

serviabertit

Moving beyond ETC.
The extension of ETC to EPS in Spain.

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1. VIA – T introduction.

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1. VIA – T introduction.


- VIA – T is the commercial name of the interoperable ETC system in Spain.
- Tag issuers (>61): banks and petrol card companies.
- Supported by 3 agreements:
 - a) 26 toll motorway concessions
 - b) the above 26 concessions + 3 bank clearing houses
 - c) the 26 concessions + petrol card companies
- Common logo: 
- Conforms to the CEN DSRC TC 278 standards and PISTA (= CESARE) Transaction Model.

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1. VIA – T introduction.

- Clearing is made by the already existing clearing houses networks of the issuing banks and by the petrol card companies.
- Some figures:
 - 90% of the Spanish toll motorways are covered.
 - around 900.000 tags already issued.
 - VIA-T is used by 45 % of heavy goods vehicles and 30 % of passenger cars (not in all concessions)



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2. VIA – T extension.

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serviabertis 2. VIA – T extension.

- Tags are already used in several European countries for applications other than tolling:
 - parking lots
 - access control
 - gas stations
 - parking meters
 - etc.
- In Spain there are several initiatives, based on some of the above applications, addressed to increase the tag population.
- The objective is to make the product more attractive.

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3 } **3. Parking lots**

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serviabertis 3. Parking lots.


- SABA belonging to the ABERTIS group is leading the extension of the VIA T services to the parking lot sector in Spain.
- A pilot test has been performed in 6 parking lots since the beginning of 2006.
- An extension to 10 more parking lots is under way.
- 60 more are planned for the year 2007.
- An agreement between the parking lot sector and the 3 bank clearing houses has been prepared. The same for the petrol cards companies.



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- Legal regulations in Spain make mandatory the entry ticket in parking lots.
- Operation:
 - at the parking lot entrance ramp: user takes a ticket from the ticket dispenser.
 - when leaving: user inserts entry ticket at the exit barrier ticket reader; EFC antenna reads user vehicle VIA T tag and completes the transaction.



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- The entry ticket may look like a big disadvantage when compared with an EFC transaction in a toll plaza entry lane.
- However it is not so as:
 - Speed is not as a big issue in parking lots as it is in toll motorways.
 - Time is mainly spent at the ATM machines, not at the entrance. No need to stop and pay at them if user owns a VIA-T tag.



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4 } **4. Access control**

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- The Barcelona Harbor Authority is implementing, with the technical support of SERVIABERTIS, a Traffic Management System for the identification of container vehicles and their drivers.
- The objective of this system is twofold: to prevent the harbor congestion, speeding up the container delivery and collection and to achieve a paperless harbor.
- Some figures:
 - Year 2005: 2.1 million containers
 - Year 2008: 4.5 million containers
 - Year 2015: 10 million containers

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- Vehicles will be identified at the following locations:
 - 6 harbor entry/exit gates
 - 8 container terminals
 - 2 empty container depots
 - 1 parking lot
- Adopted product: VIA-T tag.
- Tag's PAN will be used for vehicle identification (white list).
- Number of installed EFC antennas : 40



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- Advantages of the VIA-T product in this application:
 - Most of the container vehicles already wear one.
 - If not, it can be very easily obtained at almost any bank branch or petrol card company.
 - Technically based on a proven European standard which will guarantee a long-term availability of devices.
 - 6 available tag & antennas manufacturers at present.
 - Very low error rate in comparison with other access control techniques (license plate recognition, magnetic loops,...)
 - No maintenance is needed.

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- Expected date for the system to be in full operation: December 15, 2006



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5. Gas stations

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servi**abertix** 5. Gas stations.

- A preliminary test of the VIA-T product in gas stations is being prepared in cooperation with a Spanish oil company.
- Two possible solutions are being contemplated:
 - Low distance EFC antennas which will require the tag to be removed from the vehicle.
 - Ordinary EFC antennas: no need to remove the tag.
- In both cases above the antennas will be connected to a PoS terminal.
- A PIN associated to the tag will probably be required by the tag issuers as the amounts involved are much higher than toll fees.

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- Advantages of the VIA-T product in gas stations:
 - for the tag owner company: makes fraud practices from its drivers more difficult.
 - for the driver: speeds up the payment process.
 - for the gas station: better service, less congestion, less personnel



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6. Conclusions

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- All the already mentioned applications for the extension of the VIA-T product pursue the same objective: to foster the growth of the tag population and, consequently, its use in toll motorways by providing a better service to its clients.



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