



PUBLIC

SAP BusinessObjects Business Intelligence platform

Document Version: 4.3 Support Package 4 – 2023-12-07

Viewing Documents Using OpenDocument

Content

- 1 Document History. 4**
- 2 Getting started. 5**
 - 2.1 About this documentation. 5
 - 2.2 Who should use this documentation?. 5
 - 2.3 About OpenDocument. 5
- 3 OpenDocument syntax. 7**
 - 3.1 Basic URL syntax. 7
 - 3.2 URL syntax considerations. 7
 - 3.3 Notifications. 9
- 4 Viewing a content object through an OpenDocument link. 10**
- 5 Session management. 11**
 - 5.1 Serialized sessions. 11
 - 5.2 Logon tokens. 12
 - 5.3 User sessions 13
- 6 Parameter reference. 14**
 - 6.1 Session management parameters. 15
 - serSes 15
 - token 16
 - 6.2 Document identifier parameters. 18
 - iDocID 18
 - sDocName 18
 - sIDType 19
 - sInstance 20
 - 6.3 Input parameters. 20
 - lsC[NAME] - context variables. 20
 - lsI[NAME] - index. 21
 - lsM[NAME] - multiple value variables. 22
 - lsR[NAME] - range prompts. 23
 - lsS[NAME] - single prompt. 24
 - sRefresh 24
 - sReportName. 25
 - 6.4 Output parameters. 25
 - NAII. 25

	sOutputFormat.	27
	noDocument.	27
6.5	Product specific parameters or usage.	28
	Analysis, edition for OLAP.	28
	Crystal Reports.	34
	Web Intelligence.	40
	Design Studio.	48
	eView and Information Spaces.	48

1 Document History

The following table provides an overview of the most important document changes.

Version	Date	Description
SAP BusinessObjects Business Intelligence Platform 4.3 SP4	December 2023	New Web Intelligence parameter to pass cp[NAME]- Custom property value [page 47] .
SAP BusinessObjects Business Intelligence Platform 4.3 SP2	December 2021	Updated the sOutputFormat [page 37] Crystal Reports specific parameter in the parameter reference, under <i>Product specific parameters or usage > Crystal Reports</i> section.
SAP BusinessObjects Business Intelligence Platform 4.3 SP1	December 2020	Updated the NAII [page 25] Web Intelligence specific parameter in the parameter reference, under the <i>Product specific parameters or usage > Web Intelligence</i> section.
SAP BusinessObjects Business Intelligence Platform 4.3	June 2020	Updated the Web Intelligence specific parameters in the parameter reference, under the <i>Product specific parameters or usage > Web Intelligence</i> section.

2 Getting started

2.1 About this documentation

This documentation provides you with information for constructing parameterized URLs with the OpenDocument syntax. OpenDocument URLs link to Business Intelligence (BI) documents in an SAP BusinessObjects Business Intelligence platform system. A parameter reference, including syntax and usage examples, is provided for each OpenDocument URL parameter.

For information about deploying the OpenDocument web application after the installation of the BI platform, see the *SAP BusinessObjects Business Intelligence platform Web Application Deployment Guide*.

2.2 Who should use this documentation?

This documentation is for anyone creating URLs to BI documents with the OpenDocument syntax. We recommend consulting this guide if you are:

- Providing end users with hyperlinks to a document through email or other direct means.
- Embedding hyperlinks in one document to another.
- Programmatically generating hyperlinks to documents in your custom application.

Familiarity with the management and organization of objects in your BI platform deployment is beneficial.

2.3 About OpenDocument

OpenDocument is one of many deployed web applications within a BI platform installation. It processes incoming URL requests for documents and any other viewable object type in the Central Management Server (CMS), and delivers the correct document to the end user in the appropriate viewer. This allows you to send users direct links to a document and avoid having them navigate through a folder hierarchy, such as in BI launch pad. The OpenDocument syntax and its parameters allow you to construct URLs that link to these documents. For example, consider the following URL:

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?  
iDocID=Aa6GrrM79cRAmaOSMGoadKI&SIDType=CUID
```

Note

Replace `<servername>:<port>` with the name and port number of your web server where OpenDocument is deployed.

This URL accesses the object in the CMS with the CUID value of `Aa6Gr1M79cRAmaOSMGoadKI`. If this is a Crystal report, for example, then the report is rendered to the user in a default SAP Crystal Reports viewer. In this example, `iDocID` is one of many URL parameters. These parameters specify how to access a particular document in the CMS, or determine how to display the document to the user.

You can link to many viewable object types with the OpenDocument syntax. Some examples include:

- Crystal reports
- Web Intelligence documents
- Analysis workspaces
- BI launch pad workspaces
- Dashboards objects (formerly Xcelsius)

Some of the designers for these BI document types provide GUI-based URL builders to help you embed openDocument URLs into your documents. Consult their respective product documentation for information on these features.

3 OpenDocument syntax

3.1 Basic URL syntax

The basic syntax for an OpenDocument URL is as follows:

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/<platformSpecific>  
?<parameter1>  
&<parameter2>  
&...  
&<parameterN>
```

Replace the <platformSpecific> designation according to your SAP BusinessObjects Enterprise deployment as follows:

- For Java deployments, use `openDocument.jsp`
- For .NET deployments, use `opendocument.aspx`

Note

- Variables are denoted with angle brackets. You must substitute the proper value for these variables.
 - For example, you must use the name of your BI platform server where OpenDocument is hosted in place of <servername>, and you must use the correct port number in place of <port> to access the OpenDocument web application.
- In the existing BI Platform, LogonNoSSO.jsp is used for manual Logon in case if the SSO is configured in `http://<server>:<port>/BOE/OpenDocument/logonNoSso.jsp?<Supported parameters>`.
- You can now directly copy the Opendoc Link from the BI Launch Pad.

3.2 URL syntax considerations

Accessing documents

You must include the `iDocID` or `sDocName` parameter in your OpenDocument URL to specify the document to be viewed. Since there may be multiple documents in the Central Management Server (CMS) with the same name, and documents can be moved or renamed, it is recommended that you use `iDocID` to ensure uniqueness.

Joining parameters

Join parameters with the ampersand (&). Do not place spaces around the ampersand. For example:

```
sType=wid&sDocName=Sales2003
```

The ampersand is always required between parameters.

Spaces and special characters in parameter values

Because some browsers cannot interpret spaces, the parameters of the link cannot contain spaces or other special characters that require URL encoding. To avoid the misinterpretation of special characters, you can define a URL-encoded string in the source database to replace the special character with an escape sequence. This will allow the database to ignore the special character and correctly interpret the parameter value. Note that certain RDBMS have functions that allow you to replace one special character with another.

By creating an escape sequence for the plus sign (+), you can instruct the database to interpret the plus sign as a space. In this case, a document title Sales Report for 2003 would be specified in the DocName parameter as:

```
&sDocName=Sales+Report+for+2003&
```

This syntax prevents the database from misinterpreting the spaces in the title.

In addition, values for serialized sessions (using the `serSes` parameter) and logon tokens (using the `token` parameter) must be URL-encoded by your application before being passed to the OpenDocument URL string.

Trailing spaces in parameter values

Trim trailing spaces at the end of parameter values and prompt names. Do not replace them with a plus sign (+). The viewer may not know whether to interpret the plus sign (+) as part of the prompt name or as a space. For example, if the prompt name displays:

```
Select a City: _
```

(where `_` represents a space), enter the following text in the link:

```
lsSSelect+a+City:=Paris
```

where the spaces within the prompt name are replaced with the plus sign, and the trailing space is trimmed off.

