

Feature Spec – Configure “Max rows to fetch from data source”

Design Specification

Draft 2: Oct 27, 2006

Abstract

This is the design specification of the BIRT Data Set “limit max number of rows fetching from data source” feature.

Document Revisions

Version	Date	Description of Changes
Draft 1	Oct 26, 2006	First draft
Draft 2	Oct 27, 2006	Second draft

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1. Introduction

As BIRT evolves, a new requirement is emerged, which request the max number of rows fetching from data source by a data set to be configurable. This document describes a design to implement this feature.

2. API Changes

2.1 Data Engine API Changes

To support the feature, the current Data Engine API must be extended to meet the new requirement. Especially, two methods will be added to **org.eclipse.birt.data.engine.api.IBaseDataSetDesign** class:

```
/**
 * Set up the max number of rows that the data set represent by this
 * IBaseDataSetDesign instance can fetch from data source. If the input
 * number is non-positive then unlimited number of rows will be fetched.
 *
 * @param max
 */
public void setRowFetchLimit( int max );

/**
 * Return the max number of rows that the data set represent by this
 * IBaseDataSetDesign instance can fetch from data source.
 * @return
 */
public int getRowFetchLimit( );
```

2.2 Model API Changes

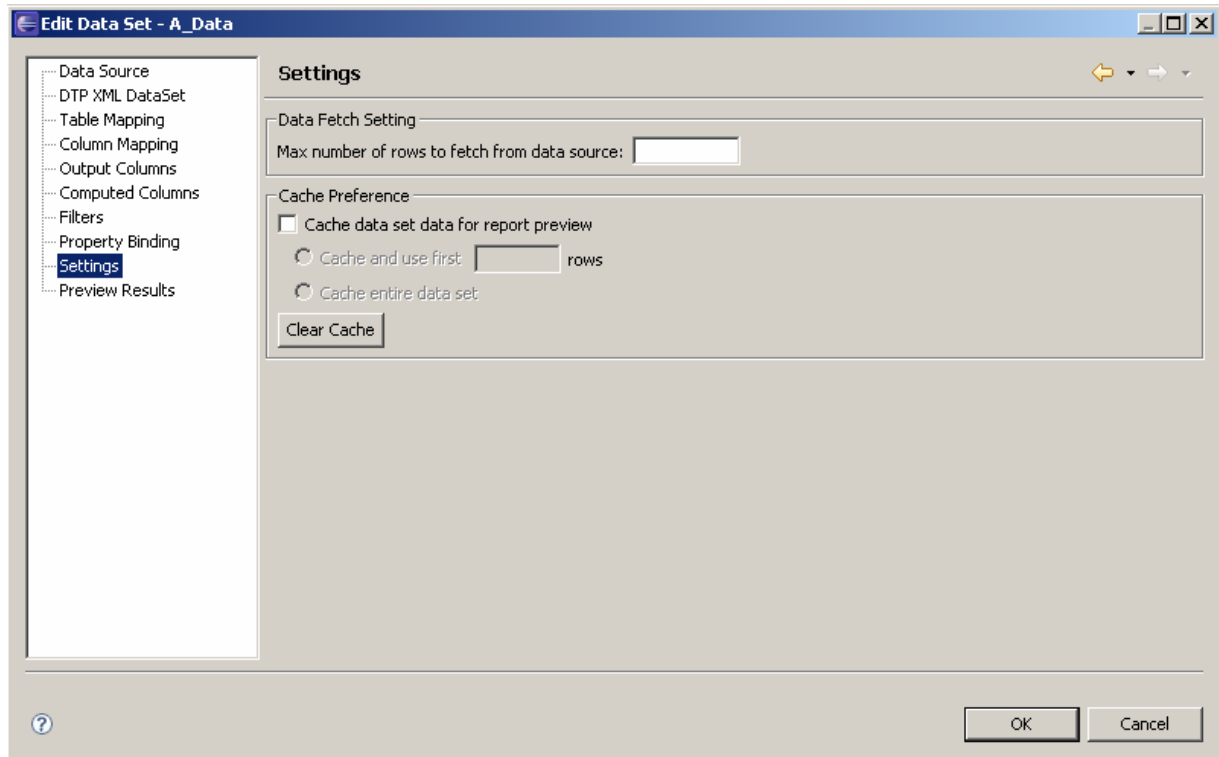
Model API should also be changed for the new feature. Just as its counterpart in Data Engine, class **org.eclipse.birt.report.model.api.DataSetHandle** will also add two new methods:

```
/**
 * Sets the max number of rows from data source
 * property value.
 *
 */
public void setRowFetchLimit( int count );

/**
 * Returns the max number of rows from data source
 * property value.
 *
 * @return the max number of rows that can be fetched from data source.
 */
public int getRowFetchLimit( );
```

3. UI Mockup

Users can configure the maximum number of rows their data set can fetch from data source in Data Set Editor. A new page, which is called “Setting” page, will be added to Data Set Editor. And the original “Cache Preference” page will be merged to new page. The UI mockup is followed:



4. Special Concerns

Please note that for a joint data set, this new feature will apply in two different ways:

1. The “max number of rows fetching from data source” setting in two parent data sets of a joint data set will still take effect during the population of a joint data set.
2. The “max number of rows fetching from data source” setting of a joint data set itself will function as well.