

# Integrating WebCenter Content

## About Integration Methods

WebCenter Integration design depends on specific business requirements, and what your application can support with respect to integration models. WCC exposes its services over a wide variety of protocols (web services, JSP, Java API, RIDC, EJB, J2EE, CORBA, RMI, IIOP, ODMA, SOAP, WebDAV, and COM).

Available services are listed [here](#) (there are a LOT of them). The most common integration method is persistent URLs. Another is SOAP. But before you worry about the integration *method* you need to know what you're integrating. More specifically, you need to understand your functional requirements and then map those to exposed WCC services. You can access all services through any of the available APIs. So once you have the requirements mapped to services, you can determine the non-functional requirements (e.g. security, integration methods, etc) and then it comes down to performing the integration. If you want to see SOAP WSDLs, You can login to the CS as an administrator and go to Administration > SOAP WSDLs to see the available service endpoints and download WSDL files for each service. Note that SOAP requests use WSS for authentication.

## Example Pattern: Search/Retrieve

A typical integration pattern is to search for a document by some metadata criteria, then retrieve a selected document. With this pattern, we have several options. We can link directly to the document, or we can use a service to return the document by ID. Persistent URLs take this form: `http://<SERVER>:<PORT>/cs/idcplg?IdcService=<SERVICE_NAME>&PARMNAME=PARMVALUE`

### 1. Search

#### Persistent URL

`http://wcc:16200/cs/idcplg?IdcService=GET_SEARCH_RESULTS&QueryText=dDocTitle&lt;Substring&gt;%60Arms%60`

#### SOAP<sup>1</sup> Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:sear="http://www.stellent.com/Search/">
  <soapenv:Header/>
  <soapenv:Body>
    <sear:QuickSearch>
      <sear:queryText>
        dDocTitle &lt;Substring&gt; `Arms`
      </sear:queryText>
    </sear:QuickSearch>
  </soapenv:Body>
</soapenv:Envelope>
```

#### SOAP Results

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <idc:QuickSearchResponse xmlns:idc="http://www.stellent.com/Search/">
      <idc:QuickSearchResult>
        <idc:SearchResults>
```

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<sup>1</sup> SOAP requests must include authentication headers, not shown here.

```
<idc:dID>2</idc:dID>
<idc:dRevisionID>1</idc:dRevisionID>
<idc:dDocName>19216813916200000002</idc:dDocName>
<idc:dDocTitle>Hogwart's Coat of Arms</idc:dDocTitle>
<idc:dDocType>DigitalMedia</idc:dDocType>
<idc:dDocAuthor>weblogic</idc:dDocAuthor>
<idc:dSecurityGroup>Public</idc:dSecurityGroup>
<idc:dDocAccount/>
<idc:dExtension>png</idc:dExtension>
<idc:dWebExtension>png</idc:dWebExtension>
<idc:dRevLabel>1</idc:dRevLabel>
<idc:dInDate>9/16/17 8:00 AM</idc:dInDate>
<idc:dOutDate/>
<idc:dFormat>image/png</idc:dFormat>
<idc:dOriginalName>Hogwarts_coat_of_arms_colored_with_shading.svg.png</idc:dOriginalName>
<idc:url>/cs/groups/public/documents/digitalmedia/mjaw/mdaw/~edisp/
19216813916200000002.png</idc:url>
<idc:dGif/>
<idc:webFileSize>0</idc:webFileSize>
<idc:vaultFileSize>1256024</idc:vaultFileSize>
<idc:alternateFileSize>0</idc:alternateFileSize>
<idc:alternateFormat/>
<idc:dPublishType/>
<idc:dRendition1>D</idc:dRendition1>
<idc:dRendition2/>
<idc:CustomDocMetaData>
  <idc:property>
    <idc:name>xComments</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xExternalDataSet</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xIdcProfile</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xTemplateType</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xAnnotationDetails</idc:name>
    <idc:value>0</idc:value>
  </idc:property>
  <idc:property>
    <idc:name>xIsACLReadOnlyOnUI</idc:name>
    <idc:value>0</idc:value>
  </idc:property>
  <idc:property>
    <idc:name>xLibraryGUID</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xPartitionId</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xWebFlag</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xStorageRule</idc:name>
    <idc:value>DispByContentId</idc:value>
  </idc:property>
</idc:CustomDocMetaData>
</idc:SearchResults>
<idc:SearchInfo>
  <idc:startRow>1</idc:startRow>
  <idc:endRow>1</idc:endRow>
  <idc:pageNumber>1</idc:pageNumber>
```

```

        <idc:numPages>1</idc:numPages>
        <idc:totalRows>1</idc:totalRows>
        <idc:totalDocsProcessed>1</idc:totalDocsProcessed>
    </idc:SearchInfo>
    <idc:NavigationPages>
        <idc:headerPageNumber>1</idc:headerPageNumber>
        <idc:pageReference>1</idc:pageReference>
        <idc:pageNumber>1</idc:pageNumber>
        <idc:startRow>1</idc:startRow>
        <idc:endRow>1</idc:endRow>
    </idc:NavigationPages>
    <idc:StatusInfo>
        <idc:statusCode>0</idc:statusCode>
        <idc:statusMessage>You are logged in as 'weblogic'.</idc:statusMessage>
    </idc:StatusInfo>
</idc:QuickSearchResult>
</idc:QuickSearchResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2. Retrieve - this uses the document ID in <idc:dID>. Alternately you could directly reference the document's URL as shown in the <idc:url> node.

## Persistent URL

[http://wcc:16200/cs/idcplg?IdcService=GET\\_FILE&dID=2](http://wcc:16200/cs/idcplg?IdcService=GET_FILE&dID=2)

## SOAP<sup>2</sup> Request

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:get="http://www.stellent.com/GetFile/">
  <soapenv:Header/>
  <soapenv:Body>
    <get:GetFileByID>
      <get:dID>2</get:dID>
    </get:GetFileByID>
  </soapenv:Body>
</soapenv:Envelope>