Capitalization

All of the OpenDocument parameters and parameter values are case sensitive.

URL length limit

OpenDocument may add characters to your URL when it redirects to the requested document; however, encoded URLs cannot exceed the maximum character limit for the supported browsers. For example, certain versions of Internet Explorer limit the URL length to 2083 characters. Therefore, know the browser character limit to ensure your URL will be within the maximum limit.

Parameter values in links to sub-reports

You cannot pass parameter values to a sub-report of a target Crystal report.

Opening a new window

To force OpenDocument HTML links to open a new browser window, use the HTML anchor's `target` attribute or an equivalent. For example:

```
<a href="http://<servername>:<port>/BOE/OpenDocument/opendoc/<platformSpecific>?
      iDocID=Aa6GrrM79cRAmaOSMGoadKI
      &sIDType=CUID"
      target="_blank">hyperlink text</a>
```

3.3 Notifications

Administrators can now push the notifications to OpenDocument users and the notifications appear when users open the *OpenDoc Link*. You can dismiss the notifications at once or close them one at a time.

4 Viewing a content object through an OpenDocument link

OpenDocument links provide a direct link to a content object so recipients don't need to navigate folders or categories.

Recipients must have access rights to the document in order to view it through the OpenDocument link.

When a recipient accesses an OpenDocument link in a browser, a logon dialog box does not appear if the BI Launch pad session is active. OpenDocument will consume the existing BI Launch pad session to open the document. If the session is not active, the BI launch pad logon dialog box appears. After the recipient enters valid logon credentials, the document opens.

When the OpenDocument session is about to time out, a *Session Timeout Warning* dialog box appears with a warning message, *Your user session will expire in "N" minute(s). Would you like to continue your user session?.* If the recipient clicks *Continue*, the session will be active for the next "N" minutes, where "N" is the value of session timeout.

When the session times out, a *Session Timeout* dialog box appears with a warning message, *Your session has expired. Close your browser window and restart the application.* To continue viewing the document, the recipient must close the browser window and re-access the OpenDocument link in the browser.

5 Session management

Normally when using an OpenDocument link to access documents secured in the BI platform, the user will be prompted for credentials. OpenDocument provides two parameters to avoid having the user prompted for their username and password information. You can either insert a serialized session or a logon token directly into the OpenDocument URL. This gives you control over the duration of the access to the document. OpenDocument URLs can be set to different languages.

5.1 Serialized sessions

Serialized sessions can be used in OpenDocument by inserting the `serSes` parameter into the OpenDocument URL. This allows users to access files without being prompted for credentials. Creating a serialized sessions does not use up an additional licence. Serialized sessions expire if the original user's session times out or logs off.

Example

The following example uses the BI platform Java SDK to pass in a serialized session to the OpenDocument URL. For more information on the `IEnterpriseSession.getSerializedSession` method, see the *SAP BusinessObjects Business Intelligence platform Java API Reference*.

```
String openDocumentSerSes() throws SDKException, UnsupportedEncodingException
{
    IEnterpriseSession sess = CrystalEnterprise.getSessionMgr().logon
    ( "username",
      "password",
      "<cms>:<port>",
      "secEnterprise");
    String serSession = sess.getSerializedSession();
    String serSesEncode = URLEncoder.encode(serSession, "UTF-8");
    return
        "?iDocID=Aa6GrrM79cRAmaOSMGoadKI
        &sIDType=CUID
        &serSes=" + serSesEncode
    );
}
```

Note

- Replace `<server>:<port>` with the server name and port number of your web server.
- Replace `<cms>:<port>` with the Central Management Server (CMS) name and port number.
- You must URL-encode the serialized session.
- Since an OpenDocument URL with a serialized session contains the user session, they must not be shared for security reasons.

5.2 Logon tokens

Logon tokens can be used in OpenDocument by inserting the `token` parameter into the OpenDocument URL. Logon tokens allow users access to files secured in the BI platform without being prompted for credentials, while also giving you control on the duration of the access to the file. Creating a new logon token uses up an additional licence.

Example: Using the BI platform Java SDK

The following example uses the BI platform Java SDK to pass in a logon token to the OpenDocument URL. For more information on the `ILogonTokenMgr.createLogonToken` method, see the *SAP BusinessObjects Business Intelligence platform Java API Reference*.

```
String openDocumentToken() throws SDKException, UnsupportedEncodingException
{
    IEnterpriseSession sess = CrystalEnterprise.getSessionMgr().logon
    ( "username",
      "password",
      "<cms>:</port>",
      "secEnterprise"
    );
    String token = sess.getLogonTokenMgr().createLogonToken
    ( "",
      120,
      100
    );
    String tokenEncode = URLEncoder.encode
    ( token,
      "UTF-8"
    );
    sess.logoff();
    return
    ( "http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
      ?iDocID=Aa6GrrM79cRAmaOSMGoadKI
      &sIDType=CUID
      &token=" + tokenEncode);
}
```

Note

- Replace `<server>:<port>` with the server name and port number of your web server.
- Replace `<cms>:<port>` with the Central Management Server (CMS) name and port number.
- The `createLogonToken` method allows you to specify the machine that can use the token (which can be empty to allow any user to use the token), the number of minutes the token is valid for, and the number of logons that the token can be used for as parameters. Since the newly created logon token consumes an additional session, `sess.logoff` is called to logoff the original session.
- Since an OpenDocument URL with a logon token contains the user session, they must not be shared for security reasons.

Example: Using the BI platform RESTful Web Services SDK

The following example passes token fetched using the BI platform RESTful Web Services SDK to the OpenDocument URL. For more information see the *SAP BusinessObjects Business Intelligence platform RESTful Web Service Developer guide*.

```
http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=<documentID>
&sIDType=CUID
&token=<logonToken>
```

Note

- A URL-encoded logon token may contain a large number of characters. Some web browsers may limit the number of characters that are allowed in a URL.
- Replace `<server>:<port>` with the server name and port number of your web server.
- Replace `<documentID>` with the ID of the document to retrieve.
- Replace `<logonToken>` with the URL-encoded logon token value retrieved using the BI platform RESTful Web Services.

5.3 User sessions

When OpenDocument is used from BI launch pad or the CMC, it will access the current user session and the user does not need to enter credentials. When a document is viewed using an OpenDocument URL, the user will be prompted for credentials except in the following cases:

- Vintela or Siteminder SSO is configured for the deployed OpenDocument web application.
- The OpenDocument URL uses a `serSes` or a `token` parameter.
- The OpenDocument application has an existing user session for that browser session.

If the existing session is different than the session in the `serSes` or `token` parameter, the existing session will be closed and a new session will be created. That is, you can use `serSes` or `token` parameter to over-ride an existing user session. The OpenDocument application will look for an existing user session in the Web application session and in cookies.

Note

- Only one OpenDocument session can be created from a single browser session.
- The User session is released once the user closes the browser.

If the new `serSes` or `token` parameter is incorrect and there is an existing user session, OpenDocument will attempt to open the document using the current user session. If it can't it will then prompt the user for credentials.

6 Parameter reference

This section provides details about the available OpenDocument parameters, their specific uses, and relevant examples.

Note

The document to which an OpenDocument link points to is referred to as the target document.

Session Management Parameters

Parameter	Description
serSes [page 15]	Specifies a valid serialized Enterprise session.
token [page 16]	Specifies a valid logon token for the current Enterprise session.

