

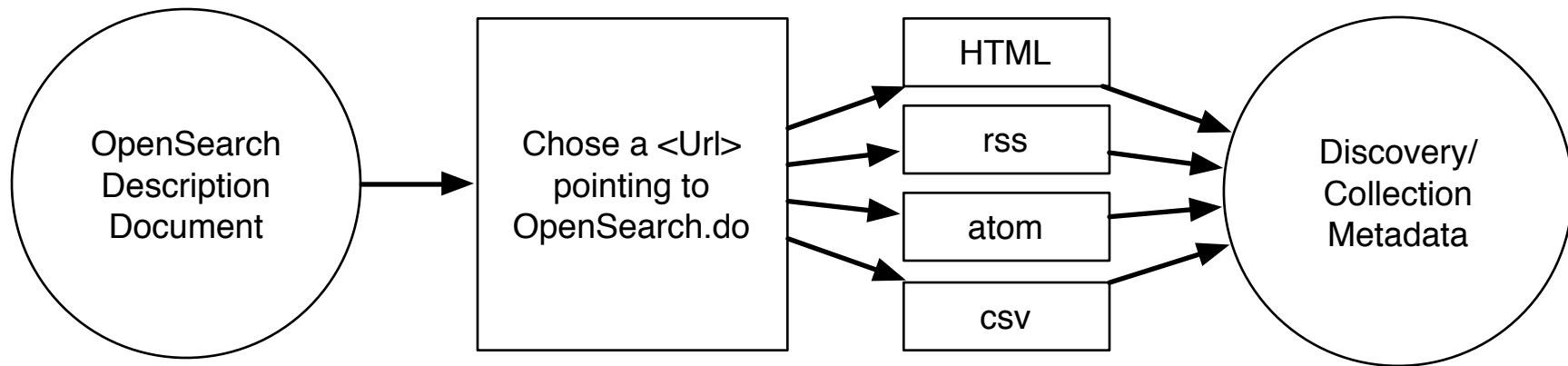
GCMD-CWIC OpenSearch

Global Change Master Directory
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Introduction

- Overview of Functionality
- CWIC Additions
- Questions / URLs

Overview of Functionality



<http://gcmddemo.gsfc.nasa.gov/KeywordSearch/default/openSearch.jsp?client=CWIC>

<http://gcmddemo.gsfc.nasa.gov/r/u/osd/cwic?clientId=CWIC>

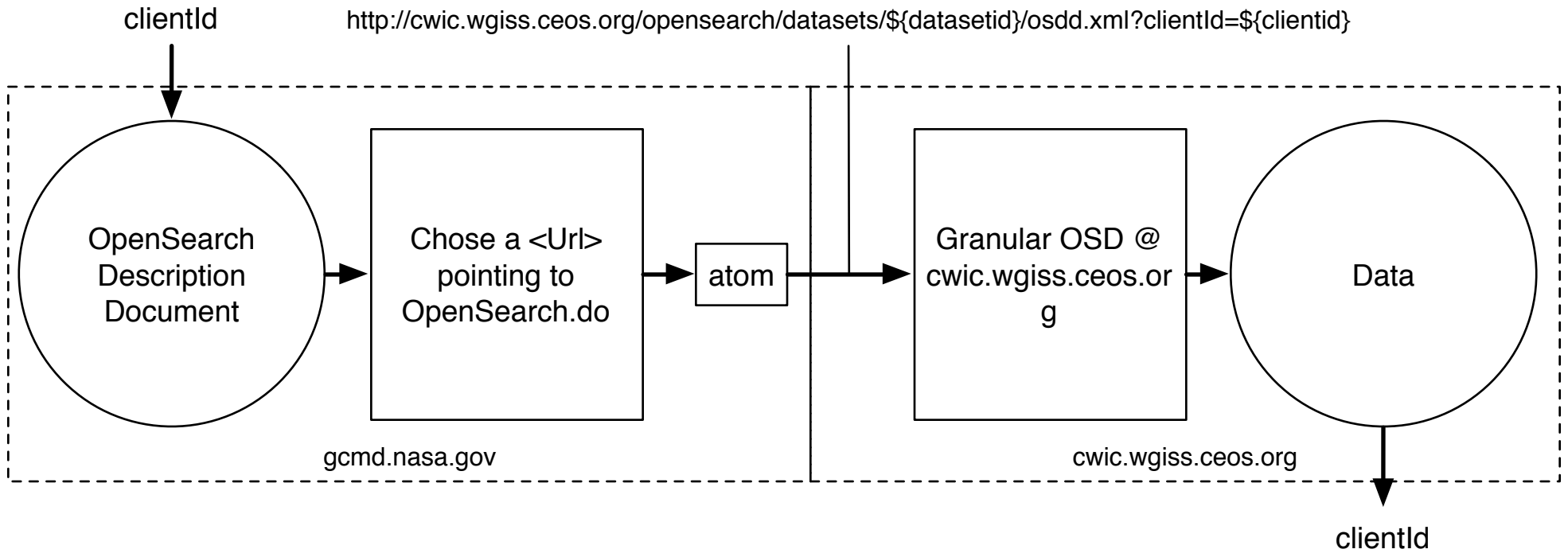
CWIC Additions

- Client ID (metrics)
- Optional Secondary OSD (search chaining)
- Parameter Extension
- Improved Pagination Support

