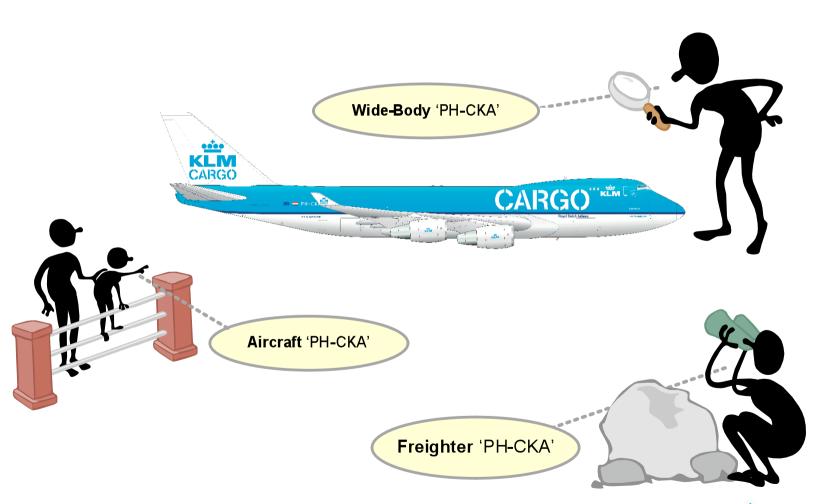




Writing Business Rules A vision on some advanced topics

June 2008

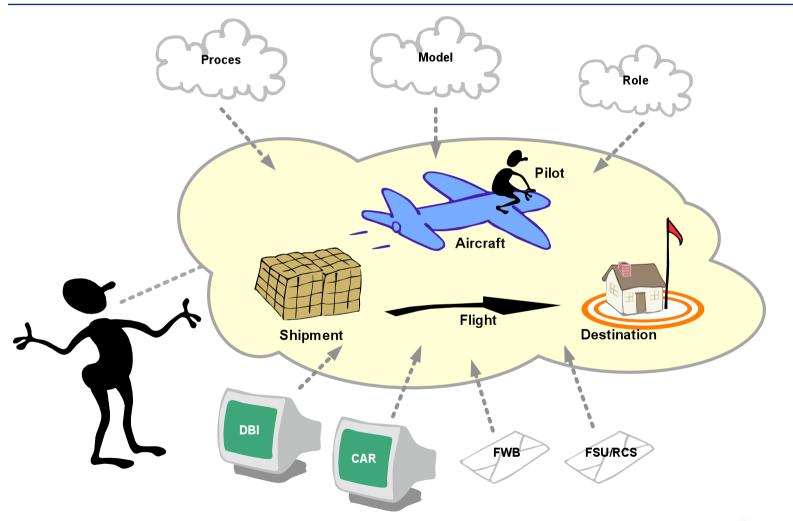
Problem: The right abstractions







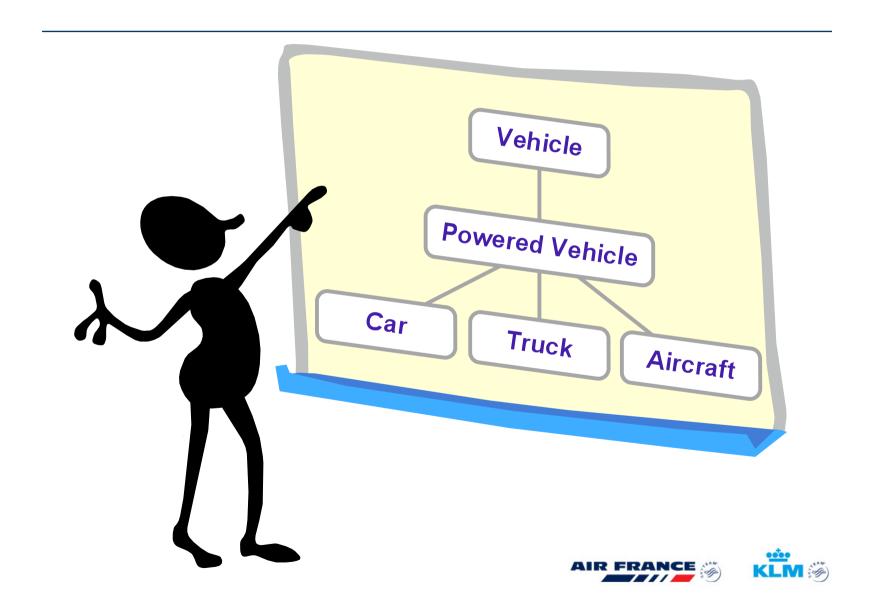
Problem: The right level



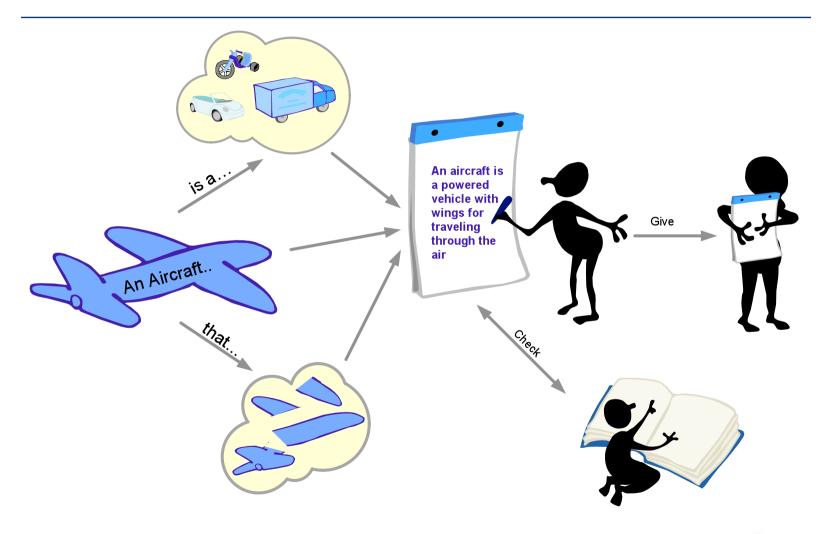




Solution: Vocabulary



