

BIRT API Change Control Document

BIRT API Change Control Document	1
1. Introduction	1
2. Changed APIs:.....	1
3. Added APIs:	1
4. Removed APIs:.....	5
5. Miscellaneous Change Requests	5

1. Introduction

Add new script code `IActionInstance` and `IDrillThroughInstance` which can be used to control the hyperlink property of data item, image and label.

2. Changed APIs:

None.

3. Added APIs:

3.1 Name : `IDataItemInstance`

Component name : `org.eclipse.birt.report.engine`

Package name : `org.eclipse.birt.report.engine.api.script.instance`

Change Request:

1. Add method:

`IActionInstance createAction ()`

Create a new `IActionInstance`, which can be bookmark, hyperlink or drillThrough. The default action instance type is `NULL`.

2. Add method:

`IActionInstance getAction ()`

Get the current `IActionInstance` of the data item. If there is no action instance, but it has an action, create an `IActionInstance` using the action property and return it.

3. Add method:

`void setAction (IActionInstance actionInstance)`

Set the `IActionInstance` to the data item. The user can set a `NULL` action instance to the content.

3.2 Name : IImageInstance

Component name : org.eclipse.birt.report.engine

Package name : org.eclipse.birt.report.engine.api.script.instance

Change Request:

1. Add method:

IActionInstance createAction ()

Create a new IActionInstance, witch can be bookmark, hyperlink or drillThrough. The default action instance type is NULL.

2. Add method:

IActionInstance getAction ()

Get the current IActionInstance of the image. If there is no action instance, but it has an action, create an IActionInstance using the action property and return it.

3. Add method:

void setAction (IActionInstance actionInstance)

Set the IActionInstance to the image. The user can set a NULL action instance to the content.

3.3 Name : ILabelInstance

Component name : org.eclipse.birt.report.engine

Package name : org.eclipse.birt.report.engine.api.script.instance

Change Request:

1. Add method:

IActionInstance createAction ()

Create a new IActionInstance, witch can be bookmark, hyperlink or drillThrough. The default action instance type is NULL.

2. Add method:

IActionInstance getAction ()

Get the current IActionInstance of the label. If there is no action instance, but it has an action, create an IActionInstance using the action property and return it.

3. Add method:

void setAction (IActionInstance actionInstance)

Set the IActionInstance to the label. The user can set a NULL action instance to the content.

3.4 Name : IActionInstance

Component name : org.eclipse.birt.report.engine

Package name : org.eclipse.birt.report.engine.api.script.instance

Change Request:

1. Add method:

Int getType()

Return the action type of this IActionInstance. Which can be one of the following:

```
org.eclipse.birt.report.engine.content.IHyperlinkAction.ACTION_HYPERLINK  
org.eclipse.birt.report.engine.content.IHyperlinkAction.ACTION_BOOKMARK  
org.eclipse.birt.report.engine.content.IHyperlinkAction.ACTION_DRILLTHROUGH  
ACTION_NULL: -1
```

2. Add method:

String getBookmark()

Return the bookmark of this IActionInstance if the action type is ACTION_BOOKMARK, Otherwise, throw RuntimeException that action type is not bookmark.

3. Add method:

void setBookmark(String bookmark)

Set the bookmark to the IActionInstance, and also set the action type to be ACTION_BOOKMARK. If the bookmark is null, throw IllegalArgumentException that the bookmark can not be set to null.

4. Add method:

String getHyperlink()

Return the hyperlink of this IActionInstance if the action type is ACTION_HYPERLINK, Otherwise, throw RuntimeException that action type is not hyperlink.

5. Add method:

void setHyperlink(String hyperlink, String target)

Set the hyperlink and target window to the IActionInstance, and also set the action type to be ACTION_HYPERLINK.

If the hyperlink is null, throw IllegalArgumentException that the hyperlink can not be set to null.

6. Add method:

String getTargetWindow()

Return the target window of this IActionInstance if the action type is ACTION_HYPERLINK. Or ACTION_DRILLTHROUGH.

7. Add method:

IDrillThroughInstance createDrillThrough (String bookmark, boolean isBookmark, String reportName, Map parameterBindings, Map searchCriteria, String target, String format)

Create a new IDrillThroughInstance.

8. Add method:

IDrillThroughInstance createDrillThrough()

Create an empty IDrillThroughInstance. The parameters can be set by calling set functions of IDrillThroughInstance.

9. Add method:

IDrillThroughInstance getDrillThrough ()

Get the drillThrough instance of the IActionInstance if the action type is ACTION_HYPERLINK, Otherwise, throw RuntimeException that action type is not drillThrough.

10. Add method:

void setDrillThrough (IDrillThroughInstance drillThroughInstance)

Set the drillThrough instance to the IActionInstance, and also set the action type to be ACTION_ HYPERLINK.

If the drillThroughInstance is null, throw IllegalArgumentException that the hyperlink drillThroughInstance not be set to null.

3.5 Name : IDrillThroughInstance

Component name : org.eclipse.birt.report.engine

Package name : org.eclipse.birt.report.engine.api.script.instance

Change Request:

1. Add method:

String getReportName()

Get the report name of drillThrough.

2. Add mehod:

void setReportName(String reportName)

Set the report name to the drillThrough.

3. Add mehod:

Map getParameterBindings()

Get the set of name/value pairs for running the report in the drillThrough link.

4. Add mehod:

void setParameterBindings(Map parameterBindings)

Set the set of name/value pairs for running the report in the drillThrough link.

5. Add mehod:

Map getSearchCriteria ()

Get the a set of name/value pairs for searching the report in the drillThrough link.

6. Add mehod:

void setSearchCriteria (Map searchCriteria)

Set the a set of name/value pairs for searching the report in the drillThrough link.

7. Add mehod:

String getFormat()

Get the format of the output report.

8. Add mehod:

void setFormat(String format)

set the format of the output report.

9. Add mehod:

boolean isBookmark()

Get the bookmark type of this drillThrough link. True, the input bookmark is bookmark. False, the input bookmark is TOC.

10. Add mehod:

```
void setBookmark( String bookmark )
```

Set the bookmark. And set the bookmark type be true.

11. Add mehod:

```
String getBookmark( )
```

Get the bookmark if the bookmark type is true, means bookmark. Otherwise, return null.

12. Add mehod:

```
void setTOC( String toc )
```

Set the TOC. And set the bookmark type be false.

13. Add mehod:

```
String getTOC( )
```

Get the TOC if the bookmark type is false, means TOC. Otherwise, return null.

14. Add mehod:

```
String getTargetWindow ( )
```

Get the target window.

15. Add mehod:

```
void setTargetWindow ( Stiring target )
```

set the target window.

Proposed Solution:

According resolving **bug156481**.

Expose the IActionInstance API for script codes. And user can update it in these three report items: date item, label, image. Also expose IDrillThroughInstance to support the IActionInstance while the action type is ACTION_DRILLTHROUGH.

4. Removed APIs:

None

5. Miscellaneous Change Requests

None.