Change Control Document for BIRT Model API Improvements

1. Introduction

BIRT has the new feature to link data set parameters and result set columns with ODA defined objects. For this change, ODA dataset in BIRT Model plug-in is required to improve.

This change improves the design file version. The old design file will be converted automatically.

2. Changed APIs:

2.1 Name = DataSetParameterHandle.dataType

Package name = org.eclipse.birt.report.model.api

Change Request:

The choice type of dataType is changed from columnDataType to paramType. Codes automatically provide parsing and API backward compatibility.

Proposed Solution:

Model parser provided backward compatibility. The dataType in columnDataType choices will automatically be changed to paramType choices.

DataSetParameterHandle.getDataType() would read values in PARAM_TYPE and return value in CHOICE_COLUMN_DATA_TYPE. setDataType() will still take CHOICE_COLUMN_DATA_TYPE as input values and internally the input value will be translated to PARAM_TYPE. Hence, getDataType()/setDataType() has the same behavior like before.

New getParameterDataType() method would return values in CHOICE_PARAM_TYPE. setParameterDataType() will take CHOICE_PARAM_TYPE as input values. It is strong recommended that the user migrate to new methods.

However, without changing anything, all APIs work like before.

For above changes, add "Boolean" type to CHOICE_COLUMN_DATA_TYPE. Added "Any" type to CHOICE_CHOICE_PARAM_TYPE. So that, CHOICE_COLUMN_DATA_TYPE and PARAM_TYPE can have same choice values. See MISC change for details.

3. Added APIs:

3.1 Name = DataSetParameterHandle
Package name = org.eclipse.birt.report.model.api

Change Request:

Added getParameterDataType()/setParameterDataType(). These methods would take choices in CHOICE_PARAM_TYPE as input/return values.

Proposed Solution:

Look through DataSetParameterHandle and uses the new methods.

3.2 Name = OdaDataSetParameterHandle
Package name = org.eclipse.birt.report.model.api

Change Request:

Added get/set methods for nativeName and paramName. These are new properties defined on ODA data set parameters.

Proposed Solution:

Look through OdaDataSetParameterHandle and uses the new methods.

3.3 Name = OdaResultSetColumnHandle

Package name = org.eclipse.birt.report.model.api

Change Request:

Added get/set methods for nativeName. These are new properties defined on ODA result set columns.

Proposed Solution:

Look through OdaResultSetColumnHandle and uses the new methods.

3.4 Name = OdaDataSetHandle.designerValues

Package name = org.eclipse.birt.report.model.api

Change Request:

designerValues property is added to serialize ODA defined parameters and result set columns. Currently, only Model ODA adapter uses this property directly.

Proposed Solution:

Look through OdaDataSetHandle and uses the new methods.

4. Removed APIs:

N/A

5. Miscellaneous Change Requests

5.1 Name = CHOICE_PARAM_TYPE

Package name = org.eclipse.birt.report.model.element

Change Request:

Added "any" value to this choice set in ROM. Make it compatible with CHOICE_COLUMN_DATA_TYPE.

Proposed Solution:

Same as request.

5.2   Name = CHOICE_COLUMN_DATA_TYPE

Package name = org.eclipse.birt.report.model.element

Change Request:

Added "boolean" value to this choice set in ROM. Make it compatible with CHOICE_PARAM_TYPE.

Proposed Solution:

Same as request.