

**武汉侏罗纪技术开发有限公司**

塔里木油田搜索引擎系统升级

v1.2.1

**接口规范说明书**

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# 概述

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| 本章节主要对接口文档做简要的叙述。 |

## 有关接口

API接口是搜索引擎和业务之间进行通信的途径。实质就是以特定的规则通过接口直接操作搜索库的增删改查。

## 接口分类

1、查询类接口

查询类接口是指客户端传递一些参数，服务端根据参数依据需求，前往搜索库查询需要的结果返回数据的一类接口。

返回类型一般有两种。第一种是返回一个对象，第二种是返回一个数组对象。

第一种比如登陆，客户端把用户名密码上传到接口，服务器返回用户的个人信息。

第二种比如获取客户，客户端把用户的身份信息上传到接口，服务器返回此身份下的所有客户数组集合。

2、操作类接口

操作类接口是指，客户端通过接口进行一些增删改的操作。比如新增一个索引，修改索引信息，或者删除一个索引。服务器一般返回执行的状态，有的需要返回执行结果的一些信息，比如新增索引后，返回索引的ID。

3、上传下载类接口

上传下载类接口是涉及到文件传输的接口。比如上传文档，需要上传文件到服务器，服务端根据需求响应保存并返回结果。比如客户端需要显示文档，需要读取网络文件，在客户端上进行显示。

4、推送类接口

除了客户端主动去请求服务端，获取需要信息之外。有时候，也存在服务端有消息需要通知客户端的情况，这时候就是服务端向客户端发送消息。这类需求可以通过客户端短时间类循环请求解决，也可以通过第三方专业推送解决。也可以通过自己使用socket或者xmpp等协议进行开发

# 接口编写原则

## 实用性

|  |
| --- |
| 编写接口API应遵从实用性原则。 |

1、数据格式：推荐使用JSON格式数据，因为JSON有较好的跨平台性，以及数据格式占用字节数较少，当然也可采用XML、TEXT作为程序开发辅助。

2、接口执行效率（接口访问速度）：WebAPI主要用来进行数据交互，这要求接口响应速度要快，所有在开发过程中尽量选择效率高的框架。

3、数据量：按需分配，客户端需要什么数据就返回什么数据，过多的数据量影响处理速度，最重要的是影响传输效率。

4、API缓存：这点比较重要，不管是文件缓存还是memcache缓存。

## **易用性**

1、接口、参数命名准确：无论是接口还是参数，命名都应该有意义，让人一目了然。（接口推荐根据效果图栏目进行命名）

2、一个页面尽可能就用一个接口：现在很多的页面都有广告、焦点图、文章列表等，对于这些不同格式的数据，不可能都分配一个接口，这样加大了API请求接口数，影响响应速度。建议服务器端尽可能处理好数据后通过一个接口返回给客户端。

3、接口数据、状态：接口必须提供明确的数据状态信息，不管是成功的，还是失败的，都必须返回给客户端。

4、接口要有可扩展性：方便后期功能性调整，接口应具备可扩展性。

## **安全性**

1、接口安全：目前一般都是在客户端和服务器通过约定的算法，对传递的参数值进行验证匹配。但是如果程序被反编译，这些约定的算法就会暴露，特别是在网页客户端中，有了算法，完全就可以通过验证模拟接口请求。

2、加密规范：在传递用户名密码时，应采用规范的加密算法如MD5、RSA、DES，进行数据通信请求。

3、接口版本控制：对于接口版本控制，需要应对不断的客户端版本升级，新、旧接口的处理，因而需要关注接口版本控制。

# 接口设计

## 设计原则

1、尽量减少参数传递：在客户端发起HTTP请求接口操作时，应减少参数传递，如某些操作只需要ID不需要其他参数，这时候就应该只传递ID这个参数。

2、尽量避免接口重复性：在客户端调用接口时，尽量提高接口复用性，减少HTTP请求，提高程序稳定性。

3、数据类型规范：客户端APP调用接口时，应标注参数数据类型，以及是否可为空或者默认字段，如标注了Int型字段，就不能返回“null”的String类型字段，否则容易造成程序APP出现数据类型解析异常。

