

# EpSpot RTTS - Real Time Transaction Service

EpSpot RTTS, trusted by leading tier one companies including truck maker Scania, is a comprehensive and proven approach to energy load management and energy resale that handles vehicle charging loads together with other loads in the same network. Energy flows is controlled and delivered through measured sessions enabling energy debiting & resale. Combined with EpSpot line of debit modules, any outlet type up to 22kW is supported. The service is particularly suitable in places with high-energy demand where demand growth needs to be managed.

## Manage Growth

Electricity load in a network node is controlled in real time so that a set of outlets of any type shares available electricity capacity, with no need for dedicated coordination hardware on site. For ordinary outlets, policy is enforced and excess demand is managed through automated queue whilst type2 outlets share capacity dynamically.

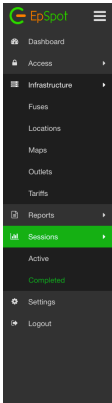
## Transparency for all

Administration via web based interface gives real time information about infrastructure, occupancy, load utilisation, sales, and session statistics while Support staff receives notifications by email. Users get real time maps, remote control of their sessions and push notifications at events including self-help hints.

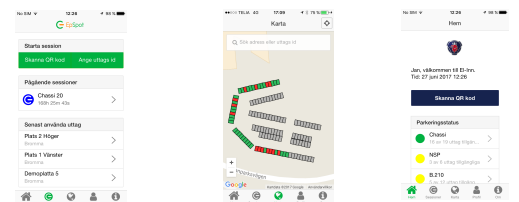
## Flexibility

The system is configurable to support different access and business models. End users can be served directly through the free EpSpot app or be served by other services or apps utilising EpSpot RTTS through a set of REST based API:s.

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| Ended               | Outlet          | Duration    | kWh   | Status |
|---------------------|-----------------|-------------|-------|--------|
| 2017-08-29 18:19:22 | HSP plats 1     | 4h 3m 40s   | 9.126 | 🔒      |
| 2017-08-29 18:00:13 | CK 19           | 5h 35m 2s   | 1.127 | 🔒      |
| 2017-08-29 17:47:47 | B.150 plats 21  | 9h 52m 11s  | 8.961 | 🔒      |
| 2017-08-29 17:42:50 | B.210 plats 1   | 4h 55m 50s  | 6.839 | 🔒      |
| 2017-08-29 17:35:17 | B.210 plats 12  | 9h 32m 15s  | 7.929 | 🔒      |
| 2017-08-29 17:22:16 | CK 10           | 9h 10m 56s  | 6.144 | 🔒      |
| 2017-08-29 17:21:16 | STC Grampark 13 | 10h 0m 26s  | 4.773 | 🔒      |
| 2017-08-29 17:20:59 | STC Ovre 5      | 10h 27m 50s | 7.117 | 🔒      |
| 2017-08-29 17:15:42 | B.210 plats 8   | 9h 35m 55s  | 4.950 | 🔒      |
| 2017-08-29 17:15:09 | B.150 plats 28  | 8h 58m 21s  | 7.977 | 🔒      |
| 2017-08-29 17:12:49 | CK 24           | 1h 17m 11s  | 3.082 | 🔒      |
| 2017-08-29 17:11:18 | B.210 plats 7   | 9h 36m 21s  | 7.574 | 🔒      |
| 2017-08-29 17:10:51 | STC Ovre 15     | 1h 52m 53s  | 3.996 | 🔒      |
| 2017-08-29 17:10:11 | CK 6            | 8h 47m 25s  | 8.839 | 🔒      |



## Functionality

|                                    |   |
|------------------------------------|---|
| Load management nodes              | Configurable nodes, typically group fuses.                                    |
| Load management toolbox            | Policy enforcement & auto termination, queue system and dynamic load sharing. |
| Session policy termination reasons | No funds, Max current exceeded, min load not met, voltage quality.            |
| Push notifications to users        | Events & hints  |
| Session options                    | Timer start, session limits (duration, price, energy)                         |
| Tariff components                  | Opening fee, kWh fee, time fee  |
| Tax support                        | Energy tax, VAT   |

## Functionality

|                   |  |
|-------------------|--|
| Business model 1  | Charging of credit cards   |
| Business model 2  | Debet data in CSV-file   |
| Business model 3  | Session control managed by external system via APIs                  |
| Discount features | Amount, discount %, expiry date                                      |
| Maps, positioning | Google maps, WGS84   |
| API technology    | REST, JSON   |
| NOC Alarm         | Email and web interface  |
| Access control    | Hierarchical matrix users/outlets/group of outlets/location/provider |



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