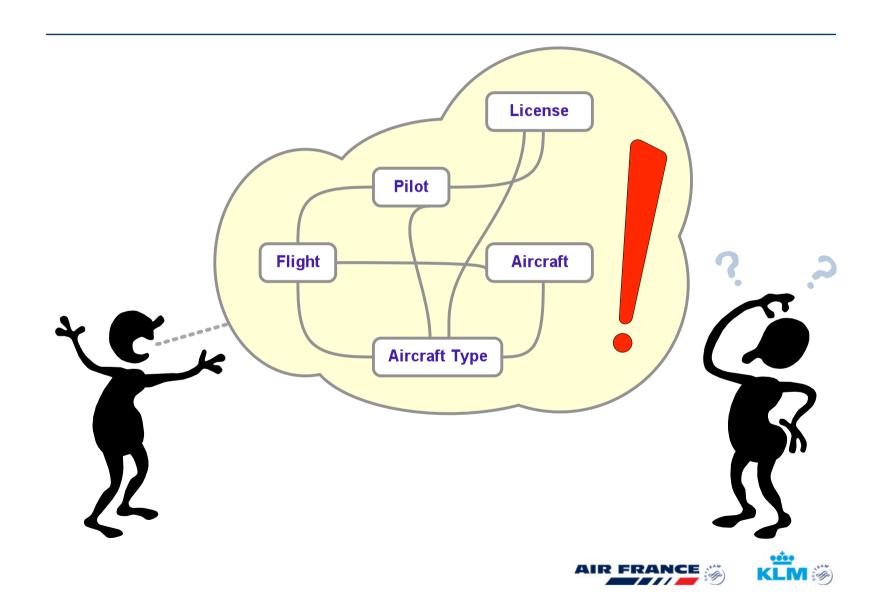
Background: Definition



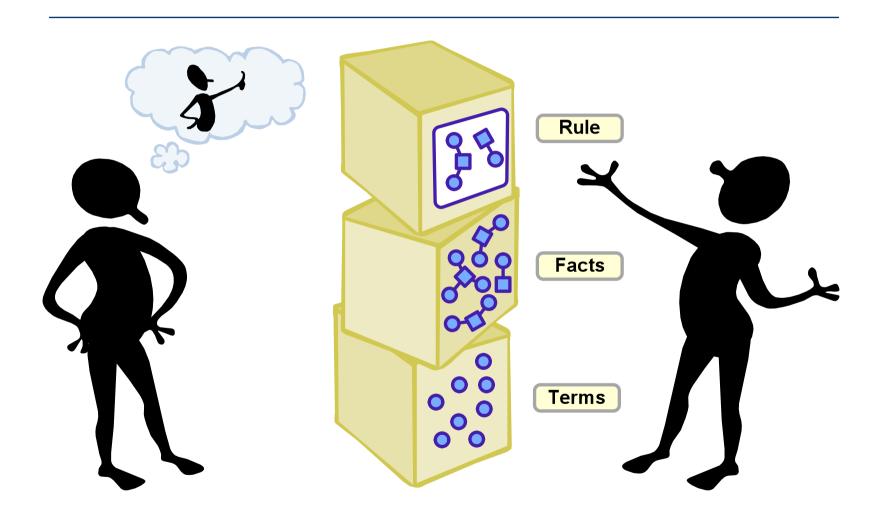




Problem: quality of rules



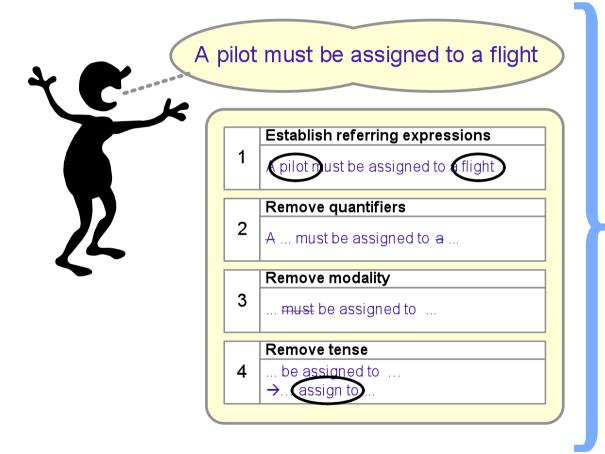
Solution: quality check on rules

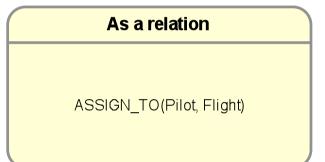


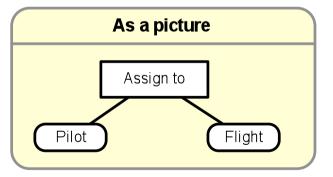




Background: Structural Rules (Facts)



