

Candidate for an "Important Project of Common European Interest"

TwentyOne Innovation GmbH Matthias Hertel

OSCCAR - Overview



- The subject of OSCCAR is the standardization of the connection of end devices to the cloud via a multi-level edge structure (satellite - bridge - gateway).
- Core objective is to reduce the total cost of device connectivity to a TCO of <1€ per device per year with simplest installation, excellent security features and real-time capability</p>
- Key spill-over effects are the creation of a European ecosystem between device manufacturers and cloud providers and reaching the economic viability threshold for IoT solutions faster
- Status of the project is an idea sketch with currently four medium-sized interested parties.
 OSSCAR is part of the GREEN-CIS consortium, which has already been confirmed by the BMWi.

OSCCAR – Basic Structure

- Various devices are connected directly via a local radio standard (e.g. WiFi / BLE) or by means of an OSCCAR
 Satellite with a standardized OSCCAR Bridge and thus form a local AREA (e.g. room / apartment / part of a factory floor)
- The bridges of the different AREAs are connected to a cloud platform via a campus communication standard (e.g. LoRa / BPL) using an OSCCAR gateway.
- The areas connected via a gateway together form the OSCCAR Campus as an administrative unit. (e.g. residential area, commercial property, factory building, university).



OSCCAR standardized

- Connectivity (protocols / data)
- Installation and service processes
- Administration and billing
- Device identity and security



Integration into the overall IPCEI CIS project





- OSCCAR maps the area of device connectivity in the "Multi Provider Cloud Edge Continuum ".
- OSCCAR is the open, economical, secure and sustainable connection of different devices ("edge devices") with the various cloud platforms.

Kontakt





Matthias Hertel

matthias.hertel@twentyone.de

+49 172 373 94 70

TwentyOne Innovation GmbH Germany, 01219 Dresden, Franz-Liszt-Str. 5 www.twentyone.de