Secure Local Communication API

A RESTful API for secure local communication
More information: https://helloreverb.com
Contact Info: hello@helloreverb.com
Version: 1.0.0

Access

Methods

[Jump to [Models](#)]

Table of Contents

[Default](#)

Default

POST /keyexchange   [Up](#)

Perform a secure key exchange (**keyexchangePost**)

Consumes
This API call consumes the following media types via the Content-Type request header:

- application/json

Request body

body [KeyExchangeRequest](#) (required)
Body Parameter —

Return type
[KeyExchangeResponse](#)

Example data
Content-Type: application/json

```
{
   "shared_secret" : "",
   "nonce" : ""
}
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200
OK [KeyExchangeResponse](#)
400
Bad Request [Error](#)
500
Internal Server Error [Error](#)

GET /qkd-historical

Retrieve historical QKD keys (**qkdHistoricalGet**)

Returns a list of historical QKD keys for a given time range

Query parameters

start_date (required)
Query Parameter — The start date of the time range to retrieve keys for (ISO-8601 format)
format: date-time

end_date (required)
Query Parameter — The end date of the time range to retrieve keys for (ISO-8601 format)
format: date-tim

Return type
[inline_response_200_1](#)

Example data
Content-Type: application/json

```
{
  "keys" : [ {
    "qkd_id" : "qkd_id",
    "key" : "key",
    "timestamp" : "2000-01-23T04:56:07.000+00:00"
  }, {
    "qkd_id" : "qkd_id",
    "key" : "key",
    "timestamp" : "2000-01-23T04:56:07.000+00:00"
  } ]
}
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses
200
A list of historical QKD keys [inline_response_200_1](#)
400
Invalid request parameters
500
Internal server error

POST /qkd-keys

Request a QKD ID and key (**qkdKeysPost**)

Use this endpoint to request a QKD ID and key. This endpoint requires authentication with a valid

Krystals signature. Results are also encrypted with Kyber.

Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

Request body

body qkdkeys_body (optional)
Body Parameter —

Return type

inline_response_200

Example data

Content-Type: application/json

```
{
  "id" : "id",
  "key" : "key"
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200
OK inline_response_200
401
Unauthorized
500
Internal server error

Models

[Jump to Methods]

Table of Contents

Error   **Up**

error (optional)
String The error message

KeyExchangeRequest   **Up**

public_key

byte[] The public key of the sender format: byte

nonce
byte[] A nonce for the request format: byte

KeyExchangeResponse   **[Up](#)**

shared_secret
byte[] The shared secret key format: byte

nonce
byte[] A nonce for the response format: byte

inline_response_200   **[Up](#)**

id (optional)
String The QKD ID

key (optional)
String The QKD key

inline_response_200_1   **[Up](#)**

keys (optional)
array[inline_response_200_1_keys]

inline_response_200_1_keys   **[Up](#)**

qkd_id (optional)
String The ID of the QKD session

key (optional)
String The QKD key

timestamp (optional)
Date The timestamp when the key was generated format: date-time

qkdkeys_body   **[Up](#)**

username (optional)
String

password (optional)
String