Real-time, Remote, Predictive, Cloud et cetera: Buzzwords or Reality for Enterprise Asset Management?

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Dr. Barbara Schennerlein, SAP Research May 2012

The World Today



Many technological news, BUT ...

- What are the needs for business process improvements?
- What are the needs for a sustainable business growth?
 - \rightarrow Which technology can support the improvement of processes?



What are the needs for business process improvements?

- Global trends in manufacturing industries
- Transition from reactive to active service offerings
- ۲ Collaborative processes



Source: Capgemini

The Business Web Vision



Vision: Offer After Sales value-added Services in the Asset Life-Cycle



SAP Customer Scenario Today



SAP Customer Scenario Tomorrow – Asset operation through Business Web



Asset Information Management Scenario



Asset Information Management User Story (1)





Asset Information Management User Story (2)



During an unforeseeable problem a maintenance engineer of the operator needs supplier information about the broken asset for fast repair.

- <u>Today</u>: Mostly operator has out-dated supplier asset information. Access to current information is associated with media breaks, i.e. repair takes too much time.
- <u>Tomorrow</u>: Fast access to current supplier information reduces the repair time → higher asset availability



Asset Information Management - Opportunities



- necessity for new competitive service offerings in the industrial environment
- lots of information and service requests with many media breaks during the whole asset life cycle

M2M App

M2B App

INCREASED ASSET AVAILABILITY

IMPROVED ASSET LIFE CYCLE CLOUD COLLABORATION PLATFORM

- Shorter mean time for repair of assets
- Longer use and later recycling of assets
- Real-time access to machine events allows to offer remote services like condition or predictive monitoring

- Stronger differentiation through bundled productservice offerings
- Reduced efforts for asset data management due to cross-company access to information
- Reduced carbon footprint due to reduced travel of maintenance engineers

- Easy merge of crosscompany asset information like ERP data and real time device information
- Cost efficient on-demand service for each stakeholder without media breaks
- Asset information management as a basis for further services like predictive analytics

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Thank You!

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