

FeatureStore modifyFeature by Name

Contact:	full name
Tracker:	http://jira.codehaus.org/browse/GEOT-2376
Tagline:	modifyFeatures(Name,Value,Filter)

This page represents the **current** plan; for discussion please check the tracker link above.

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Description

I have a bug assigned to me, [GEOT-2376](#) covering what appears to be a mistake early on when defining FeatureStore. The modifyFeature methods both take an AttributeDescriptor, rather than a Name.

There are a couple of drawbacks to this:

- it introduced the possibility of error (the user has to look up the exactly correct attribute descriptor).
- It "mixing up "query" api with "metadata" description (a mistake me made earlier when Filter required an AttributeType)
- it is needlessly complicated

To back up this bug a code review of all feature store implementations show that:

- implementors noticed the waste of time and simply use the provided AttributeDescriptor as as String (using descriptor.getLocalName())
- i the case of JDBCDataStore they look up the correct attribute descriptor by Name and silently substitute.

API CHANGE

Before:

```
interface implements FeatureStore<T,F> extends FeatureSource<T,F> {
    ...
    modifyFeature( AttributeDescriptor type, Object value, Filter filter );
    modifyFeature( AttributeDescriptor type[], Object value[], Filter filter );
    ...
}
```

After:

```
interface implements FeatureStore<T,F> extends FeatureSource<T,F> {
    ...
    modifyFeature( Name name, Object value, Filter filter );

    @deprecated
    modifyFeature( AttributeDescriptor type, Object value, Filter filter );

    modifyFeature( Name names[], Object values[], Filter filter );

    @deprecated
    modifyFeature( AttributeDescriptor type[], Object value[], Filter filter );
    ...
}
```

The patch also updates implementations and passes tests when applied against 2.6.x at the time of writing.

Related:

- It would be kind to add SimpleFeatureStore implementations that take a String should that proposal be accepted.

Status

This bug report now needs a proposal as it reflects an api change; the patch is ready.

Proposal accepted; applied to trunk:

- [Andrea Aime](#) +1
- [Ben Caradoc-Davies](#) +1
- [Christian Mueller](#) +1
- [Ian Turton](#) +1
- [Justin Deoliveira](#) +1
- [Jody Garnett](#) +1
- [Michael Bedward](#) +0
- [Simone Giannecchini](#) +0

Tasks

	no progress		done		impeded		lack mandate/funds/time		volunteer needed
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1. Apply patch from <http://jira.codehaus.org/browse/GEOT-2376> to trunk
 - May wish to update SimpleFeatureStore with modifyFeature(String name, Object value, Filter filter) and modifyFeatures(String name[], Object value[], Filter filter)
1. Update example code