

# Experience of the CROME Project

## Connecting eMobility

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EVS27, Barcelona

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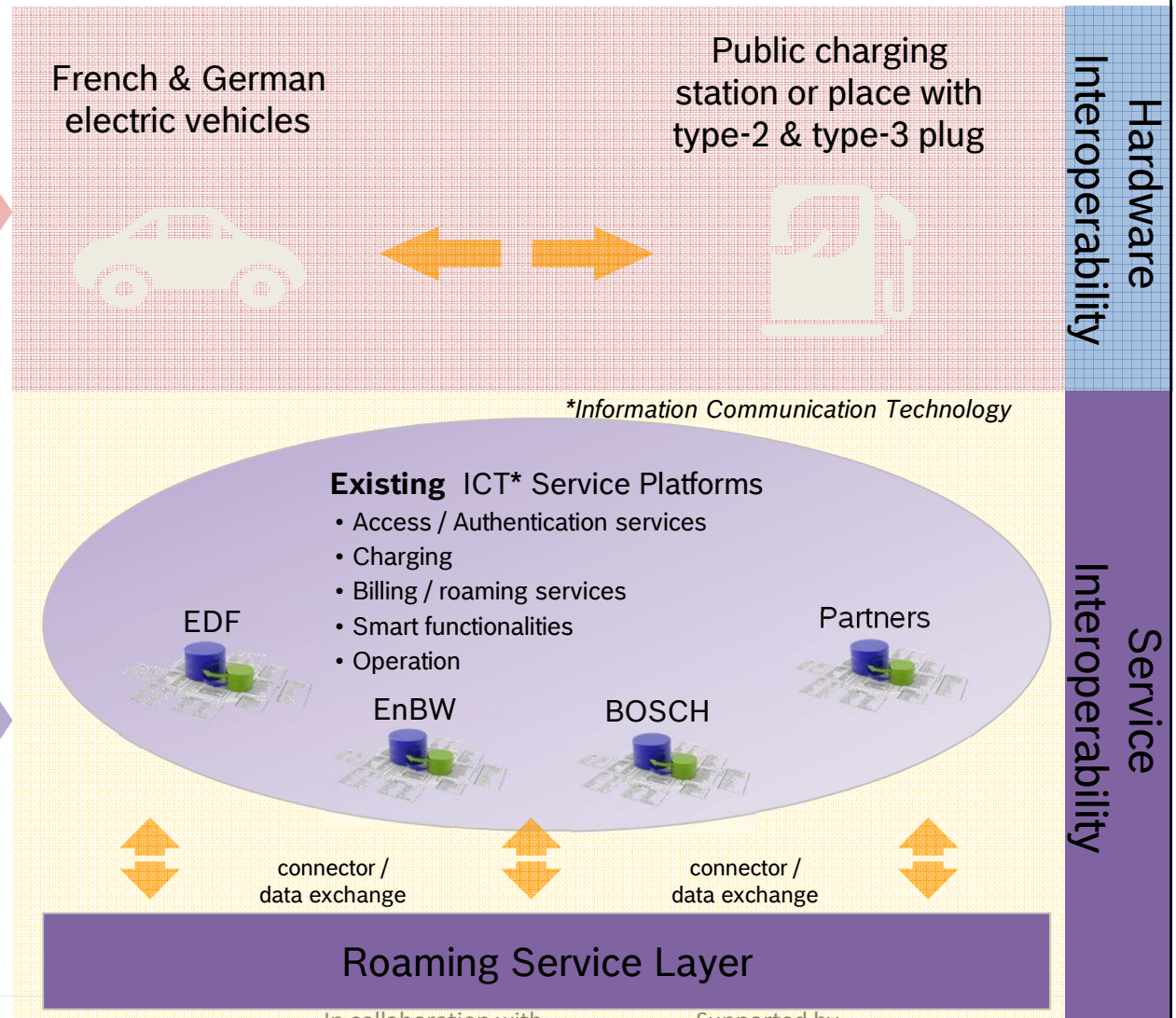
# EVs | 27



Every **EV** can connect to a charging spot



Every **user** can authenticate and control the charging process of its EV



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## Roaming Service Layer Requirement

- Connect a dynamic network of independent international partners having their autonomous business and systems.
- Roaming must accelerate the development of Ecosystems by providing a brokering platform to connect services between partners (marketplace) without being a bottleneck – extended service portfolio as a benefit for the end customers
- Each partner can participate on the highest level of security regarding data protection and data security.
- Partners must be able to offer the end customer a seamless roaming service

