AWIPS Reference Training Plugin
(Just in Time Training Plugin)

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History of the project

- Originally purposed at 2015 NOAA Satellite User Readiness Meeting
- Prototype developed at NASA SpoRT
- Tested at OPG Spring 2016
- Development moved to MDL with partnership with WDTD
What is AWIPS?
- Advanced Weather Information Processing System
- Ingest, visualization, forecast creation tool of National Weather Service

What is EDEX?
- Ingest, and Backend of AWIPS system

What is CAVE?
- Visualization portion of AWIPS
What is VLab?

Virtual Lab Development Services (VLDS)
Virtual Lab Collaboration Services (VLCS)

- VLCS uses platform called Liferay
- VLCS supports communities through wiki, forums, document libraries, blogs, and web content.
- VLCS supports science sharing and training
Need

- Currently forecasters have different systems for composing the forecast versus reference and training material
- No method to lookup training on a meteorological product within AWIPS or WES
Why is this a problem?

- **Warning Event Simulator (WES)**
  - Train how you work
  - Train on the system you use to do your work
- **Current system does not have integrated reference**
- **Having material on decision making system allows closer comparison**
- **Currently no easy way to search available training**
- **Training is spread across various locations**
- **Reference material for less frequent applications is sometimes hard to find**
Other issues to address

- Don’t want to impose another set of training development tools
- Some materials are only regional or locally useful
- Need to provide a way for materials to be reused
- Provide feedback on materials
Accessing Training on a Product
Search Results

- Results are ordered by match score
- Results are accessible from AWIPS
- Material can be rated and commented upon
RGB Imagery for Aviation and Cloud Analysis

A module by NASA/SPoRT on the application of RGB Imagery
Created November 2013
What is happening behind the scenes?

Trainer creates material on VLab

Forecaster searches for training from AWIPS
Benefits

- **User initiates the search, but can change the parameters**
- **Sorting of material is various ways, such as:**
  - Keyword matching
  - By length of training
  - Source
- **Crowd sourcing**
  - Comments
  - Rating
(AWIPS Reference) Just in Time Training Plugin was integrated with new products for RGB satellite data

- Forecasters worked as in real-life forecasting
- Forecasters were shown how to use the plugin to access training and reference material
- Resounding success
- Forecasters asked how they could get this plugin at their site ASAP
AWIPS Integration

- Software was delivered with 16.4.1
- Development of VLab Interface is ongoing
- Appearing in offices in early Winter 2016 (currently scheduled for 12/8/16)
How do training/reference developers add content?

Once VLab integration is deployed...

1. Training developers will create training/reference content on VLab
2. Then create fill in a web page with some information about the training
   a. Title
   b. Description
   c. Keyword tags
   d. Duration
   e. Source
   f. Thumnail
Other Interesting Features

Training can be managed within Communities in VLab

- Geotagging training
- Ratings
- Comments
- Versioning
- Flexibility
Materials can be managed in communities

Satellite Community

Radar Community
Geotagging Materials

Materials for Southeastern US may or may not be helpful in Alaska?

- Searches contain view extent
Ratings and Comments

- Use VLab existing rating and comment system
- Provides feedback to other users
- Provides feedback to training/reference developers
Versioning and Flexibility

- VLab automatically has versioning
- Material developers can easily provide updates
- Material developers can adjust tags
- Users can view inside and outside of AWIPS
Questions

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