

Report Hyperlinking for crystalreports.com

How to use Report Hyperlinking

Overview

This document contains information on creating a link to open documents, such as Crystal Reports and viewing them in a specific context. Parameters are created in the report, which act as selection formula. When you specify parameters as part of the viewing URL the parameters are passed into the report.

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Introduction

This document lists the parameters that are available to use Report Hyperlinking, as well as how to use them. It also explains some best practices.

URL syntax

The typical URL syntax is as follows:

```
https://na.crystalreports.com/opendoc/openDocument.do
```

IMPORTANT

For the remainder of this document, the term "openDocument.do" is used in place of the complete URL path.

OpenDocument parameters

Platform parameters

There are two options to reference a resource:

- Platform resource identifiers
- Platform resource names (name can be a concatenation of resource name and folder path to remove ambiguity)

The choice is dependent on your deployment; however, resource names are less robust to change when generating URLs programmatically.

Table 1: Platform parameters

Parameter Name	Description	Mandatory	Example
iDocID	Document identifier	Yes	Document identifier (InfoObjectID)
Code samples			
openDocument.do?iDocID=342			
sType	The file type of the target document or report	Yes, but ignored for agnostic documents (xls, doc, txt, etc.)	• rpt
Code samples			

```
openDocument.do?iDocID=343& sType=rpt
```

Input parameters

Table 2 provides information on how to open a multi-report document.

Table 2: Input Parameters

Parameter Name	Description	Mandatory	Example
sReportName	Indicates which report to open if target document contains multi-report (the active report is opened by default)	No	Sub-report name for Crystal Report.
Code sample			
<pre>openDocument.do?iDocID=342&sType=rpt& sReportName=Report2</pre>			
sReportPart	Indicates which specific part of the target Crystal report to open	No	Name of the report part
sPartContext	In Crystal reports, a report part is associated to a data context.	Yes, if a value is specified for sReportPart	Data context of the report part
sReportMode	For Crystal report targets only, indicates whether the link should open the full target report or just the report part specified in sReportPart	No, default is Full (only applies if a value is specified for sReportPart)	<ul style="list-style-type: none"> • Full • Part
Code samples			
<p>Note: The Crystal Reports Online Help contains detailed information about Report Parts. To access the help, click F1 in Crystal Reports and search the Index for the phrase "Report Parts."</p> <pre>openDocument.do?iDocID=342&sType=rpt& sReportPart=Text2;Graph1&sPartContext=/ openDocument.do?iDocID=342&sType=rpt& sReportPart=Text31;Graph5& sPartContext=/Country[England]&sReportMode=Part</pre>			

sRefresh	<ul style="list-style-type: none"> Indicates whether a refresh should be forced when the target document or report is opened For Crystal reports, use the report object instead of the instances to connect to the database (on demand viewing) 	No	<ul style="list-style-type: none"> Y (refresh the document) N (note that the refresh on open feature overrides this value)
<p>Code sample</p> <pre>openDocument.do?iDocID=342&sType=rpt&sRefresh=Y</pre>			
lsS[NAME]	<ul style="list-style-type: none"> Specifies a value for a single prompt [NAME] is the text of the prompt 	No	A single prompt value
<p>Code samples</p> <pre>openDocument.do?iDocID=342& sType=rpt&sRefresh=Y&lsSProductName=Cycle</pre> <p>The following sample uses many Crystal report parameter types:</p> <pre>openDocument.do?sType=rpt&iDocID=858&sRefresh=Y& lsSparamString=h&lsSparamNumber=1& lsSparamCurrency=121&lsSparamDate=Date(2003,6,11) & lsSparamDateTime=DateTime(2003,6,11,14,38,37) & lsSparamBoolean=false&lsSparamTime=Time(12,39,2) & lsSparamStringDR=a&lsSparamDateDR=Date(2003,6,1)</pre>			

lsM[NAME]	<ul style="list-style-type: none"> • Specifies multiple values for a prompt • [NAME] is the text of the prompt 	No	Multiple prompt values separated by square brackets
<p>Code samples</p> <pre>openDocument.do?iDocID=345& sType=rpt&sRefresh=Y&lsMProductName=[Cycle];[Car]</pre> <pre>openDocument.do?sType=rpt&iDocID=859&sRefresh=Y& lsMparamStringDR=[c],[d]&lsMparamNumberDR=[3],[4]& lsMparamDateDR=[Date(2003,6,3)],[Date(2003,6,4)]& lsMparamDateTimeDR=[DateTime(2003,6,1,3,1,1)], [DateTime(2003,6,1,4,1,1)]</pre>			
lsR[NAME]	Specifies a range of values for a prompt. [NAME] is the text of the prompt.	No	<ul style="list-style-type: none"> • A range of values for the prompt, separated by a double period (..) • If the target is a Crystal report, the range must be enclosed in square brackets and/or parentheses (use a square bracket next to a value to include it in the range, and parentheses to exclude it)

