

Federation FAST Query Builder

The *Federation FAST Query Builder* stage takes a job (most likely originating from the [Dispatcher](#)) and *builds* a query to be sent to the FAST search engine by gathering all document elements at the top level and constructing a single element that may be submitted to the search engine via [Fetch URL](#).

The stage requires an *aspireFederationServer* variable (of [Server](#) class) to be attached to the input job. The URL of the search server is obtained from this variable.

The stage also adjusts the *offset* and *hits* parameters of the request so that they return a results set suitable for merging by the [Merger](#). For a request for a page of 10 documents at offset 20, the stage will request documents 1 to 30:

```
Federation Offset = 0
Federation Hits = Request Offset + Request Hits
```

The constructed query is output to the *aspireFederationQuery* tag.

Configuration

This component has no configurable parameters.

Example Configuration

```
<component name="ConstructFastUrl" subType="fastQuery" factoryName="aspire-federation" />
```

Example Document

Input

```
<doc>
  <aspireHttpFeederServlet remotePort="57329" relativePath="/xsearch" serverName="10.40.40.117" source="
HTTPFeederServlet" remoteHost="10.40.40.117" serverPort="50525" remoteAddr="10.40.40.117" fullPath="/cgi-bin
/xsearch" servletPath="/cgi-bin">
    <queryString>&query=new&remoteAddress=value1&userid=administrator&qt_f_security:uid=win:administrator<
/queryString>
  </aspireHttpFeederServlet>
  <remoteAddress source="HTTPFeederServlet">value1</remoteAddress>
  <query source="HTTPFeederServlet">new</query>
  <feederLabel>QueryProxy</feederLabel>
  <userid source="HTTPFeederServlet">administrator</userid>
  <pathInfo source="HTTPFeederServlet">/xsearch</pathInfo>
  <qt_f_security:uid source="HTTPFeederServlet">win:administrator</qt_f_security:uid>
  <offset>20</offset>
  <hits>20</hits>
</doc>
```

Output

```
<doc>
  <hits>20</hits>
  <aspireHttpFeederServlet remotePort="57329" relativePath="/xsearch" source="HTTPFeederServlet" serverName="
10.40.40.117" remoteHost="10.40.40.117" serverPort="50525" remoteAddr="10.40.40.117" servletPath="/cgi-bin"
fullPath="/cgi-bin/xsearch">
    <queryString>&query=new&remoteAddress=value1&userid=administrator&qt_f_security:uid=win:administrator<
/queryString>
  </aspireHttpFeederServlet>
  <remoteAddress source="HTTPFeederServlet">value1</remoteAddress>
  <query source="HTTPFeederServlet">new</query>
  <feederLabel>QueryProxy</feederLabel>
  <userid source="HTTPFeederServlet">administrator</userid>
  <offset>20</offset>

  <aspireFederationQuery>http://server1/xsearch?
remoteAddress=value1&query=new&feederLabel=QueryProxy&userid=administrator&pathInfo=/xsearch&qt_f_security:
uid=win:administrator&offset=0&hits=40</aspireFederationQuery>

  <pathInfo source="HTTPFeederServlet">/xsearch</pathInfo>
  <qt_f_security:uid source="HTTPFeederServlet">win:administrator</qt_f_security:uid>
</doc>
```

Federation FAST Query Builder	
Factory Name	com.searchtechnologies.aspire:aspire-federation
subType	fastQuery
Inputs	Aspire Jobs
Outputs	Updates the input job

? Unknown Attachment