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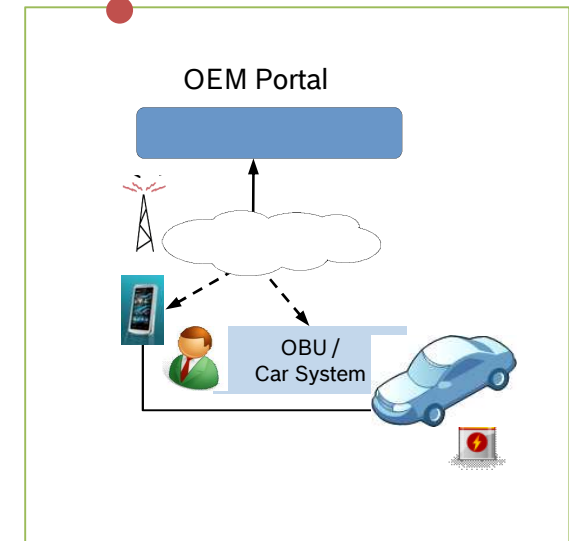
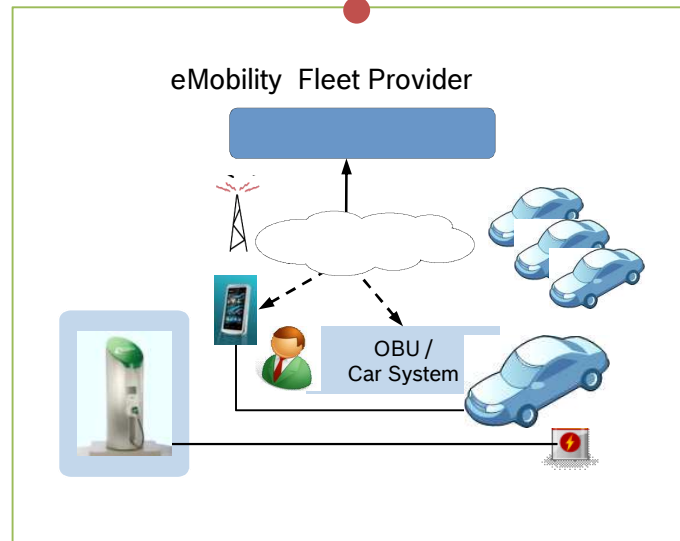
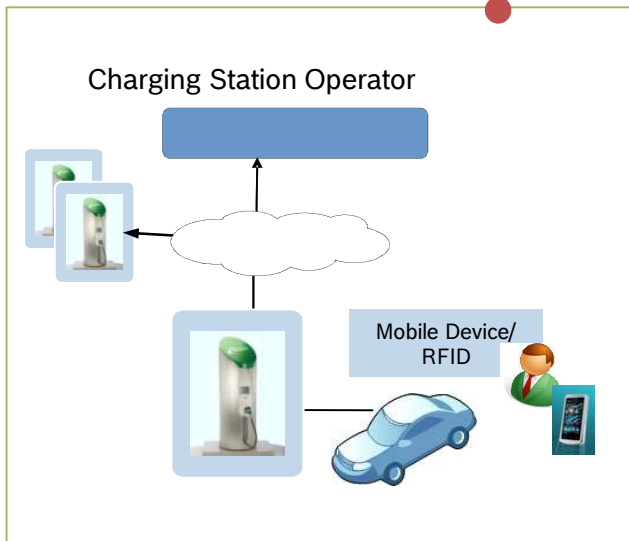
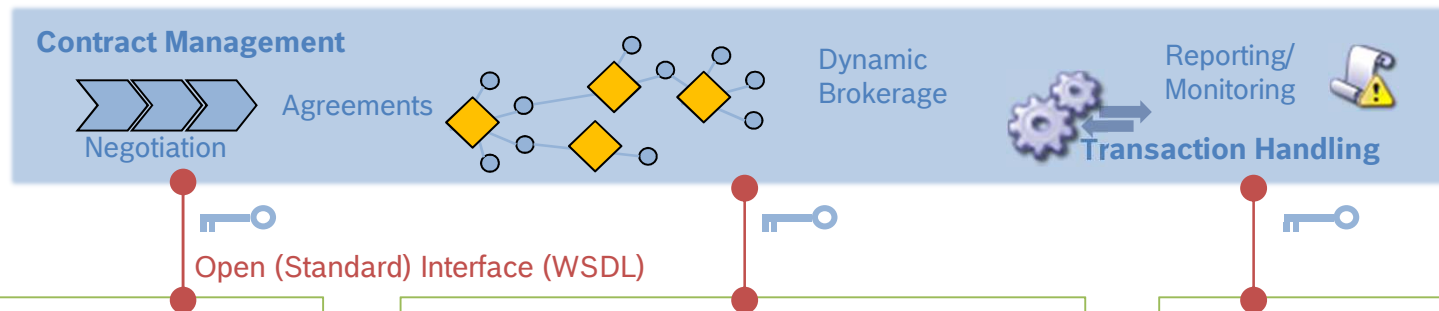


