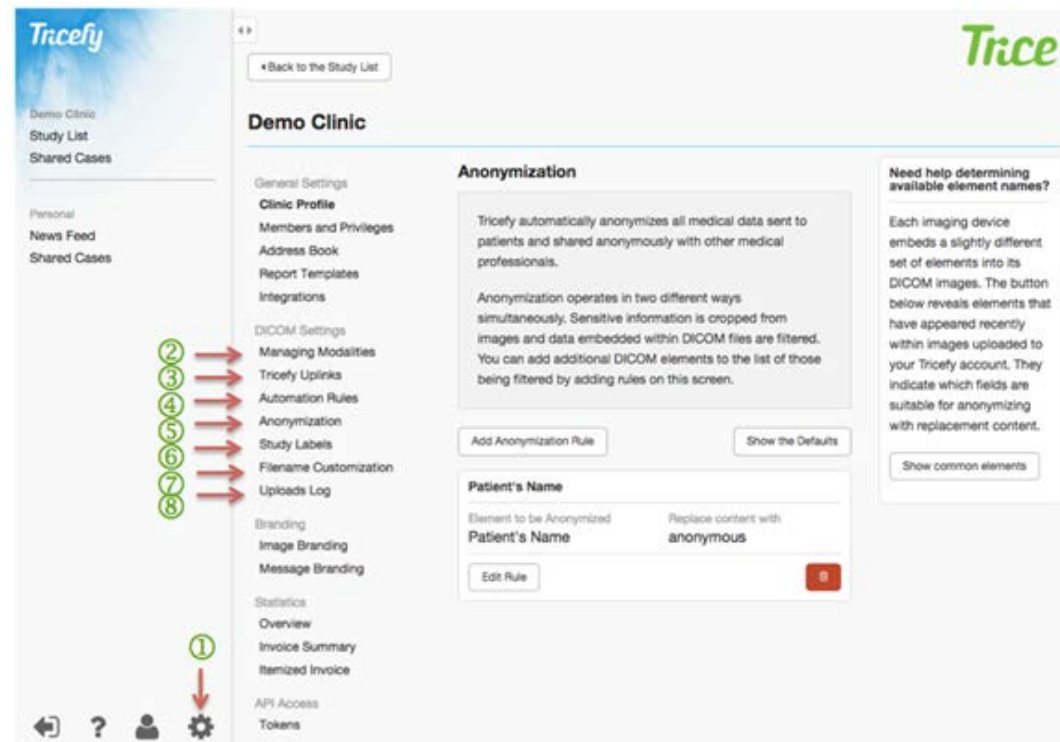
The SR Report Screen presents the Report contents of the DICOM file visually on screen. The heading indicates that this is a structured Report and it is followed by a hierarchical tree of data, presented as indented sections of text.

This screen does not make any advanced interpretations of the Report contents and does not use any templates for specific Report types. It is a fairly raw and technical rendition of the Report contents presented in an accessible fashion.



DICOM SETTINGS

All settings in this Account Settings area heavily affect the DICOM features in Tricefy. The more advanced technical settings can be manipulated by the Account Administrator or those with Administrative permissions.



Under the **Settings** ① tab, you will find all the administrative DICOM technical settings in one place – including:

Managing Modalities (AE Titles) ②, **Tricefy Uplinks** ③, **Automation Rules** ④, **Anonymization** ⑤, **Study Labels** ⑥, **Filename Customization** ⑦, and **Uploads Log** ⑧.

Managing Modalities

The Demo Clinic

General Settings
Clinic Profile
Members and Privileges
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Report Templates
Integrations
DICOM Settings
Managing Modalities
Tricify Uplinks
Automation Rules
Anonymization
Study Labels
Filename Customization
Uploads Log
Branding
Image Branding
Message Branding
Statistics
Overview
Invoice Summary
Itemized Invoice

The DICOM destination for this clinic is **morocco**

Source Modalities At This Clinic

Add an AE Title +

Add New AE Title

Visible Name: Location (timezone): (CMT+00:00) Casablanca ?

Save Cancel

Edit AE Title

Visible Name: Demo Stuff AE Title: imac27

Location (timezone): (CMT+01:00) Stockholm ?

Save Cancel

Room 1 - Clinic Room 201 in UTC

Managing Modalities

The Source Modalities At This Clinic list shows the modalities that have been configured to communicate with Tricify. Subsequent modalities may be added using 'Add an AE Title'.

You must add an AE Title per modality that is connected to the Tricify System. The title can be a plain language description that creates a unique identifier for the machine.

AE Titles allow a quantity of modalities to be set up for a single DICOM destination. Each modality needs an AE Title to complete the configuration process and allow Tricify to accept information through that machine which then acts as a unique identifier. Filtering in the Study List includes the option to filter and sort by AE Title.

Managing Modalities (AE Titles) ① is the first section in the DICOM Settings area and is where the list of source modalities that have been configured to communicate with (and send data to) a Tricify account can be edited. Each AE Title is presented in its own box, one under the other. Each box has the AE Title value in a heading and next to that a text field where a more descriptive name can be provided. So, instead of trying to remember if "LP5-94475SU1" is the one just down the hall or the one on the next floor, LP5-92476SU1 can be given the on-screen name "Exam Room 3" or "Kathy's Room" or some other name that helps to better identify the device.

The Managing Modalities screen allows a quantity of modalities to be initiated and set up for a single DICOM destination as they must be included for each modality that is connected to the Tricify System. Each modality needs an AE Title (which then acts as a unique identifier) to complete the configuration process and allow Tricify to accept information through that machine. Filtering in the Study List includes the option to filter and sort by AE Title.

At the top of the Managing Modalities screen will be the prefix (AE Title of the DICOM store) ② that must be configured in the modality. It will appear highlighted in green after the words "The DICOM destination for this clinic is". This exact word **must** appear in the AE Title of the DICOM Store (as "-mr" and "-pf") to route to your Tricify account,

representing the kind of data being stored or sent. A Help icon (?) appears to the right of the DICOM destination title and explains this necessity to the User.

The **Source Modalities at This Clinic** section of the screen is where plain language description/names can be given to DICOM imaging devices (ultrasound machines,) by clicking **Add an AE Title** ③. The **Add New AE Title** box ④ includes fields for designating the Visible Name, AE Title and Location (time zone) of a modality. The DICOM standard, for all it does, has no concept of a time zone. So, in the Tricefy system each AE Title can be assigned a time zone from the drop down. AE Titles allow a Time zone to be set so that Study Upload Timestamps hold to the local time. The easiest way is to select a major city close to the Clinic, preferably in the same state or country. Clicking the **Save** button at the bottom of the screen will save all additions to names and time zone at once.


Changes can be made to the **Visible Name** or **Location** (time zone) selection of existing modalities ⑤ by clicking the **Edit** button or Trash can Icon (Delete button) next to a modality in the list. A box called **Edit AE Title** will open, prepopulated with the existing Visible Name, AE Title and Location. Edits can be made within these fields and saved or canceled using the buttons at the bottom of the box.

The right column of the Managing Modalities screen acts as the **Help Center**. At the top of this column Users will find an explanation of what AE Titles are and how they work in Tricefy.

Tricefy Uplinks

This page lists the **Device ID**, **Display Name** and **IP Address** of one or more Tricefy Uplink installations that are able to forward data to the Clinic account. Tricefy Uplink is available as a hardware device or a software download. It also comes pre-installed on some imaging devices.

- See the Installation and Activation Manual available at Triceimaging.com/helpcenter for additional instruction.

Your Tricefy Uplinks			Download Installer 
Device ID	Display Name	IP Address	
d372827b453348ab8061cdce3149e93d	Martin's box	192.168.1.5	Show Details
3190df16b8f04c8e871c92836784fe8c	ProLiant DL60	192.168.1.2	Show Details

The second section under DICOM Settings is **Automation Rules**^①. Automation Rules are central to the operation of Tricefy as they determine how Tricefy parses uploaded DICOM files.

Each new DICOM image received into Tricefy can be set to automatically route from the modality, paired with the appropriate Message Type, based on the Automation Rules established on this screen.