4、设置调用html页面单独列表：调用html页面应标明是否传递安全校验参数，建议表格中采用是或者否单独字段标识。

5、编码规范：整个API接口开发过程中，应标注接口编码方式，目前建议采用UTF-8编码，UTF-8通用性以及URL请求方面都较规范。

6、请求方式：编写API接口应该标注请求方式，请求方式一般有GET和POST方式

7、GET和POST方式：在数量较小情况下可以使用GET方式，但数据量超过1024字节就应该采用POST方式，避免出现请求失败或者请求异常的问题。

8、返回接口调用状态：所有API接口都应该统一标识调用的成功失败信息和规范错误编码信息，以及必要的提示字段信息。

9、安全机制：接口应规范验证签名机制，用户登录后统一调用KEY对接口安全验证。（关于KEY机制需由接口开发人员定义）

10、参数说明：应标注参数名称、是否必选、数据类型及范围、说明以及“否（必选）”传递默认的参数。

## 功能模块

# 接口说明

|  |
| --- |
| <http://IP：端口/> 例如：<http://localhost:9901/> |
| 路由规则 ：api/{controller}/{action}/{id} |

## 元数据说明

### 基本结构

***索引数据必须包含基本结构所有字段***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **分类** | | **字段/标签** | **字段标题** | **字段描述** | **是否必须** | **数据类型** |
| **基本结构** | **主结构** | iiid | 信息项ID | 索引项的唯一标识，由resourcekey的MD5计算得到 | True | String |
| indexeddate | 索引时间 | 创建索引项的时间 | True | Date |
| thumbnail | 缩略图 | 缩略图 | False | String |
| fulltext | 全文 | 全文 | False | String |
| pageid | 页面ID | 展示页面ID（生成页面时存入页面ID） | True | String |
| dataid | 数据ID | 展示页面数据ID（生成数据时存储数据ID） | True | String |
| dsn | 数据源 | 原始数据源名称（源系统名称） | True | String |
| showtype | 信息展示类型 | 信息展示类型 | True | String |
| title | 标题 | 标题 | True | String |
| subject | 主题词 | 主题关键词 | False | String |
| abstract | 摘要 | 摘要 | False | String |
| catalogue | 目录 | 目录 | False | String |
| author | 作者 | 作者 | False | String |
| submitter | 提交者 | 提交者 | False | String |
| auditor | 审核者 | 审核者 | False | String |
| createddate | 创建时间 | 创建时间 | False | Date |
| submitteddate | 提交时间 | 提交时间 | False | Date |
| auditteddate | 审计时间 | 审计时间 | False | Date |
| status | 审核状态 | 审核状态 | False | String |
| frequency | 更新频率 | 信息更新频率 | False | String |
| period | 周期 | 周期 | False | String |
| **目标语义** | pc | 成果分类 | 成果分类（从语义中获取） | False | String |
| pt | 成果类型 | 成果类型（从语义中获取） | True | String |
| bd | 业务域 | 业务域（从语义中获取） | False | StringArray |
| bt | 业务类型 | 业务类型（从语义中获取） | False | StringArray |
| bp | 业务程序 | 业务程序（从语义中获取） | False | StringArray |
| ba | 业务活动 | 业务活动（从语义中获取） | False | StringArray |
| bf | 地质特征 | 地质特征（从语义中获取） | False | StringArray |
|  |  |  |  |  |  |
| **数据源** | system | 系统名称 | 系统名称 | True | String |
| resourcetype | 资源类型 | 资源类型 | False | String |
| resourcekey | 资源标识 | 资源标识 | True | String |
| **说明** | 针对普联平台后台设置：（元数据橙色标注）  Bd 业务域 -> 平台领域  PC业务类型–> 平台业务  Pt 成果类型—> 平台业务标题  自定义业务结构 – 自定义字段 -> 平台标题下业务属性 | | | | | |

### 扩展结构

***非必须结构，有些请求或创建要求包含以下字段***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **分类** | | **字段/标签** | **字段标题** | **字段描述** | **是否必须** | **数据类型** |
| **扩展结构** | **源头** | resdb | 资源来源库 | 资源来源库（数据生成时获取） | False | String |
| restatable | 资源来源表 | 资源来源表（数据生成时获取） | False | String |
| resdataid | 资源来源主键 | 资源来源主键（数据生成时获取） | False | String |
| headline | 头条标记 | 头条标记（评论模块生成时回填） | False | Bool |
| **用户信息** | uid | 用户编号 | 用户编号（数据生成时获取） | False | String |
| uname | 用户名称 | 用户名称（数据生成时获取） | False | String |
| uorganization | 用户单位 | 用户单位（数据生成时获取） | False | String |
| udepartment | 用户部门 | 用户部门（数据生成时获取） | False | String |
| uposition | 用户岗位 | 用户岗位（数据生成时获取） | False | String |
| urole | 用户角色 | 用户角色（数据生成时获取） | False | StringArray |
| **地址目标** | basin | 盆地 | 盆地(从对象库中获取) | False | StringArray |
| firstlevel | 一级构造单元 | 一级构造单元(从对象库中获取) | False | StringArray |
| secondlevel | 二级构造单元 | 二级构造单元(从对象库中获取) | False | StringArray |
| trap | 圈闭 | 圈闭(从对象库中获取) | False | StringArray |
| well | 井 | 井(从对象库中获取) | False | StringArray |
| swa | 地震工区 | 地震工区(从对象库中获取) | False | StringArray |
| miningarea | 矿区 | 矿区(从对象库中获取) | False | StringArray |

