



International NoAE Project-Day E-mobility 12/06/2013 in Aachen

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Electric mobility in Luxembourg



•On 21/12/2010 Estonteco and its partners submitted an official bid to the Luxembourg government about the turnkey deployment for a national charging infrastructure and required services for client all identification, localization, billing and roaming.

•Estonteco has been supporting the Luxembourg government in the decision making for a national concept aiming to stimulate & promote an ecologic traffic model for individual mobility.

•On 22/08/2012 a new law came into force setting the work for a ground national public charging infrastructure, obliging all grid operators to join forces for the development of a uniform solution for the entire country.











Need





OPEN CHARGE POINT



- All electric vehicle owners can easily view every Open Charge Point and its actual current status (available or occupied) on the Internet.
- Open Charge Points are extremely easy to access 24/7.
- Open Charge Points are networked with other regional and international charging points; smooth and safe "roaming" guarantees the secure identification of every customer right across Europe.
- Public or private parking space operators and local electricity suppliers can always be sure that they will be paid correctly for all electricity supplied.
- If our customers have any questions, they can call our multilingual customer service team. Thanks to our close proximity to the customer, our engineers can be quickly deployed to resolve any potential technical problems on site.



From Luxembourg...











TRAVEL & TRANSPORT

Luxembourg, Luxembourg

The lack of infrastructure for electric cars can be a problem for drivers wanting to travel longer distances. Luxembourg-based company Estonteco is building a network of charging stations to ensure drivers can keep their zero-emission vehicles on the road. Today the network stretches across eight countries. As e-car infrastructure grows and becomes ncreasingly visible, so too will demand for electric cars. That means a green future for us

More Videos

Check out success stories from other parts of the EU





production to suppor short transportation distances (Relaium)





preen technologies (Denmark)







energy, but the gree can even produce it (Germany)





also fighting climate change (treland)



elevator powered by the sun (Greece)



 $1 2 3 \rightarrow$

...to Europe



European Commission

a world you like with a climate you like

Our targets for a low-carbon society are not about some distant future. It's all about jobs. It's about innovation and competitiveness which we can harness today.

Connie Hedegaard, EU Commissioner for Climate Action

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Borderless mobility

Eight partners from seven countries confirmed their will to cooperate in order to develop a transnational network of charging stations, granting drivers of electric vehicles an unlimited access to the electric grid in several countries. The Treaty of Vaals had been signed on 30th of March 2012 by e-laad.nl (NL), ladenetz.de (D), Blue Corner & becharged (B), Estonteco (L/B), Vlotte (A), ESBeCars (IRL) and Inteli/mobi.e (PT).



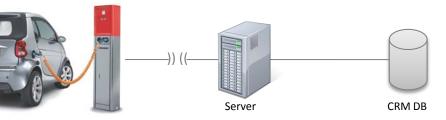
 In the long run international standards will make bilateral agreements between individual players obsolete. E-roaming and interoperability will stimulate competition and will help decreasing prices while raising the quality of products and services such as customer confidence.



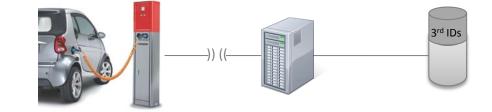
Stages of maturation

Proprietary

Pragmatic

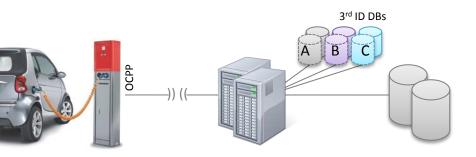


Proprietary combination of stations and central system. Archaic approach, restricted to local/regional application.



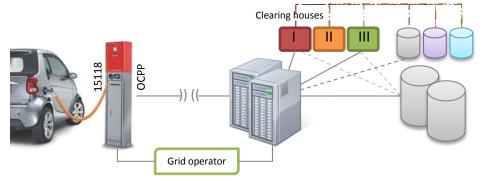
Inappropriate for multichannel operations & online validations. Strongly dependent on single supplier; limited expandability. Suitable as intermediate solution.

Proper



Open & extensible architecture, online data exchange with 3rd parties. Complexity increases with B2B agreements.

Progressive



Online data exchange via specialized service providers. Online or offline identification based on contract-ID (*LU-AAA-XXXXXX-P*). Individual or generic commercial agreements. Extensible & available, complexity reciprocal to standardization maturity.



Standardization

eMobility ICT Interoperability Innovation Group (eMI³)







- Under the umbrella of ERTICO, the eMI³ Innovation Platform is an open interest group of significant players in the global Electric Vehicles market. eMI³ has started to align the current fragmentation within the EV market to support mass market adoption.
 - Members: ABB, Alliander, Bayerische Motoren Werke AG, BELECTRIC Drive GmbH, Betterplace, Blue Corner nv, Bosch Software Innovations GmbH, Chargepoint (Coulomb Technologies Inc), Circontrol, CISC, Critical Software SA, Daimler AG, EDF, e-laad, EnBW Operations GmbH, ENEL Distribuzione, Enexis, E.ON SE, ESB, Estonteco, Etrel d.o.o, EValu8 Transport Innovations Limited, FIR e.V. at RWTH Aachen, FITSA Foundation, Flemish Living Lab Electric Vehicle, FULLCHARGER International, Green eMotion Project, Hubject GmbH, IBM Deutschland GmbH, INTELI - Inteligência em Inovação (MOBI.E), Mennekes, Mobi-europe, Navteq North America IIc (Nokia), Nissan Europe SA, Panasonic, Renault SAS, SAP, Siemens AG, smartlab, TomTom International B.V., Greenlots (Zeco Systems Pte Ltd), 4is, art-reinhardt, Blue Mobility, Bridging IT GmbH, CGI, chargemaster plc, chargeyourcar, Clever, elektromotive, Endesa, EURELECTRIC, GIR, ihomer, INDRA, KEMA, MPSA, Novabase, plugsurfing, RWE, The New Motion, Volkswagen.
- Working groups:
 - User cases & services
 - Architecture & Interfaces
 - Business Objects & Identification
 - Communication Protocols



Thank you very much!

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