

# Uplevel Data Redaction Process

## Overview

Uplevel uses metadata from your calendar, messaging, work management (Jira), and version control tools and uses that data to provide insights that help teams meet their product release goals at a sustainable pace. In order to perform the analysis, only certain data points are needed from these tools, so the raw input goes through an onprem redaction process prior to being sent to the Uplevel team.

## Data Flow

Data flows from each tool connected to the Uplevel platform into the Connector Hub. The Connector Hub is a Node JS installed on premise and is inaccessible by the Uplevel team. The raw data is redacted in memory and the redacted outputs are stored on the VM in readable JSON format. A full audit of these files can take place prior to sending data to the Uplevel team.

## Redaction Process and Example

Only certain data points are needed for the Uplevel analysis. All other data is dropped. For the data that is kept, our tool runs additional regexes to identify anything sensitive, such as keys, secrets, and code blocks (triple backticks) .

For example, this message with an AWS key:

```
"message": "sample key: AKIAIOSFODNN7EXAMPLE"
```

Will be redacted to:

```
"message": "sample key: [REDACTED_SENSITIVE_ACCESS_KEY_ID]"
```

⚠ Since the redaction process is based on JSON data, specific fields in JSON responses from different API requests do require complete removal.

For instance, below is an example of a commit metadata response from an API request. Note that the patch field has been completely [REDACTED] for each edited file:

```

{
  "sha": "4a03d9532f3c2cc0502cc6f1dbefd3e4e1b62907",
  "commit": {
    "message": "code clean up and adding test coverage",
  },
  "committer": {
    "login": "ejiro",
    "id": 513679,
  },
  "parents": [],
  "stats": {
    "total": 11579,
    "additions": 7662,
    "deletions": 3917
  },
  "files": [
    {
      "sha": "88accfc55dcaef84f220d1789283f6d8b241792a",
      "filename": "test/routes/scheduler.test.js",
      "status": "modified",
      "additions": 2,
      "deletions": 1,
      "changes": 3,
      "patch": "[REDACTED]"
    },
    {
      "sha": "b39649f3776d4a6a578cea8c5ff3cbfb5cbc1d2d",
      "filename": "test/routes/settings/index.test.js",
      "status": "modified",
      "additions": 2,
      "deletions": 1,
      "changes": 3,
      "patch": "[REDACTED]"
    },
    .
    .
    .
  ]
}

```

### Custom Redaction

If there are fields noted during review that need to be redacted, there is the possibility of enabling custom regexes in order to remove objects. Please contact your Uplevel representative for more information.