The study is able to route to each Recipient based on the set of rules pointing Tricefy to the Metadata fields containing mobile phone numbers and/or email addresses. Directives for the automation are done in two steps.

The screenshot displays the 'Demo Clinic' interface, specifically the 'Automation Rules' configuration page. The left sidebar contains a list of menu items: General Settings, Clinic Profile, Members and Privileges, Address Book, Report Templates, Integrations, DICOM Settings, Managing Modalities, Tricify Uplinks, Automation Rules, Anonymization, Study Labels, Filename Customization, Uploads Log, Branding, Image Branding, Message Branding, and Statistics. The main content area shows the 'Automation Rules' configuration. It includes a table of existing rules and a modal for adding a new rule. The table has columns for 'Rule Name', 'Message Type', and 'For Patients'. The modal for 'Add Recipient Contact Sourcing Rule' includes a description, a text input for 'Find Recipients in Element', and checkboxes for 'Find phone numbers', 'Find email addresses', and 'Find clinic'. The 'Find Recipients in Element' field is highlighted with a red box and a red arrow pointing to the 'Find Recipients in Element Referring Physician's Name' field in the modal below it.

First, the settings determine if the file should be parsed at all. The Automation Rules screen begins with three checkbox controls^②: **Automate Medically-Relevant Images**, **Automate Patient-Facing Images**, and **Automate Other Images**. These allow the User to individually enable and disable automatic parsing for each category of incoming file.

Each rule names a specific DICOM metadata element where recipient-identifying email addresses and mobile phone numbers are to be searched. If no boxes are checked, studies will not automatically forward to Recipients, but will be archived. If all (or some) boxes are checked, the specified image types will be forwarded with the specified Message Type, appear on the Study List and also be archived.

To the right of each checkbox is a dropdown with a **Message Type** option:

- **For Patients:** A generic template for any type of patient and assumes the message contains images and other data of the recipient himself/herself.
 - See the [Message Branding](#) in the Account Settings section of this document for more information about copy and branding messages.
- **Shared Cases:** Assumes the information will be sent to a medical professional through the [Share with Colleagues](#) tool and will make matching files "shared" rather than send a link.

In the second step for the automation of image transfers (refer to the screenshot on the previous page), Users MUST also specify **Recipient Contact Sourcing Rules** ③, which the system will use to locate the DICOM metadata elements in the fields where recipient-identifying email addresses and mobile phone numbers are being entered during examinations.

For example, if the Clinic has decided that mobile phone numbers will be typed into the **Patient Comments** field, the system needs to be set to search for them there:

- **Mobile Phone** should be chosen from the dropdown
- **Patient Comments** should be typed in the text field
- The Rule should read, *"Find Mobile Phone in Element patient comments."*
 - This Element field is case and spacing sensitive so Users must type it exactly as it appears to match the field in the modality.

Here is how these choices affect the process in an example:

1. The checkbox for **Medically-Relevant Images** is unchecked.
2. The checkbox to **Automate Patient-Facing Images** is checked
3. **For Patients** is default selected as the **Message Type** from the dropdown next to it
4. The checkbox to **Automate Other Images** is checked
5. **For Patients** is selected as the **Message Type** from the dropdown next to it

If an image is uploaded with the "-mr" AE Title extension, it will be treated as a "Medical" image. The automation system in this scenario looks at the settings and finds the checkbox for **Medically Relevant images** unchecked and aborts any automation work.

If an image with the "-pf" AE Title extension is uploaded it will be treated as a "Patient" image. The automation system looks at the settings and finds the checkbox for Patient images checked. It starts searching for the file according to the rules. Let's say it finds a phone number. Now it will trigger a message of the patient-facing type to that phone number.

The **Add Recipient Contact Sourcing Rule** ③ and **Edit Recipient Contact Sourcing Rule** forms contain a text field, **More options** dropdown, and two buttons.

These can be reached by clicking the **Add Another Rule** button or **Edit Rule** button^④ within this screen.

The User is guided by Help text that says: *“Indicate the DICOM Metadata field Tricefy will be able to source Recipient email and mobile phone contact information during automatic exporting”* above the dropdown that allows a User to pick which type of address to look for (Mobile Phone Number, Clinic Name or an Email Address).

The **Find Recipients in Element** text field is for entering the name of the metadata element that should be searched. So, if the User at the Clinic has been instructed to type email addresses into the Study Description field, the system needs to be set to search this way. **Email** should be chosen from the **More options** dropdown and **Study Description** typed in the text field. This action can be saved by clicking **Save Rule** or canceled by selecting the **Cancel** button.

If a User wishes to delay the **Automatic Sending of Messages**^⑤, the account can be configured to wait a particular duration before sending by choosing between “No Delay,” “5 Minutes,” “15 Minutes,” “30 Minutes,” “45 Minutes,” and “1 hour” in the **Delay Automatic Messages For** drop-down menu. The Help icon (?) in this area explains that *“In some cases this will allow a complete sets of images to send before a Share notification is received.”*

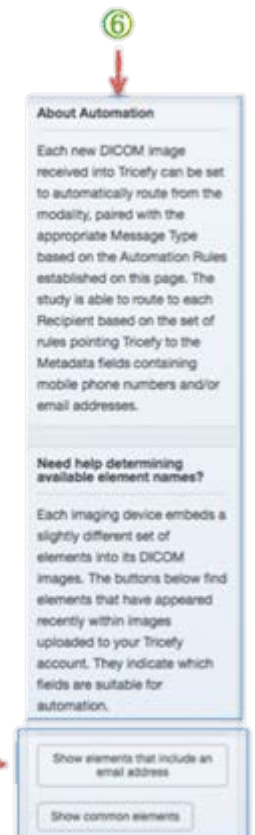
The right column of the Automation Screen acts as the **Help Center**^⑥.

At the top of this column Users will find an explanation of what Automation is and how it works in Tricefy. Assistance with which DICOM elements make for common fields with a Clinic’s modality is available to the right of the screen^⑦.

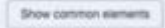

This section assists Users in finding the names of suitable elements to parse for automation. Clicking the first button **Show elements that include an email address** will return a list of any element names found to have email addresses in them from within images recently uploaded and parsed in a Tricefy account. These open as a scrollable list in the box below the buttons.

If no elements with email addresses are found after clicking the **Show Elements that Include an Email Address** button, the box is populated with a text explaining that they will need to be entered on an ultrasound and uploaded as a sample file.


The second button **Show Common Elements** opens a scrollable list of element names found in recent images uploaded to a Tricefy account. Each row contains an element name and next to it a green + button. Clicking the green plus will add that new rule (in the left column of the form. Each new rule must be saved (**Save**) or canceled (**Cancel**) before another rule can be added by clicking from the **Show Common Elements** list.

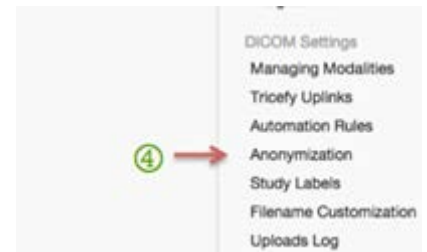


If no elements with email addresses are found after clicking the **Show Elements that Include an Email Address** button, the box is populated with a text explaining that they will need to be entered on an ultrasound and uploaded as a sample file.

The second button **Show Common Elements**  opens a scrollable list of element names found in recent images uploaded to a Tricefy account. Each row contains an element name and next to it a green + button . Clicking the green plus will add that new rule (in the left column of the form). Each new rule must be saved (**Save**) or canceled (**Cancel**) before another rule can be added by clicking from the **Show Common Elements** list.

Anonymization

Anonymization is the third area under DICOM Settings, within Account Settings . This area governs the process of removing identifiable patient data from DICOM metadata elements and from the converted image data being displayed.



By default, Tricefy automatically anonymizes all medical data sent to patients (those shared outside the clinic, e.g. converted thumbnails in patient links or full-size images in anonymous collaboration cases) and shared with other medical professionals (images exported as DICOM Files within **Shared Cases** that are the result of the “Share with Colleagues” function.) Anonymization is always applied to patient links, to anonymous cases and downloads with anonymized data and the User cannot alter this functionality.

