

IoT & SCADA: Bridging classical DSO operation and modern edge technology

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Generic architecture





SOGNO Architecture | Prof. Antonello Monti

Distributed solution





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SOGNO as Linux Foundation Energy Project



E.ON Energy Research Center



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📥 Platone

Open Source and dual use of data as key ingredient of an open platform

- Architectural proposal of H2020 Platone:

- Multi-layered hybrid IoT/off chain vs
 DLT/Blockchain/Smart Contract to
 enable:
 - Consumer access layer
 - Optimal coordination and operation of fair and transparent multi-stakeholder marketplaces
- Dual use of data for market and technical services
- Integration of legacy solutions



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Putting all together to overcome limits of legacy solutions

- Combining the solutions envisioned in the previous architecture, here we have:
 - Secure data link thanks to blockchain
 - Integration of legacy DMS
 - Link to market for dual use of data
 - Integrated data bus for flexible integration of new services



edgeFLEX vision





EdgeFLEX aims at involving **Virtual Power Plants** and **Energy Communities** in the grid management, by enabling **Slow and Fast dynamics services**

EdgeFLEX will foster a **local energy and flexibility market** in which all involved actors can contribute actively to managing and operating the power grid



edgeFLEX project overview and EdgePMU concept

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All information provided

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