Document Identifier Parameters

Parameter	Description
iDocID [page 18]	Specifies the unique identifier of the viewable document in the CMS. Use in conjunction with <code>sIDType</code> .
sDocName [page 18]	Specifies the name of the viewable document in the CMS.
sIDType [page 19]	Specifies the type of object identifier used to specify the viewable document. Use in conjunction with <code>iDocID</code> .
sInstance [page 20]	Specifies the scheduled instance of the target document to open. Use in conjunction with <code>sDocName</code> or <code>iDocID</code> .

Input Parameters

Parameter	Description
IsC[NAME] - context variables [page 20]	Specifies a contextual prompt for Web Intelligence documents if there is an ambiguity during SQL generation.
IsI[NAME] - index [page 21]	Specifies index or key values for a prompt. [NAME] is the text of the prompt.
IsM[NAME] - multiple value variables [page 22]	Specifies multiple values for a prompt. [NAME] is the text of the prompt.
IsR[NAME] - range prompts [page 23]	Specifies a range of values for a prompt. [NAME] is the text of the prompt.
IsS[NAME] - single prompt [page 24]	Specifies a value for a single prompt. [NAME] is the text of the prompt.

Parameter	Description
sPartContext [page 35]	Specifies the data context of a Crystal report part. Use in conjunction with <code>sReportPart</code> .
sRefresh [page 24]	Indicates whether a database refresh should be forced when the target document is opened.
sReportMode [page 36]	Indicates whether the link should open the full target Crystal report or just the report part specified in.
	Specifies the report to open if the target document contains multiple reports.
sReportPart [page 36] (Crystal Report) / sReportPart [page 41] (Web Intelligence)	Specifies the part of the target Crystal or Web Intelligence report to open.
Output Parameters	
Parameter	Description
sOutputFormat [page 37] (Crystal Reports) / sOutputFormat [page 42] (Web Intelligence)	Specifies the format in which to open the target document.
sViewer [page 37] (Crystal Reports) / sViewer [page 42] (Web Intelligence)	Specifies the selected report viewer.

6.1 Session management parameters

6.1.1 `serSes`

Syntax	Description	Values
<code>serSes</code>	Specifies a valid serialized Enterprise session.	A serialized string representing the current Enterprise session.

Contains a serialized session of the current user session. This can be entered into an OpenDocument URL to allow users to access files without being prompted for credentials. Creating a serialized sessions does not use up an additional licence. Serialized sessions expire if the original user's session times out or logs off.

Example

The following example uses the BI platform Java SDK to pass in a serialized session to the OpenDocument URL. For more information on the `IEnterpriseSession.getSerializedSession` method, see the SAP

BusinessObjects Business Intelligence platform Java API Reference. You can retrieve a serialized session in a similar fashion using other Bi platform SDKs such as .NET and Web Services.

```
String openDocumentSerSes() throws SDKException, UnsupportedEncodingException
{
    IEnterpriseSession sess = CrystalEnterprise.getSessionMgr().logon
    ( "username",
      "password",
      "<cms>:<port>",
      "secEnterprise"
    );
    String serSession = sess.getSerializedSession();
    String serSesEncode = URLEncoder.encode
    ( serSession,
      "UTF-8"
    );
    return
    ( "http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
      ?iDocID=Aa6GrrM79cRAmaOSMGoadKI
      &sIDType=CUID
      &serSes=" + serSesEncode
    );
}
```

Note

- Replace **<server>:<port>** with the server name and port number of your web server.
- Replace **<cms>:<port>** with the Central Management Server (CMS) name and port number.
- You must URL-encode the serialized session.
- Since an OpenDocument URL with a serialized session contains the user session, they must not be shared for security reasons.

6.1.2 token

Syntax	Description	Values
token	Specifies a valid logon token for the current Enterprise session.	The logon token for the current Enterprise session.

Contains the logon token for the current user. This can be entered into an OpenDocument URL to allow users to access files without being prompted for credentials. Creating a new logon token uses up an additional licence.

Example: Using the BI platform Java SDK

The following example uses the BI platform Java SDK to pass in a logon token to the OpenDocument URL. For more information on the `ILogonTokenMgr.createLogonToken` method, see the *SAP BusinessObjects Business Intelligence platform Java API Reference*. You can create logon tokens in a similar fashion using other BI platform SDKs such as .NET and Web Services.

```
String openDocumentToken() throws SDKException, UnsupportedEncodingException
```



```

{
    IEnterpriseSession sess = CrystalEnterprise.getSessionMgr().logon
    ( "username",
      "password",
      "<cms>:<port>",
      "secEnterprise"
    );
    String token = sess.getLogonTokenMgr().createLogonToken
    ( "",
      120,
      100
    );
    String tokenEncode = URLEncoder.encode
    ( token,
      "UTF-8"
    );
    return
    ( "http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
      ?iDocID=Aa6GrrM79cRAmaOSMGoadKI
      &SIDType=CUID
      &token=" + tokenEncode
    );
}

```

Note

- Replace `<server>:<port>` with the server name and port number of your web server.
- Replace `<cms>:<port>` with the Central Management Server (CMS) name and port number.
- The `createLogonToken` method allows you to specify the machine that can use the token (which can be empty to allow any user to use the token), the number of minutes the token is valid for, and the number of logons that the token can be used for as parameters.
- Since an OpenDocument URL with a logon token contains the user session, they must not be shared for security reasons.

Example: Using the BI platform RESTful Web Services SDK

The following example passes token fetched using the BI platform RESTful Web Services SDK to the OpenDocument URL. For more information see the *SAP BusinessObjects Business Intelligence platform RESTful Web Service Developer guide*.

```

http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=<documentID>
&SIDType=CUID
&token=<logonToken>

```

Note

- A URL-encoded logon token may contain a large number of characters. Some web browsers may limit the number of characters that are allowed in a URL.
- Replace `<server>:<port>` with the server name and port number of your web server.
- Replace `<documentID>` with the ID of the document to retrieve.
- Replace `<logonToken>` with the URL-encoded logon token value retrieved using the BI platform RESTful Web Services.

6.2 Document identifier parameters

6.2.1 iDocID

Syntax	Description	Values
iDocID	Specifies the unique identifier of the viewable document in the CMS. Use in conjunction with sIDType.	A numerical identifier associated with the document in the CMS.

You must include the `iDocID` or `sDocName` parameter in your `OpenDocument` URL to specify the document to be viewed. Since there may be multiple documents in the CMS with the same name, it is recommended that you use `iDocID` to ensure uniqueness.

You can see identifier values for a document within the Central Management Console (CMC) or BI launch pad applications. The properties page for each document contains the document ID and the CUID. You can also obtain the identifier programmatically using the BI platform SDK. For example, in the Java SDK the `com.crystaldecisions.sdk.occa.infostore.IInfoObject` interface contains `getID` and `getCUID` methods which you can pass to an `OpenDocument` URL.

Note

If you pass in an InfoObject ID rather than a CUID, you do not need to specify the `sIDType` parameter. However, InfoObject IDs are changed when migrating documents from one CMS to another. It is recommended that the CUID be used, which is preserved during migration.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?iDocID=2010
```

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?iDocID=Aa6GrrM79cRAmaOSMGoadKI&sIDType=CUID
```

6.2.2 sDocName

Syntax	Description	Values
sDocName	Specifies the name of the viewable document in the CMS.	The title of the document in the CMS.

You must include the `iDocID` or `sDocName` parameter in your OpenDocument URL to specify the document to be viewed. Since there may be multiple documents in the CMS with the same name, and documents can be moved or renamed, it is recommended that you use `iDocID` to ensure uniqueness.

