



Flux Fact Sheet

# Data Access

Flux supports a modern data access model that prioritises clients having easy, secure access to their data. Our approach means that clients can use their data in the ways they need to grow their business.

## DATA IMPORTS AND EXPORTS

Flux exports data in entity form to AWS S3 buckets, which can be ingested by clients using the data platform of their choice. This gives clients maximum flexibility about how they use their data.

Existing data entities are listed below. If a client requires a new entity to be added to the Flux schema this can be built under our Services agreement.

- Account Debts
- Accounts
- Billing Agents
- Connections
- Connection Switches
- Consumer Billings
- Consumer Group Membership
- Consumer Loyalty Cards
- Consumer Rates
- Consumers
- Costs
- Custom Attribute Definitions
- Field Service Requests
- Meter Usage
- Monthly Account Statements
- Networks
- Payment Arrangements
- Promotions
- Register Readings
- Registers
- Subscriptions
- Tickets
- Transaction Details
- Transactions

Flux supports ingestion of data via flat files supplied through either S3 or FTP.

### Customer segmentation

A question we hear a lot is how much flexibility do clients have to classify their customer base on select criteria for reporting and targeting purposes. Flux supports this need via custom attributes, a capability that allows clients to customise their own classifications of accounts, consumers and connections. These are flexible and can be configured to provide client specific segments for the tagging of accounts, consumers or connections.

We also support customer account level segmentation, which can then be used within the Flux platform for use with business logic for specific tasks and actions (e.g. debt management).

## APIs

The Flux platform exposes RESTful APIs that allow for reading and writing data from the system. These APIs are authenticated through OAuth2.0 and documented using OpenAPI (Swagger) specifications. API documentation is available on request.

Flux continues to expose APIs and events as we build out functionality. Our offering continues to expand but includes APIs that enable the management of the following capabilities:

- Usage, including calculated consumption and estimated usage
- Connections & meters
- Supply agreements (contracts)
- Invoices, credit notes, & pending charges
- Parties
- Plans and charges
- Account balance/payments/debts

### API access

Access to APIs are controlled utilising OAuth2 tokens; clients that can create tokens are provisioned within the application.

### API version control

API versions are incremented on a breaking change where a breaking change is described as:

- Removal of existing data.
- Renaming an existing field.
- Addition of a new mandatory field.
- A change to existing expected behaviour.

We do not consider the following to be a breaking change:

- The addition of a new property on a GET request.
- The addition of a new optional property on PUT or POST request.
- Adding additional behaviour.

## EVENTS

Flux utilises SNS and Kafka to provide eventing within the product; when integrating with external systems we will build adapters responsible for the integration, which can be triggered by events if appropriate.