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# GREGOR: Interface Control Document for dcpAggregator

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## Signatures & Approval

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|              | Name                                                           | Signature | Date       |
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| Change Log |        |        |                        |             |
|------------|--------|--------|------------------------|-------------|
| Vers.      | Date   | Author | Description of Changes | Sect./Para. |
| 1          | <date> | <name> | New Document           |             |
|            |        |        |                        |             |

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## 1 Scope

This document describes the DCP interface for the *dcpAggregator* service.

## 2 Overview

The DCP interface for the *dcpAggregator* service is used to

- check the availability of the *dcpAggregator*, i.e. if it is running
- promote data of certain subsystems or instruments of GREGOR to the *MQTT broker* addressed by *dcpAggregator*

## 3 DCP commands

### 3.1 set nop

| Command set nop    |         |                       |
|--------------------|---------|-----------------------|
| <b>Syntax:</b>     | set nop |                       |
| <b>Parameters:</b> | none    |                       |
| <b>Return:</b>     | ACK     | on command reception  |
|                    | FIN     | on command completion |

The command **set nop** is mainly meant for testing purposes and for checking availability of the *dcpAggregator* service, i.e. whether the service is running or not.

### 3.2 set update

| Command set update |                              |                                                                             |
|--------------------|------------------------------|-----------------------------------------------------------------------------|
| <b>Syntax:</b>     | set update <varname> <value> |                                                                             |
| <b>Parameters:</b> | varname                      | name of the variable of the DCP message source system to be updated in MQTT |
|                    | value                        | value of the variable to be updated in MQTT                                 |
| <b>Return:</b>     | ACK                          | on command reception                                                        |
|                    | FIN                          | on command completion                                                       |

The command **set update** forwards the *variable name* and its content to the *MQTT broker* and updates the topic

ot/gregor/tcs/data/<DCP command source system>/<varname>

with the **value**. Be aware that **varname** is case sensitive. Refer to it as given in the respective documentation or by checking the MQTT broker topic with an appropriate tool (e.g. the [iobroker web frontend](#)).

The command is accepted from the following systems:

- GTCS
- CalControl
- M11M16F3control
- M2M3control

- BTF3
- DER

## **4 Remarks**

The  $\text{\LaTeX}$ source for this document is available under [KIS gitlab](#).