

RawConfig HTTP/TLS/*

Interface Design Description

Service ID: *"rawconfig"*

Abstract

This document describes the RawConfig service IDD for HTTP/TLS/*.



ARTEMIS Innovation Pilot Project: Arrowhead
THEME [SP1-JTI-ARTEMIS-2012-AIPP4 SP1-JTI-ARTEMIS-2012-AIPP6]
[Production and Energy System Automation Intelligent-Built environment and urban infrastructure for sustainable and friendly cities]

Contents

1 Overview	3
2 Service Interfaces	4
2.1 function GetRawConfig	4
3 Information Model	4
4 References	5
5 Revision History	6
5.1 Amendments	6
5.2 Quality Assurance	6



ARROWHEAD

Document title
RawConfig HTTP/TLS/*
Date
2021-03-29

Version
1.0
Status
DRAFT
Page
3 (6)

1 Overview

This document describes the HTTP/TLS/* variant of the RawConfig Eclipse Arrowhead service. The RawConfig service is used to store and manage configurations and settings for application systems in a local cloud.

This document exists as a complement to the *RawConfig – Service Description* (RawConfig SD) 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 RawConfig service using HTTP [1] and TLS [2], both in terms of its interfaces (Section 2) and its information model (Section 3).

2 Service Interfaces

This section lists the interfaces that must be exposed by the Config service in alphabetical order. In particular, each subsection first names the HTTP method and path used to call the interface, after which it names an abstract interface from the RawConfig service's SD document, as well as input and output types. All interfaces in this section respond with the HTTP status code 200 OK if called successfully, unless otherwise is stated.

2.1 GET /configuration/config/raw/\$systemName

Interface: **GetRawConfig**

Called to get a black-box or binary raw configuration file that has been stored using **Store**. The output is Base64-decoded data (without the encapsulating JSON object). An example of a plain text configuration file is given in Listing 1.

```
1 GET /configuration/config/raw//examplesystem1 HTTP/1.1
2
3 port=8801
4 path="example/path"
5 ip="10.0.0.23"
```

Listing 1: A **GetRawConfig** invocation.

Code	Type	Description
200	OK	No error
400	BAD REQUEST	Bad input
401	UNAUTHORIZED	No valid authorization
404	NOT FOUND	No valid configuration found
500	INTERNAL SERVER ERROR	Database error etc

Table 1: GetRawConfig status code responses

3 Information Model

The RawConfig service does not restrict the information model and handles black-box / binary data configuration files. Configuration data in JSON format is handled by the Config service.

4 References

- [1] R. Fielding and J. Reschke, "Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing," RFC 7230, 2018, RFC Editor. [Online]. Available: <https://doi.org/10.17487/RFC7230>
- [2] E. Rescorla, "The Transport Layer Security (TLS) Protocol Version 1.3," RFC 8446, 2018, RFC Editor. [Online]. Available: <https://doi.org/10.17487/RFC8446>



ARROWHEAD

Document title
RawConfig HTTP/TLS/*
Date
2021-03-29

Version
1.0
Status
DRAFT
Page
6 (6)

5 Revision History

5.1 Amendments

No.	Date	Version	Subject of Amendments	Author
1	2021-01-15	0.1	Initial	Jens Eliasson
2	2021-01-25	0.5	Text update	Jens Eliasson
3	2021-02-06	0.8	Data models	Jens Eliasson
4	2021-02-09	0.9	Updated service interfaces	Jens Eliasson
4	2021-02-09	1.0	Final version	Jens Eliasson

5.2 Quality Assurance

No.	Date	Version	Approved by
1			