

Accounting and Billing of Software Licenses in a Location Independent Manner

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- Problem
- SmartLM solution
- Accounting and Billing of Licenses

- o Licenses are usually bound to hardware inside the administrative domain
 - o **Grid infrastructures** usually spread across different administrative domains
 - o Virtualized infrastructures, like **Cloud Computing**, hide the underlying hardware and their performance indicators
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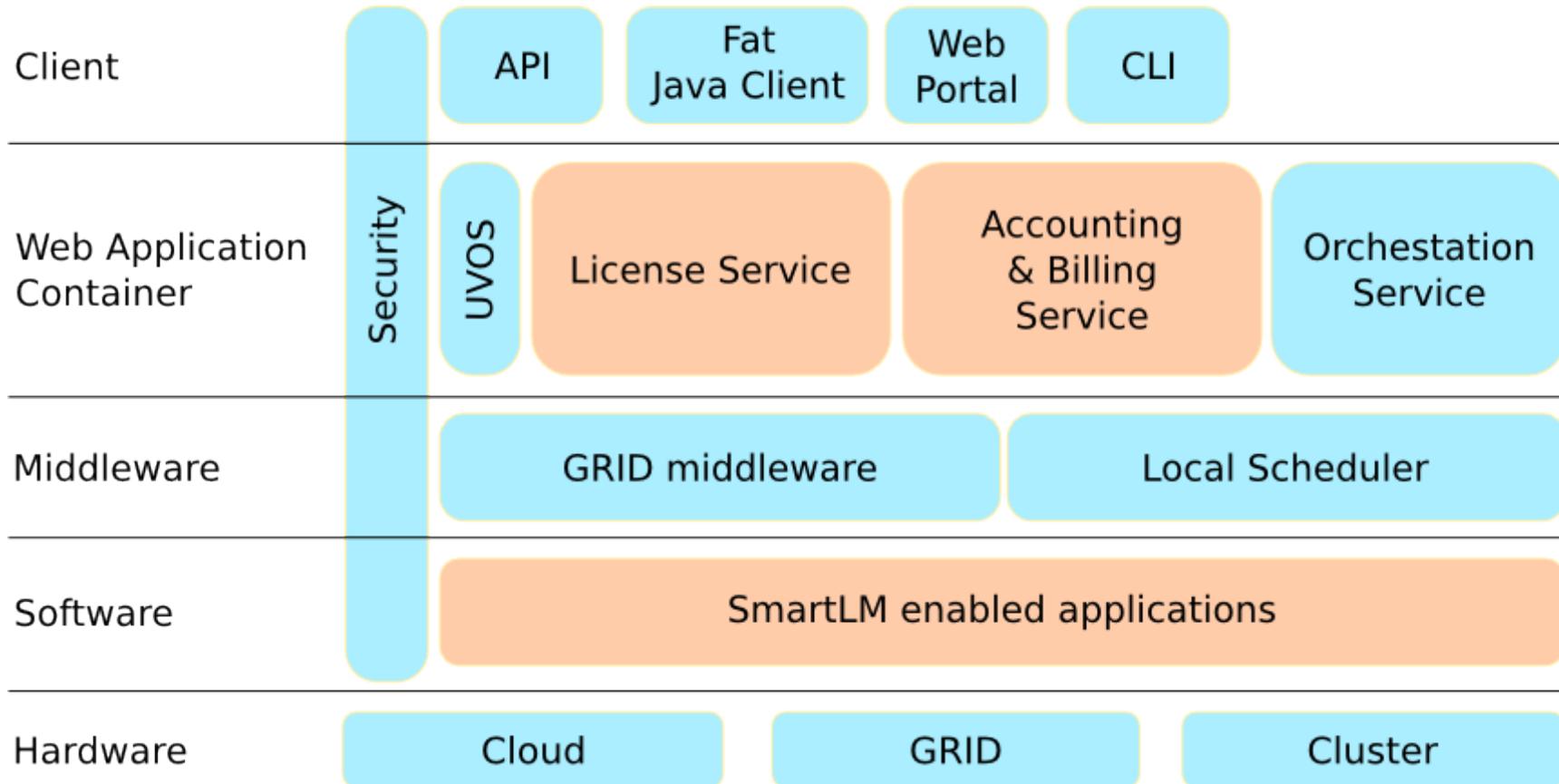
- o Software as a service is going mainstream
- o The final users wants to pay only what they use
- o The software vendors do not vote for a reduction of revenue

