DBIS – AN OVERVIEW FOR THE GK METRIK

PRECIOSA

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Agenda

1. Motivation
   - Scenario Travelling Home
2. Project goals
3. Approaches
   - EU Project PRECIOSA
     - PRECIOSA = Privacy Enabled Capability In co-Operative systems and Safety Applications
     - Guidelines and technologies for building privacy aware applications
       - Context: co-Operative systems
     - Project runtime: March 2008 to March 2010
     - Partner
       - Trialog (Paris), PTV (Karlsruhe), Oracle (Brussels), Ulm University (Ulm)
       - HU Berlin (Berlin): Prof. Johann-Christoph Freytag Ph.D., Lukas Dölle, Martin Kost

19.01.2009
Motivation
Scenario – travelling home

Route Calculation
Motivation
Route Calculation

Driver Assistant

Navigation System

Route from ... to ...
Route to ...
Back
Menu/Home

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Motivation
Route Calculation

Navigation System
Route from current position to ...

Address
Home
User defined destination
Back

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Motivation
Route Calculation

Navigation System
Calculating route from Madrid to Copenhagen

Driver Assistant

Navigation System
Route from Madrid to Copenhagen

Distance: 2,480 km
Duration: 23 h 39 m
Traffic routing
Services
Back

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Motivation

Booking a hotel on the way

D: The route is amazing long. We need a hotel on the way.

P: Yes but with Jacuzzi please.

Motivation

Booking a hotel on the way

Driver Assistant

Navigation System
Route from Madrid to Copenhagen

Distance: 2,480 km
Duration: 23 h 39 m

Traffic routing
Services
Bank

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Motivation
Booking a hotel on the way

Driver Assistent

Services
Current route from Madrid to Copenhagen
Gas station
Shopping
Sightseeing
Back

Hotel
Medical care
Restaurant
More

Booking
Change preferences
Nights: 1, star-rating: ***, Jacuzzi, price: 75 €

Back
Details

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**Motivation**

Communication

D: We will stay one night at Ibis in Duisburg.

P: Great. I ask Pierre for a meeting via Skype.

Privacy Issues
Motivation

Privacy Issues
Project goals

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Approaches

Model Language for V2X Systems

Methodologies

Privacy by construction

Verification of privacy

Reference Architecture

TPM (Trusted Platform Module)

Ontologies

Possible Attacks on Privacy

Privacy Metrics

Privacy Protection Mechanisms

Framework for V2X Architectures

Application

Query-based API

Privacy Policies

Access model

Trusted Privacy and Retention manager

Data + Metadata manipulation

Secure Local Storage

Secure Communication

Thank You