

Translating Platform-Independent Code into Natural Language Texts

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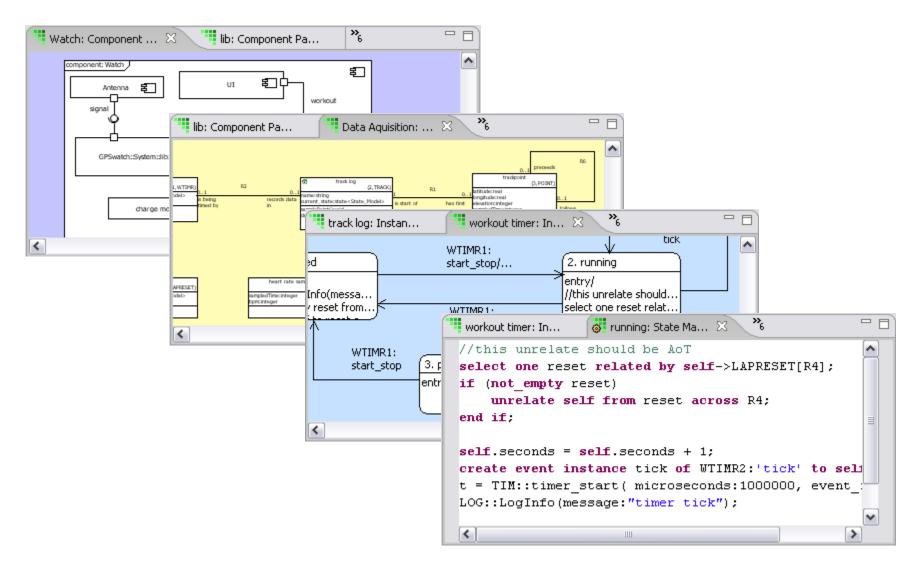


Motivation





Problem and context





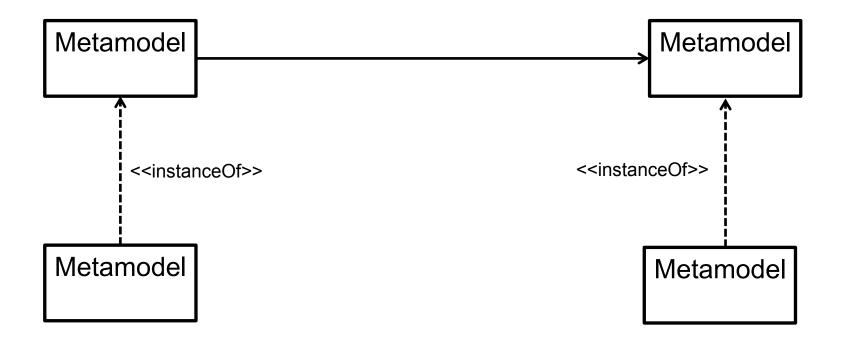
Possible solution

Everybody knows how to consume text System Architect at Ericsson





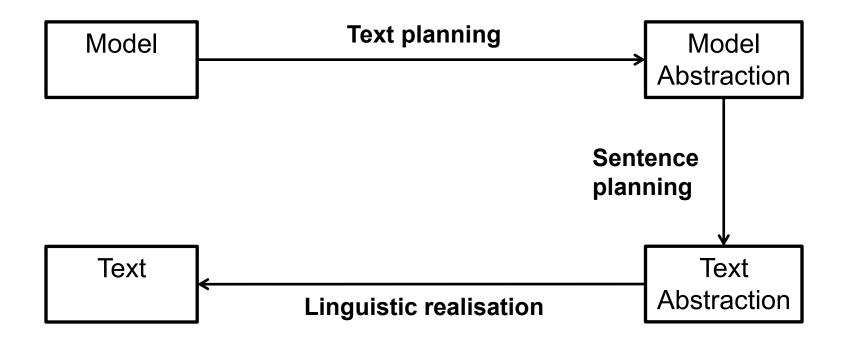
M2T: Model-to-Text







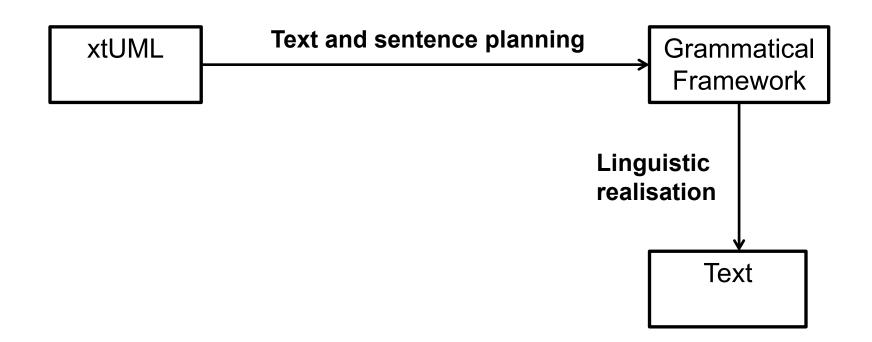
NLG: Natural language generation







Case study







Examples

Action language

create object instance res of Reservation;

English

res refers to a Reservation

relate res to self across R4;

res and the BookingProcess share information

select many ress related by room -> Reservation[R2];

ress refers to many Reservations



Conclusion

- First attempt to translate Platform-Independent code into natural language text
- The challenge is not the transformation as such but
 - what is an appropriate abstraction?
 - how are the concepts of the metamodel mapped into linguistic concepts?
 - (e.g. should O_OBJ be mapped to mkCN, mkN or mkPN?)
- The approach needs industrial evaluation