Status of Tools

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Tools to be covered

- CASE Tools
- Code checking tools
- Configuration Management (SRT)
- WEB
- Document preparation (XML??)

CASE Tools

- Have been using StP at some level in the past
  - We have licences on a server at CERN for anyone
- Together
  - site license for CERN
  - Less criticism
  - More happiness
- CASE tool questionnaire $\rightarrow$ more than 1 tool

Together 3.1 and StP

- *Together*
  - 3.1 should be out in the new year.
  - I will be attending a course next week.
  - Some kind of training might be useful
- StP
  - They are considering bringing it out on Linux
  - They are promising to bring the Unix and the NT versions back in step

New in *Together* 3.1

- More UML diagrams:
  - Activity
  - Component
  - Deployment
  - Business Process
- Support for patterns including GoF.
- Out-of-box tools integration with CVS
- Metrics and audits to support quality assurance. From resulting table, navigate directly to diagram or source-code.
- More sample scripts including XML import/export, CORBA IDL export, and DDL generation, all with source code
- Documentation template designer and sample templates for easier custom doc generation plus Java 2 Javadoc compliant HTML doc gen.
- New JFC Swing user interface design making Together's most-needed features easier to find and use. Edit multiple diagrams in one workspace.

StP maintenance

- StP maintenance is due for renewal - what do we request?
  - Does anyone prefer StP to *Together*?
  - Want to keep some licences going just in case they get it right one day?
  - Maybe people are not using Together either - no license manager

Code Checking Tools

- Stefano Paoli's working group will finish report soon.
- There were 2 strong candidates:
  - CodeWizard is still looking quite good
  - QA-C++ has produced a poor beta
  - CodeCheck will not be recommended.
- Need to add at least something about the audit facilities within *Together* as well as work being done by ALICE.

Configuration Management

- Following the revision of the requirements document after the review:
  - CMT based proposal from Christian Arnault received
  - SRT based proposal from Lassi Tuura promised
  - RPM based solution is being considered by Tony Wildish
  - Need to pursue SCRAM
- Would appreciate help in checking these documents and evaluating the proposals

Web

- Last time I mentioned a few possible improvements. Have:
  - Tidied up top computing page
  - Installed new search engine also →
    - recently changed pages
    - big pages
    - count of pages by site (not just at CERN)
  - Index - to keep top page structured

Adding pages to the web

- If you have an ATLAS computing web at your home institute please let me know for the search engine.
- If you have material for the CERN server
  - contact the person who looks after the pages where you want to insert your stuff - currently me for the top pages
- Will clarify the responsibility for pages $\rightarrow$ automatically e-mail people about broken links.

Document preparation (XML?)

- XML has taken off in all manner of areas (music, UML, etc) but producing paper is tricky.
- W3 documents are stabilising.
- Different style sheet languages:
  - CSS - very simple - not XML
  - DSSSL - powerful - from SGML times - a bit like LISP
  - XSL - similar power to DSSSL - but ugly as it is forced into XML mould
- There are lots of tools around - many are free - but don’t work well together

http://xml.apache.org/

- The goals of the Apache XML Project are:
  - to provide commercial-quality standards-based XML solutions that are developed in an open and co-operative fashion,
  - to provide feedback to standards bodies (such as IETF and W3C) from an implementation perspective, and
  - to be a focus for XML-related activities within Apache projects
- Sub-projects:
  - Xerces - XML parsers in Java, C++, and Perl
  - Xalan - XSLT stylesheet processors, in Java and C++
  - FOP - XSL formatting objects, in Java
  - Cocoon - XML-based web publishing, in Java

What now?

- The web page: http://atlasinfo.cern.ch/Atlas/GROUPS/SOFTWARE/OO/tools/doc/ describes a basic scheme with LaTeX.
- Have a recipe XSL $\rightarrow$ PDF and HTML (includes sed) **Not recommended**
- I expect XML processing to PDF and multiple HTML pages to be practical in Spring.
- But not yet.