Note

`sDocName` does not support the use of localized document names. Legacy documents that use `sDocName` to reference the correct document name as stored in the CMS will continue to work. But it is recommended that you use the `iDocID` parameter instead.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?sDocName=Sales+in+2003
```

6.2.3 `sIDType`

Syntax	Description	Values
<code>sIDType</code>	Specifies the type of object identifier used to specify the viewable document. Use in conjunction with <code>iDocID</code> .	<ul style="list-style-type: none">InfoObjectIDParentIDCUID

Note

If you pass in an InfoObject ID as a value to `iDocID` rather than a CUID, you do not need to specify the `sIDType` parameter. However, InfoObject IDs are changed when migrating documents from one CMS to another. It is recommended that the CUID be used, which is preserved during migration.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?iDocID=Aa6GrrM79cRAmaOSMGoadKI&sIDType=CUID
```

6.2.4 sInstance

Syntax	Description	Values
sInstance	Specifies the scheduled instance(created during scheduling) of the target document to open. Use in conjunction with sDocName or iDocID.	<ul style="list-style-type: none">• User (Latest instance owned by current user)• Last (Latest instance of the document)• Param (Latest instance of the document with matching parameter values. Crystal reports and Web Intelligence documents only.)

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?sDocName=Sales+in+2003&sInstance=User
```

6.3 Input parameters

6.3.1 lsc[NAME] - context variables

The lsc parameter specifies the use of different operators when defining context variable values. Semicolons are used to separate different conditions.

Syntax	Description	Values
lsc[NAME]	Specifies a contextual prompt if there is an ambiguity during SQL generation.	A prompt value that resolves the ambiguity in the SQL generation.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?iDocID=Aa6GrrM79cRAmaOSMGoadKI&sIDType=CUID&lsc=Sales
```

6.3.2 `lsI[NAME]` - index

The `lsI` parameter specifies the use of an index or key value.

Syntax	Description	Values
<code>lsI[NAME]</code>	Specifies index or key value. This parameter must be associated with one of the parameters lsS[NAME] - single prompt [page 24] , lsM[NAME] - multiple value variables [page 22] or lsR[NAME] - range prompts [page 23] .	Value can be simple [S], multiple [M] or a range [R] according prompt type [prompt name]=[caption] or, the case of Webi reports [prompt name]=[key/index].

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?sDoc=IndexTest
&sType=wid
&lsMStore=[caption]
&lsIStore=[index]
```

Example

Using eFashion sample Universe passing a value for the "Store name" object which has been modified to be Index Aware as well as the Index Value for the "Store name" object as follows

```
http://localhost:8080/OpenDocument/opendoc/openDocument.jsp
?sDoc=IndexTest
&sType=wid
&lsMStore=e-Fashion New York Magnolia
&lsIStore=2
```

Example

the `lsI` parameter to provide index values such as a keydate. The parameters are passed using the technical name of the variable as set up in the BEx Query Designer. Note that URL encoding is required.

The following example identifies a data connection [2], the variable's technical name `DT_IH`, and the date value 20120715.

```
&lsI[ 2 ]DT_IH=20120715
```

6.3.3 lsM[NAME] - multiple value variables

The lsM parameter allows the use of multiple values and complex prompts in a hierarchy node.

Syntax	Description	Values
lsM[NAME]	Specifies multiple values for a prompt. [NAME] is the text of the prompt.	<ul style="list-style-type: none">Web Intelligence: Use semicolon(;) to separate multiple prompt valuesCrystal Reports: Use comma(,) to separate multiple prompts valuesno_value (only for optional parameters)

Note

You can remove an optional parameter from the prompt by setting it to no_value in the openDocument query string. If you leave an optional parameter out of the openDocument query string, a default parameter value will be applied.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sRefresh=Y
&lsMSelect+Cities=[Paris],[London]
```

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?
iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&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)]
```

Related Information

[lsM\[NAME\] - multiple value variables \[page 34\]](#)

[lsM\[NAME\] - Multiple values answer \[page 45\]](#)

6.3.4 `lsR[NAME]` - range prompts

For SAP BW and SAP HANA prompts, the `lsR` parameter allows a range to be specified.

Syntax	Description	Values
<code>lsR[NAME]</code>	Specifies a range of values for a prompt. <code>[NAME]</code> is the text of the prompt.	<ul style="list-style-type: none">A range of values for the prompt, separated by a double period (<code>..</code>).<code>no_value</code> (only for optional parameters)

Note

You can remove an optional parameter from the prompt by setting it to `no_value` in the openDocument query string. If you leave an optional parameter out of the openDocument query string, a default parameter value will be applied.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sRefresh=Y
&lsRTime+Period:=[2000..2004]
```

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sRefresh=Y
&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)..DateTime(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)..DateTime(2003,6,1,3,1,1)]
&lsRparamTimeR=[Time(1,1,1)..Time(3,1,1)]
```

6.3.5 `lsS[NAME]` - single prompt

Syntax	Description	Values
<code>lsS[NAME]</code>	Specifies a value for a single prompt. [NAME] is the text of the prompt.	<ul style="list-style-type: none">A single prompt value.<code>no_value</code> (only for optional parameters)

Note

You can remove an optional parameter from the prompt by setting it to `no_value` in the OpenDocument URL. If you leave an optional parameter out of the OpenDocument URL, a default parameter value will be applied.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&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)
```

6.3.6 `sRefresh`

Syntax	Description	Values
<code>sRefresh</code>	Indicates whether a database refresh should be forced when the target document is opened.	<ul style="list-style-type: none">YN (default value)

Certain documents can contain saved settings to specify that a database refresh must occur when the document is opened in a viewer. These document settings will override `sRefresh=N`.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sRefresh=Y
```

6.3.7 sReportName

Syntax	Description	Values
sReportName	Specifies the report to open if the target document contains multiple reports.	The report name for Web Intelligence documents and page name for A-OLAP Intelligence reports.

Note

Defaults to the first report if this parameter is not specified.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sReportName=First+Report+Tab
```

6.4 Output parameters

6.4.1 NAII

The `NAII` out parameter is specific to Web Intelligence. It allows you to pass a `Y` or `N` flag to display the prompt selection page.

Syntax	Description	Values
NAII	Indicates whether to force the display of the prompt selection page for mandatory prompts with no values only.	<ul style="list-style-type: none"> A: displays both mandatory and optional prompts (web client only) Y (prompt values that are passed with <code>lsS</code>, <code>lsM</code>, or <code>lsR</code> in the URL are applied and not displayed in the <i>Prompts</i> dialog)

Note

- NAII=Y raises the *Prompts* dialog for any values not specified in the URL. Prompts created with default values are still displayed in the *Prompts* dialog.
- If all prompt values are specified in the URL, the prompt window doesn't appear even if NAII=Y is specified.

Example

Let's say your query has three prompts: `Year` (mandatory), `Quarter` (mandatory), `Country` (optional). If `Year` has a set value and you pass the NAII parameter without `NaII=Y`, the *Prompts* dialog displays all three prompts. If `Year` has a set value and you pass the NAII parameter with `NaII=Y`, the *Prompts* dialog displays only displays the mandatory prompt with no set value (`Quarter`).

This second example assumes there are two prompts in the Web Intelligence document: `Year` and `Country`. NAII=Y forces the *Prompts* dialog to appear and allows the user to specify a value for the `Country` prompt. The `Year` prompt is already set to a value of `FY1999` in the URL using the `lsS` parameter and therefore is not prompted for.

