

Handling of Unsupported Modules

Motivation:	Clarity of purpose
Contact:	full name
Tracker:	http://jira.codehaus.org/browse/GEOT-1953 Build Change http://jira.codehaus.org/browse/GEOT-1955 Developers Guide Change
Tagline:	got code?

The introduction of unsupported modules has been a great success; now that we are nearing the release of GeoTools 2.5.0 we need to sort out a few build issues; and nail down exactly how to make modules supported.

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Description

We introduced the "modules/unsupported" directory in an effort to help prevent the development community working on branches; and as an effort to introduce new developers to the GeoTools community. This also allowed us to demote several modules that have been with out a maintainer (so it is obvious to the user community what is going on).

This proposal would like to refine how we are handling unsupported modules:

- The creation of a single page in the developers guide outlining all the requirements from creation through supporting a module (right now this content is split across several pages). We should clarify how a module can drop back to unsupported status and so forth.
- Modify the unsupported/pom.xml so that profiles are available grouping like functionality; using a single environmental -Dall to turn on all functions
- Deployment of all modules to maven (including those in unsupported)
- Continuous testing of all modules (including those in unsupported)
- Restrict unsupported modules from the default download

The goals here are several fold:

- Ensure that everything we (ie the PMC) make available for download has passed the Project QA checks and meets the requirements of our Developers Guide
- Continue to foster new development
- Ensure that GeoTools always builds in a reasonable amount of time

Status

We would like to close up this issue in a timely fashion for the 2.5.0 release:

- [Andrea Aime](#) +1
- [Ian Turton](#)
- [Justin Deoliveira](#) +1
- [Jody Garnett](#) +1
- [Martin Desruisseaux](#)
- [Simone Giannecchini](#)


Discussion

- <http://docs.codehaus.org/display/GEOTOOLS/2008/08/18/>
- <http://docs.codehaus.org/display/GEOTOOLS/2008/08/11/>

Tasks

This section is used to make sure your proposal is complete (did you remember documentation?) and has enough paid or volunteer time lined up to be a success

no progress		done		impeded		lack mandate/funds/time		volunteer needed
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1.  API changed based on BEFORE / AFTER patch is waiting to be applied, this is required to make 2.5.0 ready for release
2. (jive) Update the developers guide and ask for review
3. Ask a module to step through the process in order to "debug" the procedure

API Changes

BEFORE

Currently all children of unsupported/pom.xml are included in the build (or they are placed into a profile like "archive" if the code does not compile).

```
<profiles>
  <profile>
    <id>gdal</id>
    <modules>
      <module>imageio-ext-gdal</module>
    </modules>
  </profile>
  <profile>
    <id>pending</id>
    <modules>
      <module>coveragetools</module>
      <module>sql-datastore</module>
      <module>geometryless</module>
      <module>notifying-collections</module>
    </modules>
  </profile>
  <profile>
    <id>archive</id>
    <modules>
      <module>community-schemas</module>
      <module>hsqldb</module>
      <module>geomedia</module>
      <module>ogr</module>
      <module>gml3</module>
      <module>tile</module>
    </modules>
  </profile>
</profiles>
<modules>
  <module>coverageio</module>
  <module>coverageio-netcdf</module>
  <module>coveragetools</module>
  <module>directory</module>
  <module>epsg-oracle</module>
  <module>geometry</module>
  <module>gml</module>
  <module>gpx</module>
  <module>h2</module>
  <module>imagemosaic-jdbc</module>
  <module>jts-wrapper</module>
  <module>mappane</module>
  <module>mif</module>
  <module>mysql</module>
  <module>ogc</module>
  <module>oracle-spatial</module>
  <module>postgis-versioned</module>
  <module>process</module>
  <module>wps</module>
  <module>repository</module>
  <module>temporal</module>
  <module>tiger</module>
  <module>vpf</module>
  <module>widgets-swing-pending</module>
  <module>xml-gpx</module>
</modules>
</project>
```

AFTER

We need to place the majority of unsupported modules into individual profiles; activated with a common -Dall command line setting:

```
...
<profiles>
  <profile>
    <id>fm</id>
    <activation>
      <property>
        <name>all</name>
      </property>
    </activation>
    <modules>
      <module>coveragetools</module>
      <module>sql-datastore</module>
      <module>geometryless</module>
      <module>notifying-collections</module>
    </modules>
  </profile>
  <profile>
    <id>archive</id>
    <modules>
      <module>community-schemas</module>
      <module>hsql</module>
      <module>geomedia</module>
      <module>ogr</module>
      <module>gml3</module>
      <module>tile</module>
    </modules>
  </profile>

  <profile>
    <id>geometry</id>
    <activation>
      <property><name>all</name></property>
    </activation>
    <modules>
      <module>geometry</module>
      <module>jts-wrapper</module>
    </modules>
  </profile>

  <profile>
    <id>database</id>
    <activation>
      <property><name>all</name></property>
    </activation>
    <modules>
      <module>h2</module>
      <module>mysql</module>
      <module>oracle-spatial</module>
      <module>postgis-versioned</module>
    </modules>
  </profile>

  <profile>
```

```
<id>workflow</id>
<activation>
  <property><name>all</name></property>
</activation>
<modules>
  <module>process</module>
  <module>wps</module>
</modules>
</profile>

<profile>
  <id>raster</id>
  <activation>
    <property><name>all</name></property>
  </activation>
  <modules>
    <module>coverageio</module>
    <module>coverageio-netcdf</module>
    <module>coveragetools</module>
    <module>imageio-ext-gdal</module>
    <module>imagemosaic-jdbc</module>
  </modules>
</profile>

<profile>
  <id>unsupported</id>
  <activation>
    <property>
      <name>all</name>
    </property>
  </activation>
  <modules>
    <module>directory</module>
    <module>epsg-oracle</module>
    <module>gml</module>
    <module>gpx</module>
    <module>mappane</module>
    <module>mif</module>
    <module>repository</module>
    <module>temporal</module>
    <module>tiger</module>
    <module>vpf</module>
    <module>widgets-swing-pending</module>
    <module>xml-gpx</module>
  </modules>
</profile>

</profile>
</profiles>
<!-- the ogc module is currently required by our build system -->
<modules>
  <module>ogc</module>
```

```
</modules>  
</project>
```

Documentation Changes

This proposal requires modification to the Developers Guide:

- [5 Project Conventions](#) (We need to make this obvious as requirements)
 - [5.7 Testing](#)
- <http://docs.codehaus.org/display/GEOT/3+Module+Maintainers>
- <http://docs.codehaus.org/display/GEOT/Gold+Star+Quality+Assurance+Check>
- <http://docs.codehaus.org/display/GEOT/Supporting+your+module>