Anonymization can operate in two different ways simultaneously. Sensitive information can be cropped from preview images and data embedded within DICOM images can be filtered and edited according to a set of Rules as created on the Anonymization Screen. Note: Sensitive information that is removed using these Anonymization tools will not be retrievable nor available in its original form unless a Recipient is given full access during the Sending. Clinic Members always maintain full access to original data.

- More information on this appears in the [Send to Patient](#) and [Share with Colleagues](#) areas of this document.

Clicking The Help icon (?) to the right of each checkbox brings up informational text describing the effects it has. The right column of the Anonymization Screen acts as the **Help Center**. At the top of this column Users will find an explanation of what anonymization rules are and how they work in Tricefy.

In the Tricefy System, any files that are exposed on the **Landing Zone** or in exported messages are anonymized, but they are not when used internally by authenticated, known medical staff. Sensitive data visible on images is most commonly displayed in an area at the top of the image. Since the exact location and size of the sensitive area varies from one model of ultrasound to another, the exact dimensions are chosen automatically by Tricefy, based on the model name exposed in the DICOM file. (“-mr” or “-pf.”) However, preferences for anonymizing metadata elements can be confirmed by setting a number of rules on the Anonymization Screen.

There is a default set of DICOM metadata, which is always anonymized. Customers can add to that or modify the replacement (by creating a duplicate rule for an existing default). Users can add additional DICOM elements to the list of those being filtered by adding rules on the Anonymization screen. Rules must be entered into the system for the DICOM elements (embedded data that is replaced instead of cropped out) to be anonymized. A list of defaults can be seen by clicking the **Show the Defaults** button ①. Clicking **Add Another Anonymization Rule** ② opens an **Add rule** form. The User must enter text that matches an actual DICOM field in the modality into the **Element to be anonymized** field as well as any sort of text for the **Replace content with** field. For all subsequently uploaded studies, the system will then replace matching elements with the text provided. In this example the Patient's Name will be shown as *"Name Anonymized."*

Below and to the right is a single button **Show Common Elements** ③ that will list the names of suitable elements to which Anonymization could be applied from those found in recent images uploaded to the Tricefy account. These open as a scrollable list in a box of its own below the button. Each row contains an element name and, next to it, a green + button. Clicking the green plus will pull up a form for adding a new rule in the left

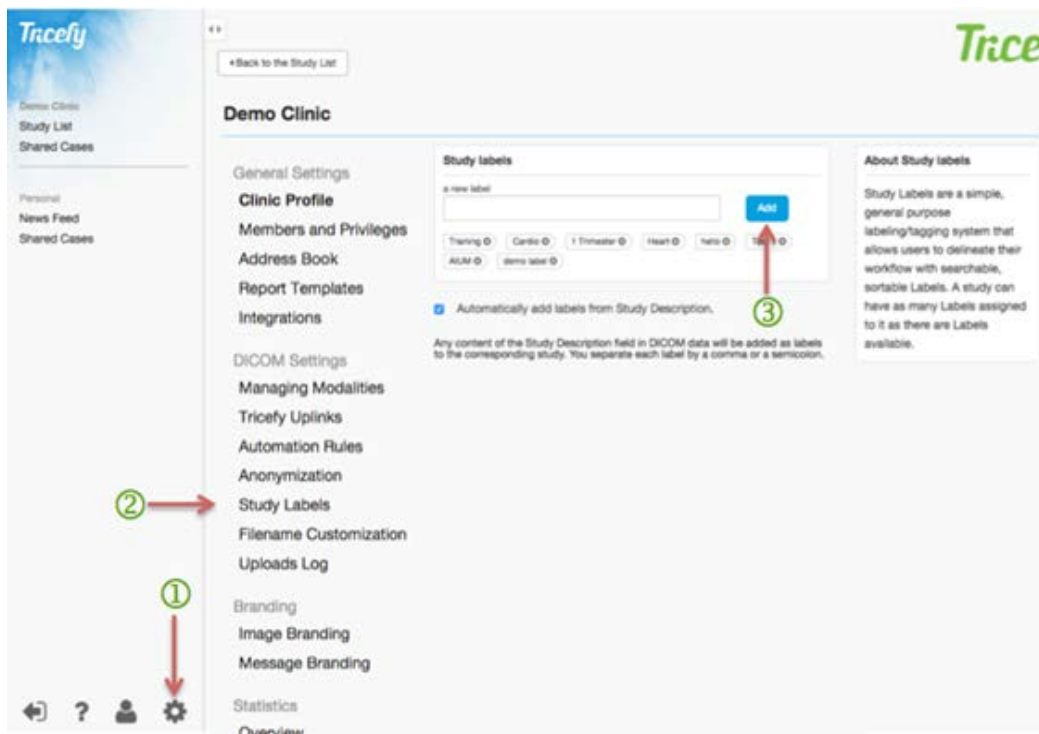
column and it will also populate it with the element name from the element just clicked. Each new rule must be saved (**Save**) or canceled (**Cancel**) before another rule can be added by clicking from the “**Show Common Elements**” list. There is a paragraph above this button that explains this process and informs the User that DICOM files from different imaging devices contain different tags, to some extent.

Inside a Rule that has already been set, the User can click the **Edit Rule** ^④ button to edit the element (or the text that will replace the element) that was previously established in a Rule.

Study Labels

The fourth option in the DICOM Settings Section is Study Labels. The Study Labels screen is for the creating and removing of Study Labels from a Tricefy account. Study Labels are a simple, general-purpose labeling/tagging system that allows Users to create a set of labels suitable for their workflow and use those to label studies for any number of reasons.

For example, typical examination notations can be categorized using "first trimester" and "heart defect," or the name of another doctor that collaborates with the Clinic. Studies can also be labeled for use in the training of residents. Another example might be a clinic in Sweden, where each type of examination has a national abbreviated code. A clinic can add these on this Study Labels Screen and then label each study using the official abbreviations.



To get to this setting Users click **Account Settings** (the cog Icon) ^①, **Study Labels** ^②, and **Add** ^③.

The Study Label screen (shown on the previous page), includes **a new label** text field and an **Add** button. When text is typed in the open field and the **Add** button is clicked, a label appears below the form.

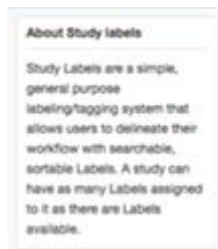
The created label item is a rectangular shape including the label text (as entered) and, to the right of the text, a delete icon. Clicking the **Delete** icon removes the label.

The Labels will then appear within the Labels drop down above the Study List as well as next to the notation Icons on a Study in the Study List. This presence enables a User to filter for Studies with a common Label using the **Labels** drop-down function or Search box to aggregating all Studies that match the query into one, filtered Study List.

