

# User Logging

## User Authentication (Auth0)

.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

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 it's 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
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

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## decimal Direct

### HTTPS API Logs

From:

<http://apps.dotdecimal.com/> - **decimal App Documentation**

Permanent link:

[http://apps.dotdecimal.com/doku.php?id=support:user\\_logging&rev=1652279433](http://apps.dotdecimal.com/doku.php?id=support:user_logging&rev=1652279433)

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