# **Danfoss Ally Cloud**

Supported device types and versions Literature Document revisions

## Supported device types and versions

The Danfoss Ally Cloud protocol enables communication with Danfoss Ally cloud services (https://developer.danfoss.com) using the Danfoss Ally API (https://developer.danfoss.com/catalog/danfoss-ally-api/danfoss-allytm-api).

The Danfoss Ally Cloud protocol is implemented as an ESL script (*E.Danfoss\_Cloud*) using the unit *E.Danfoss\_Cloud.unit* and the *curl* utility to communicate with the cloud. Subsequently, the data is parsed in the ESL script and stored in structured variables:

- SV.Danfoss\_Ally\_Gateway "Danfoss Ally™ Gateway" type devices
- SV.Danfoss\_Ally\_Radiator\_Thermostat "Danfoss Ally™ Radiator Thermostat" type devices
- SV.Danfoss\_Icon\_RT "Icon RT" type devices (Room Thermostat)
- SV.Danfoss\_Icon\_Zigbee\_Module "Icon Zigbee Module" type devices
- SV.Danfoss\_Zigbee\_Repeater "Danfoss Zigbee Repeater" type devices

When a new device is found (unique identifiers are found in the "id" columns), the corresponding structured variable is automatically resized and the new device is inserted into the added row.

Note: we recommend increasing the size of the mentioned structured variables in advance according to the approximate number of individual types of devices so that the system is not burdened by the constant gradual increase of their size when parsing the data for the first time.

The script is extensible and it is possible to implement the parsing of other types of devices and other attributes of existing devices.

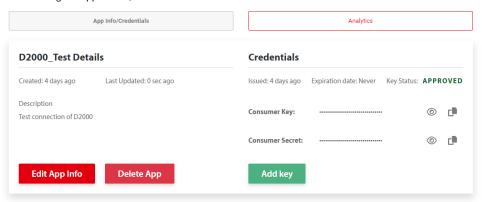
Working with multiple user accounts is supported. Each Danfoss device is registered to a specific user account and the structured variables mentioned above contain the first column *idCred*, in which the account ID is listed for each device (index into the structured variable *SV.Danfoss\_Credentials* with accounts).



#### Danfoss cloud configuration and access rights to devices

- In the Danfoss Ally mobile application (https://www.danfoss.com/sk-sk/campaigns/dhs/smart-heating/danfoss-ally) it is possible to connect
  devices to a registered Danfoss account. Registration is done when installing the mobile application and the account is identified by an e-mail
  address (e.g. ipesoft@ipesoft.sk).
  - Note: apparently only the owner (Home Owner) and an administrator (Administrator) roles have the right to access devices via the "Danfoss Ally API" interface. Other roles do not have this right.
- · Subsequently, creating a user account (for the same e-mail address) at https://developer.danfoss.com is necessary.
- After logging in to the account, it is necessary to create an application by clicking the Apps item (https://developer.danfoss.com/user/apps) and clicking the "Add app" button.
- The "Danfoss Ally API" interface must be added when creating the application,

After creating the application, the situation is as follows:



- as many rows as user accounts. We recommend entering the identification of individual user accounts (e.g. e-mails) in the *account* column.

   Subsequently, in the *E.Danfoss\_Cloud* script, it is possible to set a different trigger for starting the reading than the *Min* object used:

ON CHANGE Min GOTO TriggerChanged ; this trigger can be replaced e.g. by a custom evaluated tag

The test of writing (increasing the temperature setpoint for the first "Room Thermostat" / "Radiator Thermostat" devices by 0.1°C and then setting
the original temperature) is in the E.Danfoss\_TestWrite script.

#### Literature

- Danfoss Ally
- Danfoss Ally API



Blog

You can read a blog about Danfoss Ally Cloud - Communication - Danfoss cloud

### **Document revisions**

• Ver. 1.0 - March 25th, 2024 - Document creation.



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