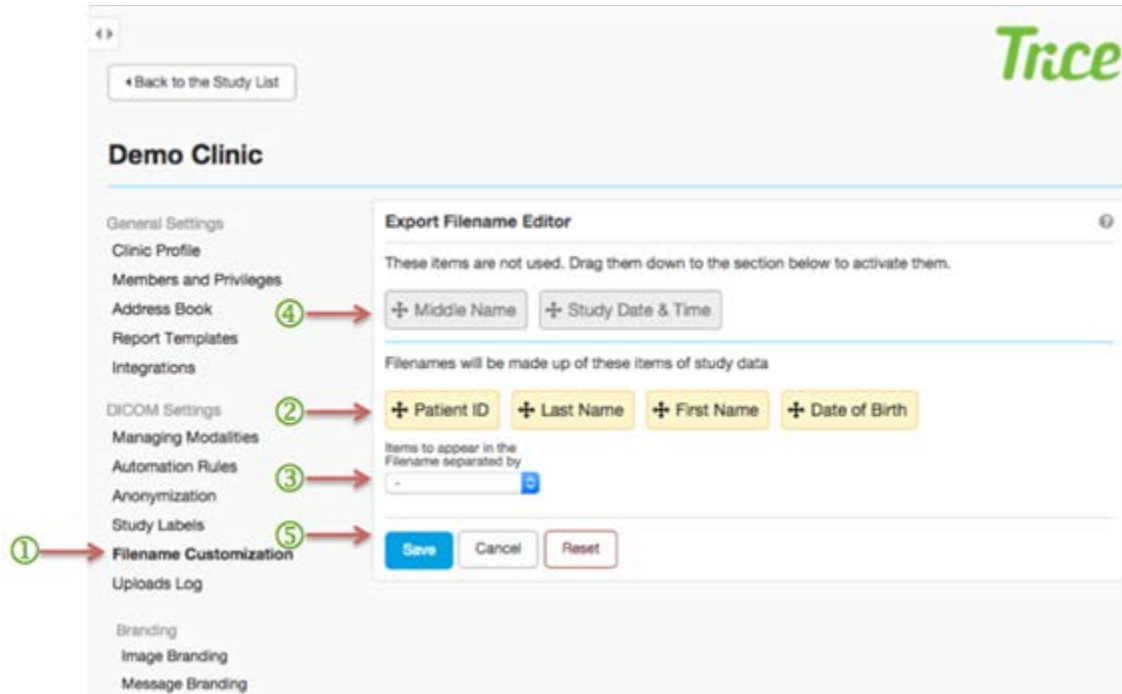
In addition to being able to add labels when logged into Tricefy.com, they can also be added during an ultrasound directly through the imaging device itself. During an exam users may include a label (like *“Training”*) or multiple labels (like *“Training, 1st trimester”*) in the **Study Description** field of the DICOM data and the information will be added as labels that can be viewed and sorted on Tricefy. Adding labels on the ultrasound can eliminate the need to add labels to studies later. Users need to separate each label by a comma or a semicolon and know which labels are in use by the clinic.

- Labels can also be manually entered in the Study List as described elsewhere in the [Study List](#) section of this document.

The right column of the Study Label Screen acts as the **Help Center**. At the top of this column Users will find an explanation of what Study Labels are and how they work in Tricefy.



Filename Customization – Export Filename Editor



The fifth option in the in the DICOM Settings area is Filename Customization ①, where Users can customize how each Filename will appear when exporting PDFs from a Tricefy account. Study data options are set (**First Name, Middle Name, Patient ID, Study Date & Time, Date of Birth and Last Name**) and available for selection on this screen. The lower section of the screen ② shows Items (highlighted in yellow) that have been activated and will become part of the Filename. The upper part of the screen ④ shows Items that have not been activated and will not become part of the Filename upon export. Items can be dragged and dropped between these two sections by the User at any time.

The complete, final Filenames will be generated at export time based on the availability of data selected for inclusion and will be placed (separated by a chosen separator ③ either a dash, underscore or period) in the order in which they appear on the Filename Customization screen. The default separator is a dash.

When the selections are complete, the User can click **Save, Cancel or Reset** ⑤, which will put the Items into default order where **Study Date & Time, First Name, Last Name, Date of Birth** will make up the exported PDFs filename.

Uploads Log

Back to the Study List

Tricefy

Demo Clinic

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Uploads Log

Branding

Filename	Uploaded	Status	
2010-all-trimesters-ob-20100327-0425am-3fc460f-9997-1-801d31f.dcm	processed	05 Nov 06:54 PM	Open in Viewer
1.3.6.1.4.1.11157.2014.4.29.17.40.55.132	processed	05 Nov 06:50 PM	Open in Viewer
1.3.6.1.4.1.11157.2014.5.8.11.25.23.143	failedupload	05 Nov 06:45 PM	Open in Viewer
dicom_addition_541b4275231710745f00013b.dcm		18 Sep 06:37 PM	Open in Viewer
dicom_addition_53ebc9fa473a812842000a3e.dcm		13 Aug 08:26 PM	Open in Viewer
dicom_addition_53d6598c61ecf97c02000296.dcm		28 Jul 02:09 PM	Open in Viewer
dicom_addition_53d6598c61ecf97c02000296.dcm		28 Jul 02:09 PM	Open in Viewer
1.2.826.0.1.3680043.8.641.1.20140725.72635.90367.dcm		25 Jul 02:28 PM	Open in Viewer

The final option in the in the DICOM Settings area is Uploads Log^① where Users can access a list of uploads by DICOM filename^② Each file line includes the Uploaded Status^③ and date of last XXX Status^④ individual studies can be opened in the viewer by clicking the **Open in Viewer** button^⑤ at the right. The list is, by default, sorted by status date and paginated at both top and bottom.

BRANDING

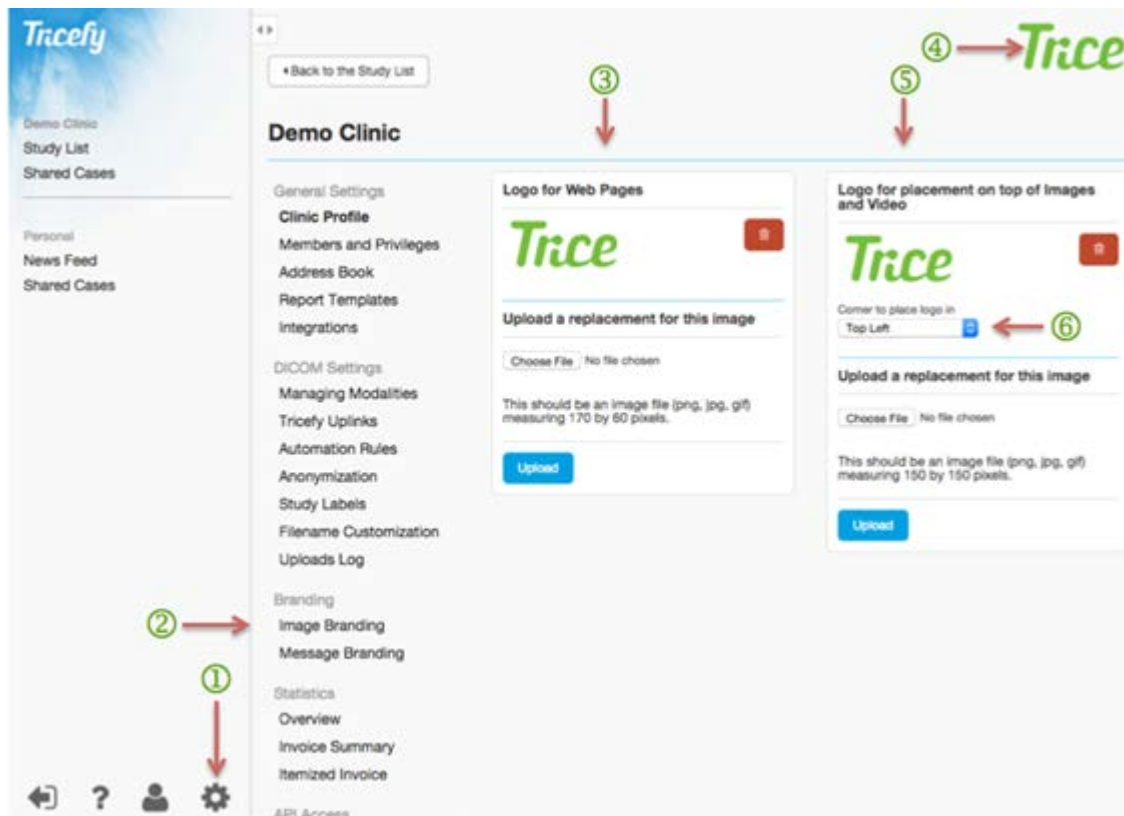
There are two ways in which a Clinic can add branding to the communications sent through Tricefy:

- 1) The Clinic logo can be added to landing pages that are viewed in the Send to Patients functionality, on top of images and videos, within outgoing emails and within the Tricefy web interface.
- 2) Any Clinic messaging can be automatically included within outgoing email templates.

These opportunities are completely optional and can be used piecemeal or in total.

