

unregister-system

Service Description

Abstract

This document provides service description for the **unregister-system** service.

Contents

1 Overview	3
1.1 How This Service Is Meant to Be Used	4
1.2 Important Delimitations	4
1.3 Access policy	4
2 Service Interface	5
2.1 interface HTTP/TLS/JSON	5
3 Information Model	6
3.1 struct QueryParams	6
3.2 Primitives	7
4 References	8
5 Revision History	9
5.1 Amendments	9
5.2 Quality Assurance	9

1 Overview

This document describes the **unregister-system** service, which enables autonomous system unregistration, therefore it is an integral part of the implementation of service discovery requirements in Service Registry Mandatory Core System. Examples of this interaction is a system that part of the Local Cloud, but for certain reasons the system should be terminated.

The rest of this document is organized as follows. In Section 2, we describe the abstract message functions provided by the service. In Section 3, we end the document by presenting the data types used by the mentioned functions.



ARROWHEAD

Document title
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Status
RELEASE
Page
4 (9)

1.1 How This Service Is Meant to Be Used

The given application system is required to use the **unregister-system** service right before its shutdown or any time when no longer wanted to being part of the local cloud.

1.2 Important Delimitations

No delimitations.

1.3 Access policy

Available for anyone within the local cloud, but in case of secure mode the system is allowed to unregister only when its system name is matching to the system name part of its certificate common name.

2 Service Interface

This section describes the interfaces to the service. The **unregister-system** service is used to unregister a system. Various parameters are representing the necessary system input information. In particular, each subsection names an interface, an input type and an output type, in that order. The input type is named inside parentheses, while the output type is preceded by a colon. Input and output types are only denoted when accepted or returned, respectively, by the interface in question. All abstract data types named in this section are defined in Section 3.

The following interfaces are available.

2.1 interface **HTTP/TLS/JSON (QueryParams)** : void

Profile type	Type	Version
Transfer protocol	HTTP	1.1
Data encryption	TLS	1.3
Encoding	URL	RFC 1738
Compression	N/A	-

Table 1: HTTP/TLS/JSON communication details.

3 Information Model

Here, all data objects that can be part of the **unregister-system** service provides to the hosting System are listed in alphabetic order. Note that each subsection, which describes one type of object, begins with the *struct* keyword, which is used to denote a collection of named fields, each with its own data type. As a complement to the explicitly defined types in this section, there is also a list of implicit primitive types in Section 3.2, which are used to represent things like hashes and identifiers.

3.1 struct QueryParams

Field	Type	Mandatory	Description
systemName	Name	yes	Identifier of the provider system.
address	Address	no	Network address.
port	PortNumber	yes	Port of the system.

3.2 Primitives

Types and structures mentioned throughout this document that are assumed to be available to implementations of this service. The concrete interpretations of each of these types and structures must be provided by any IDD document claiming to implement this service.

Type	Description
Address	A string representation of the address
Name	A string identifier that is intended to be both human and machine-readable.
PortNumber	Decimal number in the range of 0-65535



ARROWHEAD

Document title
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Date
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Version
4.5.0
Status
RELEASE
Page
8 (9)

4 References



ARROWHEAD

Document title
unregister-system
Date
2022-10-26

Version
4.5.0
Status
RELEASE
Page
9 (9)

5 Revision History

5.1 Amendments

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1	YYYY-MM-DD	4.5.0		Xxx Yyy

5.2 Quality Assurance

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