### 业务结构

***根据具体业务双方协调定义（具体结构待定）***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **分类** | | **字段/标签** | **字段标题** | **字段描述** | **是否必须** | **数据类型** |
| **业务结构** | **储运销售** |  |  |  |  |  |
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| **研究** |  |  |  |  |  |
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| **办公** |  |  |  |  |  |
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| **财务** |  |  |  |  |  |
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### 日志结构（新增）

***根据具体接入的日志分类双方协调定义（主结构统一，其他项灵活定义）***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **分类** | | **字段/标签** | **字段标题** | **字段描述** | **是否必须** | **数据类型** |
| **主结构** | **必须项** | ulogid | 用户日志ID | 索引项的唯一标识，MD5计算得到 | True | String |
| ulogdate | 日志时间 | 创建日志的时间，接口自动生成 | True | Date |
| yhm | 用户名 | 用户名或用户登录ID，取油田统一身份认证 | True | String |
| yhxm | 用户姓名 | 用户姓名，取油田统一身份认证 | True | String |
| **专题** | ztmc | 专题名称 | 专题名称 | False | String |
| ztlmmc | 专题栏目名称 | 专题栏目名称 | False | String |
| **共享平台预设用户行为结构** | **访问的功能/浏览的条目行为** | fwlx | 访问类型 | 访问类型 | True | String |
| xxbtid | 信息标题ID | 信息标题ID | True | String |
| xxbtmc | 信息标题名称 | 信息标题名称 | True | String |
| xtfl | 使用系统分类 | 用户访问使用的系统 | False | String |
| xtbm | 使用系统编码 | 用户访问使用的系统 | False | String |
| xtmc | 使用系统名称 | 用户访问使用的系统 | False | String |
| yhsygnmc | 使用功能名称 | 使用功能名称 | True | String |
| yhsygnlx | 使用功能类型 | 使用功能类型 | True | String |
| yhgygnbm | 使用功能编码 | 使用功能编码 | True | String |
| czlx | 操作类型 | 系统功能操作类型 | True | String |
| dkym | 用户访问URL | 记录用户访问页面或资源URL | True | String |
| ymmc | 访问页面名称 | 记录用户访问页面或资源URL的标题名称 | True | String |
| cznr | 操作内容 | 监控平台获取的操作内容信息 | True | String |
| tlsj | 用户停留时间 | 记录用户访问停留时间 | True | Date |
| dqsj | 当前时间 | 记录系统当前时间 | True | Date |
| **用户详细信息** | yhdwbm | 用户单位编码 | 用户单位编码 | False | String |
| yhdwmc | 用户单位名称 | 用户单位名称 | False | String |
| yhgwbm | 用户岗位编码 | 用户岗位编码 | False | String |
| yhgwmc | 用户岗位名称 | 用户岗位名称 | False | String |
| cjdwbm | 处级单位编码 | 处级单位编码 | False | String |
| cjdwmc | 处级单位名称 | 处级单位名称 | False | String |
| yhip | 用户客户端IP | 用户客户端IP | False | String |
| **扩展** | **源头** | resdb | 资源来源库 | 资源来源库（数据生成时获取） | False | String |
| restatable | 资源来源表 | 资源来源表（数据生成时获取） | False | String |
| resdataid | 资源来源主键 | 资源来源主键（数据生成时获取） | False | String |

***不同类型的日志遵循规划格式，保持主结构统一，其他可根据不同日志定义***

## 失败返回

返回错误代码

|  |  |  |
| --- | --- | --- |
| code | 错误代码 | string |
| message | 消息 | string |
| details | 具体错误信息 | String |

**示例：**

**{**

**"code":"OperationProcessingFailed",**

**"message":"操作处理失败！",**

**"details":"执行命令定义时出错。有关详细信息，请参阅内部异常。\r\n ORA-00972: 标识符过长"**

**}**

## IndexerService索引数据服务

|  |
| --- |
| 索引数据服务控制器 |

### Insert

|  |
| --- |
| 插入索引 |

* **链接地址：api** **/** **IndexerService/Insert**
* **请求方式：POST**
* **参数说明：**

IndexInsertRequest<Metadata>

| Name | Description | Type |
| --- | --- | --- |
| Generation | 是否自动创建索引id | boolean |
| Metadatas | 元数据集合 | Collection of Object 参见 [4.1 参数说明](#_字段说明) |

