

gw-public-key HTTP/TLS/JSON

Interface Design Description

Abstract

This document describes a HTTP protocol with TLS payload security and JSON payload encoding variant of the **gw-public-key** service.

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1 Overview

This document describes the **gw-public-key** service interface, which provides the public key of the system. It's implemented using protocol, encoding as stated in the following table:

Profile type	Type	Version
Transfer protocol	HTTP	1.1
Data encryption	TLS	1.3
Encoding	JSON	RFC 8259 [1]
Compression	N/A	-

Table 1: Communication and semantics details used for the **gw-public-key** service interface

This document provides the Interface Design Description IDD to the *gw-public-key – Service Description* document. For further details about how this service is meant to be used, please consult that document.

The rest of this document describes how to realize the **gw-public-key** service HTTP/TLS/JSON interface in details.

2 Interface Description

The service responds with the status code 200 `Ok` if called successfully. The error codes are, 401 `Unauthorized` if improper client side certificate is provided and 500 `Internal Server Error` if Authorization is unavailable.

```
1 POST /gateway/publickey HTTP/1.1
```

Listing 1: An `gw-public-key` invocation.

```
1 "thisisthebase64publickeyjsonstring"
```

Listing 2: An `gw-public-key` response.

3 Data Models

Here, all data objects that can be part of the service calls associated with this service are listed in alphabetic order.

3.1 struct **PublicKey**

Base64 encoded JSON String.

3.2 Primitives

JSON Type	Description
String	An arbitrary UTF-8 string.

4 References

- [1] T. Bray, "The JavaScript Object Notation (JSON) Data Interchange Format," RFC 8259, Dec. 2017. [Online]. Available: <https://rfc-editor.org/rfc/rfc8259.txt>



ARROWHEAD

Document title
gw-public-key HTTP/TLS/JSON
Date
2023-03-21

Version
4.6.0
Status
RELEASE
Page
7 (7)

5 Revision History

5.1 Amendments

No.	Date	Version	Subject of Amendments	Author
1	YYYY-MM-DD	4.6.0		Xxx Yyy

5.2 Quality Assurance

No.	Date	Version	Approved by
1	YYYY-MM-DD	4.6.0	Xxx Yyy