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## Proposal for Roaming Service Platform

Bosch Roaming Service Platform



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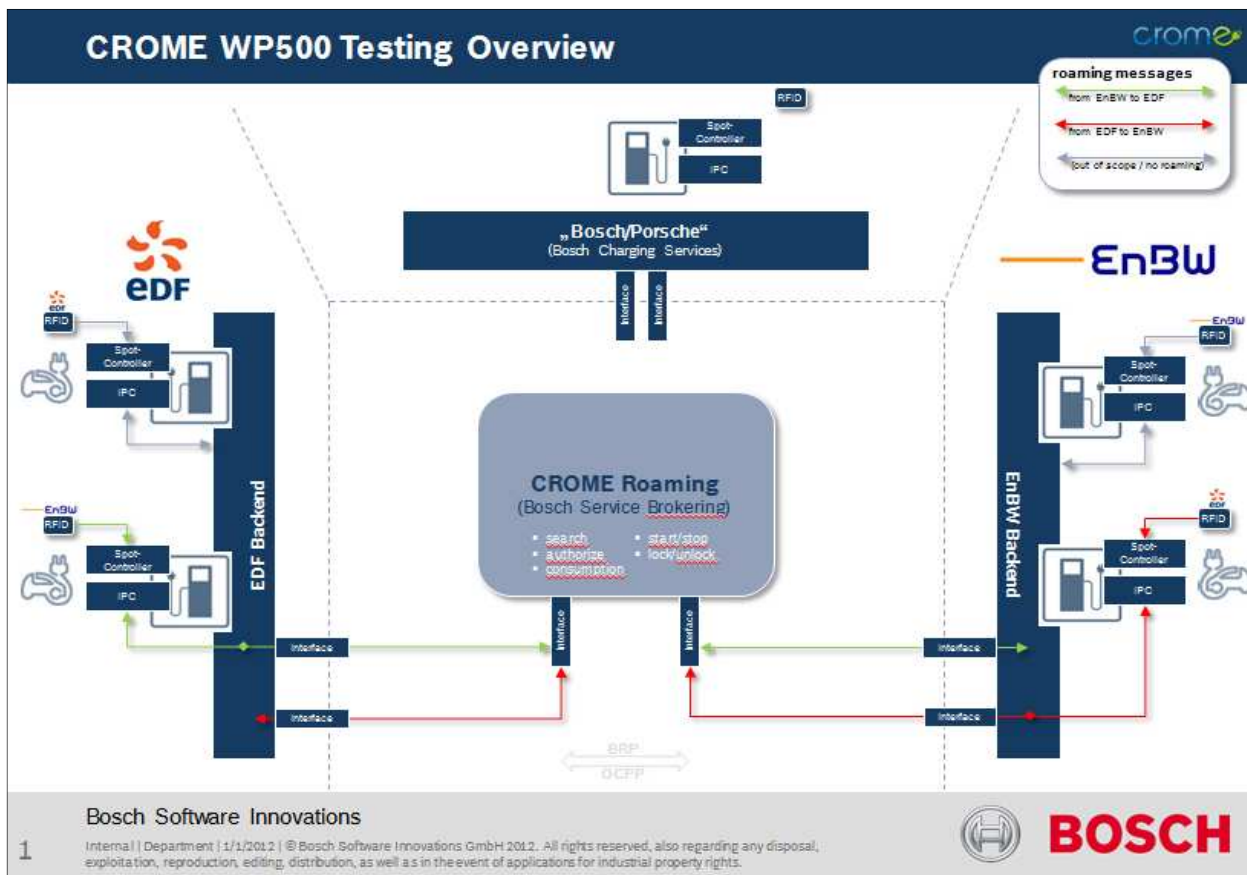
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## Roaming Service Platform Implementation