**Sample:**

{

"**generation**": true,

"**metadatas**": [

{

"iiid": "e106d52a-c5aa-af29-ba5f-c16a92fee5cf",

"indexeddate": "2017-09-07T14:28:45.620",

"thumbnail": null,

"fulltext": null,

"pageid": null,

"dataid": null,

"dsn": null,

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油",

"subject": [ "环保型水基", "钻井液新技术" ],

"abstract": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油。",

"catalogue": "正文",

"author": "张三",

"submitter": "王五",

"auditor": "李四",

"createddate": "2017-09-07T14:28:45.620",

"submitteddate": "2017-09-07T16:52:45.620",

"auditteddate": "2017-09-07T19:16:45.620",

"status": "已审核",

"frequency": null,

"period": null,

"basin": null,

"firstlevel": null,

"secondlevel": null,

"trap": null,

"well": null,

"swa": null,

"miningarea": null,

"cozone": null,

"project": null,

"pc": null,

"pt": "钻探油气新发现情况",

"bd": null,

"bt": null,

"bp": null,

"ba": null,

"bf": null,

"system": "TLMXXGX",

"resourcetype": "动态抓取信息项",

"resourcekey": "新闻发布系统",

"resdb": null,

"restatable": null,

"resdataid": null,

"uid": "PX",

"uname": "潘祥",

"uorganization": "侏罗纪软件",

"udepartment": "知识管理业务部",

"uposition": "项目经理",

"urole": "项目管理"

},

{

"iiid": "6deed17d-e2f8-486f-bc44-40edb52bb06e ",

… //数据元其他元素

},

… //下一组 数据元

]

｝

* **返回：索引ID组**

**Sample:**

[

"b6112e03-36bf-4bbf-b4cf-6b9a9d7aedb2",

"6deed17d-e2f8-486f-bc44-40edb52bb06e",

"796c31fe-e520-47b3-ab0c-4f4607baabe6",

"ad3ddc44-25ad-4a53-9278-f9dd896bd389",

"2b7e2930-5690-42eb-91f3-64f22ae2da82",

"9d583ff0-b24d-4861-805c-578f84a04a01",

"e108ebcc-b19f-4afb-99c0-c4175f522347",

"631661a5-e2c3-4a6b-b424-205b6e39b6f3",

"7fe05403-b5b6-4fb8-b66d-924e98b6f0c1"

]

### Save

|  |
| --- |
| 保存索引 |

* **链接地址：api** **/** **IndexerService/Save**
* **请求方式：POST**
* **参数说明：**

IndexSaveRequest<Metadata>

| Name | Description | Type |
| --- | --- | --- |
| Replace | 是否替换 | boolean |
| Generation | 自动创建索引id | boolean |
| Metadatas | 元数据集合 | Collection of Object |

**Sample:**

{

"**replace** ": true,

"**generation**": true,

"**metadatas**": [

{

"iiid": "e106d52a-c5aa-af29-ba5f-c16a92fee5cf",

"indexeddate": "2017-09-07T14:28:45.620",

"thumbnail": null,

"fulltext": null,

"pageid": null,

"dataid": null,

"dsn": null,

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油",

"subject": [ "环保型水基", "钻井液新技术" ],

"abstract": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油。",

"catalogue": "正文",

"author": "张三",

"submitter": "王五",

"auditor": "李四",

"createddate": "2017-09-07T14:28:45.620",

"submitteddate": "2017-09-07T16:52:45.620",

"auditteddate": "2017-09-07T19:16:45.620",

"status": "已审核",

"frequency": null,

"period": null,

"basin": null,

"firstlevel": null,

"secondlevel": null,

"trap": null,

"well": null,

"swa": null,

"miningarea": null,

"cozone": null,

"project": null,

"pc": null,

"pt": "钻探油气新发现情况",

"bd": null,

"bt": null,

"bp": null,

"ba": null,

"bf": null,

"system": "TLMXXGX",

"resourcetype": "动态抓取信息项",

"resourcekey": "新闻发布系统",

"resdb": null,

"restatable": null,

"resdataid": null,

"uid": "PX",

"uname": "潘祥",

"uorganization": "侏罗纪软件",

"udepartment": "知识管理业务部",

"uposition": "项目经理",

"urole": "项目管理"

