



Change Tracking API

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Change Tracking API

You can use the Change Tracking API to track changes that are made through their module and to record the changes in the database.

The constructor is `ChangeTrackingAPI`.

```
package com.cloupia.feature.foo.scheduledTasks;

import org.apache.log4j.Logger;

import com.cloupia.feature.foo.FooModule;
import com.cloupia.model.cIM.ChangeRecord;
import com.cloupia.service.cIM.inframgr.AbstractScheduleTask;
import com.cloupia.service.cIM.inframgr.FeatureContainer;
import com.cloupia.service.cIM.inframgr.cmdb.ChangeTrackingAPI;

/**
 * This is a simple example demonstrating how to implement a scheduled task. This task is
 * executed
 * every 5 mins and simply makes a logging statement and increments the number of times
 * it's been
 * executed. It removes itself from the system once it has been executed twice. It also
 * demonstrates how you can use the change tracking APIs to track changes made to the system.
 *
 */
public class DummyScheduleTask extends AbstractScheduleTask {

    private static Logger logger = Logger.getLogger(DummyScheduleTask.class);

    private int numTimesExecuted = 0;

    private static final long TWO_MINS = 60*1000*2;
    private static final int MAX_TIMES_EXECUTED = 2;

    public DummyScheduleTask() {
        super("foo");
    }

    @Override
    public void execute(long lastExecution) throws Exception {
        logger.info("vxvxxvxxv - dummyTask has been executed " + numTimesExecuted + " times.");
    }
}
```

```

numTimesExecuted++;

if (numTimesExecuted == MAX_TIMES_EXECUTED) {
    logger.info("vxvxxvxxvxx - Removing dummyTask");
    FooModule module = (FooModule) FeatureContainer.getInstance().getModuleById("foo");
    //NOTE: Use getTaskName() and NOT getScheduleTaskName(), it's really important
    //We distinguish the two: getTaskName is used internally by the system, where we do
    //some extra stuff to ensure uniqueness of the task name (prepend moduleID), so we need
    to
    //make sure to use this when removing tasks!
    module.removeScheduleTask(this.getTaskName());
    //use the static ChangeTrackingAPI to create an instance of ChangeRecord, these are just
    values you'd like have
    //tracked and store in the changes DB
    ChangeRecord rec = ChangeTrackingAPI.create("openAutoDeveloper",
ChangeRecord.CHANGE_TYPE_DELETE, "Dummy Task removed from System",
        "foo dummy task");
    //insert the record like so
    ChangeTrackingAPI.insertRecord(rec);
}
}

@Override
public long getFrequency() {
    return TWO_MINS;
}

@Override
protected String getScheduleTaskName() {
    //usually good idea to name your task something descriptive
    return "dummyTask";
}
}

```

**Tip**

To view the change tracking records (CMDB) from the Cisco UCS Director GUI, choose **Administration > Integration > Change Records**.
