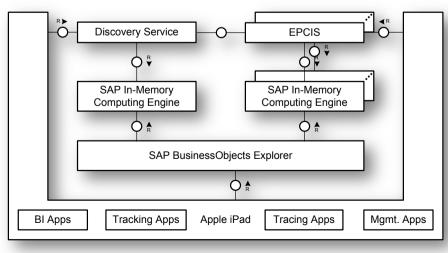


EPC Network

- Read events are locally stored in companies` EPC storage
- Event history can be gueried at the Discovery Service
- Enable track & trace for compliance, anti-counterfeiting, etc.
- We develop a benchmark using our supply chain simulator

In-Memory based EPC Network Components



Business Intelligence and Supply Chain Visualization



Use Case: European Pharmaceutical Industry

- 15 billion packages of pharmaceuticals per year to be tracked
- Ca. 5k/2.5k Discovery Service notifications/queries per second
- Containment-relationships have to be resolved
- Other use cases: tobacco, high-value goods, ...

Current Research Topics

- Analyze different **Discovery Service architectures**
- Reduce necessary storage space for EPC-data
- Increase write and read performance
- Define **business intelligence scenarios** for EPCIS servers
- Develop visualizations for supply chain management



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