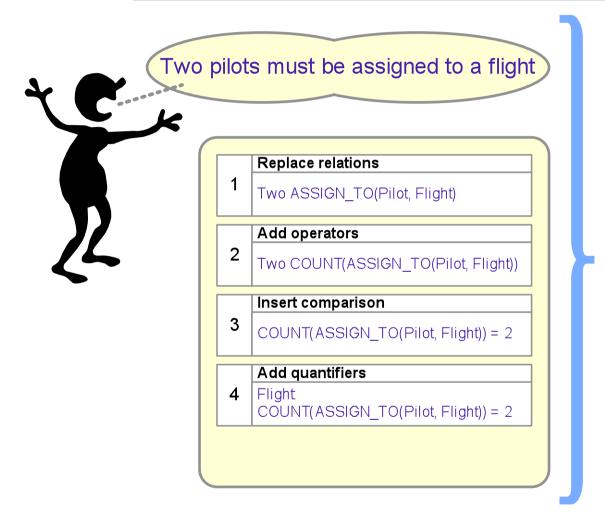


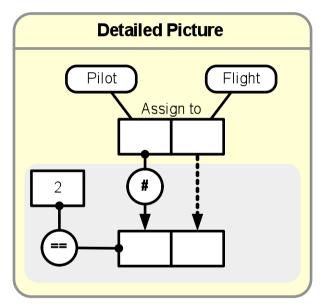


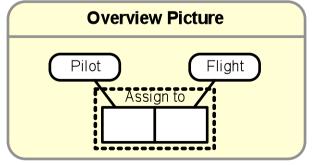




Background: Constraints



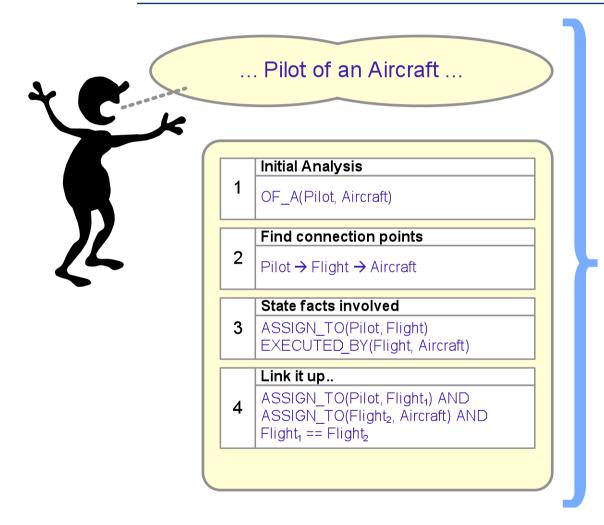


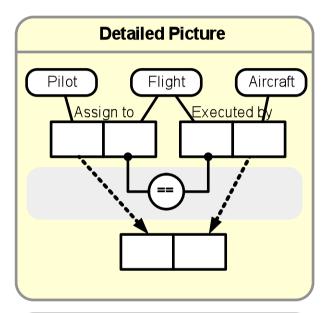


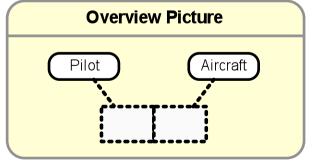




10 Background: Complex Paths





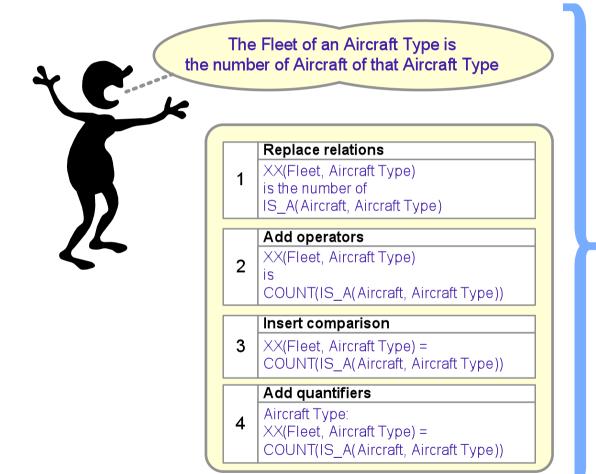


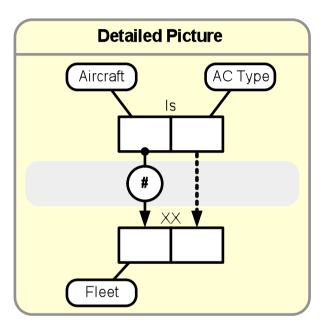


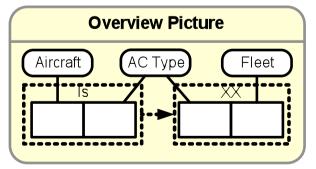


11

Background: Production Rules











Background: Conditional rules

- Simple addition of a condition, link of two constraints by an 'if'
- Write the consequence first; it is more logical to business people
- Logic only in antecedent, using applicability (see Graham) also is a good way
- Applicability...





