

echo

Service Description

Abstract

This document provides service description for the **echo** service.

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1 Overview

This document describes the **echo** service, which enables an "I'm alive" kind monitoring of the system.

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.

1.1 How This Service Is Meant to Be Used

The given client is allowed to use the **echo** service at any time in order to make sure that the system is available at the moment.

1.2 Important Delimitations

No delimitations.

1.3 Access policy

Available for anyone within the local cloud.

2 Service Interface

This section describes the interfaces to the service. The **echo** service is used to monitor the system availability. A service could contain various metadata as well as a physical endpoint. The various parameters are representing the necessary system and service 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/TEXT () : EchoResponse**

Profile ype	Type	Version
Transfer protocol	HTTP	1.1
Data encryption	TLS	1.3
Encoding	Text	-
Compression	N/A	-

Table 1: HTTP/TLS/TEXT communication details.

3 Information Model

Here, all data objects that can be part of the **echo** 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 **EchoResponse**

Simple text message with the value of "Got it!".

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
-	-



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5.2 Quality Assurance

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