Case Studies

Contents

- Overview of Case Studies

SIEMENS: Configuration and Reconfiguration in Industry

<u>Domain</u>: Railway interlockings (Eisenbahnstellwerke)

SIEMENS: Configuration and Reconfiguration in Industry

- Model and constraints comprise 20% of source code.

- Configuration effort for the first version of an inter-locking system could be reduced from 8 to 2 weeks.

- Easier knowledge base maintenance due to a declarative knowledge representation.

- Training time for new knowledge engineers reduce by approximately one half.

- Code size reduced due to the „multiple" application of constraints (e.g., consistency checking, explanations, repair, and filtering).

Tacton: Use of Tacton Configurator at FLSmidth

Domain: Equipment for cement plants

Tacton: Use of Tacton Configurator at FLSmidth

- Less time spent on product configuration (compared to earlier configuration processes).

- Shorter lead times for proposals and order processing (reduced from months to days).

- More standard configurations, i.e., "more customization than needed" can be avoided; result: reduced cost for supplying the product.

- Improved quality of configurations, i.e., risk of incorrect configuration is reduced.

- Increased market share due to freed resources (e.g., in sales and production)
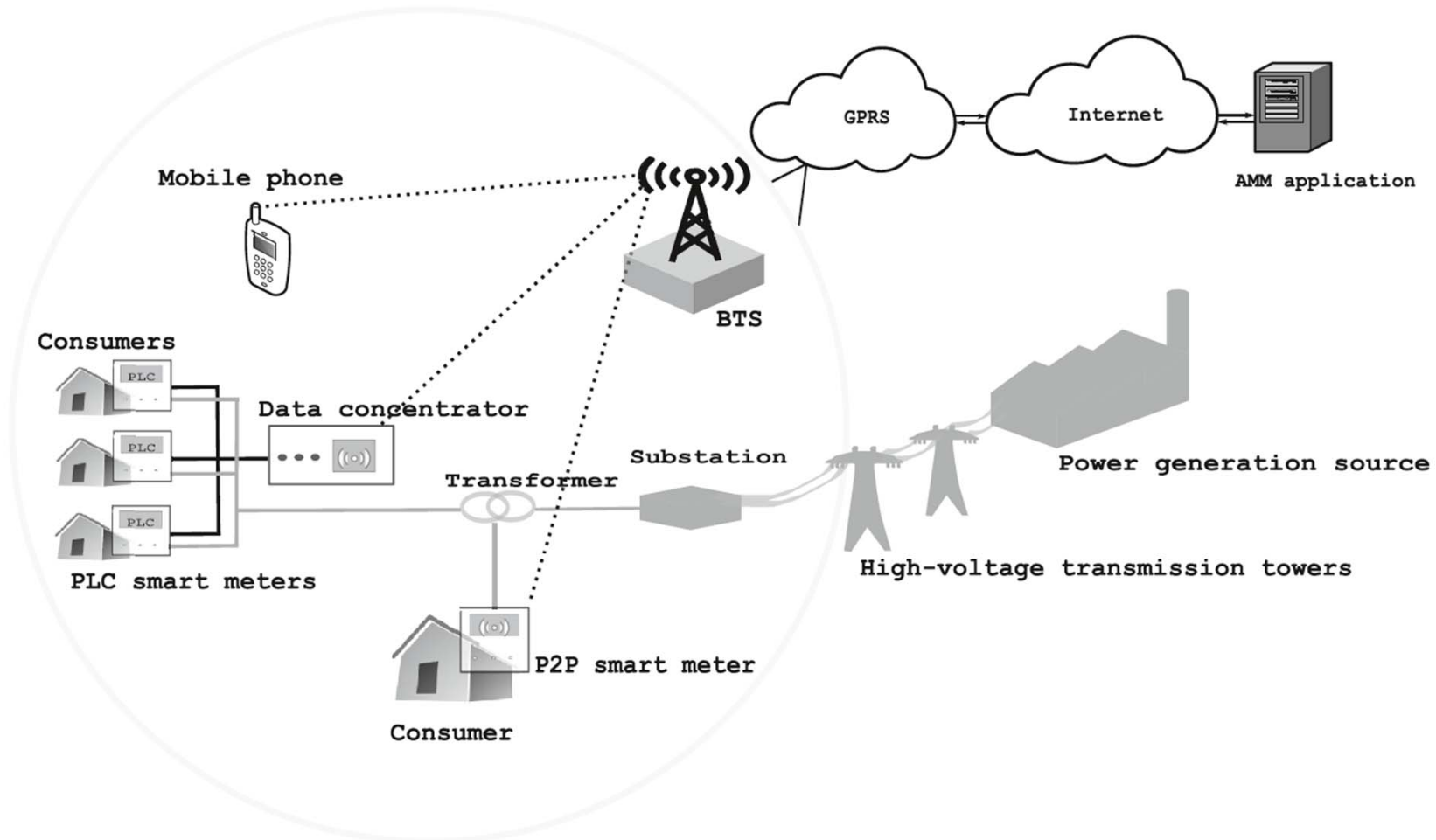
encoway: From ERP to Sales-Oriented Configuration

Domain: Compressed air systems

Tacton: Use of Tacton Configurator at FLSmidth

- Running sales application at the German company Boge.