All Branding functions are accessible to Users with Administrator permissions and invisible to those without.

Image Branding



Logo inclusion is managed through the Image Branding^② Screen, which is the second section under **Branding** in the Settings^① area. Under **Logo for Web Pages** is a placeholder image indicating the appropriate dimensions for an uploaded logo. The suggested dimensions may vary with design changes to Tricefy but is generally a soft requirement of 170x60 pixels. To the right of the placeholder image is a **Delete** button. The logo uploaded within the **Logo for Web Pages** box at left^④ will appear in the top-left corner of the entire User-interface, in the header of email messages, within the Tricefy interface and on the Landing Zone screens (as described in the [Landing Zone](#) sections of this document.) Guidance for logo dimensions and acceptable file types in preferred order (“This should be an image file (png, jpg, gif) measuring 170 by 60 pixels”) are within this box as well as an **Upload** button and Delete/trash can icon.

The Upload Widget usually consists of a **Choose File** button and an area for displaying the filename that is chosen. Clicking the button will open a system file dialog where any file on a computer can be selected for upload. Clicking on a file will close the dialog and display the filename in the designated area. Then **Upload** can be clicked to complete the process.

Note: HTML-upload widgets are largely controlled by the computer operating system and browser. These descriptions will be approximate and focus on common functionality that may not be 100% accurate in all browsers.

Choosing a file of a type other than those accepted for either box will abort the upload and show an error message at the top of the Screen indicating that the file could not be uploaded. A successful upload will result in the placeholder being replaced by the chosen image and a message at the top of the screen indicating that the upload was a success. The logo will also be immediately visible in the top left of the Tricefy GUI header.

The logo uploaded within the **Logo for placement on top of Images and Video** at right on this screen ⑤ will be imprinted on all image and video conversions presented in messages and on the Landing Zone Screen. Even though the contents of this image will be the same logo as the one just described, it is a separate file upload for technical reasons. Web pages and email templates all have white or light backgrounds while medical images are mostly black or dark in background. This file should be produced to handle transparency and colors differently in order to look good on images and videos. Also, this file is sometimes a different form factor or variation of a company logo.

In this section the header is followed by a placeholder image indicating the appropriate dimensions for an uploaded logo. The suggested dimensions are a soft 150x150 pixels. A customer with very low or very high-resolution imaging devices should proof and adjusted this logo to make it suitable size for the situation. Users may select the positioning of the logo on DICOM images by using the drop-down box ⑥ and choosing between **Top Left**, **Top Right**, **Bottom Left**, and **Bottom Right**. By default this selects the corner in the “Top Left.” This drop down is active and any changes to the selection here are immediately saved. Guidance for logo dimensions and acceptable file types, in preferred order (“This should be an image file (.png, .jpg, .gif) measuring 150 by 150 pixels”) are within this box as well as an **Upload** button and delete/trash can icon. Files can be selected by clicking the standard **Choose File** button, browsing for the correct file and then clicking **Upload** to complete the process.

The upload widget usually consists of a **Choose File** button and an area for displaying the filename that is chosen. Clicking the button will open a system file dialog where any file on a computer can be selected for upload. Clicking on a file will close the dialog and display the filename in the designated area. Then **Upload** can be clicked to complete the process. Please note: an HTML upload widget is largely controlled by the computer operating system and browser being used. These descriptions will be approximate and focus on common functionality that may not be 100% accurate in all browsers.

***Please note:** An HTML upload widget is largely controlled by the computer operating system and browser being used. These descriptions will be approximate and focus on common functionality that may not be 100% accurate in all browsers.*

Message Branding

Demo Clinic

General Settings
Clinic Profile
Members and Privileges
Address Book
Report Templates
Integrations

Message Branding

This is a preview of the composition and branding of Email messages that will be sent via Tricefy on behalf of your clinic. For each template you can add your own text to the textbox below and have it included in all outgoing messages.

Message Type
For Patients

Tricefy

With this email Demo Clinic is providing you access to your images and video clips

Enjoy these sample images from Trice Imaging.

The above text will be automatically included for the Message Type selected in the above drop down. Messages that are sent manually override this text with whatever is entered at that time by the Sender. If this box is left blank the communications will include only the text as written below.

Visit the link below to view and download your images. You can also distribute and share them by emailing them, by texting them, or by sharing them to Facebook or Twitter.

<https://tricefy.com/previewlinkurl>

Your delete code: **ABC123**

This is a secure and unique link. The images can only be accessed via this link, which will be automatically deleted after 3 months. If you want access to these images in the future you will need to save them to your device. Please note: these images are not for medical purposes and you are responsible for the security and distribution of your images from this point forward.

If you have any questions regarding your doctor's visit contact Demo Clinic.

The Message Branding^① screen shows the composition and branding of email messages that are sent directly to patients via Tricefy on behalf of a Clinic. Users can add custom text to the textbox and have it included in all outgoing messages. Studies are sent to medical professionals through Share with Colleagues functionality.

- See the [Share with Colleagues](#) section of this document for more information.

The Message Branding screen defaults to the **Message Type** dropdown of **For Patients**^②. Users can review the template as well as add a short text^③ to be included in these automated messages. Additional text can include any type of message - including temporary promotional information or special news pertaining to the Clinic.

Below the dropdown is a full preview of the message that will be sent. Under the area for a clinic logo and main subject line is an additional text form for including special information above the templated message. Directions guide the composition of this extra text to be sure it honors SMS constraints. Text entered into this area will be saved automatically. Selecting another template will change the contents of the text area.

- See the [Image Branding](#) area of this document for information on adding logos.

The Message Branding screen, shown on the previous page, shows essentially how the email will look – complete with the logo that will appear, the header, the Landing Page link, the delete code and the rest of the body copy of the email.

Landing Zone for “Send to Patient” Function

The **Landing Zone** screen is the webpage to which all links included in email and mobile messages sent through the **Send to Patient** tool (or directly from the modality) point. The screen uses a unique authentication token in the URL to look up the contents for display. Contents can be either a single DICOM file, a selection of individual files or a study. In the case of a study, contents can also be presented in a filtered state (anonymized) based on the **Image Type** categorization described elsewhere in this document. There is no Viewer associated with the Landing Zone and, therefore, no pins or comments functionality. Unique access codes for viewing password-protected content are provided to the recipient in the shared email or text message.

The Landing Zone Screen begins with an upper Tool Bar. This bar contains buttons that perform "global" actions:



First is a **Delete** button ①. Clicking this button takes the User to the Delete Landing Screen. It is positioned in the top left, different from the application standard right. This was chosen for the benefit of mobile phone and tablet visitors, which make up a significant portion of the visitors to this screen. In short, top left is the farthest from the thumb for a right-handed person using their phone one-handed.

To the right, a dropdown for available translation languages ②, including English, German, French and Swedish. Selecting one of the languages will reload the screen with all text translated into that language.

Patients also have access to two social media sharing buttons ⑥ within the Landing Zone. One is a **Facebook** share button, to post the contents presented on this screen to a Facebook account. The other is a **Twitter** share button, which allows a User to tweet the contents of the current screen. Clicking either of these buttons will open the respective social network in a new window with sharing options preselected for the User to alter, approve or cancel.

Send to Patient is a generic template for any type of patient. It assumes the message contains images and other data of the recipient himself/herself. Below the toolbar are features that are specific to Patients including a welcome heading:

“Welcome to your Image Downloading and Sharing Zone” and an introductory text briefly explaining the purpose and use of this screen.