			<ul style="list-style-type: none"> • If the target is a OLAP report, use the MDX WITH clause
<p>Code samples</p> <pre> openDocument.do?iDocID=345& sType=rpt&sRefresh=Y&lsMProductName=Cycle,Car openDocument.do?sType=rpt&iDocID=860& lsRparamStringDR=[h..i]&lsRparamNumberDR=[7..8]& lsRparamCurrencyDR=[3..4]& lsRparamDateDR=[Date(2003,6,7)..Date(2003,6,8)]& lsRparamDateTimeDR=[DateTime(2003,6,1,7,1,1)..DateTim e(2003,6,1,8,1,1)]& lsRparamTimeDR=[Time(1,1,7)..Time(1,1,8)]& lsRparamUnbound1=(..6)&lsRparamUnbound2=[6..]& lsRparamStringR=[a..d]&lsRparamNumberR=[1..3]& lsRparamCurrencyR=[1..3]& lsRparamDateR=[Date(2003,6,1)..Date(2003,6,3)]& lsRparamDateTimeR=[DateTime(2003,6,1,1,1,1)..DateTim e(2003,6,1,3,1,1)]& lsRparamTimeR=[Time(1,1,1)..Time(3,1,1)] </pre>			
sInstance	Indicates which specific instance of the target report to open	No	<ul style="list-style-type: none"> • User (Link to latest instance owned by current user) • Last (Link to latest instance for report) • Param (Link to latest instance of report with matching parameter values)

Output parameters

Table 3 lists the only supported output parameter.

Table 3: Output parameters

Parameter Name	Description	Mandatory	Example
sWindow	Indicates whether the target report will open in the current browser instance or launch a new one	No	<ul style="list-style-type: none"> • Same • New

Single sign on parameters

If the URL with parameters is entered in a browser that has not yet established a CRDC session, the user is prompted to log in to CRDC; however, if the URL with parameters is launched within the Salesforce.com (SFDC) portal, the viewer should not prompt for log in to CRDC or SFDC.

For single sign on (SSO) from SFDC or NSite you must append the URL with the following parameters. Note that not all parameters are not applicable to every situation:

Table 4: Output parameters

Parameter Name	Description	Mandatory	Example
portal	Name of the portal you want to sign on from.	Yes	<ul style="list-style-type: none"> • sforce (for SFDC) • nsite (for NSite)
server_url	server_url is a portal web service URL. It is used by CRDC to identify the SSO client, communicate and exchange data with the portal.	Yes	

session_id	Session id which can be used to log in to the portal through the server_url from CRDC.	Yes	
server_url_for_db_driver	server_url_for_db_driver is a portal web service URL consumed by the CRDC SFDC-database driver to read/write data from/to the portal. Theoretically, it is the same as server_url. Due to possible portal web service version issues, CRDC and DB driver may consume a different web service URL to consume the portal web service. In this case, the two URLs may be different.	Yes for SFDC N/A for NSite	
cookie	Some portal web services (e.g., NSite) require cookies as additional credentials of session_id. In this case, cookie is used as a login credential together with session_id.	N/A for SFDC Yes for NSite	
Code samples			

```
portal=sforce&server_url={!API.Partner_Server_URL_70}&
session_id={!API.Session_ID}&
server_url_for_db_driver={!API.Partner_Server_URL_70}

portal=nsite&session_id={!API.SESSION_ID}&
server_url={!API.SERVER_URL}&cookie={!API.COOKIE}
```

Known Issues

This section contains information about or known issues encountered when using limitations of using Report Hyperlinking.

Reports with saved data

It is recommended that you do not use the `lsS`, `lsM`, `lsR`, etc. parameters to access a report with saved data.

If you do use these parameters to access a report with saved data, and **Prompt for Parameters on Refresh** has been checked, the parameters are not set into the report until you click **Refresh** on the viewer toolbar.

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