```

## SOAP Results

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <idc:GetFileByIDResponse xmlns:idc="http://www.stellent.com/GetFile/">
      <idc:GetFileByIDResult>
        <idc:FileInfo>
          <idc:dDocName>19216813916200000002</idc:dDocName>
          <idc:dDocTitle>Hogwart's Coat of Arms</idc:dDocTitle>
          <idc:dDocType>DigitalMedia</idc:dDocType>
          <idc:dDocAuthor>weblogic</idc:dDocAuthor>
          <idc:dSecurityGroup>Public</idc:dSecurityGroup>
          <idc:dDocAccount/>
          <idc:dID>2</idc:dID>
          <idc:dRevClassID>2</idc:dRevClassID>
          <idc:dRevisionID>1</idc:dRevisionID>
          <idc:dRevLabel>1</idc:dRevLabel>
          <idc:dIsCheckedOut>0</idc:dIsCheckedOut>
          <idc:dCheckoutUser/>
          <idc:dCreateDate>9/16/17 8:01 AM</idc:dCreateDate>
          <idc:dInDate>9/16/17 8:00 AM</idc:dInDate>
          <idc:dOutDate/>
          <idc:dStatus>RELEASED</idc:dStatus>
          <idc:dReleaseState>Y</idc:dReleaseState>
          <idc:dFlag1/>
          <idc:dWebExtension>png</idc:dWebExtension>
          <idc:dProcessingState>Y</idc:dProcessingState>
          <idc:dMessage/>
          <idc:dReleaseDate>9/16/17 8:01 AM</idc:dReleaseDate>
        </idc:FileInfo>
      </idc:GetFileByIDResult>
    </idc:GetFileByIDResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

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<sup>2</sup> SOAP requests must include authentication headers, not shown here.

```

<idc:dRendition1>D</idc:dRendition1>
<idc:dRendition2/>
<idc:dIndexerState/>
<idc:dPublishType/>
<idc:dPublishState/>
<idc:dDocID>3</idc:dDocID>
<idc:dIsPrimary>1</idc:dIsPrimary>
<idc:dIsWebFormat>0</idc:dIsWebFormat>
<idc:dLocation/>
<idc:dOriginalName>Hogwarts_coat_of_arms_colored_with_shading.svg.png</idc:dOriginalName>
<idc:dFormat>image/png</idc:dFormat>
<idc:dExtension>png</idc:dExtension>
<idc:dFileSize>1256024</idc:dFileSize>
<idc:CustomDocMetaData>
  <idc:property>
    <idc:name>xComments</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xExternalDataSet</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xIdcProfile</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xTemplateType</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xAnnotationDetails</idc:name>
    <idc:value>0</idc:value>
  </idc:property>
  <idc:property>
    <idc:name>xIsACLReadOnlyOnUI</idc:name>
    <idc:value>0</idc:value>
  </idc:property>
  <idc:property>
    <idc:name>xLibraryGUID</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xPartitionId</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xWebFlag</idc:name>
    <idc:value/>
  </idc:property>
  <idc:property>
    <idc:name>xStorageRule</idc:name>
    <idc:value>DispByContentId</idc:value>
  </idc:property>
</idc:CustomDocMetaData>
</idc:FileInfo>
<idc:downloadFile>
  <idc:fileName>Hogwarts_coat_of_arms_colored_with_shading.svg.png</idc:fileName>
  <idc:fileContent>XXXXXFileContentIsHereXXXXXXXXXX</idc:downloadFile>
</idc:StatusInfo>
  <idc:statusCode>0</idc:statusCode>
  <idc:statusMessage>You are logged in as 'weblogic'.</idc:statusMessage>
</idc:StatusInfo>
</idc:GetFileByIDResult>
</idc:GetFileByIDResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

**References:**

[Service guide for WCC](#)

[Simple Search Example](#)

[Introduction to WebCenter Content Services](#)

[Configuring WebCenter Content Web Services for Integration](#)