},

{

"iiid": "6deed17d-e2f8-486f-bc44-40edb52bb06e ",

… //数据元其他元素

},

… //下一组 数据元

]

｝

* **返回：索引ID组**

**Sample:**

[

"b6112e03-36bf-4bbf-b4cf-6b9a9d7aedb2",

"6deed17d-e2f8-486f-bc44-40edb52bb06e",

"796c31fe-e520-47b3-ab0c-4f4607baabe6",

"ad3ddc44-25ad-4a53-9278-f9dd896bd389",

"2b7e2930-5690-42eb-91f3-64f22ae2da82",

"9d583ff0-b24d-4861-805c-578f84a04a01",

"e108ebcc-b19f-4afb-99c0-c4175f522347",

"631661a5-e2c3-4a6b-b424-205b6e39b6f3",

"7fe05403-b5b6-4fb8-b66d-924e98b6f0c1"

]

### Delete

|  |
| --- |
| 根据ID删除索引 |

* **链接地址：api** **/** **IndexerService/Delete**
* **请求方式：POST**
* **参数说明：要删除的索引ID组**

**Sample:**

[

"80a84801-4b62-4789-8085-9700f50b7b5e",

"dfedbd85-6055-4cfa-9ad9-4d1574589411"

]

* **返回：删除的索引ID组**

**Sample:**

[

"80a84801-4b62-4789-8085-9700f50b7b5e",

"dfedbd85-6055-4cfa-9ad9-4d1574589411"

]

## TopicService信息标题服务

|  |
| --- |
| 搜索信息标题控制器 |

### Search

|  |
| --- |
| 按短语搜索 |

* **链接地址：api** **/** **TopicService/** **Search**
* **请求方式：POST**
* **参数说明：**

SearchRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Sentence | 搜索短语 | string | None. |
| From | 起始索引 | integer | None. |
| Size | 返回结果数量 | integer | None. |
| Filter | 查询条件 | Dictionary of string [key] and Collection of Object [value] | None. |
| Fields | 源字段过滤器 | [SearchSourceFilter](#_SearchSourceFilter) | None. |
| Boost | 提升权重集合(键是字段,值是权重提升) | Dictionary of string [key] and integer [value] | None. |
| Sort | 排序(键是字段,值是顺序,0是升序1是降序) | Collection of [PKSKeyValuePairOfStringAndObject](#_PKSKeyValuePairOfStringAndObject) | None. |
| Group | 分组 | [SearchGroupRules](#_SearchGroupRules) | None. |
| IndexType | 来源类型 | string  枚举值：  xxgxuserlog 信息共享平台用户行为日志  securitylog 油田内部监控日志 | None |

**Sample:**

{

"from": 0,

"size": 10,

"filter": {

"pt": [

"钻探油气新发现情况",

"盆地百科"

]

},

"fields": {

"includes": [

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [

"thumbnail",

"fulltext"

]

},

"boost": {

"title": 10,

"pt": 8

},

"sort": [

{

"key": "createddate.nokey",

"value": 0

}

]

}

* **返回：**

SearchResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Groups | 聚合结果 | Dictionary of string [key] and Dictionary of string [key] and integer [value] [value] | None. |
| Total | 总数 | integer | None. |
| Metadatas | 索引集合 | Collection of Object | None. |

**Sample:**

{

"total": 8,

"metadatas": [

{

"pt": "盆地百科",

"createddate": "2017-03-05T08:00:00.1",

"iiid": "b65ef7ce-b7c1-4377-80be-28a1f0640069",

"title": "塔里木盆地"

},

{

"pt": "盆地百科",

"createddate": "2017-03-05T08:00:00.1",

"iiid": "29b5c40b-3ce5-4ca9-98f3-39155787fc5d",

"title": "塔里木盆地"

},

{

"pt": "盆地百科",

"createddate": "2017-03-05T08:00:00.1",

"iiid": "2b7e2930-5690-42eb-91f3-64f22ae2da82",

"title": "塔里木盆地"

},

{

"pt": "盆地百科",

"createddate": "2017-03-05T08:00:00.1",

"iiid": "c2230640-ee13-46b5-982c-150da3307080",

"title": "塔里木盆地"

},

{

"pt": "钻探油气新发现情况",

"createddate": "2017-09-07T14:28:45.62",

"iiid": "2171cad8-7c36-49f1-a701-3c98e0bcd5a9",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油"

},

{

"pt": "钻探油气新发现情况",

"createddate": "2017-09-07T14:28:45.62",

"iiid": "b6112e03-36bf-4bbf-b4cf-6b9a9d7aedb2",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油"

