OOoCon 2004 - Berlin

Translation Technology At Sun Microsystems, Inc. BOF Session



Agenda

- Our interest in translation tools
- Explanation of common problems facing translators
- Some common standards
 - TMX & XLIFF
- Our tools
- Demo of our translation editor



Our interest in translation tools

- Annual throughput of 40 million words
- Translation into 9 languages (sometimes more)
- Wide variety of products translated, from technical and developer material to end-user focused material



Problems facing translators

- New file format "arms race"
 - Constantly encountering new file formats
 - Not all translators are technical and some file formats can be complex
 - Tools authors also need to maintain tool to keep up with changing formats
- Reuse existing translations
- Use common terminology when translating
- Maintain consistency between documentation and software translations
- Avoid breaking files
 - Formatting problems
 - Encoding problems
 - Missing messages



Common translation standards

- TMX (Translation Memory eXchange)
 - Simple XML based container format
 - Provides basic source language / target language mapping & some context information



Common translation standards

- XLIFF (eXtensible Localization Interchange File Format)
 - XML based container format
 - Provides more complex features than TMX :
 - De-coupling translatable text from formatting
 - Alternative translations from TM/MT/Glossary tools
 - Additional context information
 - Comments from translators
 - Format highlighting



Our tools

- Translation memory tool
 - J2EE application including filters to convert incoming formats to XLIFF
 - Fast exact & fuzzy lookup against a very large database of pretranslated text (1.4 million source segments, ~ 8 million translated segments)
 - Statistics output file
- Translation editor
 - Edits XLIFF files
 - Format highlighting
 - Repetition & local "mini-TM" functionality
 - Spell checkers & format checking



Demo & Resources

- •TMX [1]
- XLIFF [2]
- GADC [3]
- Tim's Web Log :-) [4]

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[1] http://www.lisa.org/tmx
[2] http://www.oasis-open.org/committees//tc_home.php?wg_abbrev=xliff
[3] http://developers.sun.com/techtopics//global
[4] http://blogs.sun.com/timf
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