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&lsSYear=FY1999
&NAII=Y
&sRefresh=Y
```

6.4.2 sOutputFormat

Syntax	Description	Values
sOutputFormat	Specifies the format in which to open the target document.	<ul style="list-style-type: none">H (HTML)P (PDF)E (Microsoft Excel (XLSX))XLS (Microsoft Excel (XLS) - Crystal Reports only)w (Rich Text Format (RTF) - Crystal Reports only)

Note

Defaults to HTML if this parameter is not specified.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?  
iDocID=Aa6GrrM79cRAmaOSMGoadKI&sIDType=CUID&sOutputFormat=E
```

6.4.3 noDocument

Syntax	Description	Values
noDocument	Forces the application to open a new blank document in <i>Design</i> mode.	true

Example

```
http://<server>:8080/BOE/OpenDocument/opendoc/openDocument.jsp?  
iDocID=6471&noDocument=true
```

6.5 Product specific parameters or usage

6.5.1 Analysis, edition for OLAP

Obtaining the base URL of an Analysis document

In Analysis, obtain the base URL of the document using the [Send To > Document Link](#). To verify the link works, you can copy the value in the [Link](#) field to a new web browser window.

Building an Analysis Open Document URL

To specify values for an SAP BW variable in the URL, the following elements are added to the end of the URL:

- the appropriate OpenDocument parameters for the type of variable that you want to specify
- the technical names of the variable as defined in the BEx Query Designer
- the values for the variable

Where to find Technical Names

Technical Names for SAP BW variables are specified in the SAP NetWeaver Business Explorer Query Designer "Properties" pane, which are made visible by turning on the View > Technical Names setting, and viewing the "Variable Sequence" for the selected query. A technical name has no spaces and uses upper case letters, for example `Z_SHPDATE`, while the display name might read `Shipment Date`.

The following is an example of adding technical names such as the variable `Z_VAR01` and a date `20120619` value to the end of a URL:

```
&1sSZ_VAR01==20120619
```

URL encoding of special characters

Note

Encode the URL if the link fails for some recipients due to the presence of commas or other special characters. For example

- `&1sC[1]Z_VAR06==1;[]5,20;! []10,15` would be encoded to look like
- `%26amp%3B1sC%5B1%5DZ_VAR06%3D%3D1%3B%5B%5D5%2C20%3B!%5B%5D10%2C15`

Multiple data connection setup

Where multiple connections are defined and must be included in the URL, an index number that represents the order in which that connection appears can be used to identify which connection the following variable names and values should be associated with.

The following example shows several OpenDocument tags, showing the data connection index number and the technical names of the variables and their values.

```
http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?sIDType=CUID
&iDocID=<ID>
&lsS[1]Z_VAR01=COUNTRY_HIERARCHY_01
&lsS[1]Z_VAR04=EUROPE
&lsS[2]Z_VAR02=20111111
&lsS[2]Z_VAR03=SALES_HIERARCHY_03
&lsM[3]Z_VAR05=1,3,5
&lsC[4]Z_VAR06==1;[ ]5,20;![ ]10,15
```

Multiple connections are differentiated from one another by an index number. The sequence in which these connections appear can be viewed in the Analysis [Data](#) pane. In the preceding example, the first connection listed is identified as 1, the next connection by a 2 and so on. The fourth [4] connection appears in &IsC[4]Z_VAR06.

- The first connection `lsS[1]` includes a single `COUNTRY_HIERARCHY_01` value applied to the `Z_VAR01` variable, and a single `EUROPE` value applied to the `Z_VAR04` variable.
- The second connection `lsS[2]` includes a single date (2011, 11, 11) value applied to the `Z_VAR02` variable, and a single `SALES_HIERARCHY_03` value applied to the `Z_VAR03` variable.
- The third connection `lsS[3]` includes multiple values 1, 2, and 3, which are associated to the `Z_VAR05` variable.
- The fourth connection `lsS[4]` includes complex variable values applied to `Z_VAR06`, such as 1, and a range from 5 to 20, while values in the range 10 to 15 are excluded.

OpenDoc syntax errors

Incorrect syntax will generate errors that usually relate to missing variables, operators and unencoded special characters among the few examples.

Examples of OpenDocument syntax error	Description
OpenDoc syntax error. The value "<value>" for variable <variable name> does not contain sufficient information	This error is generated when a complex variable type is incomplete, for example, if a bracket "]" is missing.
OpenDoc syntax error. The value "<value>" for variable <variable name> does not contain a supported operation	This error is generated when the operator for complex variable type does not match any of the supported operators, for example "]" ". If the value is invalid, an error prompt or dialog box will appear in Analysis, edition for OLAP.

Open Document tags used by Analysis, edition for OLAP

Note

Tags used in construction of A-OLAP OpenDocument links include:

- [lsC\[NAME\] - complex variables \[page 30\]](#) (complex variables)
- [lsM\[NAME\] - multiple value variables \[page 31\]](#) (multiple value variables)
- [lsR \[NAME\] - interval variables \[page 32\]](#) (interval variables)
- [lsS \[NAME\] - single value variables \[page 32\]](#) (single value variables)

6.5.1.1 `lsC[NAME]` - complex variables

The following example shows a typical use of the `lsC` tag to include complex variables. The technical name of the variable is used along with the appropriate parameter in the expected format.

Example: Date variable example

The following example supplies the technical name of a date variable `Z_VAR01`, the is-equal-to operator `==`, and the numerical date value in year (YYYY), month (MM) and day (DD) format.

```
http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?  
?sIDType=CUID  
&iDocID=AeGNiBIUS.1NmV45dz3jeP4  
&lsCZ_VAR01==20120619
```

Example: Multiple values including a range and data to exclude

The following example identifies the first connection `[1]`, and the complex variable name `Z_VAR06`. The range is from 5 to 20, excluding the range between 10 to 15. Semicolons separate the values.

```
http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?  
?sIDType=CUID  
&iDocID=&<ID>  
&lsC[1]Z_VAR06==1;[ ]5,20;![ ]10,15
```

Note

The preceding code snippets show each OpenDocument parameter on its own line to more clearly denote each variable name and value. Be sure to assemble the completed URL as one unbroken string.

The following table represents various operators that can be used with the `lsC` parameter for Analysis URLs.

Syntax	Description	Example
[]	within range	lscz_var01=[]5,10
! []	outside of range	lscz_var01=! []5,10
=	equal	lscz_var01==5
!=	not equal	lscz_var01!=5
>	greater than 5	lscz_var01=>5
<	less than 5	lscz_var01=<5
>=	equal or greater than	lscz_var01=>=5
<=	equal or less than	lscz_var01=<=5

6.5.1.2 `lsm[NAME]` - multiple value variables

Setting parameters for multiple values with a single data connection

If the target document is an Analysis report you can use the `lsm` parameter to provide multiple values, each separated by commas. Because some operating systems have difficulty with commas in URL strings, URL encoding is required.

Parameters that are passed use the unique technical names as they have been set up in the data sources for the Analysis workspace.

Example: Setting multiple variables for a sales hierarchy

This example shows how multiple variables can be specified. The first data connection is used (so it does not have to be specified after `&lsm`), followed by the variable's technical name `VAR_HN_S` and values of 1 and 3 separated by commas. For clarity, the example is shown not URL-encoded, and separate `openDocument` components appear on their own line.

```
http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?sIDType=CUID
&iDocID=<ID>
&lsmVAR_HN_S=1,3
```

6.5.1.3 `lsR [NAME]` - interval variables

If the target is an Analysis report, a variable range can be specified as well as the index number of each data connection if there is more than one. The following example demonstrates a data connection and a variable name followed by the range.

