

# Date Time handling

**Problem:** Mapping to Java Date is not specific enough

**Solution:** Map to java.sql classes

**Scope:** Update DataStore implementations; SQL DataStores should be easy

Data Input	Property Binding	Data Output
xs:dateTime	java.sql.TimeStamp	xs:dateTime
xs:date	java.sql.Time	xs:date
xs:time	java.sql.Date	xs:time
Data Input	Property Binding	Data Output
	java.util.Date	xs:dateTime
	java.util.Calendar	xs:datetime

As you can see this fix still allows the use of Date and calendar; even though they are too vague to be useful in many situations. This fix simply adds the option of the java.sql classes in order to let people be more specific. java.util.Date and java.util.Calendar are accepted as inputs into the datastores, but when the feature type is datastore generated, a specific java.sql type should be used.

Please note that conversions should be defined between:

- java.util.Date and java.sql.Time, java.sql.Date, java.sql.TimeStamp
- java.util.Calendar and java.sql.Time, java.sql.Date, java.sql.TimeStamp

The use of conversions will let existing client code work with java.util.Date.