Performance Platform Documentation Release 1.0

Performance Platform

Contents

1	Adding data	3				
2	Emptying a data set	5				
3	3 Client implementations					
4	4 Glossary					
5	Get a Performance Platform dashboard 5.1 Before you start	11 11				
H	TTP Routing Table	15				

We expose a simple HTTP API for storing data in the Performance Platform.

There is one endpoint per data-set that can accept one or more JSON records being sent to it via a POST. We use OAuth 2.0 Bearer tokens to authenticate attempts to write to a data set.

You authorize each request by adding an Authorization header with the secret access token you should have been provided for each data-set.

The client request:

- should use a URL like https://<write-host>/data/<data-group>/<data-type>, where <write-host> could be something like www.performance.service.gov.uk
- must have an HTTP Content-Type header of application/json
- must have a valid Authorization header

The backdropsend tool provides a command line interface to the API. This adds support for retrying.

Contents 1

2 Contents

Adding data

```
POST /data/ (string: data_group) /
    string: data_type
```

Synopsis Insert data into a data set by sending a POST request with JSON in the body.

Example request:

All of the above headers are important.

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
{
    "status": "ok"
}
```

Request Headers

- Authorization required OAuth token to authenticate the request
- Content-Type type of the request body (only JSON is currently supported)

Request JSON Object

- **_timestamp** (*string*) A datetime representing the start of the period that the data refers to. Required.
- _id (string) A string that uniquely identifies that record. If a record with that identifier already exists, it will be overwritten. Optional.

Status Codes

• 200 OK – data from the request body was stored in the data set

Emptying a data set

```
PUT /data/ (string: data_group) /
    string: data_type
```

Synopsis Empty a data set by sending an empty array as a PUT request.

Example request:

```
PUT /data/carers-allowance/transaction-count HTTP/1.1
Host: www.performance.service.gov.uk
Authorization: Bearer abcdefghijklmnopqrstuvwxyz0123456789abcdefghijklmnopqrstuvwxyz01
Content-Type: application/json

[]
```

Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
{
    "message": "carers_allowance_transaction_count now contains 0 records",
    "status": "ok"
}
```

Request Headers

• Authorization – required OAuth token to authenticate the request

Status Codes

• 200 OK – data set now contains no records

Client implementations

We provide several implementations of client code to talk to the Performance Platform:

- Go
- Java implementation intended to periodically poll a JDBC data store and push data Performance Platform
- JavaScript
- Python

Glossary

Aggregate Applying a function to a Measure, such as summing, calculating the mean etc

Backdrop An application that is part of the performance platform. It provides the read and write API for data.

Chart A graphical representation of a Measure and a Dimension (eg number of applications by channel)

Dashboard A page showing multiple metrics, typically for a single service

Dataset A collection of data of a particular type. In relational terms, this is a table. In non-relational terms, this is a collection of documents.

Data type Each *Dataset* stores a particular type of data, eg current traffic volume

Dimension A non-numeric type of :term: Field eg an operating system or browser

Element A component of a Visualisation such as a chart or aggregate summary

Field A 'column' in a dataset

Measure A numeric type of :term: Field, eg number of applications. A Measure may be aggregated

Metric A specific data series, eg completion rate, user satisfaction, page load time, uptime etc

Module A module is a metric and a visualisation together, eg digital take-up shown as a line chart

Observation A 'row' in a dataset

Service A transactional service is a facility that enables users to exchange informsation, money, permissions, goods etc with government. For example: Renew you car tax, Apply for Carer's Allowance, Apply for a fishing rod licence etc.

Service Group A group of closely related services, eg Carer's Allowance service group includes applications, existing claims, appeals etc

Spotlight An application that is part of the performance platform. It is responsible for rendering data from the *Backdrop* API to display visualisations of service performance

Stageprompt A JavaScript library that provides an adapter over analytics software

Transaction An exchange of information, money, permissions, goods etc that takes place between government and users (individuals, businesses and other organisations). Examples include an application for a passport, a renewal of a patent, an update to the Organ Donation Register. A transaction will usually result in a new (or amended) government record.

Visualisation A set of Elements using the Measures and Dimensions from the Dataset

10

Get a Performance Platform dashboard

This page explains how to get a dashboard on the Performance Platform.

A published dashboard is a requirement of the Digital by Default Service Standard, which all transforming services must meet. All services, whether transforming or not, need to provide data on transaction volumes every quarter.

Before you start

Please discuss your dashboard requirements with whoever will be signing off the publication of the dashboard as soon as possible.

How to get a dashboard

A standard dashboard for transactional services includes four mandatory KPIs.

- Cost per transaction (the average cost to the government of each completed transaction)
- User satisfaction (how satisfied users feel after completing a transaction online)
- · Completion rate (the percentage of users who complete a digital transaction once they have started it)
- Digital take-up (percentage of all transactions which are completed using digital channels)

How to get a transactional services dashboard

To get a dashboard, email the following information to performance@digital.cabinet-office.gov.uk. You can use the same address for further enquiries about dashboards and the Performance Platform.

Your contact details	Your nameYour email addressYour phone number
Service description	 The name of your service Short description of what the service does and who its intended users are URL of the service start page (and the start page on GOV.UK if this is different)

We'll need access to the following data in a format that can be read by our database. Please send details of the data, but do not put the data itself in an email.

Digital take-up	Send a completed copy of the transactions by channel		
spreadsheet We will take your costs data from the transcollection run every quarter by GDS. All services included in this exercise are liperformance Platform's services page. If your service isn't listed, email Clifford Shalf your service doesn't have cost information to calculate it.			
User satisfaction	• URL for your GOV.UK 'done' page. You can get a 'done' page by clicking 'content change' on the GOV.UK support site. If you can't access this, please speak to the GDS point of contact in your department. If you capture user satisfaction in a different way please tell us and we'll try to include it.		
Completion rate	 If you use Google Analytics we need: View and read permissions for googleapi@digital.cabinet-office.gov.uk Details of at least one goal that allows us to calculate the completion rate Your View ID Let us know if you use a different analytics provider (e.g. Webtrends, Piwik). Name and email address of people who will upload the data on an ongoing basis We can also use the digital take-up data to show transactions by channel. 		

If you would prefer to use our platform API to automate the upload of any data please let us know.

Once we have this information we can publish your dashboard to a non-linked, non-searchable URL.

When the dashboard is complete and signed-off, it will be made publicly available.

Keeping your dashboard up to date

You own the data in the dashboard and are responsible for maintaining its quality.

If your dashboard is supported by an API then this data will update automatically.

If your dashboard is supported by spreadsheet data you'll need to regularly upload current data which will then automatically display in the dashboard. You do this using a GOV.UK Sign on account, which we can create/update for you.

Performance Platform Documentation, Release 1.0							

/data

16 HTTP Routing Table

Aggregate, 9 В Backdrop, 9 C Chart, 9 D Dashboard, 9 Data type, 9 Dataset, 9 Dimension, 9 Ε Element, 9 F Field, 9 Μ Measure, 9 Metric, 9 Module, 9 0 Observation, 9 S Service, 9 Service Group, 9 Spotlight, 9 Stageprompt, 9 Transaction, 9 ٧ Visualisation, 9

Α