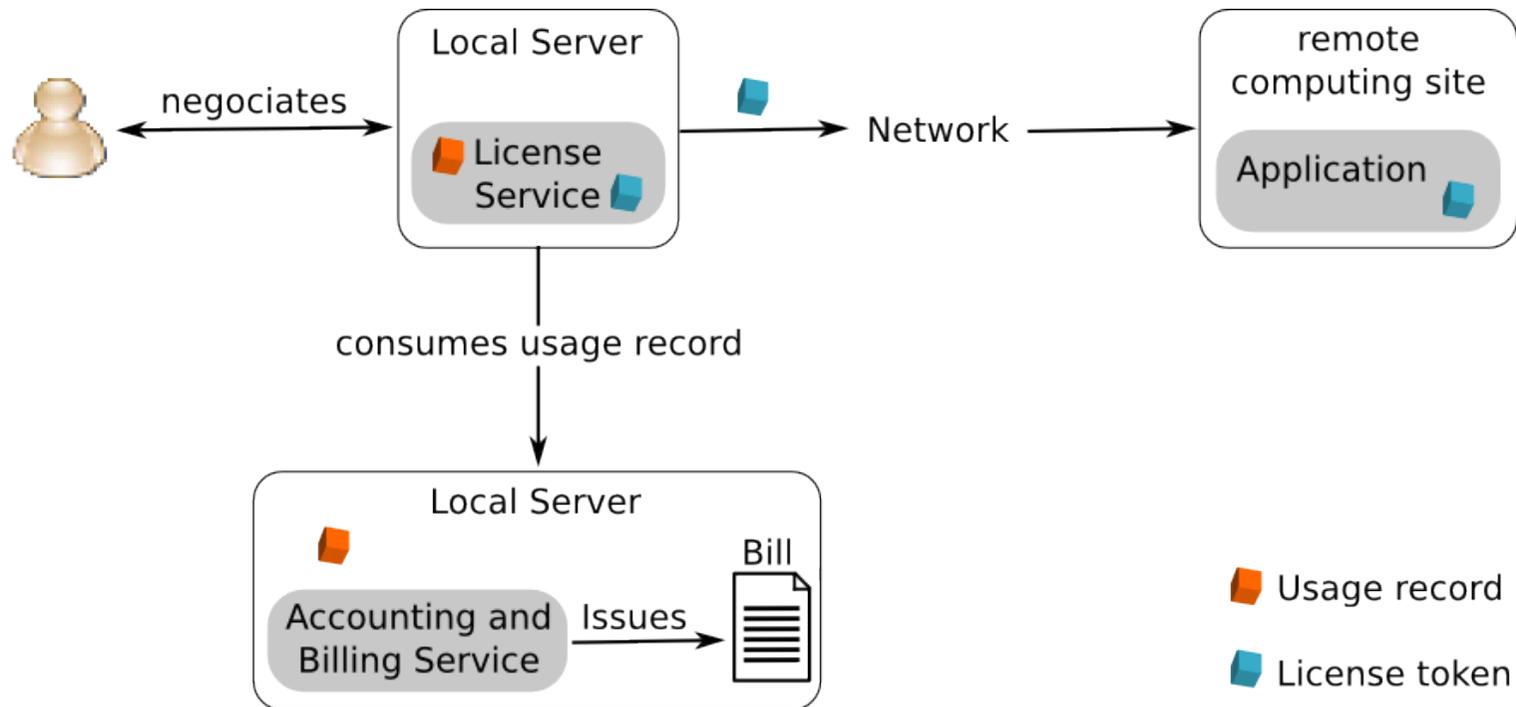
- o The goal of the SmartLM project is to develop both business and legal frameworks to support mobile, location independent license usage, as well as a technological framework that supports these business and legal objectives in a secure fashion
- o SmartLM is composed of a strong project consortium including Independent Software Vendors (ISV), Application Service Providers (ASP), business experts and computer scientists

- **SmartLM approach consists in treating and implementing software licenses as web-services resources**
- **The license service is a collection of services based on tokens that provide the required flexibility**
- **Modified versions of WS-Agreement and WS-Notification protocols to allow negotiation and renegotiation of license usage**

