

# Change Control Document for BIRT Model API Improvements

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## 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. These two choice sets have different choices.

#### Proposed Solution:

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

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However, if any caller uses `DesignChoiceConstants.CHOICE_COLUMN_DATA_TYPE` for data set parameters, need to change to `DesignChoiceConstants.CHOICE_PARAM_TYPE`.

## **2.2 Name = `DataSetParameterHandle.nativeDataType`**

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

### **Change Request:**

`nativeTypeCode` has been moved to the new structure `OdaDataSetParameterHandle`.

### **Proposed Solution:**

Methods are kept. However, `get` method returns null and `set` method does nothing. If the caller concerns `nativeDataType`, please use `OdaDataSetParameterHandle`.

## **2.3 Name = `ResultSetColumnHandle.nativeDataType`**

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

### **Change Request:**

`nativeTypeCode` has been moved to the new structure `OdaResultSetColumnHandle`.

### **Proposed Solution:**

Methods are kept. However, `get` method returns null and `set` method does nothing. If the caller concerns `nativeDataType`, please use `OdaResultSetColumnHandle`.

## **2.4 Name = `OdaDataSetHandle.resultSetHints`**

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

### **Change Request:**

The old `OdaDataSet.resultSetHints` and `resultSet` will be merged into the new `resultSet`. Each item is an `OdaResultSetColumnHandle`.

### **Proposed Solution:**

`resultSetHintsIterator()` is deprecated. Now, it returns `OdaDataSet.resultSet` property. It is strongly recommended to replace this method with `resultSetIterator()` method.

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## 2.5 Name = ScriptDataSetHandle.resultSetHints

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

### Change Request:

The old `ScriptDataSetHandle.resultSet` is deprecated.

### Proposed Solution:

`resultSetIterator( )` is deprecated. Now, it returns `ScriptDataSetHandle.resultSetHints` property. It is strongly recommended to replace this method with `resultSetHintsIterator()` method.

## 3. Added APIs:

### 3.1 Name = OdaDataSetParameterHandle

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

### Change Request:

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

### Proposed Solution:

Look through `OdaDataSetParameterHandle` and use the new methods.

### 3.2 Name = OdaResultSetColumnHandle

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

### Change Request:

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

### Proposed Solution:

Look through `OdaResultSetColumnHandle` and use the new methods.

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### 3.3 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

N/A