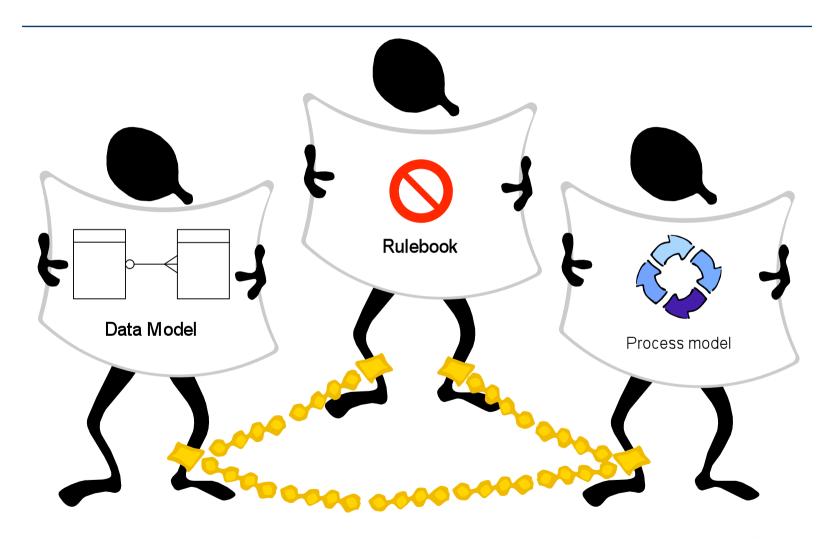
Vision: What a future DBMS should be

- 5 levels of enforcement:
 - Strict: adding a conflicting fact should fail
 - Approved: adding a conflicting fact leads to a workflow
 - Explained: adding a conflicting fact leads to a pop-up text
 - Managed: adding a conflicting fact is reported
 - Guideline: adding a conflicting fact is OK
- Put these facilities in a DBMS in stead of good-old things like triggers





