

OSGi[™]
Alliance

2005 Developer Forum & World Congress

*Paris,
France*





*Paris,
France*



Car Telematics Software Configuration Management



GST French Test Site

Automobile Telematics context

- Product Life Cycle Asymetry



New Vehicles



After sales Initial



Hard



Soft

After Sales
Incrémentale

Professional fleets

Automobile Life Cycle

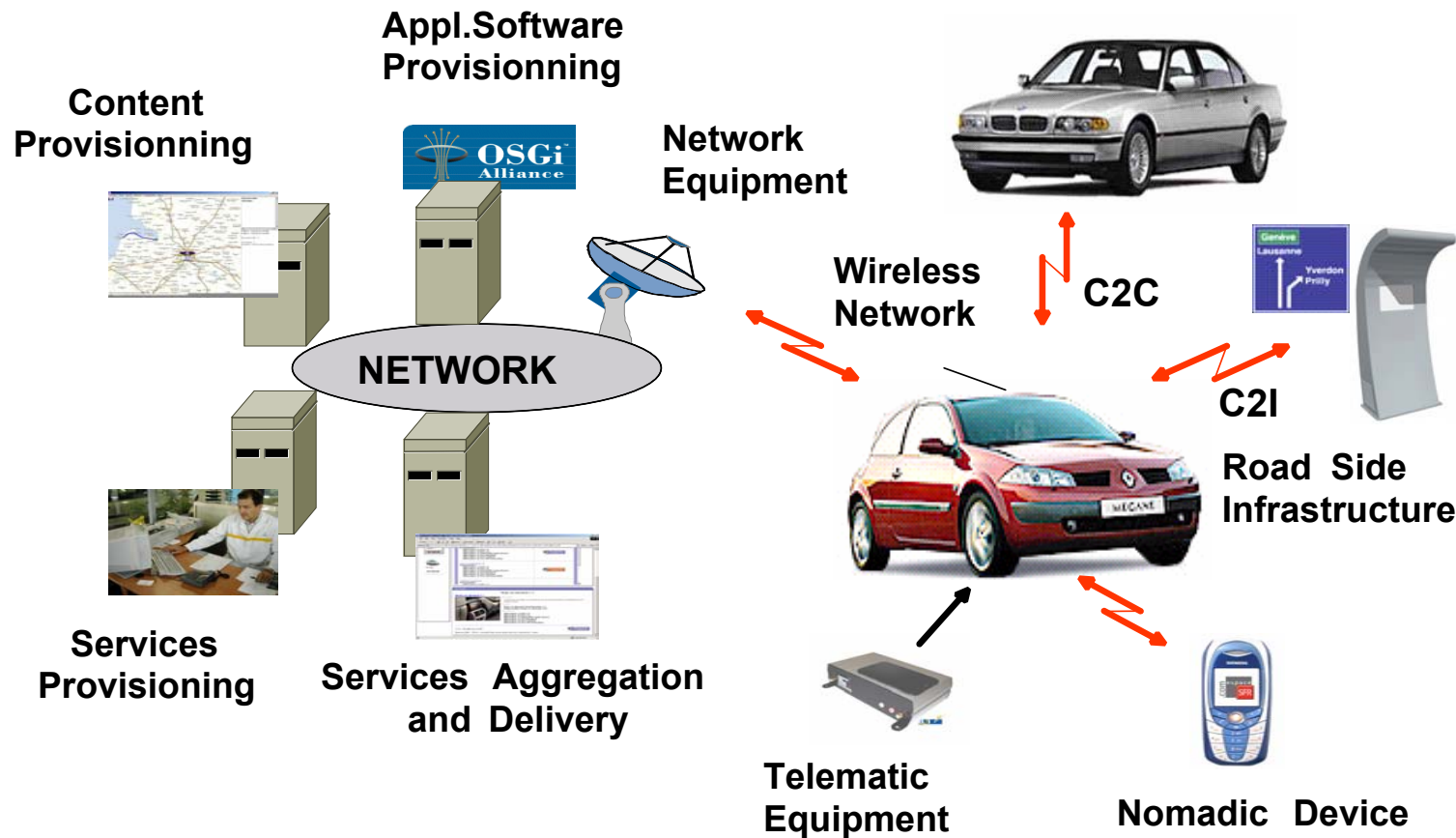
Time

Telematics
Life Cycle

3years

Automobile Telematics context

- Complexity of the system and Supply chain



Automobile Telematics Context

- **Diversity of the services**

Driver

 **User remote Assistance**

 **Navigation Traffic Info**

 **Driving Assistance**

 **Audio / Music**

Passengers

 **Holidays Memory**

 **Tourism Guide**

 **On demand Multimedia**

 **Mobile Office**

Owner

 **Events Management**

 **Maintenance Management**

 **Car Config. Management**

 **Contracts Management**

 **Cost**

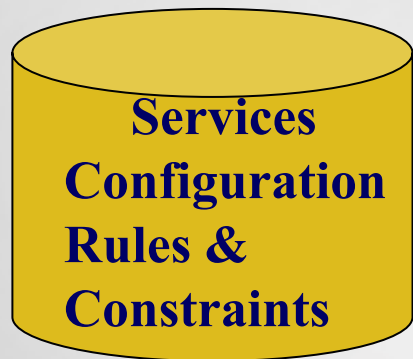


e-Commerce of Telematics services

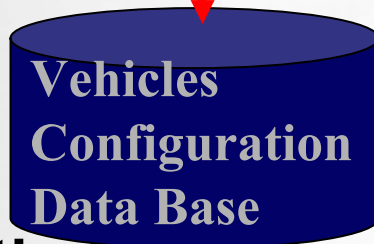
- Commercial Centre

Services Portal

Customer at home



Internet



Actual T.Configuration Of the customer' Vehicle

Purchasing a telematic Service in an electronic catalogue

e-Commerce of Telematics Services

- **Service deployment**
Commercial Centre

Services catalogue



Control Centre

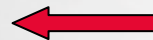
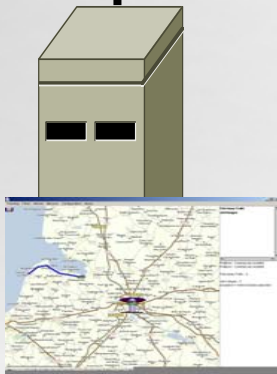


New Service Contracts



B2B Contract

Internet / VPN



Service Provider

**Application Software
Provider**



e-Commerce of Telematics Services

- **Secure Services Provisioning**

Control Centre



Secure downloading of OSGi Bundles

Configuration Check

Internet



WiFi



Re-Configure Command

ADSL

WiFi



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Provisioning :