(Note that the openDocument preamble is omitted for clarity):

```
&lsR[2]VAR_20=2000..2009
```

Where `[2]` refers to the name of the connection index number (if there are two connections, the number in this example refers to the second connection as it appears in the *Data* panel in the Analysis client), `VAR_20` is the technical name of the field as it appears in the BEx Query Designer (note that the technical name is different from the user friendly name `Ship_date`, which cannot be used) and `2000..2009` is the range, which is the start and end value in years.

6.5.1.4 `lsS [NAME]` - single value variables

If the target is an Analysis report, you can use the `lsS` parameter to set a single value for a variable. You can apply the `lsS` parameter to the following variable types:

- single value
- hierarchy
- hierarchy node
- keydate
- formula
- currency

Refer to the [lsS\[NAME\] - single prompt \[page 24\]](#) parameter reference for more information.

Example: Setting a date parameter

Here is an example of setting a date variable `ZCR_DT` to a value of August 3, 2011 20110803:

```
http://<servername>:<port>/BOE/OpenDocument/openDocument.jsp  
?iDocID=Aa6GrrM79cRAmaOSMGoadKI  
&SIDType=CUID  
&lsSZCR_DT=20110803
```


Example: Setting a currency parameter

This example sets the value of the currency variable `z_CUR_MD` to `EUR`, which is the technical name for the Euro.

```
&lsSZ_CUR_MD=EUR
```

Example: Setting a hierarchy and hierarchy node

This example assigns a hierarchy node variable `z_VAR013` to a value of `34` which represents the key for the country of Jamaica, and the next line in the example is hierarchy variable `z_VAR011` which is set to the value `COUNTRY_HIERARCHY_02` which is the key for "Country Hierarchy 2".

```
&lsSZ_VAR013=34  
&lsSZ_VAR011=COUNTRY_HIERARCHY_02
```

Example: Setting several different parameter types

Here is an example of how to set different data connections, using several different single variable types to illustrate how to assemble a longer URL:

Note

The angle-bracketed items are comments that are NOT included in the string. They are shown in the code snippet to show which type of single variable is being demonstrated.

```
http://<servername>:<port>/BOE/OpenDocument/openDocument.jsp  
?iDocID=Aa6GrrM79cRAmaOSMGoadKI  
&sIDType=CUID  
&lsS[1]z_VAR013=34  
&lsS[1]z_VAR011=COUNTRY_HIERARCHY_02  
&lsS[2]z_CUR_MD=EUR  
&lsS[3]DT_IH=20100107  
&lsS[4]z_VAR05=1  
&lsS[5]ZCR_DT=20110803
```

6.5.2 Crystal Reports

6.5.2.1 lsM[NAME] - multiple value variables

Crystal reports

If the target is a Crystal report, [NAME] is the parameter name, each parameter value must be enclosed in square brackets, and comma(,) must be used as a separator to separate multiple entries.

Example: Setting Crystal report parameters

```
http://<servername>:<port>/BOE/OpenDocument/openDocument.jsp
?iDocID=ASsonFDFQtVomHZZJJTuSo
&sIDType=CUID
&lsMSelectState=[Alberta],[Washington]
```

This example opens up a Crystal report with a parameter named SelectState and sets its value to Alberta and Washington.

6.5.2.2 lsR[NAME] - range prompts

Crystal reports

If the target is a Crystal report, [NAME] is the parameter name, and 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).

6.5.2.3 lsS[NAME] - single prompt

Crystal reports

If the target is a Crystal report, [NAME] is the parameter name.

Example: Setting a Crystal report parameter

```
http://<servername>:<port>/BOE/OpenDocument/openDocument.jsp
?iDocID=ASsonFDFQtVomHZZJJTuSo
```

```
&sIDType=CUID
&lsMSelectState=California
```

This example opens up a Crystal report with a parameter named `selectState` and sets its value to California.

6.5.2.4 `sPartContext`

Syntax	Description	Values
<code>sPartContext</code>	Specifies the data context of a report part. Use in conjunction with <code>sReportPart</code> .	The name of the report part data context.

Note
Only supported by Crystal reports.

Note
Only mandatory if a value is specified for `sReportPart`.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sReportPart=Part1
&sPartContext=0-4-0
```

Note
The `sReportPart` and `sPartContext` parameters are only supported with the part viewer (`sReportMode=Part`).

6.5.2.5 sReportMode

Syntax	Description	Values
sReportMode	Indicates whether the link should open the full target Crystal report or just the report part specified in sReportPart.	<ul style="list-style-type: none">FullPart

Note
Only supported by Crystal reports.

Note

Defaults to Full if this parameter is not specified. Only applies if a value is specified for sReportPart.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sReportPart=Part1
&sReportMode=Part
```

6.5.2.6 sReportPart

Syntax	Description	Values
sReportPart	Specifies the part of the target Crystal report to open.	Name of the Crystal report part.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sReportPart=Part1
```

The sReportPart and sPartContext parameters are only supported with the part viewer (sReportMode=Part).

6.5.2.7 sViewer

Syntax	Description	Values
sViewer	For Crystal Reports, specifies the selected report viewer. Note <ul style="list-style-type: none">If sViewer parameter is not set, crystal reports viewer specified in BOE user preference will be used in OpenDoc.Crystal Reports 2020 on BW MDX driver is not supported in the Fiori viewer, thus will fall back to the HTML viewer.	<ul style="list-style-type: none">fiori (Crystal Reports 2020 only)htmlpart (deprecated, use 'sReportMode=Part' instead)

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?iDocID=Aa6GrrM79cRAmaOSMGoadKI&sIDType=CUID&sViewer=html
```

6.5.2.8 sOutputFormat

Syntax	Description	Values
sOutputFormat	Specifies the format in which to open the target document.	<ul style="list-style-type: none">H (HTML)P (PDF)E (Microsoft Excel (XLSX))XLS (Microsoft Excel (XLS) - Crystal Reports only)w (Rich Text Format (RTF) - Crystal Reports only)

Note

Defaults to HTML if this parameter is not specified.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?  
iDocID=Aa6GrrM79cRAmaOSMGoadKI&sIDType=CUID&sOutputFormat=E
```

6.5.2.9 lang

Syntax	Description	Values
lang	Defines the language in which Open-Document framework elements are displayed.	Language. i.e en for English

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp  
?iDocID=Aa6GrrM79cRAmaOSMGoadKI  
&sIDType=CUID  
&lang=en
```

Note

All report specific elements like prompt texts, prompt values, report headers, and report data or values are displayed based on the browser setting, and not defined by the URL Parameter.

This is a client specific implementation and defaults to browser settings if not specified.

6.5.2.10 pvl

Syntax	Description	Values
pvl	Sets the preferred viewing locale of a Crystal Report OpenDocument.	Language. For example, en for English

Example

```
http://BOE/OpenDocument/opendoc/openDocument.jsp?iDocID=Aa6GrrM79cRAmaOSMGoadKI
```

```
&sIDType=CUID
&pvl=en
```

Note

This parameter is independent of the lang parameter.

lang and pvl parameters can be used together or separately, depending on your requirement.

6.5.2.11 UI Customization Parameters

This feature allows you to customize the Crystal Report Viewer depending on your business requirements.

You can append the parameters to the OpenDoc URL as shown below:

Example: `http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?iDocID=<Document-ID>&sIDType=CUID&sGroupTree=hide` , this hides the group tree toggle.

