caTissue Test Management Tool Reporting - Operations Manual

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This manual describes how to keep the extensions to the schema up to date as new data is added through the TMT web application.

## Designing reports

Reports have been designed in JasperSoft Studio which is based on Eclipse.

Jasper iReports is older and possibly more stable. iReports is based on NetBeans. It should not make a difference which tool is used.

Attached are the simple Jasper reports I have so far. Some of them used the views I sent earlier. Also a logo used in one of the reports – though I haven't managed to be able to make the server find the image in its classpath or anywhere else I tried.

There are two Guis you can use  to design reports. One is called iReport and is based on NetBeans. The other is called JasperSoft Studio and is based on Eclipse. I've mostly been using the latter  -it's newer and not as well documented, but you can generally work out what is going on.

JasperSoft Studio can also be run as a plugin for Eclipse. That would appear to have the advantage that one could use the Subversion plugins for Eclipse to manage report source code in SVN. I couldn’t find an SVN functionality in the standalone JasperSoft Studio and I haven’t even looked for it in iReport – but it may exist in both places.

## Running reports

To date reports for the most part have been run from within JasperSoft Studio or the JasperStudio plugin for Eclipse. They can also be run from within JasperServer and this has been done in some cases. See the Jasper documentation on how to do so.

## Loading the dump

### Tools required

Pentaho Data Integration (aka Kettle)

MySQL client e.g. command line or DBNavigator

Currently updates are received as a MySQL dmp file

1. Backup previous extended schema (if you have one)

e.g.

mysqldump -u *username* -p tmt\_mydbprod > tmt\_mydbprod\_*yyyymmdd*.dmp

2. Load the MySQL database from the dump using standard MySQL database restore mechanism.

cd tmt-catissue

mysql –u *username* –p tmt\_mydbprod

drop database tmt\_mydbprod

source ~/Downloads/dbp1m1\_mySQL\_tmt\_mydbprod\_20120404\_2305.dmp

source schema/tmt views.sql

source schema/scenario\_views.sql

3. Run the following Kettle transformations

Note that these will need to be edited to specify the correct database connection information for the copy of the TMT database that you will be using. (Someone might want to take on making the scripts independent of this by using connection information held in variables which are then provided at run time (See https://tracker.nci.nih.gov/browse/TMTCATISSUE-23).

Note that currently the scripts are run in the “Spoon” tool which is part of Kettle. This gives a visual UI and access to editing the scripts if there are problems. Once they are close to stable though , and consideration should be given to running them from the command line using the “Pan” tool.

#### process\_dump

process\_dump.kjb will run the following transformations

load org data

update scenario2

#### load\_masters

load masters.kjb will run the following

load testplan\_new

create master\_plan

rerun testplan\_new

Check for new testplans in caTissue\_plan and add them to testplans.xls and assign a new master plan – see Editing master plans

Run exports to generate reports/Excel files

A Kettle job could be created to organize these transformations and run them as a single step. (See https://tracker.nci.nih.gov/browse/TMTCATISSUE-24).

Keep person\_org table up to date so that queries assigning reports to adopters will work correctly.

### Editing master plans

This is driven from the testplans.xls spreadsheet

Edit this sheet to specify the correct master plan for each plan in the database.

Rerun load\_masters.kjb to execute the following transformations

load testplan\_new

create master\_plan

rerun testplan\_new

### Master plan content

This spreadsheet is a useful tool for interactively comparing the content of test plans

Repopulating master plan content

Run the query master to test plans.sql

### Dashboard

A Kettle script called load\_dashboard.ktr can be run to generate data to populate the dashboard spreadsheet. It must currently be run in preview mode and the data copied to the spreadsheet. The Kettle script could be modified to do that directly.

The total number of bugs is obtained from a saved query in Bugzilla. The query may be created as in the following screen dump. The essence of the query is “All caTissue bugs with a creation date from 01-01-2011 to the date of the TMT demp for which the query is being run. The latter date will have to be set manually each week. The start date id somewhat arbitrary – but since the purpose is to look at week by week trends, that does not matter much.

