

Electromobility+ Information Event

Brokerage Session

13 January 2011

Company Profile

Cirquent GmbH



Electromobility+

Cirquent GmbH



Established in:	1971 (as Softlab GmbH)
Internet:	www.cirquent.com , www.your-architect.de/en.html
Our Offering:	First class consulting across the entire value chain: process consulting, conception, integration, implementation, individualised IT solutions, operation
Industries of our Customers:	Automotive, Utilities, Telecommunications, Media, Banks, Insurances, Manufacturing, Logistics
Shareholders:	NTT DATA Group, BMW Group
Managing Directors:	Thomas Balgheim (CEO), Bernd Stroppel
Employees:	1.600 (Ende 2009)
Sales:	€ 216 Mio. (2009)
Offices:	Germany (headquarters), Austria, Switzerland, United Kingdom
Focus Activity:	Future Mobility
Expertise:	Focusses on all aspects relevant for organizational, business process, and IT topics related to future mobility, in particular electromobility. Combined project experience of utilities, automotive, telematics, telecommunications, banking and other industries.
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Cirquent and Electromobility: Overview of our Projects

- Central management of a charging network with **70 charging stations⁽¹⁾** in Vienna
 - Authentication, billing, reservation, route planning, web portal, smart phone apps, ...
 - Cooperation with A1 Telekom, paybox, EOX, everynear and others
 - Successfully operative since May 2010
- Central management of a charging station network with **22 charging stations⁽²⁾** (standard charging as well as quick charging according to the **CHAdEMO standard**) with roaming to another network (provided by parent co. NTT DATA in Tokyo)
- **Market survey** on electromobility, telematics, smart metering, smart grid in Europe
- Ongoing research projects
 - **Model region Vienna:** ,e-mobility on demand‘ (E-mobility and public transport)
 - eMoRail (Integrated eMobility Service for Public Transport; with Austrian **Railway** and **carsharing.at**)

(1) Planned for ye 2010
(2) As of: September 2010

Cirquent's Offering and Research Interests Related to Electromobility+ Call

Central remote management system for heterogeneous charging station networks (standard, fast, inductive charging)

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| Offering | <ul style="list-style-type: none">• System based on a field-proven middleware solution containing modules for authentication, billing, reservation, route planning, web portal, smart phone apps, ...• System developed with experience of several successful field tests (Vienna, Tokyo) |
| Research Interests | <ul style="list-style-type: none">• Integration of reservation module with multi-modal route planning system• Interoperability between vehicle onboard control system and infrastructure (charging station) control system for various charging methods and/or vehicle pre-climatisation• Smart grid approaches (Load balanced charging [G2V], V2G)• Development of multi-party (supplier, grid operator, shopping mall, parking garage operator, employers, ...) pricing models• Automatic interface of billing information to utilities' billing existing billing system• Refinements and enhancements of the existing modules• Integration of remote management of additional charging station types (manufacturers) and/or an inductive charging system• Integration of value added services for the end customer, i.e. the EV driver |

Clearing system for roaming between competing charging station networks

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|--------------------|---|
| Offering | <ul style="list-style-type: none">• Prototype system• Project experience in mobile phone roaming and electricity supplier switch |
| Research Interests | <ul style="list-style-type: none">• Field test of clearing system• Integration of clearing system to utilities' billing systems |