

## AWIPS Migration Topic of the Week -- Architecture Update

All:

With Task Order 10 (to be delivered in early Feb), we will see some changes to our new AWIPS architecture. Of course, since it has not yet been delivered, we may see some additional change, so consider this description interesting, educated guesses. For those of you who may recall previous posts about our new architecture, key elements of the architecture are an Enterprise Service Bus (ESB) and messaging. Services communicate with one another by sending messages through the ESB. With TO10, the ESB is being switched from Mule to Apache's Camel. (Apache is a community of open source projects supported by the Apache foundation. Camel is one of the Apache projects.) Also the messaging broker we had used, activeMQ is integrated into Camel as is Tomcat which we use for the Micro-Engine web client. Both of these now run in the same Java Virtual Machine as Camel, a resource savings. Another exciting change is the introduction of a new project called Thrift, also supported by Apache. Thrift was developed by Facebook, and it makes messaging between services more efficient.

Here are some links for further reading

For Thrift

<http://incubator.apache.org/thrift/>

for Camel

<http://activemq.apache.org/camel/>

and for Apache in general

<http://apache.org/>

Happy Holidays!

Thanks,

Edwin

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