	Document title	Document type
	Service Discovery Unregister	**SD**
	Date	Version
	2021-01-15	**4.3.0**
	Author	Status
	Szvetlin Tanyi	**RELEASE**
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Service Discovery Unregister
Service Description

Service ID: *"unregister"*

Abstract
This document describes a variant of the Service Discovery Unregister service.

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ARROWHEAD

1 Overview

This document describes the Service Discovery Unregister Eclipse Arrowhead service, which is enables autonomous service unregistration by systems. Examples of this interaction is a system that ceases to offers some kind of service. In order to cease the offering, this service needs to be unregistered in the Service Registry.

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.

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ARROWHEAD

2   Service Interfaces

This section lists the functions that must be exposed by Service Discovery Unregister service in alphabetical order. In particular, each subsection names an abstract 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.

2.1   function Unregister (ServiceRegistryUnregisterRequest)

The Unregister function is used to unregister a service. The various query parameters are representing the endpoint with information that what should be unregistered.
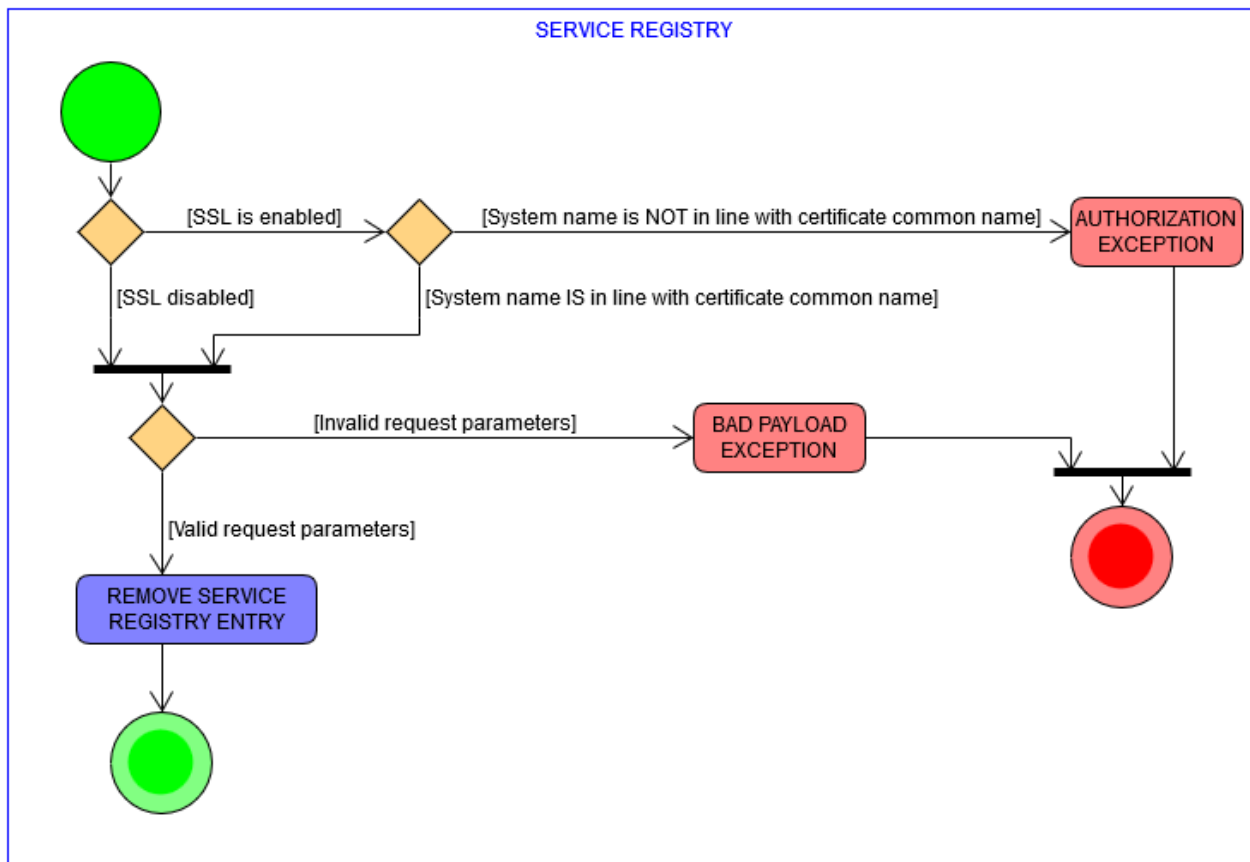
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Figure 1: Information model as a UML activity diagram. Describes the process of service unregistration.

3 Information Model

Here, all data objects that can be part of Service Discovery Unregister service calls 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.

An overview of the data object types is illustrated in Figure 1.

3.1 struct ServiceRegistryUnregisterRequest

This structure is used to register a service offering into the Service Registry.

Field	Type	Description
address	Address	Address of the provider systems.
port	Number	Port of the provider system.
system_name	Name	System name of the provider system
service_definition	Name	Service Definition of the unregistered service.

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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
Number	Decimal number in the range of 0-65535
Name	A string identifier that is intended to be both human and machine-readable.

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4 Revision History

4.1 Amendments

No.	Date	Version	Subject of Amendments	Author
1	2020-12-05	1.0.0		Tanyi Szvetlin

4.2 Quality Assurance

No.	Date	Version	Approved by
1			