The following table provides the list of parameters that you can use to customize the Crystal Report Viewer:

Parameter Table

Parameter	Value	Description
sAllUIElements	hide	It hides the top toolbar, left panel and status bar and hence, you can see the report without any UI element.
toolbar	hide	It hides the top toolbar so, you can see the left panel and status bar along with the report.
sLeftPanel	hide	For DHTML viewer, it hides the complete left panel. For Fiori viewer, it hides all 3 side panel buttons on the toolbar, as well as the side panel.
refresh	hide	It hides <i>Refresh</i> in the toolbar.
export	hide	It hides <i>Export</i> in the toolbar.
print	hide	It hides <i>Print</i> in the toolbar.
favorite	hide	CR Fiori viewer only. It hides <i>Favorite</i> button in the toolbar.
sGroupTree	hide	It hides <i>group tree</i> toggle.
sSearch	hide	It hides <i>Search</i> toggle.
sParameterPanel	hide	It hides <i>Parameter panel</i> toggle.

Parameter	Value	Description
sDefaultPanel	searchPanel, parameterPanel, groupTreePanel	CR Fiori viewer only. It by default opens specified side panel (on the right-hand side of CR Fiori viewer). Note sGroupTree=hide, sSearch=hide, sParameterPanel=hide has higher priority than sDefaultPanel setting.

6.5.3 Web Intelligence

6.5.3.1 sReportMode

Syntax	Description	Values
sReportMode	Defines how Web Intelligence displays the document.	<ul style="list-style-type: none"> Full: Opens the document in the complete interface. Light: Opens the document in a simplified interface with limited functionality. Direct actions (Drill, EL, fold/unfold) and comments are still available. The vanishing toolbar also allows to change report, change pages, change the zoom level,... Part: Opens a specific report part of the document. Make sure to specify the report part using the sReportPart parameter in the URL.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sReportMode=full
```


6.5.3.2 sReportName

Syntax	Description	Values
sReportName	Specifies the report to open if the target document contains multiple reports.	The report name for Web Intelligence documents and page name for A-OLAP Intelligence reports.

Note

Defaults to the first report if this parameter is not specified.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sReportName=First+Report+Tab
```

6.5.3.3 sReportPart

Syntax	Description	Values
sReportPart	Specifies the part of the target Web Intelligence report to open. The report part can be a chart, a table, a section cell, or a section instance.	Name of a report part.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&sReportPart=Part1
```

Note

Direct actions and comments aren't available when using sReportPart.

6.5.3.4 sOutputFormat

Syntax	Description	Values
sOutputFormat	Specifies the format in which to open the target document.	<ul style="list-style-type: none">H (Reading mode)E (XLSX)P (PDF)

Note

- PDF and Excel output formats don't support the sReportName, sReportMode, and sReportPart parameters.
- The 4.3 version of the BI platform doesn't have an embedded PDF reader. If you select the PDF output, the application generates a PDF that you can download.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp  
?iDocID=Aa6GrrM79cRAmaOSMGoadKI  
&sIDType=CUID  
&sOutputFormat=H
```

6.5.3.5 sViewer

Syntax	Description	Values
sViewer	Specifies the selected report viewer.	fiori

Note

The Applet and DHTML clients having been removed in 4.3, this parameter has no longer has impact on the OpenDoc URL.

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp  
?iDocID=Aa6GrrM79cRAmaOSMGoadKI  
&sIDType=CUID  
&sViewer=fiori
```

6.5.3.6 pvl

Syntax	Description	Values
pvl	Sets the preferred viewing locale of a WebIntelligence OpenDocument.	Language. For example, en for English

Example

```
http://BOE/OpenDocument/opendoc/openDocument.jsp?iDocID=Aa6GrrM79cRAmaOSMGoadKI  
&sIDType=CUID  
&pvl=en
```

Note

This parameter is independent of the lang parameter.

lang and pvl parameters can be used together or separately, depending on your requirement.

6.5.3.7 lang

Syntax	Description	Values
lang	Defines the language in which OpenDocument framework elements are displayed.	Language. For example, en for English

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp  
?iDocID=Aa6GrrM79cRAmaOSMGoadKI  
&sIDType=CUID  
&lang=en
```

Note

All report specific elements like prompt texts, prompt values, report headers, and report data or values are displayed based on the browser setting, and not defined by the URL Parameter.

This is a client specific implementation and defaults to browser settings if not specified.

6.5.3.8 noDocument

Syntax	Description	Values
noDocument	Forces the application to open a new blank document in <i>Design</i> mode.	true

Example

```
http://<server>:8080/BOE/OpenDocument/opendoc/openDocument.jsp?iDocID=6471&noDocument=true
```

6.5.3.9 NAII

The `NAII` out parameter is specific to Web Intelligence. It allows you to pass a `Y` or `N` flag to display the prompt selection page.

Syntax	Description	Values
NAII	Indicates whether to force the display of the prompt selection page for mandatory prompts with no values only.	<ul style="list-style-type: none">• <code>A</code>: displays both mandatory and optional prompts (web client only)• <code>Y</code> (prompt values that are passed with <code>lSs</code>, <code>lSM</code>, or <code>lSR</code> in the URL are applied and not displayed in the <i>Prompts</i> dialog)

Note

- `NAII=Y` raises the *Prompts* dialog for any values not specified in the URL. Prompts created with default values are still displayed in the *Prompts* dialog.
- If all prompt values are specified in the URL, the prompt window doesn't appear even if `NAII=Y` is specified.

Example

Let's say your query has three prompts: `Year` (mandatory), `Quarter` (mandatory), `Country` (optional). If `Year` has a set value and you pass the `NAII` parameter without `NAII=Y`, the *Prompts* dialog displays all three prompts. If `Year` has a set value and you pass the `NAII` parameter with `NAII=Y`, the *Prompts* dialog displays only displays the mandatory prompt with no set value (`Quarter`).

This second example assumes there are two prompts in the Web Intelligence document: `Year` and `Country`. `NAII=Y` forces the *Prompts* dialog to appear and allows the user to specify a value for the `Country` prompt. The `Year` prompt is already set to a value of `FY1999` in the URL using the `lsS` parameter and therefore is not prompted for.

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?iDocID=Aa6GrrM79cRAmaOSMGoadKI
&sIDType=CUID
&lsSYear=FY1999
&NAII=Y
&sRefresh=Y
```

6.5.3.10 `lsS[NAME]` - Single value

Syntax	Description	Values
<code>lsS[Name]=[Value]</code>	Specifies a single value for a prompt. <code>[Name]</code> is the text of the prompt.	<code>[Value]</code> is the answer to the prompt.

The character `?` is a reserved prompt value for Web Intelligence documents in an openDocument URL. Setting the prompt value to `lsS[NAME]=?` in the URL forces the *Prompts* dialog to appear for that particular prompt.

For SAP BW, `[Name]` is the variable technical name and `[Value]` is the value key. When you use an opendoc URL in a Web Intelligence document and pass the value of an object to answer a prompt, if the prompt is based on a SAP BW variable or an object with index awareness, make sure to use the `.key` suffix. For example:

```
&lsSCountry=[Country].key
```

Example

```
openDocument.jsp?
sIDType=CUID&iDocID=FpapfgC4gQwADwEAAAA3QCQCCLisFA7J&sRefresh=Y&lsSYear=FY94
```

6.5.3.11 `lsM[NAME]` - Multiple values answer

Syntax	Description	Values
<code>lsM[Name]=[Value1]; [Value2];...</code>	Specifies a multiple values for a prompt. <code>[Name]</code> identifies the prompt.	<code>[Value1]</code> , <code>[Value2]</code> , ... are the answers to the prompt.

The character `?` is a reserved prompt value for Web Intelligence documents in an OpenDocument URL. Setting the prompt value to `lsM[Name]=?` in the URL forces the *Prompts* dialog to appear for that particular prompt. You must use semicolon (`;`) as a separator to separate multiple entries.

For SAP BW, `[Name]` is the variable technical name and `[Value1]`, `[Value2]` are the value key. When you use an opendoc URL in a Web Intelligence document and pass the value of an object to answer a prompt, if the

prompt is based on a SAP BW variable or an object with index awareness, you need to use the .key suffix. For example:

```
&lsMCountry=[Country1].key;[Country2].key
```

Example

```
openDocument.jsp?
sIDType=CUID&iDocID=FpapfgC4gQwADwEAAAA3QCQCCLisFA7J&sRefresh=Y&lsMYear=FY94;FY95
```

6.5.3.12 lsM[Name] - Complex values answer

For SAP BW and SAP HANA, lsM can also be used to answer complex values, in addition to multiple values (see previous page).

Syntax	Description	Values
lsM[Name]=[Value]	Equal	[Value] is the operand for the Equal operator. For example: lsMLevel=20
lsM[Name]!= [Value]	Not Equal	[Value] is the operand for the Not Equal operator. For example: lsMLevel!=45
lsM[Name]=[Value1] - [Value2]	Interval Between	[Value1] and [Value2] are the range limit for the Between operator: For example: lsMLevel=20 - 50
lsM[Name]!= [Value1] - [Value2]	Not Between	[Value1] and [Value2] are the range limit for the Not Between operator: For example: lsMLevel!=20 - 50
lsM[Name]>[Value]	Greater than	[Value] is the operand for the Greater than operator. For example: lsMLevel>20
lsM[Name]<[Value]	Lower than	[Value] is the operand for the Lower than operator. For example: lsMLevel<50
lsM[Name]>=[Value]	Greater or equal to	[Value] is the operand for the Greater or equal to operator. For example: lsMLevel>=20
lsM[Name]<=[Value]	Lower or equal to	[Value] is the operand for the Lower or equal to operator. For example: lsMLevel<=50

You can aggregate different operators by using semicolon(;). For example:

```
&lsMLevel=20;21;22;>12;<=50;!45
```

For SAP BW, [Name] is the variable technical name and [Value] is the value key.

6.5.3.13 `lsI[NAME]` - Index

Syntax	Description	Values
<code>lsI[Name]=[Index]</code>	Specifies an index for a variable based on a SAP BW or object with aggregate awareness. [Name] identifies the prompt.	[Index] is the index for the answer to the prompt.

For SAP BW, [Name] is the variable technical name and [Index] is the value key. When you use an `opendoc` URL in a Web Intelligence document and pass the value of an object to answer a prompt, if the prompt is based on a SAP BW variable or an object with index, make sure you use the `.key` suffix. For example:

```
&lsICountry=[Country].key
```

6.5.3.14 `cp[NAME]` - Custom property value

Syntax	Description	Values
<code>cp[Name]=[Value]</code>	Specifies the value of a document custom property. If the custom property does not exist yet, it is created.	[Value] is the value to set for the custom property.

You need to escape characters that may be confused with the URL address.

For Example:

- `&cpCountry=France`
Creates a document custom property "Country" whose value is "France".
- `&cpMusic%3F=Rock%26Roll`
Creates a document custom property "Music?" whose value is "Rock&Roll".

Related Information

[CustomPropertyValue](#)
[CustomProperties](#)

6.5.4 Design Studio

6.5.4.1 lang

Syntax	Description	Values
lang	Defines the language in which Open-Document framework elements are displayed.	Language. i.e en for English

Example

```
http://<servername>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?iDocID=Aa6GrrM79cRAmaOSMGoadKI&sIDType=CUID&lang=en
```

Note

All report-specific elements like prompt texts, prompt values, report headers, and report data or values are displayed based on the browser setting, and not defined by the URL Parameter.

This is a client specific implementation and defaults to browser settings if not specified.

6.5.5 eView and Information Spaces

6.5.5.1 eView

Obtaining the base URL of an eView document

In the Central Management Console (CMC), view the *Folders > Objects List*, set the *Type* column filter to view *Explorer View Set* documents, and navigate to the appropriate *Explorer View Set* document. Right-click on the document, select *Properties*, then copy the 23-character *CUID* value.

Test that this base URL works by assembling the link in the following format as follows, then paste the link into a web browser address bar.

```
http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp?sIDType=CUID&iDocID=Ac4WR2LgKmpPtqEc_npw_Nk&mode=album
```


Note

The finished URL must not contain line returns. Line breaks are used in the example code snippets to more clearly show and separate the parameters.

Building an eView Open Document URL

Filtering the view requires adding parameters using the syntax listed in *Customizing Information Spaces with dynamic URL parameters*:

Using the previous base URL example and adding a filter of the `Region` to show only `Europe` and `EEMEA` using the parameter `fans` (the parameter for a sorted list of facets and facets values) using the separator characters `_]` is as follows:

```
http://<server>:<port>/BOE/OpenDocument/opendoc/openDocument.jsp
?sIDType=CUID
&iDocID=Ac4WR2LgKMpPtqEc_npw_Nk
&fans=Region:_]_Europe_]_EEME
```

URL encoding of special characters

Note

Encode the URL if the link fails for some recipients due to the presence of spaces, commas or other special characters. For example



- `&fans=Region:_]_Europe_]_EEME` would be encoded to look like
- `%26amp%3Bfans%3DRegion_%3A_Europe_%5D_EEME`

Important Disclaimers and Legal Information

Hyperlinks

Some links are classified by an icon and/or a mouseover text. These links provide additional information.

About the icons:

- Links with the icon : You are entering a Web site that is not hosted by SAP. By using such links, you agree (unless expressly stated otherwise in your agreements with SAP) to this:
 - The content of the linked-to site is not SAP documentation. You may not infer any product claims against SAP based on this information.
 - SAP does not agree or disagree with the content on the linked-to site, nor does SAP warrant the availability and correctness. SAP shall not be liable for any damages caused by the use of such content unless damages have been caused by SAP's gross negligence or willful misconduct.
- Links with the icon : You are leaving the documentation for that particular SAP product or service and are entering an SAP-hosted Web site. By using such links, you agree that (unless expressly stated otherwise in your agreements with SAP) you may not infer any product claims against SAP based on this information.

Videos Hosted on External Platforms

Some videos may point to third-party video hosting platforms. SAP cannot guarantee the future availability of videos stored on these platforms. Furthermore, any advertisements or other content hosted on these platforms (for example, suggested videos or by navigating to other videos hosted on the same site), are not within the control or responsibility of SAP.

Beta and Other Experimental Features

Experimental features are not part of the officially delivered scope that SAP guarantees for future releases. This means that experimental features may be changed by SAP at any time for any reason without notice. Experimental features are not for productive use. You may not demonstrate, test, examine, evaluate or otherwise use the experimental features in a live operating environment or with data that has not been sufficiently backed up.

The purpose of experimental features is to get feedback early on, allowing customers and partners to influence the future product accordingly. By providing your feedback (e.g. in the SAP Community), you accept that intellectual property rights of the contributions or derivative works shall remain the exclusive property of SAP.

Example Code

Any software coding and/or code snippets are examples. They are not for productive use. The example code is only intended to better explain and visualize the syntax and phrasing rules. SAP does not warrant the correctness and completeness of the example code. SAP shall not be liable for errors or damages caused by the use of example code unless damages have been caused by SAP's gross negligence or willful misconduct.

Bias-Free Language

SAP supports a culture of diversity and inclusion. Whenever possible, we use unbiased language in our documentation to refer to people of all cultures, ethnicities, genders, and abilities.

© 2024 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company. The information contained herein may be changed without prior notice.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.

Please see <https://www.sap.com/about/legal/trademark.html> for additional trademark information and notices.