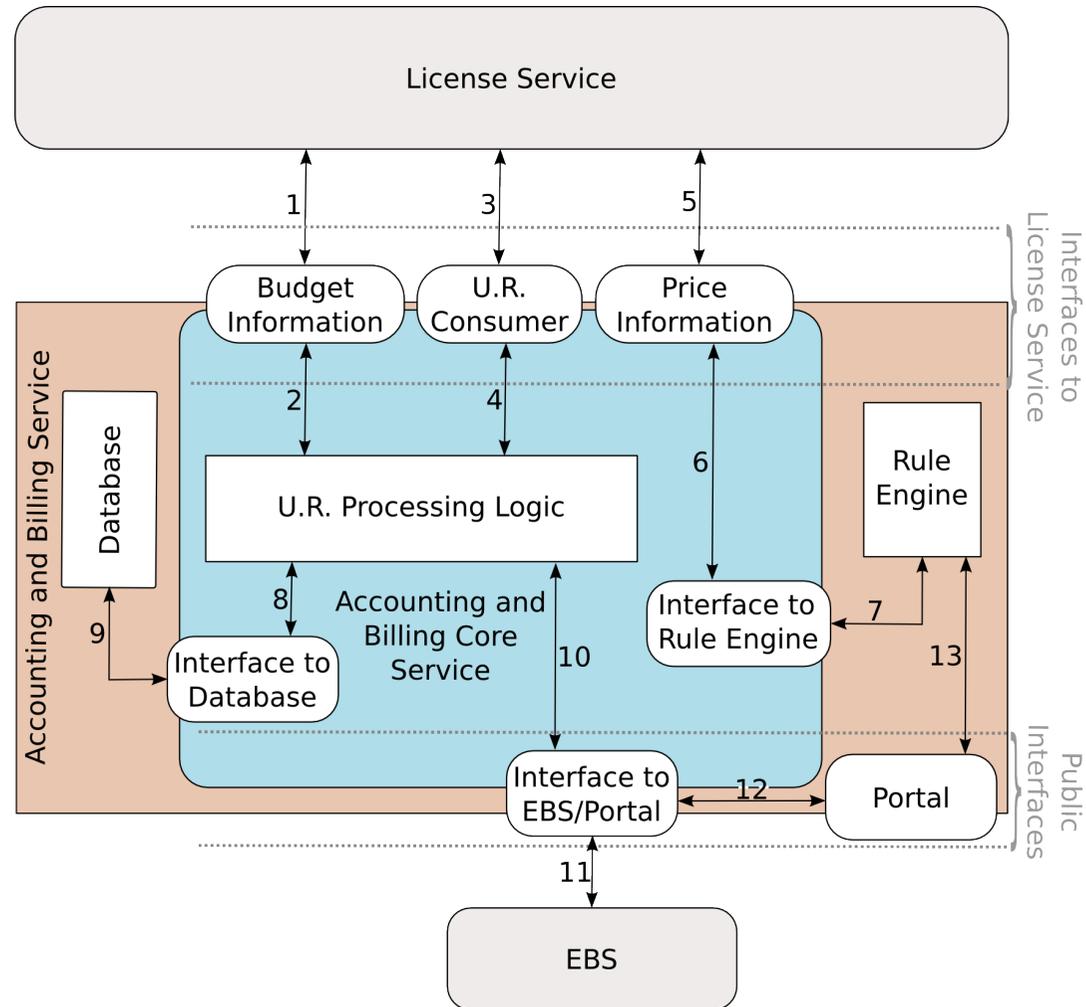
o Business models:

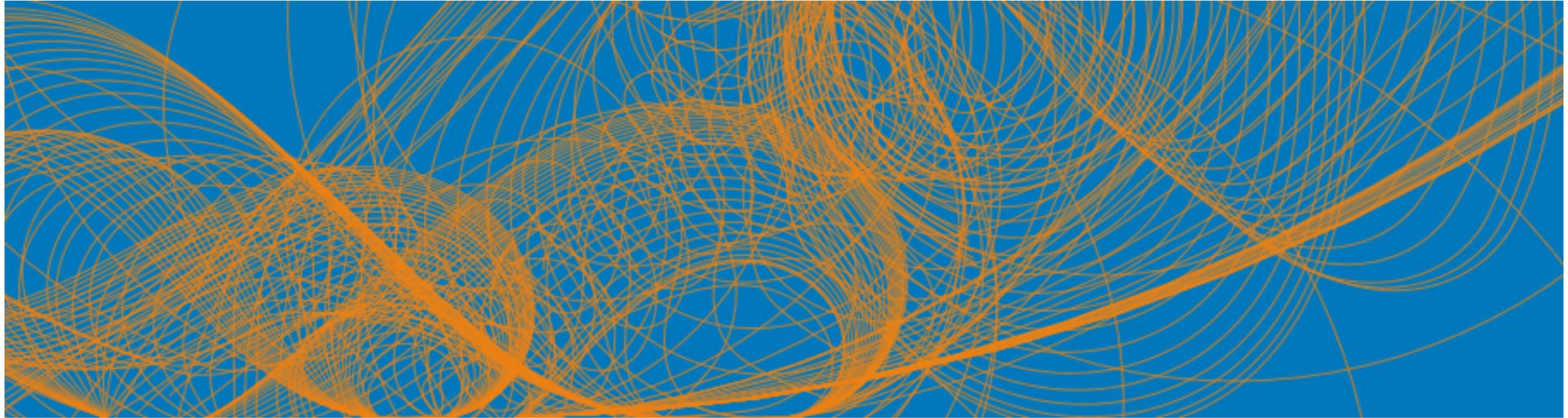
- o **ASP model**, the user is billed for software and hardware usage
- o **Extend of licenses on demand**, where the users extend the license usage for workload peaks
- o **Aggregation of licenses from different places**
- o **Hardware independent pricing model**





- o It is designed around a modified version of the **OGF standard**
 - o It gathers the **license usage information** generated by the license service
 - o It calculates the **price** for an execution via a **Rule Engine**
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Thank you !

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