

ENTERPRISE SERVICE BUS (ESB) AND DATA MANAGEMENT PLATFORM a RESOLVD key exploitable result



DESCRIPTION

Integration middleware software that facilitates interaction among various software applications that are relevant to a DSO. It also manages data exchange, analytics and visualisation.

DEVELOPER



TARGET CUSTOMERS

DSO

PROBLEM ADDRESSED

Legacy distribution management systems that need to integrate with / leverage new applications or other 3rd-party services.

VALUE PROPOSITION

Part of a turnkey solution that enables smooth communication between components for smart grid observability and control applications and services

UNIQUE SELLING POINT

The solution is tailored to the the Smart Grids domain and incorporates all relevant standards (IEC 61968, CIM, etc.)

KEY FUNCTIONALITIES

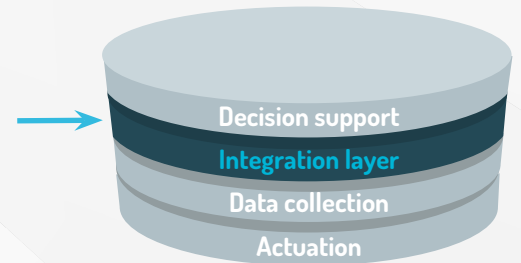
- Integration with legacy systems
- Tailored to smart grid systems
- Data exchange, analytics, visualisation

RELEVANT STANDARDS

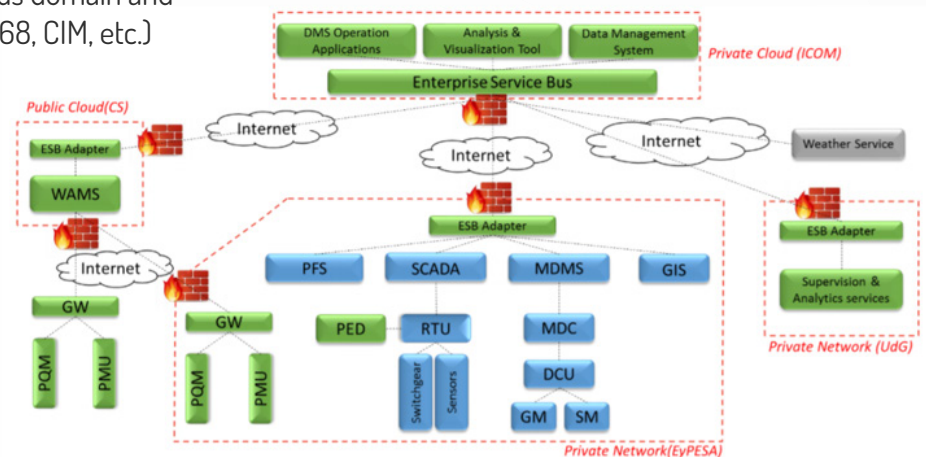
IEC 61968

EXPLOITATION AMBITION

Intracom SA Telecom Solutions (ICOM) aims at utilising the ESB and Data Management Platform as part of turnkey solutions that include various applications and services for better observability and controllability of the Distribution Grids. The target customer of these solutions are the DSOs



Where the ESB fits in the RESOLVD solution, see model on page 2





RESOLVD

Next generation LV grid management

WHY IS THIS RELEVANT TO YOU?

The RESOLVD H2020 project is a 42 month Research & Innovation project that proposes hardware and software technologies that address European DSOs challenges in accommodating an increased presence of renewables in LV grids.

With the project now coming to a close, a consortium of leading institutions and technology developers have developed the next generation solutions to meet tomorrow's challenges and these are being tested in a real-life pilot in Catalonia, Spain.

DSO CHALLENGES

Fault detection and self-healing

Low resolution grid observability

Congestion and voltage compliance

Uncontrolled islanding

Continuity of supply after fault

Power quality issues

Technical power losses

Cyber Security

Technical power losses

THE RESOLVD SOLUTION

INTEGRATION LAYER

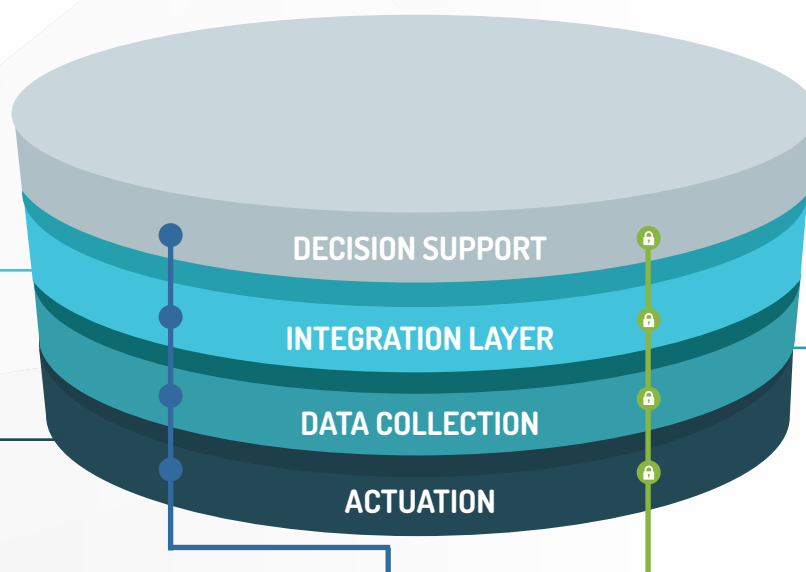
Enterprise Service Bus (ESB) and Data Management Platform - Integration middleware software that facilitates interaction among various software applications and manages data exchange, analytics and visualisation.

ACTUATION

Power electronic device (PED) Integrates multiple battery types and manages their dynamic energy and power flows.

CONTACT

HEIDI TUISKULA | Innovation Manager for the RESOLVD project | Smart Innovation Norway | heidi.tuiskula@smartinnovationnorway.com



RESOLVD BRINGS INNOVATION AND CYBER SECURITY IN THESE LAYERS

DECISION SUPPORT

Low-Voltage Distribution Decision support toolkit (LVD-DST) - A suite of web services that provides enhanced energy monitoring and scheduling capabilities.

DATA COLLECTION

Phasor measurement unit (PMU) & edge computing - A wide area monitoring solution that provides increased observability of the LV grid & has edge computing capabilities
Smart Gateway to measure power quality in the buildings or charging areas and communicates to 3rd party.

