SPARROW

Transact, Grow, SPARROW.

Echo Web Services

Invocation Specification

Version 3.2.0 (Build 7373)

Released September 2016

Revision History

Date	Revision	Comments	Author
2016-03-31	1.0	Initial document created	Vlad Volosuk
2016-04-05	1.1	User Agent header is added	Vlad Volosuk

Table of Contents

Overview

The Sparrow Gateway has ability to delivery Echo events to the external web systems. This document provides details how such invocations are performed.

Payload Formats

The Sparrow Gateway uploads Echo events to external web systems in a form of HTTP POST requests. The payload is passed in the request's body. The format of the payload is dictated by the selected data scheme: plain text, CVS, and XML. Additionally, there are two special payload formats supported: pgp-encrypted payload and test payload (that is used for "Test Connection" procedure).

Below these formats are described in details. For following terms are used in the examples:

Term	Description
<WEB-SERVICE-URL>	The address specified in the Echo External System (with "Connection Type = Web").
<FILENAME>	The virtual filename for upload data. It is based on the filename specified in the Data Scheme.
<GATEWAY-VERSION>	The current version of the gateway in the format X.Y.Z (e.g. 2.9.7)

Text Payload

The text payload is used with data schemes with Format=TXT for external systems without encryption enabled (Use Encryption = None).

Here is an example of a HTTP request with such payload:

```
POST <WEB-SERVICE-URL>?path=<FILENAME> HTTP/1.1
Content-Type: text/plain
User-Agent: SparrowOne Gateway/<GATEWAY-VERSION>

field1=value1&field2=value2…
```

XML Payload

The XML payload is used with data schemes with Format=XML for external systems without encryption enabled (Use Encryption = None).

Here is an example of a HTTP request with such payload:

```
POST <WEB-SERVICE-URL>?path=<FILENAME> HTTP/1.1
Content-Type: application/xml
User-Agent: SparrowOne Gateway/<GATEWAY-VERSION>

<event>
      <field1>value1</field1>
      <field2>value2</field2>
      …
<event>
```

CSV Payload

The CSV payload is used with data schemes with Format=CSV for external systems without encryption enabled (Use Encryption = None).

Here is an example of a HTTP request with such payload:

```
POST <WEB-SERVICE-URL>?path=<FILENAME> HTTP/1.1
Content-Type: test/csv
User-Agent: SparrowOne Gateway/<GATEWAY-VERSION>

field1,field2,…
value1,value2,…
```

PGP Encrypted Payload

The PGP encrypted payload is used with any data schemes for external systems with PGP encryption enabled (Use Encryption = PGP).

Here is an example of a HTTP request with such payload:

```
POST <WEB-SERVICE-URL>?path=<FILENAME> HTTP/1.1
Content-Type: application/pgp-encrypted
User-Agent: SparrowOne Gateway/<GATEWAY-VERSION>

…encrypted-data…
```

Test Text Payload

When a user clicks on “Test Connection” button for an external system with “Use Encryption = None” the following request is sent:

```
POST <WEB-SERVICE-URL> HTTP/1.1
Content-Type: text/plain
User-Agent: SparrowOne Gateway/<GATEWAY-VERSION>

connection testing
```

Test PGP Encrypted Payload

When a user clicks on “Test Connection” button for an external system with “Use Encryption = PGP” the following request is sent:

```
POST <WEB-SERVICE-URL> HTTP/1.1
Content-Type: application/pgp-encrypted
User-Agent: SparrowOne Gateway/<GATEWAY-VERSION>

…encrypted-data…
```

where encrypted-data is “connection testing” string in the encrypted form.