

AWIPS Migration Topic of the Week – TO 10 Outbrief

Thursday, February 12, Raytheon summed up their Task Order 10 delivery with a VTC briefing. Most regions and HQ offices attended and the presentation from the VTC will be posted on the AWIPS II web site early next week.

Here are some highlights, in no particular order. Thanks to Pete Pickard for taking notes.

* Infrastructure

- o made changes to streamline development (OSGI for standard, Eclipse-compatible plug-ins; version-controlled library structure; plug-in simplifications)
- o Replaced JIBX with JAXB for XML serialization (a one-person project with a Java tool)
- o Removed all persistence of data when switching perspectives (black box behavior that could change later)
- o Store all maps in Postgres common GIS format for speed in display
- o More benefits from Camel (very stable under heavy/spike load, leverages Apache projects, simpler plug-in deployment)

- o Log4j allows breaking out logs, e.g. for SHEF decoder
(logging level can change on the fly depending on how much debug code developer has put in)
- o Improved HDF5 locking performance to allow NFS use like AWIPS 1 (e.g., noasync)
- o Using Thrift for binary serialization (a facebook technology in Apache)
- o Simpler plug-ins (python, java)
- o Improved purging flexibility in TO10 - still need to build on just the version-purging infrastructure delivered in TO10

* Applications

- o Replacement Skew-T combines features of NSHARP and D2D - RTS looking for evaluation input
- o Extended derived param for more data types - stay tuned for TO11 changes
- o Implemented prototype of Guardian
- o New CLI tools added after NCLADT TIM
- o Implemented and reorganized hydro ingest (and did not change IHFS data base!)
- o New MPE and hydro workstation perspectives (NWS will have to evaluate)
- o MPE business logic new in Java - big testing effort!
- o Most Hydrobase GUIs (note there were some issues during DT)
- o Riverpro business logic same - made into C libraries, with

Java adapter

- o More text formatters; will allow field overrides
- o AFPS not needed (in AWIPS 1 it interfaces C++ to Python) - appears straightforward to replace AFPS calls
- o List of items (slide 39 of the briefing) Omaha would like early evaluation
- o Note ORPG interface done in Java by O&M group as part of AWIPS Transition activities - "prototype"
- o Several planned infrastructure improvements (slide 40 of the briefing) to be aware of and look out for in the TO11 slices

As you can see, there will be lots of new functionality to review, evaluate, test and provide feedback on for TO10.

So next week's Weekly Topic will be, What's Next - Now the Fun Really Starts!

The Readiness review for OTE is 278 days away.

Reminder to all developers. The TO10 Programmers Briefing will be this coming February 18-19.

Ed Mandel