

Force Temperature HTTP/JSON

Interface Design Description

Service ID: *"get-temp"*

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1 Overview

This document describes the interface of the "force-temp". The interface use HTTP REST protocol and JSON encoding. This service is pointless, as it returns exactly what you sent, but it's a demo to show the use of the POST method.

2 Service Interface

This section lists the functions of the service.

2.1 POST `/temperature/force-temp`

Function: **Force Temperature**

Input: **TemperatureRequestDTO**

Output: **TemperatureResponseDTO**

Called to get the exact same temperature log that you send. On a more advanced system, it can be used to correct data on the provider database.

```
1 POST /temperature/force-temp HTTP/1.1
2
3 {
4   "time" : 1000210440000,
5   "value" : 1001.5
6 }
```

Listing 1: An `force-temp` request example.

```
1 {
2   "time" : 1000210440000,
3   "value" : 1001.5
4 }
```

Listing 2: An `force-temp` response example.

3 Information Model

Data objects that can be part of the service. Note that all the structure are encoded in JSON :

3.1 struct **TemperatureRequestDTO**

Response of the detector about the presence of an object.

Object Field	Value Type	Description
"Time"	long	Timestamp of the temperature log
"Value"	double	Value of the temperature log

3.2 struct **TemperatureResponseDTO**

Response of the detector about the presence of an object.

Object Field	Value Type	Description
"Time"	long	Timestamp of the temperature log
"Value"	double	Value of the temperature log



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4 References

This document alongside any other document linked to this project are based on template documents, that are the description of "Intercloud Contract Negotiation and Automation" system, by Emanuel Palm [emanuel.palm@ltu.se]. I just adapted the template to my system.



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5 Revision History

5.1 Amendments

No.	Date	Version	Subject of Amendments	Author
1				

5.2 Quality Assurance

No.	Date	Version	Approved by
1			