Large-scale, situation-driven and quality-aware
Event Marketplace: The Concept, Challenges
and Opportunities

Vision:
EVENT MARKETPLACE PLATFORM, which
- collects events from heterogeneous, distributed event sources
- processes those events in a complex way in order to
- discover interesting situations that will be
- pushed to the interested parties

Motivating story:
Paul is a businessman who has been flying from
Paris to New York. He used the entertainment
service on board, but hasn’t finished watching the
movie before the landing. Two hours later he is
entering his room in the downtown hotel he booked
early and wow: the room entertainment service is
ready to PLAY the movie Paul was watching in the
plane – of course only the unfinished part.

Advantages: Semantic event format, Unified language for reasoning and querying, Elastic Event processing as a
service in cloud, Query language combining real-time and historic data, Collecting “Event Level Agreements”

Life Cycle & Components:
- Event Cloud layer: a peer-to-peer overlay
network combined with a publish/subscribe
mechanism,
- Distributed complex event processor: an
elastic, distributed computing cloud based engine for
complex processing/combining of events coming
from different services,
- Governance: enforce privacy on a per-stream
level, measure „Event Level Agreements“
- SoA integration: services can subscribe to events
using standards such as WS-Notification

Use cases:
- Smart Crisis Management (nuclear accident)
- Smart-Taxi (personalized taxi service) provided by France Telecom

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