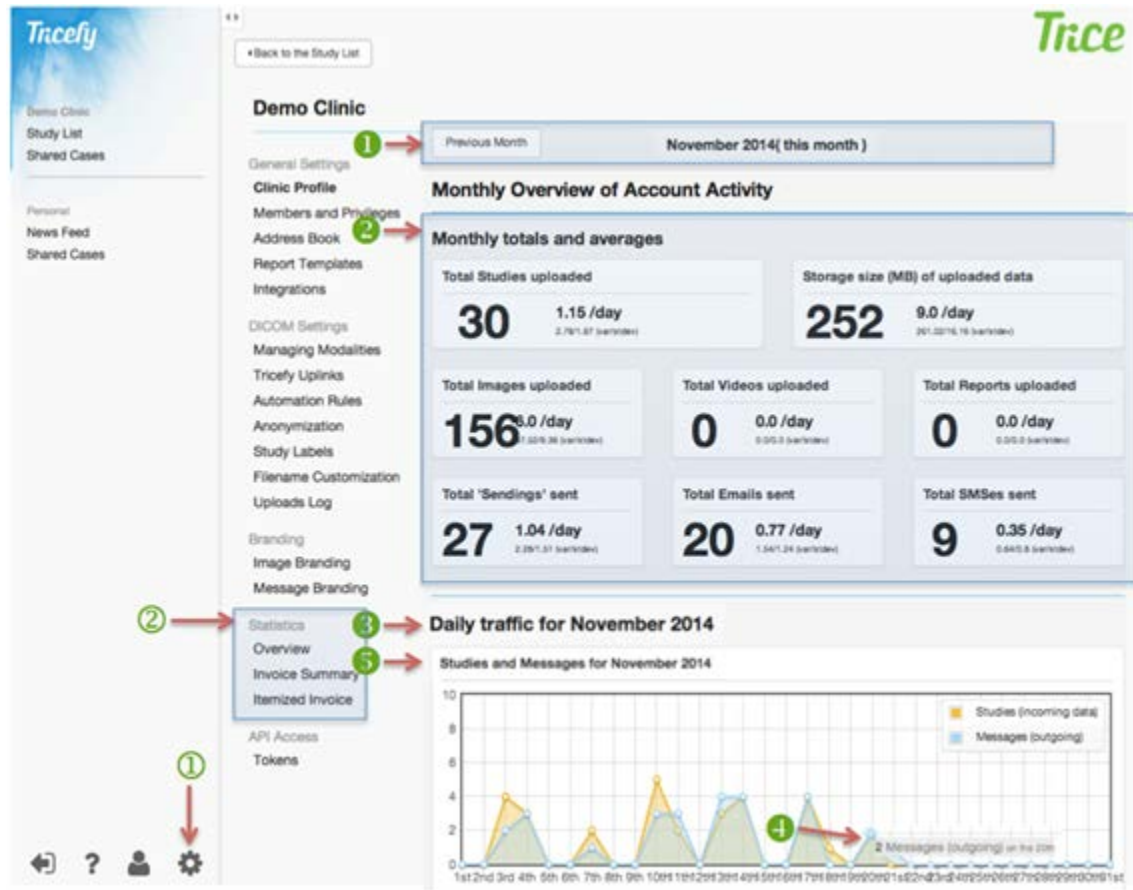


Below this information are a **Download All (.zip)** ③ button used to download all the contents currently visible as a single zip archive. All of these buttons address the entire share/study at once.

All files in the study are listed with a thumbnail one below the other. If there are more than ten files, they are paginated in a manner previously described in this document. Each file is presented with an image area, which, in the case of a cine clip is also a video player. Each file also has a button area. The buttons that are available depend both on the template used and the type of file presented.

Single Images and Video clips have the **Full Size Still Image** button ④. Only Video Clips have four additional buttons ⑤ for opening/saving the video in formats for various devices. These formats are, currently, iPhone Video (for compatibility with the early iPhone devices and other early smartphones,) iPad Video (for compatibility with early iPad devices and tablets,) Windows Video (for full-size Windows-compatible video,) and Macintosh Video (for full-size Mac-compatible video.)

STATISTICS



Statistics^② is the fourth section in the Settings^① menu. It is accessible to Users with Administrator permissions and invisible to those without. The sub navigation contains three items: **Overview** (totals and averages of activities by month), **Invoice Summary** (billable transactions), and **Itemized Invoice** (downloaded as a spreadsheet of monthly transactions).

Overview

Under the first section, titled Overview, Users will find a **Monthly Overview of Account Activity**, which includes monthly totals, averages and graphs of uploads and sends, study sizes, studies by source, file types and hourly usage of the system.

The data is presented in a month-by-month timeline, defaulting to the current month. At the top of the content area^① are **Previous Month** and **Next Month** buttons to step backwards and forwards in time, month by month. If the data is reflecting the current month then the **Next Month** button will not appear. A text label between these shows the current month in view and how distant this is from the current month e.g. "*January 2014 (about 1 month ago)*" or "*February (this month)*."

Data snapshots on this Statistics Overview Screen are presented in three sections: **Monthly Totals and Averages** ², **Daily traffic for Month/Year** timeline that includes four area graphs ³, and **Hourly distribution for Month/Year** area that includes three bar graphs. The area graphs have grid marks with dots at each data point. Rolling over these, the cursor shows a tooltip next to the point with information on the exact value and the **unit of measure** ⁴.

The Daily traffic graphs are laid out with the file counts (0 to 10) as a y-axis and each day of the month along the x-axis. The first graph shows **Studies and Messages** ⁵ for the month using two overlapping area lines in distinct colors. The yellow line represents the number of uploaded **Studies (incoming data)** for each day. The blue line represents the **Messages (outgoing)** sent for each day. This allows account owners to monitor the relationship between the two values for each day.



The screen scrolls as one long set of graphs with the second graph showing **Study Sizes for Month Year** ⁶ using a single yellow line to represent the daily total upload **Study Size in MB** (megabytes.) This allows account owners to monitor the volume of system use and storage requirements.

The third graph, **Studies by modality (AE Title), Month/Year** ⁷ uses one line to represent the number of uploaded studies each day for each of the AE Titles communicating with Tricefy. Each line has a distinct color and the AE Title itself appears in the legend at the upper right of the graph. This gives the account owner an indication

of how many studies each imaging device uploads comparatively. Seeing a complete drop for a particular device is also useful in troubleshooting.

- AE Titles are further described in the [Managing Modalities](#) section of this document.

The fourth graph, **Types of files for Month/Year**⁸ is a stacked bar graph showing the total number of DICOM files uploaded each day. This bar is divided into sections by the type of file being uploaded as images, video clips and SR Reports. There is no rollover on this graph.

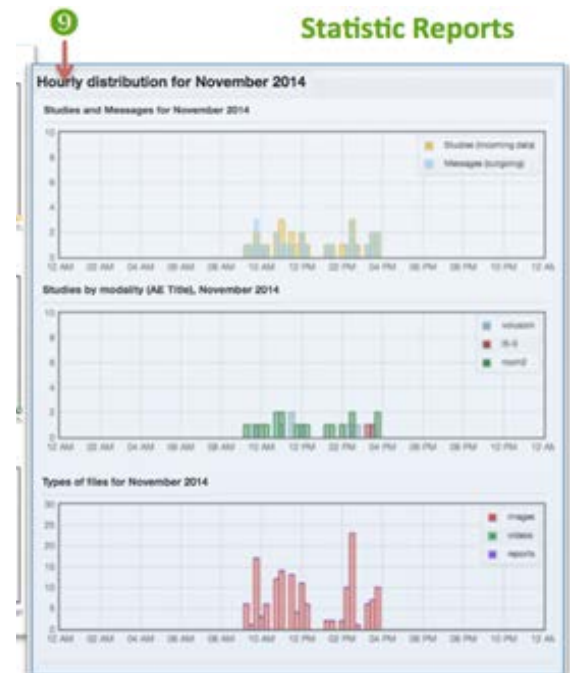
The second section of graphs on the Statistics Screen shows **Hourly distribution for Month/Year**⁹ (from midnight to midnight) of all data for the month in view. This is a second representation of the same data that appears in the first set of area graphs showing it by hours of the day instead of day-by-day.

Times here are according to the time zone defined for the current domain. Each bar represents fifteen minutes of time. None of these graphs have rollover tool tips.

The first graph (**Studies and Messages**) shows two overlapping bars in distinct colors representing the number of uploaded studies and the number of studies sent.

