



c|side

AUTOMATION

CSide, Intelligent Solutions

Home automation, also called smart home, involves the control and automation of lighting, heating, air conditioning, plugs and roller shutters. Remotely monitoring and controlling home devices via the Internet is an important segment of the Internet of Things.

The home automation market is predicted to reach a market value of US\$12.8 billion by the year 2020.

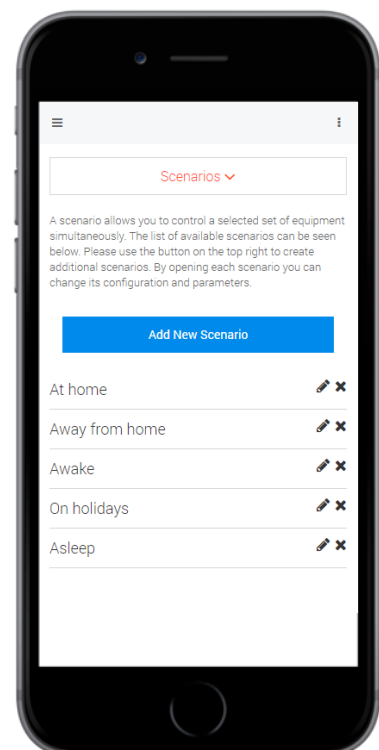
Our modern Home Automation Application consists of smart devices such as thermostats connected to a central hub (gateway) from which the system is controlled. The platform has an intuitive user interface that can be interacted from any device connected to the Internet (laptop, smartphone, etc).

FEATURE LIST

The following key features are included in the Home Automation Application:

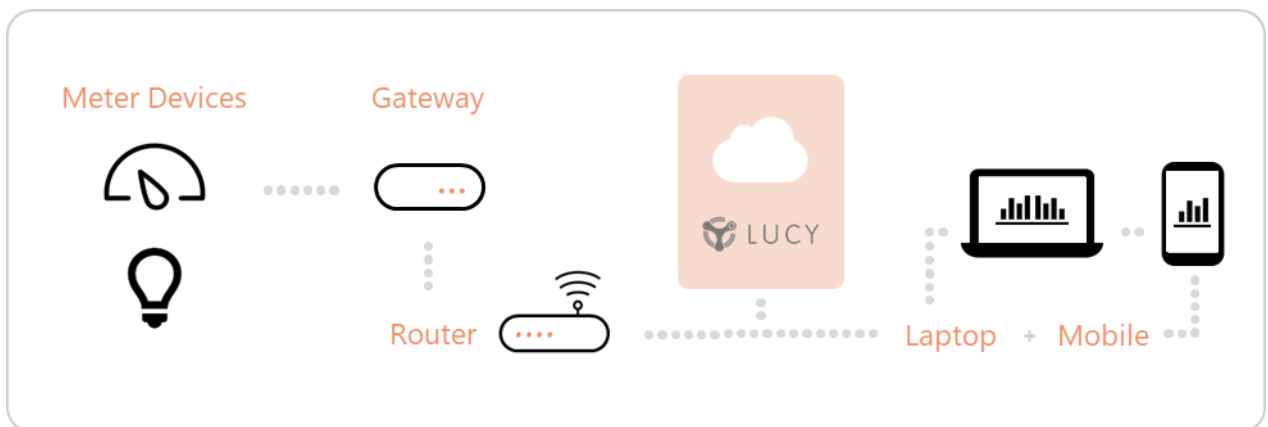
- ✓ Remotely turn on/off various smart devices (modules), such as thermostats, plugs, roller shutters, etc.;
- ✓ Filter modules by room, category and favourite;
- ✓ Remotely set the temperature of smart devices associated with heating and cooling¹;
- ✓ Create scenarios that control groups of modules, for instance, an "Away" scenario that turns off the lights and reduces the temperature on the thermostats when active;
- ✓ Edit scenarios and choose other modules to be part of those scenarios;
- ✓ Edit, add and remove modules from the Home Automation Application.
- ✓ If the LUCY "Events" application is added to Automation, it is possible to set rules for the modules, such as switching off the TV1 when people leave.
- ✓ Energy efficiency tips that are customized according to the consumer's energy profile;

¹ Available depending on the type of system and as long as it is possible to make a smart connection to the device.



HOW DOES IT WORK?

The Automation Application controls smart appliances remotely to improve consumers' comfort at home or at the office. Smart appliances include light automation, heating and air conditioning, smart plugs, roller shutters, etc. These communicate with a central gateway using different protocols, such as Wi-Fi and Z-Wave. Once all devices are connected, consumers can interact with them using their mobile devices and computers to access the online portal powered by LUCY.



TECHNICAL DETAILS

DEVICES

The devices needed depend on what is to be automatized but include Smart Plugs, Dimmers, Roller Shutters, Smart Thermostats, etc.

CONNECTIVITY

When using a Gateway, the connection to the various devices can be done through ZigBee/Z-Wave, Power-line Communication, Wi-Fi and 3G and 4G.