- Online services implemented : search, authorization, consumption, (reservation, billing) incl. mobile App
- Standardization is the key RFID card, type 2 / 3 plug, mode 3 charging, OCPP
- System successfully tested
- EnBW, EDF, Bosch/Porsche connected and operational
- Citizens profit from the solution

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## Roaming Service Platform Implementation

**Bosch eMobility Service Provider Portal**

Charging Station Search

Location: Karlsruhe

Clear Search

ID	Location	Physical ID	Type	Status of Spots	Access	Maintenance	Customer Group
1	parking Veymerange, Porte de France, Tr.	RQ-1263	Roaming		Public Access		Default

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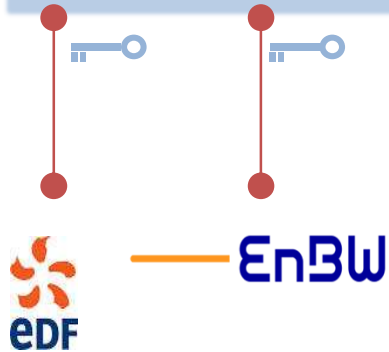
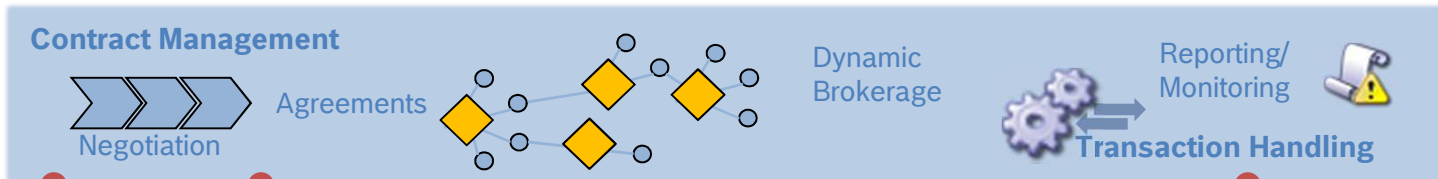


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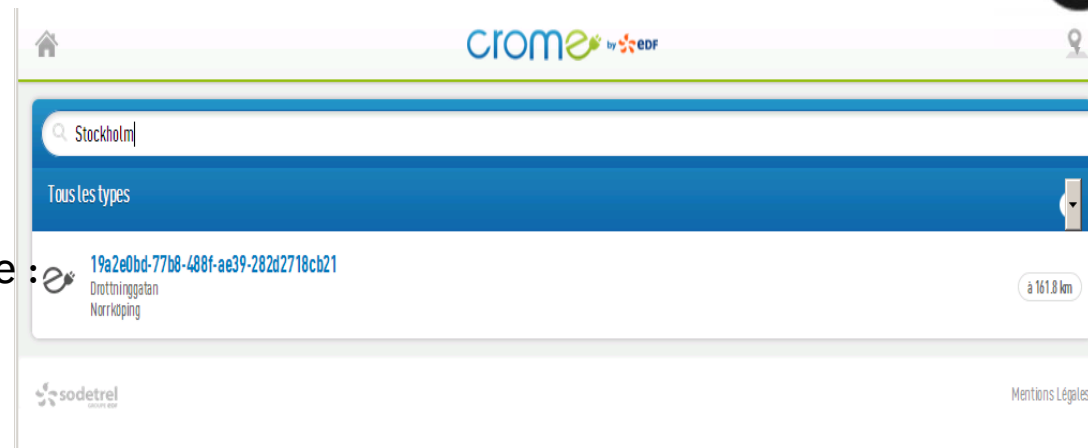


## Inter-Roaming Service Platforms Communication

Bosch Roaming Service Platform



→ Connection available :



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## Summery & Outlook

- CROME shows service interoperability by roaming of services
- To build a network of independent international partners (competitors) having their autonomous business and systems, the system design has to ensure that each partner keeps his independence (data)
- Standardization (RFID card, type 2 / 3 plug, mode 3 charging, OCPP) is key to enable a marketplace
- Roaming of services will be a key enabler for future mobility solutions



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## Thank You

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