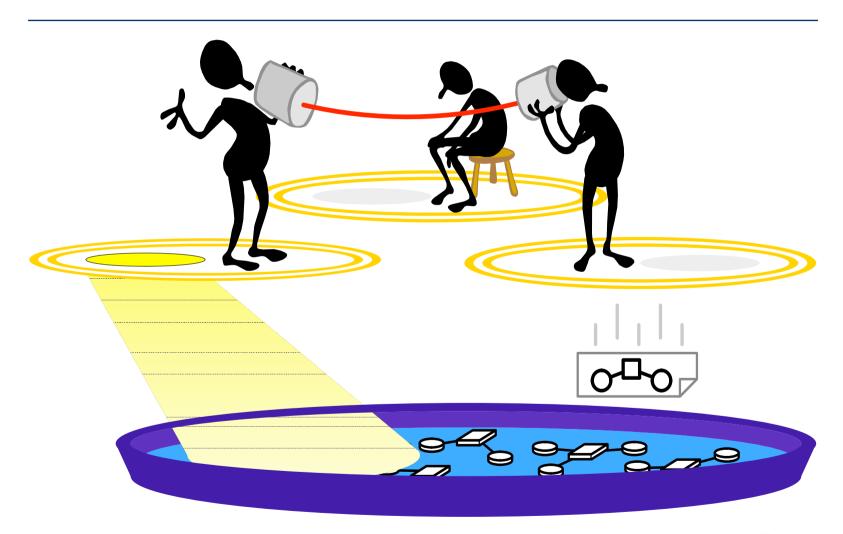
14 Problem: Consistency with Process







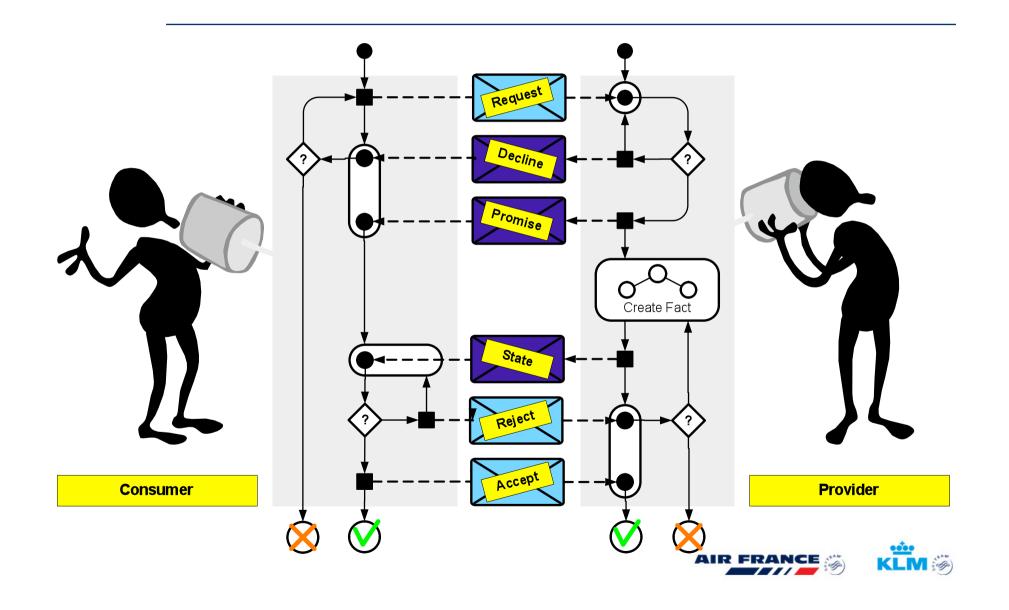
15 Solution: Establishing Domains



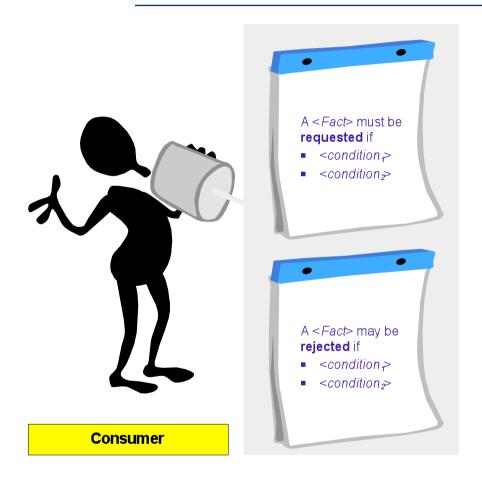


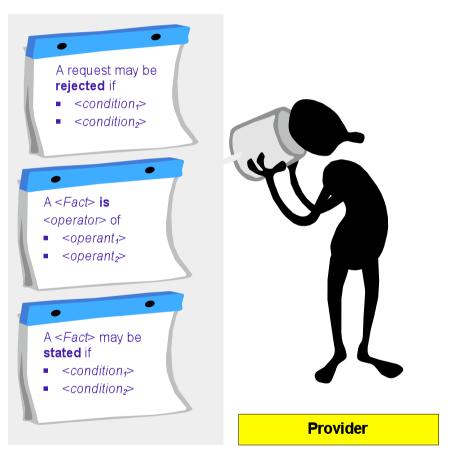


16 Solution: Linguistic view of a Process



17 Solution: Rules to govern the process