The second graph (**Studies by modality (AE Title)**, **Month/Year**) shows one bar representing the number of uploaded studies for each of the AE Titles as indicated on the AE Titles Screen. Each bar has a distinct color, which gives the account owner an indication of when a device is most active during the day.

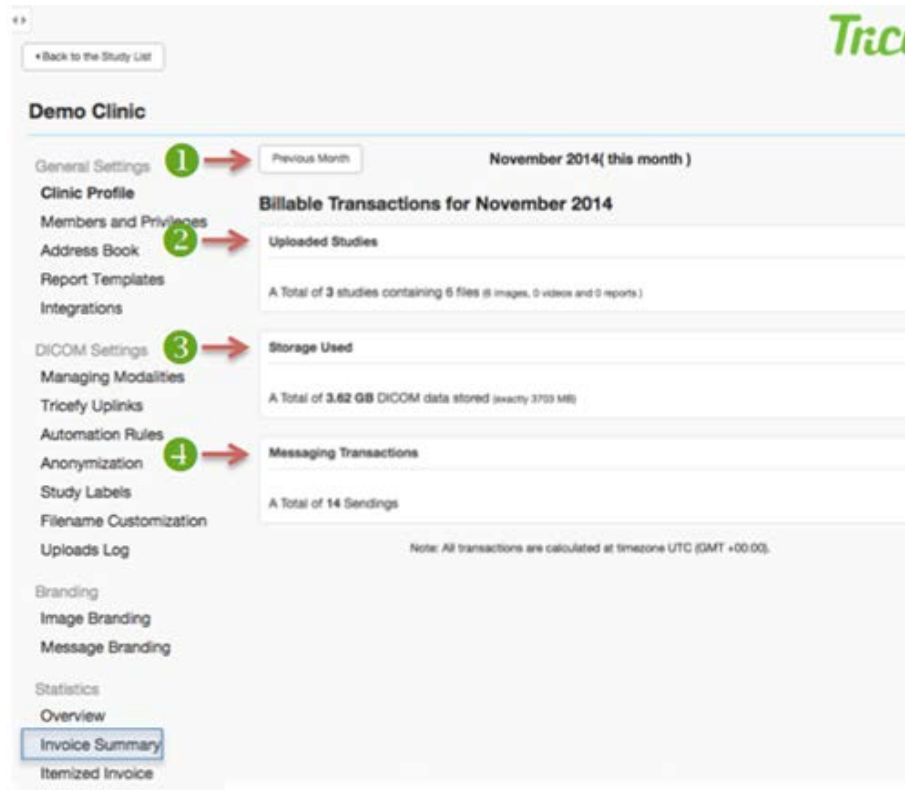
The third graph (**Types of files for Month/ Year**) is a stacked bar graph showing the total number of DICOM files uploaded, divided into sections by the type of file being uploaded, including images, video clips and SR Reports. There is no rollover on this graph.



Invoice Summary

The Statistics Section requires Admin level permissions and is invisible to regular Users. The second part of the section is Invoice Summary and shows a summary of **Billable Transactions for Month/Year**. Users pay for the number of Uploaded Studies as well as **Storage Used and the Messaging Transactions** (number of study Sendings) sent each month. The totals on this screen will match the actual invoices sent to an account on a monthly basis so it can be used when verifying invoice details to the records on file.

The data is presented in a month-by-month timeline, defaulting to the current month on a single screen.



At the top of the content area **1** are **Previous Month** and **Next Month** buttons to step backwards and forwards in time, month by month. If the data is reflecting the current month then the **Next Month** button will not appear. A text label between these shows the current month in view and how distant this is from the current month e.g. *“January 2014 (about 1 month ago),”* or *“February (this month)”*.

The Invoice Screen is divided into three areas. The first line details the number of studies uploaded to Tricefy as **Uploaded Studies** **2** for each of the AE Titles as described on the AE Titles Screen. If there is more than one AE Title associated with the account, each will have its own line including information of how many studies each one uploaded and the breakdown between images, video clips and SR Reports. Below these lines is a summary: *“A Total of X studies containing X files (X images, x videos and x*

reports)” appears. This number should correspond to the number shown on an actual invoice.

The second line, **Storage Used** ③, details the amount of storage being used to host the studies and other data uploaded by the account to Tricefy as: *“A Total of X.XX GB DICOM data stored (exactly XXXX MB).”*

The third area, **Messaging Transactions** ④, details and totals the number of Sendings (studies sent) for the month as: *“A Total of X Sendings.” There is no functionality on this Screen, it is only a report.”*

Data sent to the Tricefy Service through Tricefy Uplink is stored for three months free of charge. Optional Long-Term Storage (LTS) allows an account to keep a remote backup of DICOM data indefinitely and is offered at different levels according to the volume of storage required. Though it will vary by machine and settings, approximately 1,000 images (note: images, not studies) will use 1GB of storage space. Invoicing for optional long-term storage can be coupled with subscription fees and can be invoiced on a monthly or annual basis. As volume accumulates, the required storage space will be automatically increased and invoiced accordingly. No payment information is shown within the Tricefy System.

The Tricefy Subscription Plan is based on the projected annual volume of studies a facility expects to send to the Tricefy Service. A single patient encounter = 1 study. A study can contain an unlimited number of images and/or cine clips. Sharing/PDF tokens can be used for Messaging Transactions” (either “Sharing with Colleagues” or “PDF Export” functionality) and the annual volume of tokens is included in the tier chosen. Customers have the flexibility to change subscription levels at any time and can choose to be invoiced on a monthly or annual* basis. Should a facility send studies in excess of the annual plan, a monthly invoice with overages will be issued at the price-per-study rate of the selected tier. Should a facility use sharing or PDF tokens in excess of their annual plan, a monthly invoice with overages will be issued at the price-per-token rate of the selected tier.

Itemized Invoice

The **Itemized Invoice** data is presented month-by-month, defaulting to the current month on a single screen. Anything for which the account is receiving monthly transaction statements (Uploaded Studies, Storage Used or Messaging Transactions) will appear in separate tables on this screen.

Note: the example here cannot show real data but would populate logically per the column titles.

The data in this table includes automatically sent messages only. Messages sent manually from the web interface are not shown here. Transactions are ordered based on upload timestamp at time zone UTC (GMT +00:00).

Trice

Back to the Study List

Demo Clinic

General Settings **1** Previous Month November 2014(this month)
Clinic Profile
Members and Privileg **2** Monthly transaction log for November 2014
Address Book
Report Templates
Integrations
DICOM Settings
Managing Modalities
Tricely Uplinks
Automation Rules
Anonymization
Study Labels
Filename Customization
Uploads Log
Branding
Image Branding
Message Branding
Statistics
Overview
Invoice Summary
Itemized Invoice
API Access
Tokens

Uploaded Studies **3** Download Spreadsheet

Upload Timestamp	Study Timestamp	Patient Name	Patient ID	Study
November 06, 2014 07:54 PM	November 06, 2014 07:54 PM	DeVore R	unknown-1.3.6.1.4.1.35190.2360684649134527	1.3.6.1.4.1.35190.2360
November 05, 2014 06:49 PM	November 05, 2014 06:49 PM		unknown-1.3.6.1.4.1.35190.19355228279876498	1.3.6.1.4.1.35190.1935
November 05, 2014 06:35 PM	November 05, 2014 06:35 PM	Chapman Test	12121212	1.3.6.1.4.1.35190.3151
November 04, 2014 05:51 PM	November 04, 2014 05:50 PM	Rhodes Benjamin Siles	420	1.3.6.1.4.1.35190.3020

Note: The data in this table includes automatically sent messages only. Messages sent manually from the web interface are not shown here.
Note: Transactions are ordered based on upload timestamp at timezone UTC (GMT +00:00).

