

**KEY BENEFITS**

- Ability to deliver secure software updates
- Add new features to the product after it has been installed in the field
- Reference integrations with embedded hardware
- Ability to run and update proxy deployments off a gateway

WHY MENDER

- Provides A/B deployment with roll back
- Stable client and server, with managed backend for OTA software updates
- Tight integration with Yocto layer
- Open source-based and support from the Mender Hub community

“With Mender, there is no effort involved with maintaining the infrastructure for the update functionality. The support from the Mender team is also very good.”

Lukas Exel,
Energy Services &
IoT Manager, beegy

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Company Biography

beegy is a German energy management solutions provider which intelligently network the energy components at home, and maximizes the convenience of energy management.

One of these services is HERMINE. The platform charges the electric car with the self-produced solar power based on the user's preference.

This maximizes self-consumption of homes with a photovoltaic system. This control system brings real benefits for the household. The beegy team has calculated savings **up to** €420 per year based on an average mileage of 20,000 Kms through the use of HERMINE.

Challenge

The beegy product management team required a robust and secure OTA software updates solution for their digital products so they selected Mender as a best of breed partner.

Solution

Lukas Exel, Energy Services and IOT Manager at beegy, describes the reasons for selecting Mender: beegy had a very ambitious schedule for the development of its edge devices and limited development capacity. As a result, they had three challenges to overcome.

beegy had to make a low-risk decision quickly. There needed to be little effort involved in customising the hardware with the BSP Layer, the OS-Layer and the Update-Layer.

beegy was looking to build a stable MVP (minimum viable product) that could be further developed without limitations. Mender provides a great solution to address these challenges by reliably providing the core functionality of A-B deployment: with the benefits of stable client software, good integration into the Yocto/Bitbake ecosystem; and a stable and managed backend with GUI and API.

Mender combines the benefits of an open source solution with those of a product maintained and provided as a service by a company. There is no vendor login and a great community through the Mender Hub is there to help find solutions to problems. There is no effort involved with maintaining the infrastructure for the update functionality. The support from the Mender team is also very good.

Benefits

Mender as a hosted OTA solution allows for getting a secure device and being able to bring new functionality to the device after it has been deployed in the field. The use of Mender also allows the beegy development team to focus on the areas in which they are experts and using software for OTA developed by experts in the area of OTA.

Mender was also selected for its good support from hardware manufacturers. Mender also offers the possibility to run proxy deployments on devices connected to beegy's edge devices.

Learn more at beegy.com/one-pager-en
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