

Listening to transaction commit events on session closing

Every session creating and closing starts and commits the model editing transaction. The [com.nomagic.uml2.transaction.TransactionCommitListener](#) is a special listener, which is notified when the all changes inside a transaction are done and the transaction is closed.

The [TransactionCommitListener](#) contains [transactionCommitted\(java.util.Collection<java.beans.PropertyChangeEvent>\)](#) method, which provides a collection of all [java.beans.PropertyChangeEvent\(s\)](#) that were executed in a transaction.

Related pages

- [Session management](#)

Create a custom transaction commit listener:

```
public class MyTransactionListener implements TransactionCommitListener
{
    public Runnable transactionCommitted(final
    Collection<PropertyChangeEvent> events)
    {
        return new Runnable()
        {
            public void run()
            {
                for (PropertyChangeEvent event : events)
                {
                    if (UML2MetamodelConstants.INSTANCE_CREATED.equals
(event.getPropertyName()))
                    {
                        Object source = event.getSource();
                        if (source instanceof Property)
                        {
                            Property property = (Property) source;
                            Element owner = property.getOwner();
                            if (owner instanceof Classifier)
                            {
                                Classifier propertyOwner =
(Classifier) owner;
                                propertyOwner.setName("Contains (" +
propertyOwner.getAttribute().size() + ") attributes");
                            }
                        }

                        // additionally for this Property we
register listener to listen for any property changes in this Element
properties.
                        property.addPropertyChangeListener(new
DerivedValuePropertyChangeListener());
                    }
                }
            }
        };
    }
}
```

This “transaction commit listener” checks, if a new property is created in a classifier and updates the classifier’s (a property owner) name. All changes are done in the same session.

Register the custom “transaction commit listener” into the project

```
    MyTransactionListener transactionListener = new  
MyTransactionListener();  
    TransactionManager transactionManager = project.getRepository().  
getTransactionManager();  
    transactionManager.addTransactionCommitListener(transactionListener);
```