



Enabling Grids for E-sciencE

# Job submission portlet

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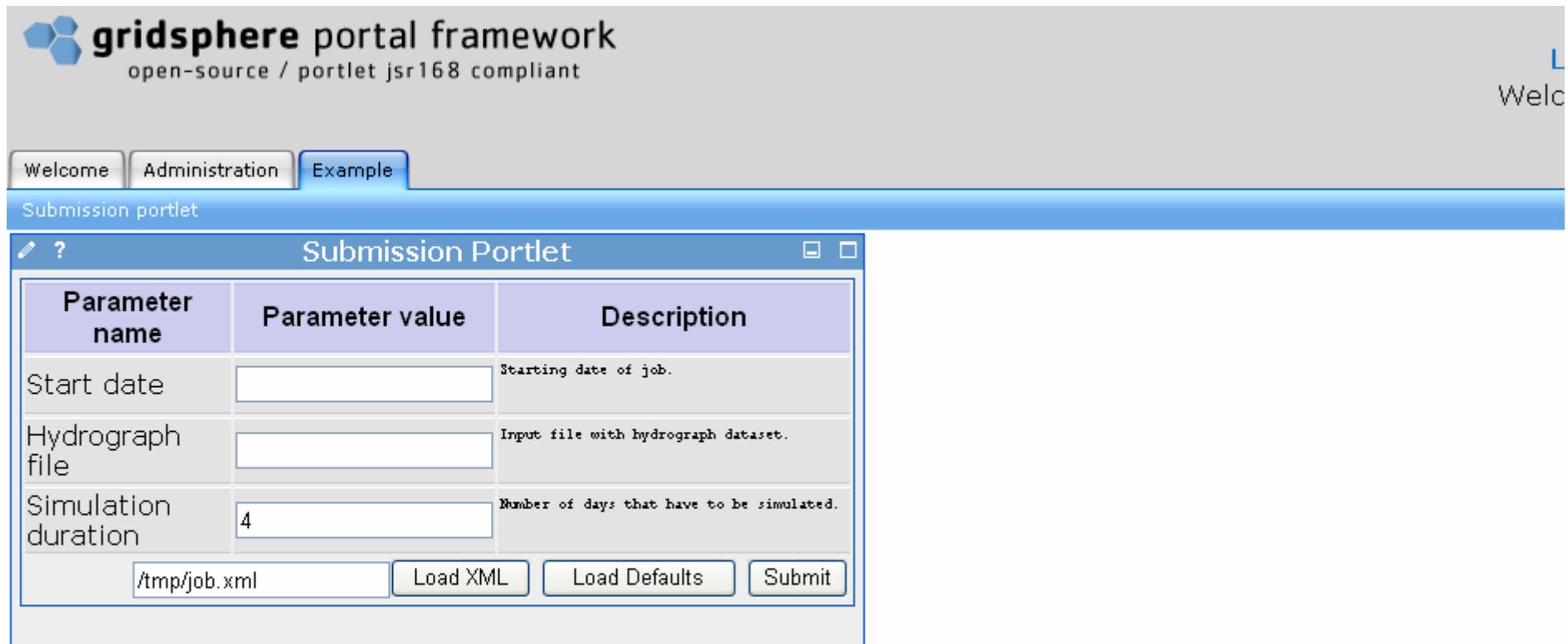


- **Each application may have many parameters**
  - Some parameters are constants and set up by default
  - Some parameters may change in every simulation
- **In portal, only parameters, that need to modify, are displayed**
- **Users may want to add/remove some parameters**

- The parameters are described in an XML file, out of the portlet Java code
- The portlet reads the XML file, and generate the HTML file accordingly

```
<?xml version="1.0"?>

<parameter-list>
    <parameter type="string">
        <parameter-name>start_date</parameter-name>
        <display-name>Start date</display-name>
        <description>Starting date of job.</description>
    </parameter>
    <parameter type="string">
        <parameter-name>hydrograph_file</parameter-name>
        <display-name>Hydrograph file</display-name>
        <description>Input file with hydrograph
dataset.</description>
    </parameter>
    <parameter type="number">
        <parameter-name>duration_days</parameter-name>
        <display-name>Simulation duration</display-name>
        <description>Number of days that have to be
simulated.</description>
        <default-value>4</default-value>
    </parameter>
</parameter-list>
```



The screenshot shows a web interface for the gridsphere portal framework. At the top, there is a header with the gridsphere logo and the text "gridsphere portal framework open-source / portlet jsr168 compliant". Below the header, a navigation bar has tabs for "Welcome", "Administration", and "Example", with "Example" being the active tab. A sub-header "Submission portlet" is displayed. The main content area is titled "Submission Portlet" and contains a table for parameter input. The table has three columns: "Parameter name", "Parameter value", and "Description". It includes rows for "Start date", "Hydrograph file", and "Simulation duration". The "Simulation duration" row has a value of "4" entered. At the bottom of the form are buttons for "/tmp/job.xml", "Load XML", "Load Defaults", and "Submit".

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- **Users can upload new XML files and change the set of parameters in portal**
- **Portlet developers are free from details of applications**