

# API

## Search queries

The query parameters have a heuristic (may change drastically over time) built around to determine what you intended when you typed in your search text and how that translates into "lucene-speak":

Query string	Resultant query
words	search for filenames with all of the words OR documents with all of the words (within a hard coded range)
(f or files):words	search for filenames with all of the words
(c or content):words	search for documents with all of the words in the indexed content
(l or literal):query	search using this exact query string (lucene query format)

In addition, any paths are added as an AND for the set, i.e. the results only contain hits that satisfy the path arguments.

Any schema fields will also be added as an AND for the set. If no headrevision field is specified, p4-search will automatically add a "AND headrevision:true" to the query in order to only return one search hit per file. Setting "headrevision":"\*" in the searchFields array below will return all indexable revisions.

## Externally facing API calls

API call	Description
GET /api/search	<p>(no auth) Provides a simple search method (for demonstration only, the POST method is recommended). Query params to the search call are:</p> <pre>query={{query string}}</pre> <pre>path={{depot path to restrict search, not required}}</pre> <pre>user={{user ID for authentication}}</pre> <pre>ticket={{Perforce login ticket, p4 login -p -h searchindexerIP or p4 login -p -a, not required if "user" has no password set}}</pre> <p>The search results are returned in the standard format (see below)</p>

<p>POST /api/search</p>	<p>(no auth) Similar to the GET method, but all of the parameters are in the POST data as a JSON object:</p> <pre>{   userId: user ID for authentication,   ticket: Perforce login ticket, p4 login   -p -h searchindexerIP or p4 login -p -a,   empty if no password is required for   "userId"   queryRaw : query string,   paths: [ { depot path 0 }, {depot path   1}, ...],   searchFields: [ { field: Solr schema   field name, value: value to search for },   ... ]   rowCount: maximum number of search   results, optional }</pre> <p>The search results are returned in the standard format (see below)</p>
<p>POST /api/auth-search</p>	<p>Similar to the POST /api/search method, only behind a Spring authentication wall (/j_spring_security_check). The JSON format is the same, but userId and ticket are not required (ignored).</p> <p>The search results are returned in the standard format (see below)</p>
<p>HEAD /api/search</p>	<p>Convenience method for Commons or other servers that just need to check "are you there" on startup. Returns a standard "OK" message (see below)</p>

### API calls for internal usage

API call	Description
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POST /api/queue/{token}	<p>Similar to the Swarm trigger API, this call is used by a trigger in the Perforce server to notify the indexer of a commit change. The "token" in this case is simply a configured value that is the same on both the Perforce server and the p4-search configuration file. The POST data is the following:</p> <pre>commit,{{change number}}</pre> <p>Receiving this API request will eventually trigger p4-search to index or re-index all of the files in the numbered changelist.</p>
GET /version	TBD: return version data in JSON format
GET /api/configuration	used internally by the p4-search UI, returns minimal configuration data (commonsURL and swarmURL for link generation)
GET /notauthorized	used internally by the p4-search login UI, returns an error page indicating unauthorized access
GET /api/userid	used internally by the p4-search login UI, returns the userid of the session's logged in user
GET /api/search-fields	used internally by the p4-search UI for providing a basic list of what is in the Solr schema (field name and type)

## API responses

All responses from p4-search are JSON data in the following format:

```
{ status: {
    code: 200 for OK, other error codes TBD,
    message: descriptive message of error },
  payload : [ empty for errors, JSON objects for search results ]
}
```

Successful search results return a JSONified version of "p4 files" output in the "payload" array:

```
... payload : [
    { depotFile: {{depot path}}, rev: {{revision#}}, action: {{p4 action}},
      fileType: {{perforce file type}}, change: {{changelist}} },
    { depotFile: ... }, ...
]
```

]

If the search returned no results, the payload array will be empty but the `status.code` will be 200 (OK).

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