},

{

"pt": "钻探油气新发现情况",

"createddate": "2017-09-07T14:28:45.62",

"iiid": "aabb5663-fc27-4c95-bb0d-3f9bb9d79e17",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油"

},

{

"pt": "钻探油气新发现情况",

"createddate": "2017-09-07T14:28:45.62",

"iiid": "ab8ff3ff-9980-4745-9b44-d03f850b896c",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油"

}

]

}

### GetTopPic（新增）

|  |
| --- |
| 通过关键字搜索获取信息条目 |

* **链接地址：api** **/** **TopicService/** **GetTopPic**
* **请求方式：POST**
* **参数说明：**

TopicRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| configure | 搜索默认配置 | Collection of Object | None. |
| blocks | 信息栏目-数据请求 | Collection of [BlockRequest](#_BlockRequest) | None. |
| userinfo | 用户信息 | [UserInfoRequest](#_UserInfoRequest) | None. |

**Sample:**

{

"userinfo": {

"id": "",

"name": "",

"organization": "",

"department": "",

"position": "",

"role": [

"",

""

]

},

"configure": {

"from": 0,

"size": 1,

"boost": {

"title": 10,

"pc": 8

},

"filter": {

"\_or": [

{

"filter": {

"pt": [

""

],

"uorganization": [

""

]

},

"\_range": {

"createddate": {

"type": "date",

"gte": "2017-9-24",

"lte": "2017-9-26",

}

}

}

]

},

"sort": [

{

"createddate.nokey": "desc"

},

{

"title": "asc"

}]

},

"blocks": [

{

"blockid": "001",

"blockname": "信息头条",

"tabgroups": [

{

"tabid": "001001",

"tabname": "百科&财务",

"searchtype" : 0,

"query": {

"sentence": "",

"from": 0,

"size": 3,

"fields": {

"includes": [

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [

"thumbnail",

"fulltext"

]

}

}

}

]

},

{

"blockid": "002",

"blockname": "推荐信息",

"tabgroups": [

{

"tabid": "001001",

"tabname": "百科&财务",

"searchtype" : 1,

"query": {

"sentence": "",

"from": 0,

"size": 3,

"fields": {

"includes": [

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [

"thumbnail",

"fulltext"

]

},

"filter": {

"\_or": [

{

"filter": {

"pt": [

""

],

"uorganization": [

""

]

},

"\_range": {

"createddate": {

"type": "date",

"gte": "2017-8-24",

"lte": "2017-9-26",

}

}

}

]

}

}

}

]

}

]

}

* **返回：**

TopicResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blockid | 信息板块 | string | None. |
| tabs | 信息分栏结果 | Collection of [TabResult](#_TabResult) | None. |

**Sample:**

[

{

"blockid": "001",

"tabs": [

{

"total": 1,

"result": [

{

"pt": "油气藏局部构造",

"createddate": "2017-09-25T10:51:46.627",

"iiid": "62cbb12e-aa1a-25d0-cb3a-35d430f87a53",

"title": "南北向叠后时间偏移剖面"

}

],

"tabid": "001001",

"tabname": "百科&财务",

"searchtype": 0

}

]

},

{

"blockid": "002",

"tabs": [

{

"total": 12,

"result": [

{

"pt": "油气藏局部构造",

"createddate": "2017-09-25T10:51:46.627",

"iiid": "62cbb12e-aa1a-25d0-cb3a-35d430f87a53",

"title": "南北向叠后时间偏移剖面"

},

{

"pt": "生油研究烃源岩性质",

"createddate": "2017-09-23T18:24:29.923",

"iiid": "c2d72190-cf98-dad4-7cb4-4582e1a699d8",

"title": "烃源岩综合评价表"

},

{

"pt": "油气藏沉积相平面",

"createddate": "2017-09-20T19:55:39.821",

"iiid": "d689bf23-6a7b-ca46-fccb-4adc99aed0ed",

"title": "分层系沉积相平面展布图"

}

],

"tabid": "001001",

"tabname": "百科&财务",

"searchtype": 1

}

]

}

]

### GetHeadlines

|  |
| --- |
| 获取头条信息条目 |

* **链接地址：api** **/** **TopicService/** **GetHeadlines**
* **请求方式：POST**
* **参数说明：**

TopicRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blocks | 信息栏目-数据请求 | Collection of [BlockRequest](#BlockBase) | None. |
| userinfo | 用户信息 | [UserInfoRequest](#_UserInfoRequest) | None. |

**Sample:**

{

"userinfo": {

"id": "PX",

"name": "潘祥",

"organization": "",

"department": "",

"position": "",

"role": [

"项目管理",

""

]

