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

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>hsql</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