- By accredited technicians
- Remotely by the user

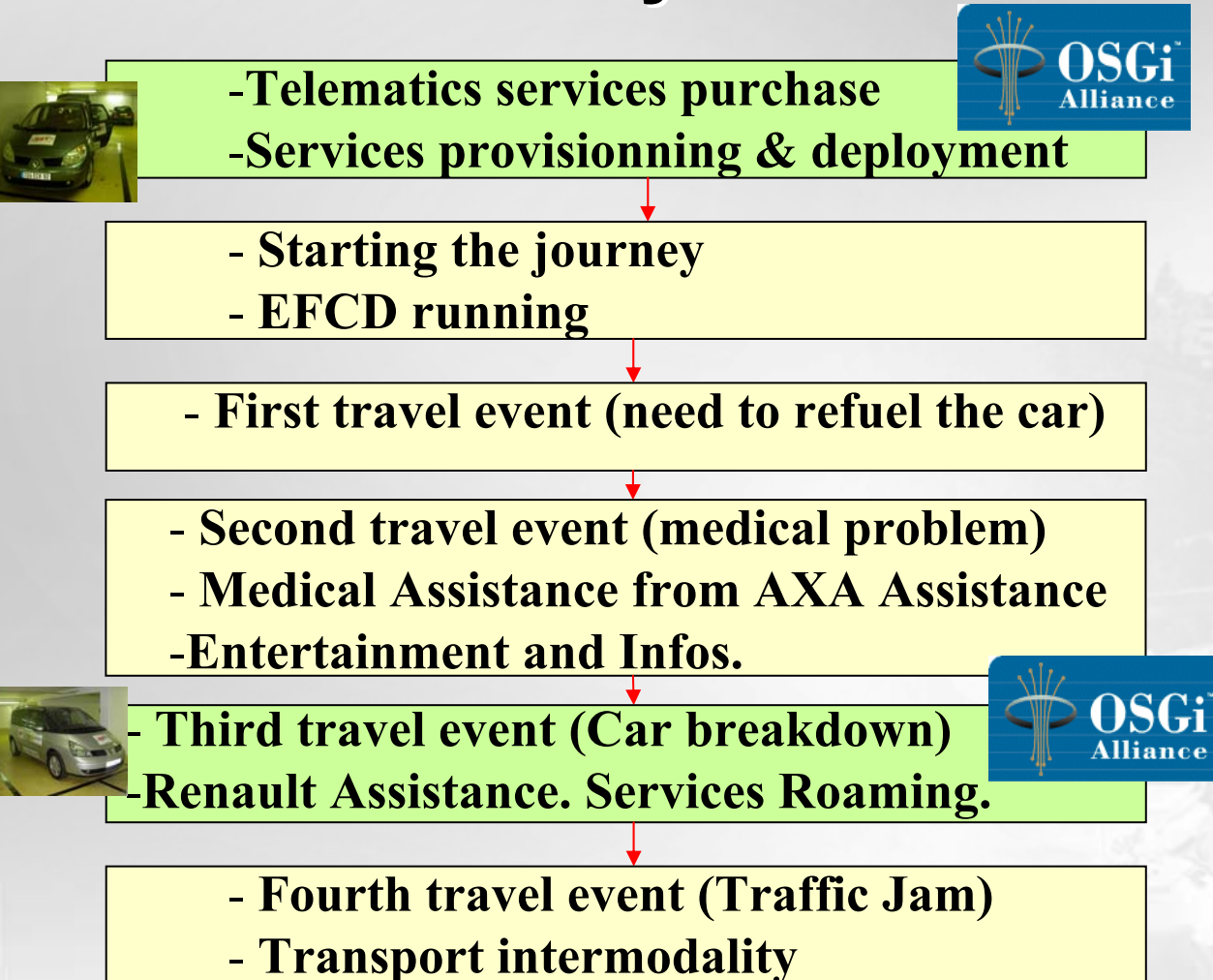
Validation : GST French Test Site

- French Test Site Partners



Validation : GST French Test Site

• Test Site Storyboard



Three Telematic services are purchased:

- Travel support & optimization including an EFCD option.
- Medical Assistance (AXA assistance)
- Car Breakdown Assistance (Renault Assistance)



The Fabulous travel of Mr MARTIN from Paris to Rennes

Validation : GST French Test Site

• Test Site System Architecture

