

Counting 70 years of experience, Iskratel is the **leading European provider** of infocommunications solutions, with its **own R&D and manufacturing** centres, 900 employees and market footprint in over 50 countries. Iskratel delivers integrated solutions across **telco, transport, public safety, and energy** sectors.

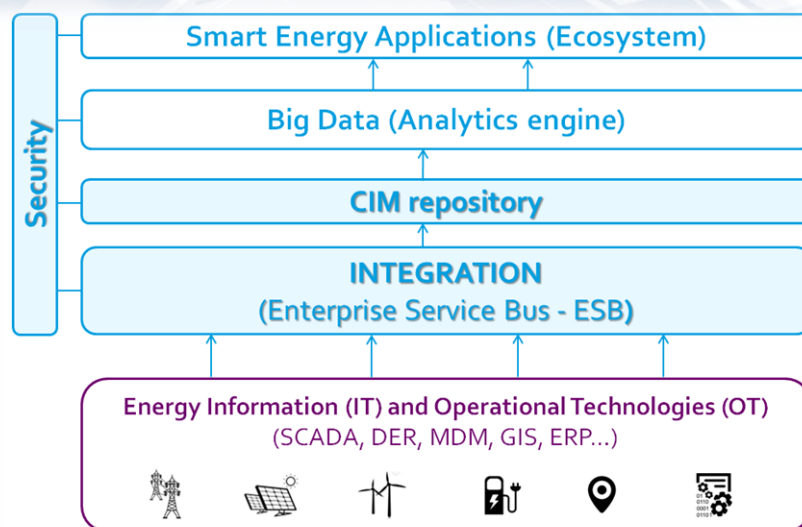
Iskratel provides Energy Data Intelligence

as a solution for smart grids

Paving the way for new technologies

Traditional power grids were not designed for today's demands. Emerging renewable sources, new prosumers, and EVs are forcing us to stabilise the grids, improve network efficiency, and properly manage demand. The right path forward is in the digital transformation of energy data.

We help utilities (transmission and distribution operators) seamlessly transition from single- to multi-directional energy data flows. The standardised exchange language model (CIM), advanced analytics, and smart grid technologies are ways to meet these challenges, and to develop a smarter and cleaner energy ecosystem which saves time, money and resources.



IT/OT integration

Iskratel rollouts the **open** and **interoperable** data movement **backbone**, enabling **integration** of various **IT** and **OT** systems and applications to communicate through reliable and secure message exchange using **Enterprise Service Bus (ESB)** framework.

By using special **adapters** we have the ability to route, aggregate, filter, receive and send messages in any format and transform it into a **CIM compliant** format, empowering **platform** and **vendor independent** integrations.

CIM repository

CIM repository is the **central system** component for **interoperable** data **exchange** in energy infrastructure. It builds a **digital representation** of the **network**, including physical network objects, network topology with GEO location, and object registry with **unique object ID**. CIM repository offers network model **exchange** and objects **registration**.

The system uses a **unique architecture** to manage network model exchange data in **RDF/XML** format in **real-time**.

Big Data and Analytics

Now that we have aggregated **all the data** from existing IT/OT systems, **normalised** them and put them into **standardised** CIM **format**, we can **examine** them, start to uncover hidden **patterns**, unknown **correlations**, customer **preferences**, and other **useful information** that helps you make more-informed business decisions.

Open Ecosystem for smart grid applications

Creating an **ecosystem** that through **open-source** technologies and the **CIM standardised** model makes it possible for the **developer community** to build applications for all **stakeholders** - DSOs, TSOs, traders and customers.

This includes customers' portals, EV charging, fraud detection, portfolio management, distributed network control, outage management, and so much more.

Cybersecurity

It is incorporated into **every single stage** of the system. **Strong authentication** is required for users and connected devices, to access features of the intelligent platform. All the features have controlled access implemented through **Role-based Access Control**, which is the primary authorization mechanism. Public or widely accessible services are additionally protected using **Software-Defined Perimeter**, which effectively prevents network attacks.

All communications between the systems and clients are **encrypted** to prevent cyberattacks.

Want to know more?

Would you like to **find out** how our Intelligent Applications Platform for Energy (IAPE) **saves** you **money**, **optimizes** your **operations**, and puts you on the path to a **smarter grid** in the new **digital** era?

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