<https://wiki.earthdata.nasa.gov/display/CWIC/CWIC+Home>

<https://wiki.earthdata.nasa.gov/display/CWIC/CWIC+Open+Search+Best+Practices>

Client ID



<https://wiki.earthdata.nasa.gov/display/CWIC/CWIC+Home>

<https://wiki.earthdata.nasa.gov/display/CWIC/CWIC+Open+Search+Best+Practices>

OpenSearch Parameter Extension

Version 1.0 Draft 2

```
<Url type="application/atom+xml" template="...">
  <parameters:Parameter name="searchTerms" value="{searchTerms}" />
  <parameters:Parameter name="count" value="{count}"
    minimum="0" maximum="1" minInclusive="1" maxInclusive="1024"
    title="a value between 1 and 1024" />
  <parameters:Parameter name="startPage" value="{startPage}"
    minimum="0" maximum="1" minInclusive="1"
    title="starts at 1" />
  <parameters:Parameter name="geoBox" value="{geo:box}"
    minimum="0" maximum="1" />
  <parameters:Parameter name="timeStart" value="{time:start}"
    minimum="0" maximum="1" />
  <parameters:Parameter name="timeEnd" value="{time:end}"
    minimum="0" maximum="1" />
</Url>
```

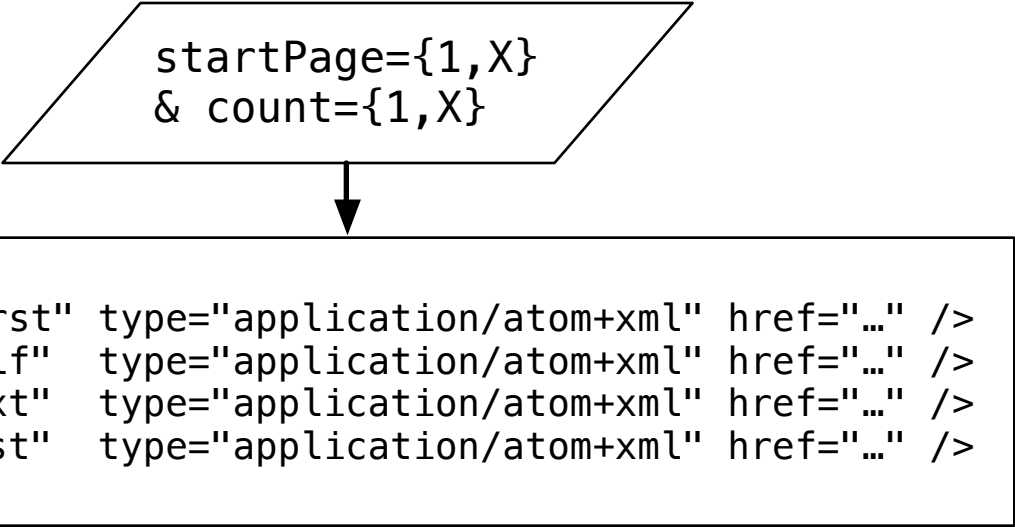
<https://wiki.earthdata.nasa.gov/display/CWIC/CWIC+Home>

<https://wiki.earthdata.nasa.gov/display/CWIC/CWIC+Open+Search+Best+Practices>

http://www.opensearch.org/Specifications/OpenSearch/Extensions/Parameter/1.0/Draft_2

Improved Pagination

CWIC compliant requests standardizing around a common set of pagination parameter names (startPage vs startIndex) with results all producing navigation link tags:



startPage={1,X}
& count={1,X}

```
...  
<link rel="first" type="application/atom+xml" href="..." />  
<link rel="self" type="application/atom+xml" href="..." />  
<link rel="next" type="application/atom+xml" href="..." />  
<link rel="last" type="application/atom+xml" href="..." />  
...
```

<https://wiki.earthdata.nasa.gov/display/CWIC/CWIC+Home>

<https://wiki.earthdata.nasa.gov/display/CWIC/CWIC+Open+Search+Best+Practices>

Questions/URLs

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- Michael.P.Morahan@nasa.gov

Documentation:

- <http://gcmd.nasa.gov/Connect>
- <https://wiki.earthdata.nasa.gov/display/CWIC/CWIC+Home>
- <https://wiki.earthdata.nasa.gov/display/CWIC/CWIC+Open+Search+Best+Practices>
- http://www.opensearch.org/Specifications/OpenSearch/Extensions/Parameter/1.0/Draft_2

APIs:

- <http://gcmddemo.gsfc.nasa.gov/KeywordSearch/default/openSearch.jsp?client=CWIC>
- <http://gcmddemo.gsfc.nasa.gov/r/u/osd/cwic?clientId=CWIC>
- [http://cwic.wgiss.ceos.org/opensearch/datasets/\\${datasetid}/osdd.xml?clientId=\\${clientid}](http://cwic.wgiss.ceos.org/opensearch/datasets/${datasetid}/osdd.xml?clientId=${clientid})
- [http://cwicest.wgiss.ceos.org/opensearch/datasets/\\${datasetid}/osdd.xml?clientId=\\${clientid}](http://cwicest.wgiss.ceos.org/opensearch/datasets/${datasetid}/osdd.xml?clientId=${clientid})