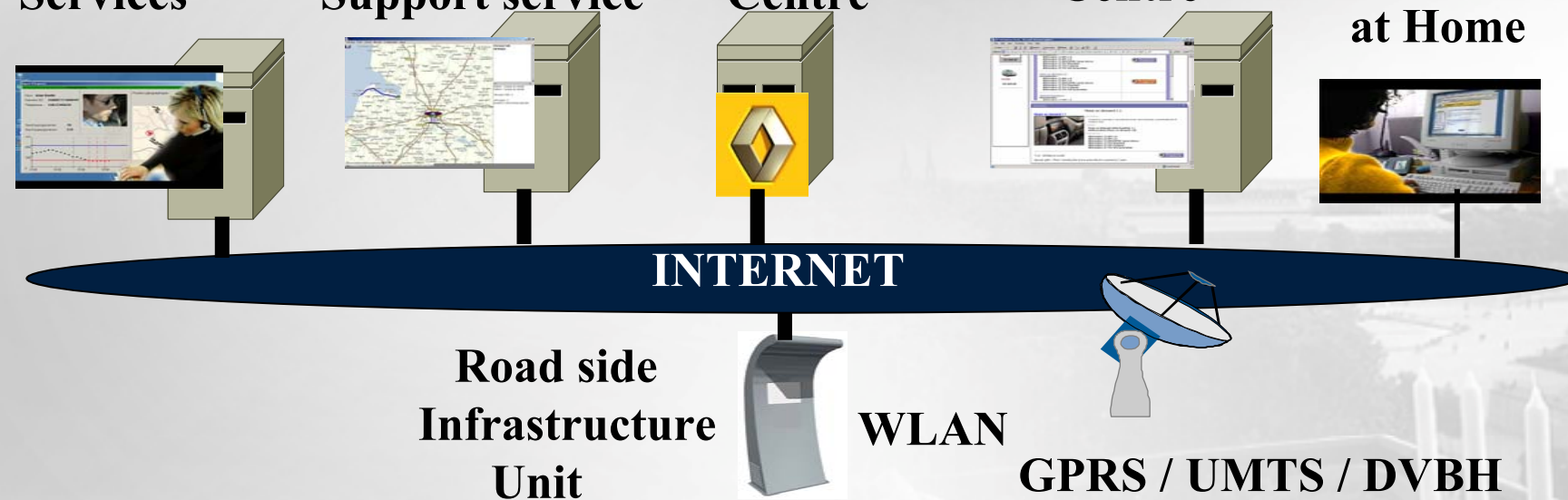
Assistance
Services

Travel
Support service

Control
Centre

Commercial
Centre

Customer
at Home



Conclusion

- **Importance of the Incremental Telematics Market**
- **In-Vehicle telematic system re-configuration flexibility has to be considered in product offers**
- **The security of OSGi bundle downloading is a major issue undertaken by GST. Secure certified protocols have to be used (e.g. SynchML, SAML)**
- **In-Vehicle telematic system Configuration Management is mandatory.**