BATTERY LIFE

Some of these devices are AC/DC powered so those will be always online. The battery-operated devices should last for 2 years.

LUCY PLATFORM

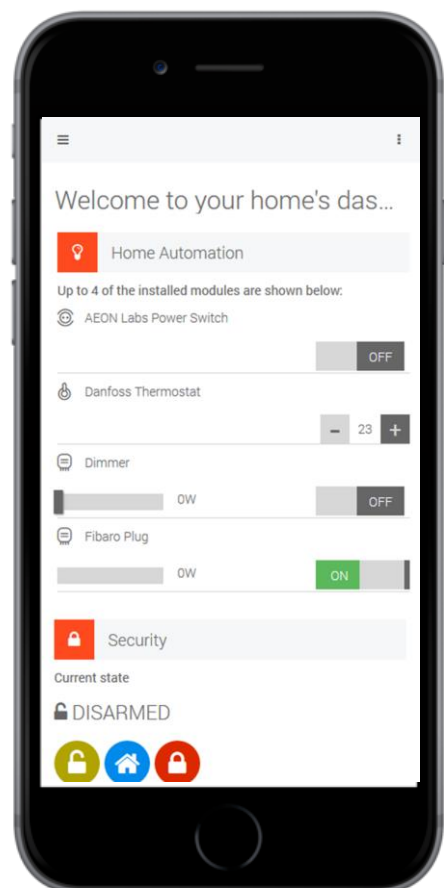
The Energy Production Application is built into LUCY Platform as one of its many vertical solutions. The various applications within LUCY work in parallel and each service can be activated or deactivated according to the needs of each customer.

LUCY provides value-added services from managing energy consumption and production to advanced automation, cloud-based video surveillance and even heating management. Back office maintenance and operation tools ensure a great experience while managing thousands of customers.

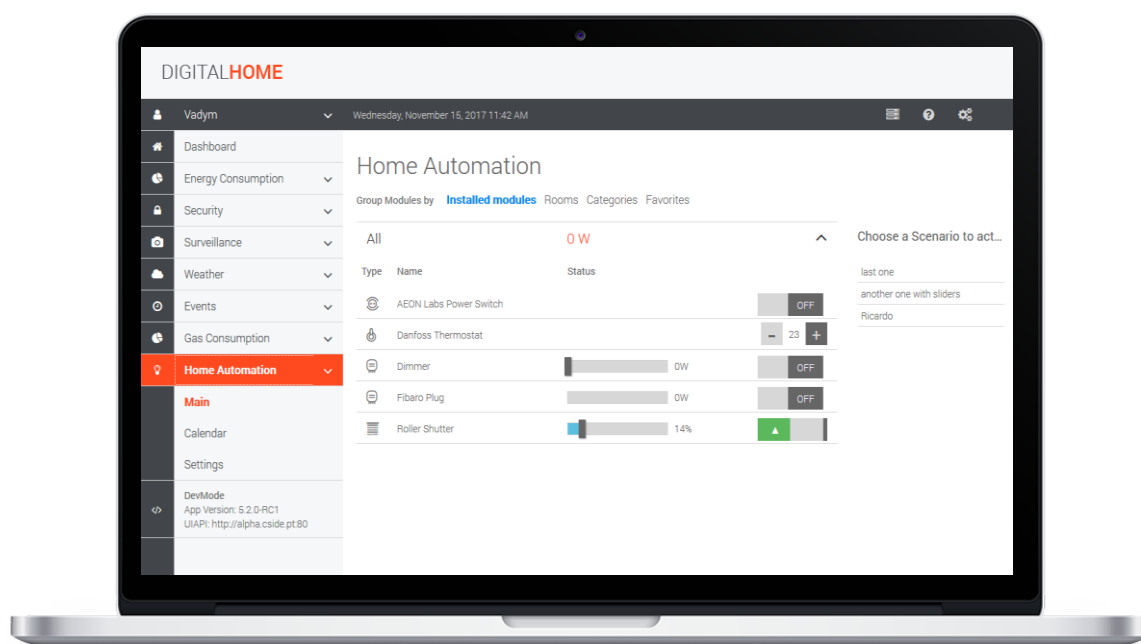
BENEFITS

UTILITIES The Home Automation Application benefits utilities greatly by increasing customer engagement and therefore decreasing churn. Consumer engagement needs to go beyond the marketing function, consumers want to know more about the services they are paying for and interact with them as much as possible. Customers' expectation is rising rapidly and this product meets and surpasses their increasingly demanding expectations.

Finally, and since the Home Automation Application is part of the LUCY, this offer can be complemented at any time with any of the other services offered by the platform, for instance, events, security and energy management.



CUSTOMERS There are several benefits to consumers, starting with knowing and understanding how their home can be totally automated and take full advantage of their smart devices. A smart home offers incomparable comfort and having all smart devices under the same platform increases the consumers' satisfaction and offers the experience they are looking for.



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