

SMS INTERFACE PLUS

The last thing an end user wants to do is to check his ETFE structure by e.g. regularly viewing the status of the eluft air machine, being the heart of the whole system.

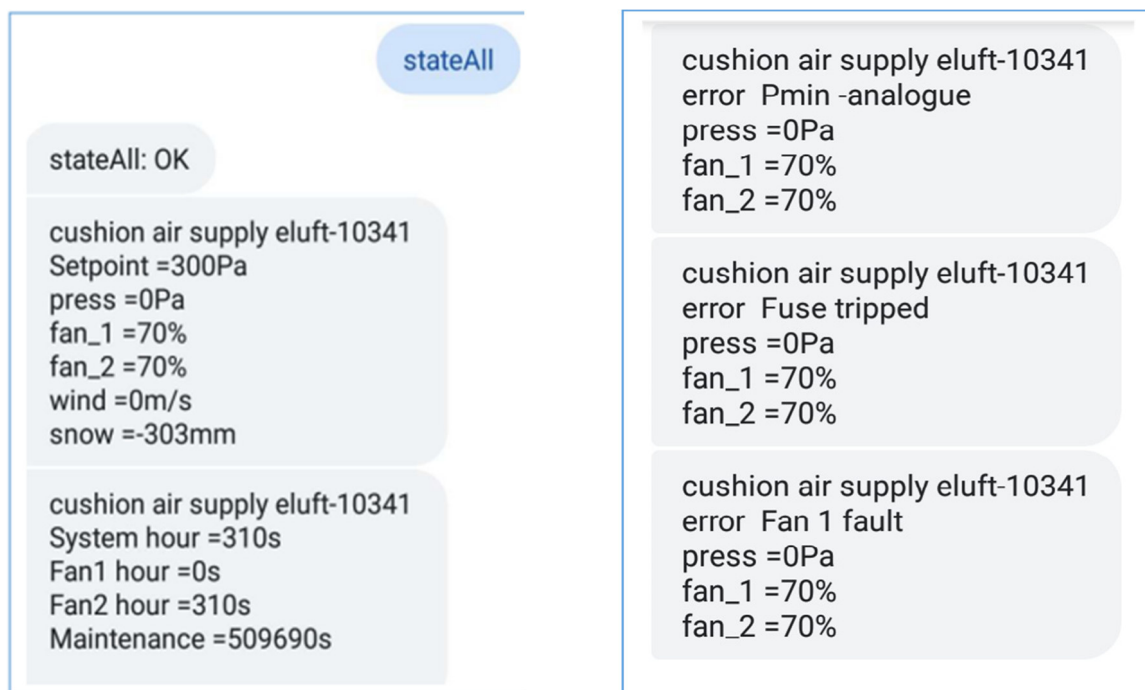
The solution is a remote, preventative maintenance done by the system provider or maintenance company.

For this data about the system is required on a regular basis. As the system locations might be far away or difficult-to-reach, e.g. on the roof top, elnic offered the possibility for remote access via the internet.

Unfortunately, only a very limited number of end customers are able or willing to connect the eluft machines to their network or provide a router.

The only other eluft device, which is able to send data to specified receivers is the SMS relay, however, up to now no reporting function was available.

As the SMS technology needs no specific infrastructure, just a simple SIM card, elnic concentrated on expanding the SMS alert interface.



The diagram illustrates the SMS interface for an eluft controller. It shows a sequence of messages:

- A 'stateAll' button is shown at the top right.
- The first message is 'stateAll: OK'.
- The second message provides system data: 'cushion air supply eluft-10341', 'Setpoint =300Pa', 'press =0Pa', 'fan_1 =70%', 'fan_2 =70%', 'wind =0m/s', and 'snow =-303mm'.
- The third message provides operational data: 'cushion air supply eluft-10341', 'System hour =310s', 'Fan1 hour =0s', 'Fan2 hour =310s', and 'Maintenance =509690s'.
- The fourth message is an error alert: 'cushion air supply eluft-10341', 'error Pmin -analogue', 'press =0Pa', 'fan_1 =70%', and 'fan_2 =70%'.
- The fifth message is another error alert: 'cushion air supply eluft-10341', 'error Fuse tripped', 'press =0Pa', 'fan_1 =70%', and 'fan_2 =70%'.
- The sixth message is a third error alert: 'cushion air supply eluft-10341', 'error Fan 1 fault', 'press =0Pa', 'fan_1 =70%', and 'fan_2 =70%'.

Meanwhile elnic has developed and tested add-on software that allows the eluft controller to send all relevant data on demand.

Just send an SMS requesting a certain set of data to the phone number of the eluft and in return you will receive the current system data.

Simple as that!