},

"blocks": [

{

"blockid": "001",

"blockname": "信息头条",

"tabgroups": [

{

"tabid": "001001",

"tabname": "今日热点",

"query": {

"sentence": "",

"fields": {

"includes": [

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [

"thumbnail",

"fulltext"

]

},

"filter": {

"pt": [

"盖层研究百科",

"盆地百科"

]

},

"boost": {

"title": 10,

"pt": 8

},

"from": 0,

"size": 10,

"sort": [

{

"createddate.nokey": "desc"

}

]

}

}

]

}

]

}

* **返回：**

TopicResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blockid | 信息板块 | string | None. |
| tabs | 信息分栏结果 | Collection of [TabResult](#_TabResult) | None. |

**Sample:**

[

{

"blockid": "001",

"tabs": [

{

"total": 0,

"result": [],

"tabid": "001001",

"tabname": "今日热点",

"searchtype": 0

}

]

}

]

### GetHotTopics

|  |
| --- |
| 获取热点信息条目 |

* **链接地址：api** **/** **TopicService/** **GetHotTopics**
* **请求方式：POST**
* **参数说明：**

TopicRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blocks | 信息栏目-数据请求 | Collection of [BlockRequest](#BlockBase) | None. |
| userinfo | 用户信息 | [UserInfoRequest](#_UserInfoRequest) | None. |

**Sample:**

{

"userinfo": {

"id": "PX",

"name": "潘祥",

"organization": "",

"department": "",

"position": "",

"role": [

"项目管理",

""

]

},

"blocks": [

{

"blockid": "001",

"blockname": "信息头条",

"tabgroups": [

{

"tabid": "001001",

"tabname": "今日热点",

"query": {

"sentence": "",

"fields": {

"includes": [

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [

"thumbnail",

"fulltext"

]

},

"filter": {

"pt": [

"盖层研究百科",

"盆地百科"

]

},

"boost": {

"title": 10,

"pt": 8

},

"from": 0,

"size": 10,

"sort": [

{

"createddate.nokey": "desc"

}

]

}

}

]

}

]

}

* **返回：**

TopicResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blockid | 信息板块 | string | None. |
| tabs | 信息分栏结果 | Collection of [TabResult](#_TabResult) | None. |

**Sample:**

[

{

"blockid": "001",

"tabs": [

{

"total": 8,

"result": [

{

"pt": "盖层研究百科",

"createddate": "2017-03-08T08:00:00.1",

"iiid": "7fe05403-b5b6-4fb8-b66d-924e98b6f0c1",

"title": "库车凹陷盖层研究"

},

{

"pt": "盖层研究百科",

"createddate": "2017-03-08T08:00:00.1",

"iiid": "75c60d3d-643b-4229-9d18-d899e11eaf36",

"title": "库车凹陷盖层研究"

},

{

"pt": "盖层研究百科",

"createddate": "2017-03-08T08:00:00.1",

"iiid": "bf045b25-eae3-45c7-924e-b8c06e42dce4",

"title": "库车凹陷盖层研究"

},

{

"pt": "盖层研究百科",

"createddate": "2017-03-08T08:00:00.1",

"iiid": "f89aca38-bc8e-4e78-9570-bcb3a54c58a1",

"title": "库车凹陷盖层研究"

},

{

"pt": "盆地百科",

"createddate": "2017-03-05T08:00:00.1",

"iiid": "b65ef7ce-b7c1-4377-80be-28a1f0640069",

"title": "塔里木盆地"

},

{

"pt": "盆地百科",

"createddate": "2017-03-05T08:00:00.1",

"iiid": "29b5c40b-3ce5-4ca9-98f3-39155787fc5d",

"title": "塔里木盆地"

},

{

"pt": "盆地百科",

"createddate": "2017-03-05T08:00:00.1",

"iiid": "2b7e2930-5690-42eb-91f3-64f22ae2da82",

"title": "塔里木盆地"

},

{

"pt": "盆地百科",

"createddate": "2017-03-05T08:00:00.1",

"iiid": "c2230640-ee13-46b5-982c-150da3307080",

"title": "塔里木盆地"

}

],

"tabid": "001001",

"tabname": "今日热点",

"searchtype": 1

}

]

}

]

### GetRecency

|  |
| --- |
| 获取个人最近浏览条目 |

* **链接地址：api** **/** **TopicService/** **GetRecency**
* **请求方式：POST**
* **参数说明：**

TopicRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blocks | 信息栏目-数据请求 | Collection of [BlockRequest](#BlockBase) | None. |
| userinfo | 用户信息 | [UserInfoRequest](#_UserInfoRequest) | None. |

