Visualization of Aeronautical Information for the Masses

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Project Objectives

Enable AIXM extension and integration of applications.

This requires exchange of data, measures of system state, and support for presentation of information.
Range of Applications

- **Concept areas requiring visualization:** aerodromes/airports, airspaces, routes, procedures, services and fixes.
- **Airport concepts:** aerodrome/heliport, timesheet, obstacles, apron, taxiway, runway and runway direction.
Range of End-Users ....

- Low-end: 3d visualization tool running on a standalone laptop...
- High-end: Modern computer, high-speed networking ....
Development Challenges

- We want to create a framework upon which end-users can visualize and interact with AIXM data/information in three dimensions.
- Solutions must be open-source and to the extent possible, technology neutral (i.e., use Java).
- Solutions must be scalable. AIXM schema contains hundreds of classes, attributes and relationships.
- Need to maximize reuse of previous work.
Open Source Software

What does this mean?

- Free redistribution of code,
- Distribution includes source code,
- Provide for derived works,
- No discrimination against persons, groups, or fields of endeavor,
- License attached to distribution. It is technology neutral.
Technical Approach

- Solution needs to be scalable – therefore we are investigating feasibility of generating source code directly from the AIXM schema.
- We will cover technical details in a talk on Thursday.
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......

</shapes>
How can you get involved?

- We expect to have a web site up-and-running by mid-2007.
- Software prototypes will be available for download.
- Contact us: Mark Austin (austin@isr.umd.edu), Natasha Shmunis (kosnat@isr.umd.edu), Michael Ball (mball@rhsmith.umd.edu).