

# User Logging

This page serves as a high level reference guide to what .decimal logs for user interactions with our software. There are 3 difference sections detailed here:

1. **User Authentication for Auth0:** .decimal uses [Auth0](#) as it's user authentication service. As such Auht0 maintains the user login logs for every user.
2. **Customer Applications:** Customer Applications include .decimal developed applications used by end clinical users that are downloaded and installed on the customer's local computers.
3. **decimal Direct:** Users will interact with the decimal Direct website to perform certain tasks. These interactions are logged for each user. In addition, Customer Applications connect to decimal Direct and some actions of the application may be logged.

## User Authentication (Auth0)



**Note: This section is applicable to Auth0 user logins only.**

Auth0 user logins use the user's email as the user name. If your username is not an email you have a legacy login and this section is not applicable.

.decimal uses [Auth0](#) as it's user authentication service. Auth0 provides users logs including:

- Successful & Failed Logins
- Successful Logouts
- Blocked Account (after too many login attempts)

See below for example logs for common Auth0 events:

### [Successful\\_login.json](#)

```
{
  "date": "2022-05-11T12:13:02.783Z",
  "type": "Success Exchange",
  "description": "",
  "connection_id": "",
  "client_id": "<REDACTED>",
  "client_name": "decimal Launcher",
  "ip": "<REDACTED>",
  "user_agent": "Electron 5.0.13 / Windows 10.0.0",
  "details":
```

```
{
  "code": "<REDACTED>"
},
"hostname": "dotdecimal.us.auth0.com",
"user_id": "<REDACTED>",
"user_name": "<REDACTED>",
"log_id": "<REDACTED>",
"_id": "<REDACTED>",
"isMobile": false,
"type_code": "seacft",
"os": "Windows 0.0.0",
"os_version": "0.0.0",
"device": "Other 0.0.0",
"device_version": "0.0.0"
}
```

### Incorrect\_password.json

```
{
  "date": "2022-05-11T13:24:10.066Z",
  "type": "fp",
  "description": "Wrong email or password.",
  "connection": "decimal",
  "connection_id": "<REDACTED>",
  "client_id": "<REDACTED>",
  "client_name": "decimal Launcher",
  "ip": "<REDACTED>",
  "user_agent": "Electron 5.0.13 / Windows 10.0.0",
  "details": {
    "error": {
      "message": "Wrong email or password."
    }
  },
  "user_id": "<REDACTED>",
  "user_name": "<REDACTED>",
  "strategy": "auth0",
  "strategy_type": "database",
  "log_id": "<REDACTED>",
  "_id": "<REDACTED>",
  "isMobile": false
}
```

### Blocked\_user.json

```
{
  "date": "2022-05-11T13:54:35.190Z",
```

```
{
  "type": "limit_wc",
  "description": "User (<REDACTED>) attempted 10 consecutive logins
  unsuccessfully. Brute force protection is enabled for this connection,
  further attempts are blocked from this IP address for this user.",
  "connection": "decimal",
  "connection_id": "<REDACTED>",
  "client_id": "<REDACTED>",
  "ip": "68.202.104.120",
  "user_agent": "Electron 5.0.13 / Windows 10.0.0",
  "hostname": "dotdecimal.us.auth0.com",
  "user_id": "",
  "user_name": "<REDACTED>",
  "log_id": "<REDACTED>",
  "_id": "<REDACTED>",
  "isMobile": false
}
```

## Customer Applications

Customer Applications include .decimal developed applications used by end clinical users that are downloaded and installed on the customer's local computers. These may include, but are not limited to: p.d, decimal3D, decimal Launcher, and decimal eRT. See each application below for an example activity log.

### p.d

p.d logs the local user activity and records the following information to it's local patient database:

Log Item	Description
username	The username/email of the user performing the action
patientName	An encrypted string for the patient the log entry applies to
medicalRecordNumber	An encrypted string for the patient the log entry applies to
uniquePlanName	An encrypted string for the plan the log entry applies to
planName	An encrypted string for the plan the log entry applies to
logDate	The local date time of the log entry
logEvent	The event that the log entry is for (see below for an itemized list)

logEvents include, but are not limited to:

- User log in
- User log out

- Plan Opens
- Plan Saves
- Plan Closes
- Orders placed to decimal Direct
- Local and DICOM AE file exports (e.g.: DICOM)
- Patient deletion

## decimal3D

[decimal3D](#) logs the local user activity and records the following information to its local patient database. This information is exportable from the Advanced menu option within the application.

Log Item	Description
User ID	The username/email of the user performing the action
Action	The action the user performed (see below for an itemized list)
Date/Time	The local date time the action was performed

Actions include, but are not limited to:

- User log in attempts
- User log in success/fail
- User log out
- View patients list
- View patient info (including patient MRN)
- Create new scans/contours
- Orders placed to decimal Direct (including beam name)
- Local and AE file exports (e.g.: DICOM)
- Patient deletion

## decimal eRT

[decimal eRT](#) logs the local user activity and records the following information to its local patient database. This information is exportable from the Organization Configuration → Export Logs block within the application.

Log Item	Description
Hardware ID	Local Windows computer name
ID	The ID of the corresponding Data Type of the log entry
Date	The date time of the log entry
Log Event	The even that was logged (see below for an itemized list)
Data Type	What data caused to the log entry (see below for an itemized list)
Username	The users first and last name that caused the log entry

Log Event's include, but are not limited to:

- Import Patients
- View Patients
- Open Patients
- Import Courses
- Update Course
- Create Plans
- Update Plans
- Clone Plans
- Open Plans
- Update Organization
- Export DICOM files locally
- Export DICOM files to AE service
- Approve Plans
- Order files to decimal Direct
- Export Reports

Data Type's include, but are not limited to:

- Application (root level interactions without a specific data to link to)
- Organization
- Patient
- Course
- Plan
- Export
- Order

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## decimal Direct

Users will interact with the decimal Direct website to perform certain tasks.

For each logged interaction in Direct the following is recorded:

Log Item	Description
UserID	Internal .decimal user ID that links to a user
Log Route	The API route (i.e.: action taken) for the log
Parameters	The parameters of the action
TimeStamp	The data time (as Eastern Time) of the action

## Normal User Interactions

A normal user interaction includes any non-elevated user tasks that are performed. Normal user interactions that are logged include:

Log Category	Log Event
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<b>Login (legacy non-Auth0 users only)</b>	<b>Login attempt</b>
	<b>Login success/fail</b>
<b>Ordering</b>	<b>Order File Upload</b>
	<b>Order Placed</b>
<b>User Preferences</b>	<b>Email Notifications Changed</b>
	<b>Password changed (legacy non-Auth0 users only)</b>

- **Login** (legacy non-Auth0 users only)
  - Login attempt
  - Login success/fail
- **Ordering**
  - Order File Upload
  - Order Placed
- **User Preferences**
  - Email Notifications
  - Password change (legacy non-Auth0 users only)

## Manager Interactions

A manager user interaction includes any elevated user tasks that are performed by the site manager within the Management pages. Manager user interactions that are logged include:



## Application Integrations

Other .decimal applications that connect to decimal Direct and .decimal logs some integration connections for diagnostic trouble shooting. These interactions include and capture:

Log Event	Captured Data
Application Login	User
	Date Time
	Site ID
	Application
Website Legacy User Login	User
	Date Time
Website Auth0 User Login	User
	Date Time

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