Itemized Invoice Spreadsheet Download

Demo - Monthly transaction log for November 2014

Upload Time	Exam Time	Patient Name	Patient ID	Study Unique ID	Image	Video	Message Delivery Time	Message Recipient
014-11-06 19:54:56 UTC	November 06, 2014 07:54 PM	DeVore R	unknown-1.3.6.1.4.1.35190.2360684649134527	1.3.6.1.4.1.35190.2360	0	0	n/a	none
014-11-05 18:49:58 UTC	November 05, 2014 06:49 PM		unknown-1.3.6.1.4.1.35190.19355228279876498	1.3.6.1.4.1.35190.1935	0	0	n/a	none
014-11-05 18:35:36 UTC	November 05, 2014 06:35 PM	Chapman Test	12121212	1.3.6.1.4.1.35190.3151	0	0	n/a	none
014-11-04 17:53:07 UTC	November 04, 2014 05:50 PM	Rhodes Benjamin Siles	420	1.3.6.1.4.1.35190.3020	0	0	n/a	none

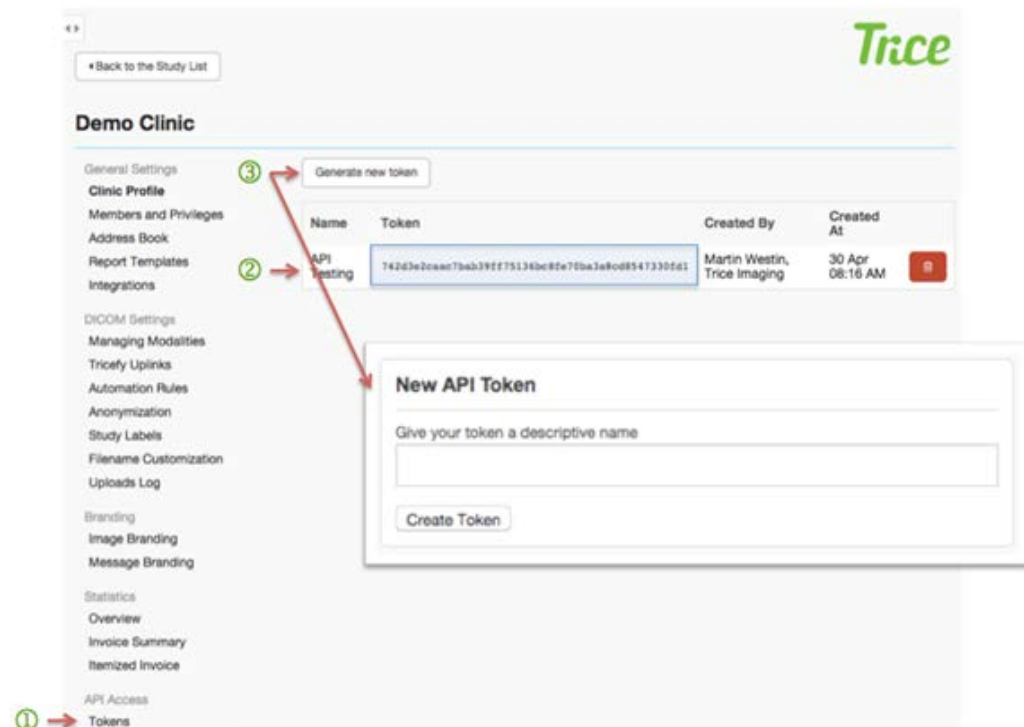
Note: The data in this table includes automatically sent messages only. Messages sent manually from the web interface are not shown here.
Note: Transactions are ordered based on upload timestamp at timezone UTC (GMT +00:00).

At the top of the content area **1** are **Previous Month** and **Next Month** buttons to step backwards and forwards in time, month by month. If the data is reflecting the current month then the **Next Month** button will not appear. A text label between these shows the current month in view and how distant this is from the current month e.g. "*January 2014 (about 1 month ago)*" or "*February (this month)*."

The **Monthly Transaction log for Month/Year** appears in a table ^② that includes the Upload Timestamp, Study Timestamp, Patient Name, Patient ID, Study, Images, Videos, Messaging Timestamp and DICOM Study Recipients. Anything for which the account is receiving monthly transaction statements (**Uploaded Studies, Storage Used or Messaging Transactions**) will appear in its own section as a table. Each segment of data can be downloaded in its entirety as an.xls spreadsheet by clicking **Download Spreadsheet** ^③ in the upper-right hand corner of each transaction log type.

API Access

Users can create higher-level integration with Tricefy for third-party software packages by creating **API tokens**.



These can be generated by entering the Settings area and selecting **Tokens** under **API Access** ^①. Existing tokens will be listed by **Name** and include the token, the creator's name and the date/time it was created ^②. A trashcan button at the end of each line will enable Users to revoke an active token. New API tokens are created by clicking **Generate New Token** ^③ at the top of the screen and entering a name for the token. Clicking **Create Token** will then generate a unique numeric value for the new token and include it in the main list.

Developers can access API Documentation for integration at https://tricefy.com/api_docs .^④

Trice Imaging, Inc. Warranty

Trice Imaging, Inc. wants to assure all customers that the Tricefy Uplink and the Solutions and Services will work as expected or Trice Imaging, Inc. will take responsibility for them. However, this liability is limited things within the control of Trice Imaging, Inc. Accordingly, Trice Imaging, Inc. will, for example, warrant that the Solution will conform with the Specification; however, Trice Imaging, Inc. can only provide this warranty if the Solution has been installed correctly, is being used correctly, that any deviations therewith are communicated promptly and the deviation is evaluated, etc. Accordingly, this Section 6 explains what Trice Imaging, Inc. will legally warrant as well as any restrictions thereon.

Trice Imaging, Inc. only warrants that the Solution will conform with the Specification, included in Appendix 2, provided that: (i) customer has used the Solution in accordance with the Specification, (ii) the Installation has been made in accordance with the Specification, (iii) the Equipment meets the requirements set forth in the Specification and the Solution has only been used with such Equipment, (iv) any deviation from the Specification that may occur is not caused by the Equipment and/or other third party hardware, software, data, or documentation “**Third Party Ware**” or from customer actions or the actions of a telecom provider or other third party; and (v) any deviation from the Specification that may occur materially affects the functionality of the Solution.

Warranty Clinic

Use of the Tricefy Uplink and the Solution and Services to communicate and transfer images as contemplated herein can be governed by various laws and regulations depending on where customers intend to use the Tricefy Uplink and the Solution and Services.

Trice Imaging, Inc. asks that customers take responsibility for ensuring that all such laws and regulations are being followed. Accordingly, Trice Imaging, Inc. needs customers to warrant that they have in fact complied with all applicable laws and regulations and obtain all needed consents and permissions required. This Section 7.0 describes what Trice Imaging, Inc. is asking customers to warrant in this regard.

The customer represents and warrants (i) that they have complied with all Applicable Laws in the Territory and have obtained all other required approvals, and authorizations of all applicable governmental or regulatory authorities (ii) that all of customer’s owners, partners and principals as required agree to enter into, be bound by and to perform the obligations under the Agreement and (iii) that they will obtain from each End-User the required consents and permissions necessary for the transfer of the

Images between the Equipment and Trice Imaging, Inc. and Trice Imaging, Inc.'s processing of the Images in accordance with the Specification.

Customers are also required to provide, solely at their expense, Internet access that enables communication from the Equipment at the Clinic(s) to Trice Imaging, Inc.'s website, as described in the Specification. Trice Imaging, Inc. will also need customers to acknowledge that use of the Solution requires such Internet access and without such, customers will be unable to use the Solution.

Trice Imaging, Inc.'s warranty under this Article 6 only applies provided that customers (i) notify Trice Imaging, Inc. in writing of any such material deviations from the Specification as described in Section 6.1-6.2 herein and within thirty (30) days from when customers discovered or ought to have discovered the deviation, and (ii) at that customers send at their own cost (but see below regarding reimbursement) any necessary material to Trice Imaging, Inc., or to a Trice Imaging, Inc.-appointed third party, needed to assess the deviation. If all of the conditions set forth under these Sections 6.1-6.2 are fulfilled, Trice Imaging, Inc. shall make commercially reasonable efforts to remedy the deviation from the Specification as soon as commercially reasonable, considering the nature of the deviation and any other circumstances at hand. In such situation, Trice Imaging, Inc. will also reimburse the cost of shipping paid by customers.

Australian sponsor:

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