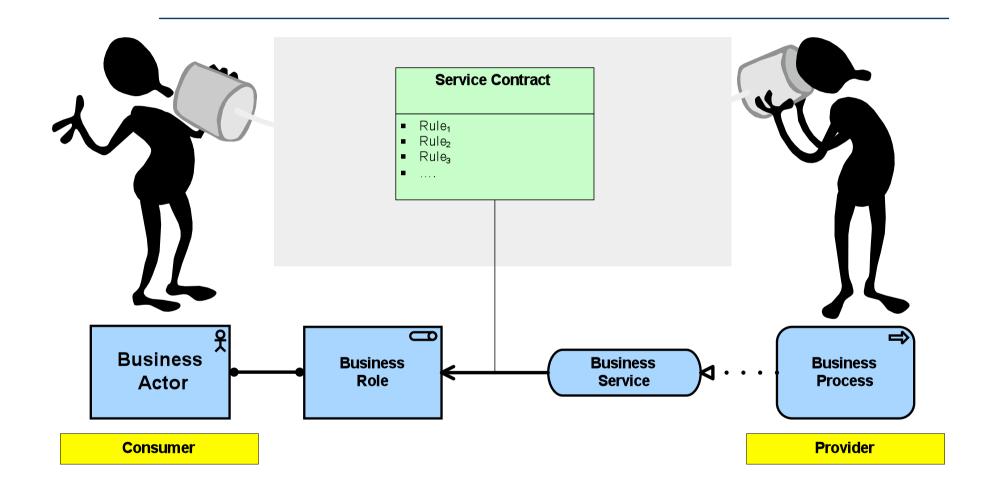








18 Finally: Transaction as Service







Vision: Complete business model

The formal structure of an organization can be completely described using a limited but readable set of sentences (the rules), for which we can envision the meta data model and the graphical models.

(so why not?)





20 Appendix: Events

