

GhostWriter

Plan based generation of multilingual aircraft manuals



Description:

- ◆ An authoring environment to support production of technical documents by British Aerospace and Dassault Aviation.
- ◆ Each aircraft has a large number of maintenance & other documents, required in both English and French.
- ◆ GhostWriter supports generation of technical documentation in either language.
- ◆ It also gives advice about possible errors and omissions during the construction of a publication.



Technical approach:

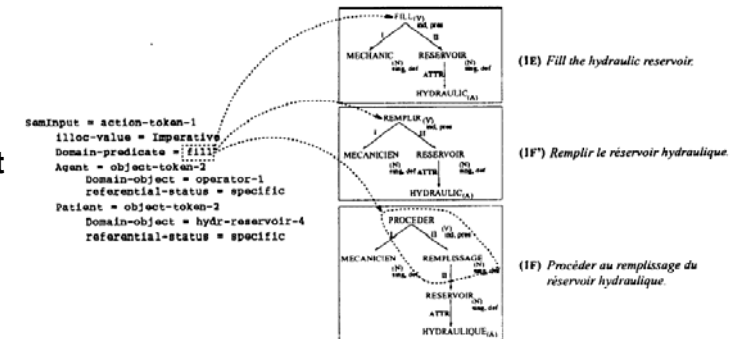
- ◆ Maintenance procedures are written using a plan-based knowledge representation.
- ◆ Planning technology validates these procedures.
- ◆ Documents are then generated from this language-neutral representation.
- ◆ Procedures can be displayed using simple graphics.
- ◆ *Success through improved productivity and increased error checking.*



A Tornado aircraft with its accompanying technical documentation

Benefits:

- ◆ Prototype has been used to produce documents for most of a complex maintenance procedure for the Falcon 900.
- ◆ The resulting texts are at a level close to that produced by human authors.
- ◆ Current version is interactive and semi-automatic.
- ◆ It also offers a potential speed-up in document authoring.



The internal representation used by GhostWriter

BAE SYSTEMS



British Aerospace, Dassault Aviation, & University of Edinburgh
<http://www.aiai.ed.ac.uk/project/ghostwriter/>

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