- Up-to-date product models in sales application and ERP counterparts.

- Fast and technically correct product proposals.

- Customers and dealers also profit from configuration functionalities

Kapsch: Reconfiguration of Mobile Phone Networks

Kapsch: Reconfiguration of Mobile Phone Networks

- Application providers can easily figure out whether their requirements regarding mobile phone network capabilities can be fulfilled.

- Mobile phone network providers can exploit configuration to change/adapt network parameters to take into account new requirements.

- Network equipment vendors can promote reconfigurations of existing networks (=offers for network service providers).

SIEMENS VAI: Configuring and Generating Technical Documents

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- 100 users of the tool manage about 15 product lines. (configuration and generation of documents).

- Documents used to provide information to customers or to prepare customer meetings.

- Avoidance of time-consuming and error-prone manual adaptation of documentations.

- Workload of experts is reduced since because persons less familiar with "implicit" are supported and make less mistakes.

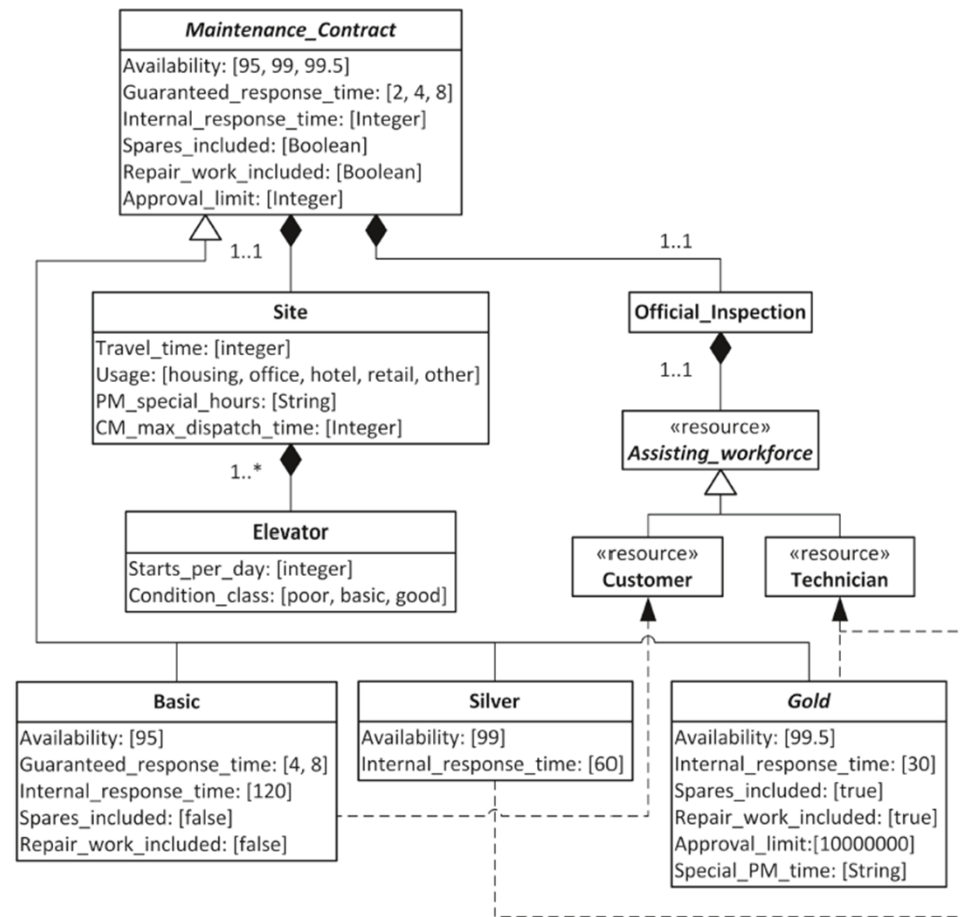# Configuring Services and Processes

FIGURE 21.1

Elevator Maintenance contract configuration model.

Configuring Services and Processes

- Many modern product offerings are bundles of physical and service elements.

- Example: elevator maintenance contracts.

- Extension of configuration technologies to longterm customer relationships.

- Process configuration successful in several large projects (e.g., in the film industry).

Thank You!