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

decimal Direct

HTTPS API Logs
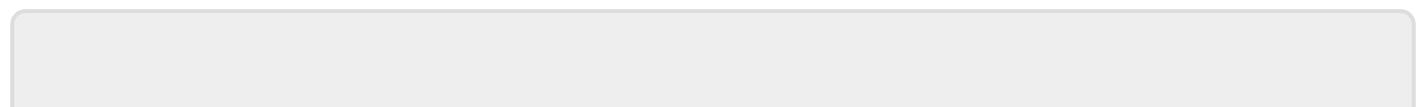
From:
<https://apps.dotdecimal.com/> - **decimal App Documentation**

Permanent link:
https://apps.dotdecimal.com/doku.php?id=support:user_logging&rev=1652279146

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