**Sample:**

{

"userinfo": {

"id": "PX",

"name": "潘祥",

"organization": "",

"department": "",

"position": "",

"role": [

"项目管理",

""

]

},

"blocks": [

{

"blockid": "001",

"blockname": "信息头条",

"tabgroups": [

{

"tabid": "001001",

"tabname": "今日热点",

"query": {

"sentence": "",

"fields": {

"includes": [

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [

"thumbnail",

"fulltext"

]

},

"filter": {

"pt": [

"盖层研究百科",

"盆地百科"

]

},

"boost": {

"title": 10,

"pt": 8

},

"from": 0,

"size": 10,

"sort": [

{

"createddate.nokey": "desc"

}

]

}

}

]

}

]

}

* **返回：**

TopicResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blockid | 信息板块 | string | None. |
| tabs | 信息分栏结果 | Collection of [TabResult](#_TabResult) | None. |

**Sample:**

[

{

"blockid": "001",

"tabs": [

{

"total": 0,

"result": [],

"tabid": "001001",

"tabname": "今日热点",

"searchtype": 0

}

]

}

]

### GetYourLikes

|  |
| --- |
| 获取猜你喜欢推荐条目 |

* **链接地址：api** **/** **TopicService/** **GetYourLikes**
* **请求方式：POST**
* **参数说明：**

TopicRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blocks | 信息栏目-数据请求 | Collection of [BlockRequest](#BlockBase) | None. |
| userinfo | 用户信息 | [UserInfoRequest](#_UserInfoRequest) | None. |

**Sample:**

{

"userinfo": {

"id": "PX",

"name": "潘祥",

"organization": "",

"department": "",

"position": "",

"role": [

"项目管理",

""

]

},

"blocks": [

{

"blockid": "001",

"blockname": "信息头条",

"tabgroups": [

{

"tabid": "001001",

"tabname": "今日热点",

"query": {

"sentence": "",

"fields": {

"includes": [

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [

"thumbnail",

"fulltext"

]

},

"filter": {

"pt": [

"盖层研究百科",

"盆地百科"

]

},

"boost": {

"title": 10,

"pt": 8

},

"from": 0,

"size": 10,

"sort": [

{

"createddate.nokey": "desc"

}

]

}

}

]

}

]

}

* **返回：**

TopicResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blockid | 信息板块 | string | None. |
| tabs | 信息分栏结果 | Collection of [TabResult](#_TabResult) | None. |

**Sample:**

[

{

"blockid": "001",

"tabs": [

{

"total": 0,

"result": [],

"tabid": "001001",

"tabname": "今日热点",

"searchtype": 0

}

]

}

]

### GetRelTopics

|  |
| --- |
| 获取关联推荐信息条目 |

* **链接地址：api** **/** **TopicService/** **GetRelTopics**
* **请求方式：POST**
* **参数说明：**

TopicRelationRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| masterdata | 主数据体 主要包含iiid、研究目标或其他业务板块目标 "masterdata": { "iiid": "80a84801-4b62-4789-8085-9700f50b7b5e", "well": "库101" "pt": "钻井日报" } | Collection of Object  参见：[4.1 字段说明](#_Toc496436801) | None. |
| masterfields | 主数据字段（选择影响结果的主数据字段集合） | Collection of string | None. |
| relationfields | 关联数据字段（语义关联的字段） | Collection of string | None. |
| relationsymbol | 关联逻辑操作符 | string | None. |
| intelligent | 是否启用语义联想，如果不启用则根据获取主数据字段匹配关联数据字段 "intelligent": true | boolean | None. |
| query | 信息搜索query | Collection of Object | None. |
| userinfo | 用户信息 | [UserInfoRequest](#_UserInfoRequest) | None. |

**Sample:**

{

"userinfo": {

"id": "",

"name": "",

"organization": "",

"department": "",

"position": "",

"role": [

"",

""

]

},

"masterdata": {

"iiid": ["6fcce534-0dd5-eef6-6abf-53b8b4dcf844"]

},

"masterfields": [ ],

"relationfields": [ "pc", "pt", "bd" ],

"relationsymbol": "$or",

"intelligent": true,

"query": {

"fields": {

"includes": [

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [

"thumbnail",

"fulltext"

]

},

"filter": {

},

"boost": {

},

"from": 0,

"size": 20,

"sort": [

]

}

}

* **返回：**

TopicStandResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| total | 返回结果条目数 | decimal number | None. |
| result | 返回结果集合 | Object | None. |

**Sample:**

{

"total": 11,

"result": [

{

"pt": "盆地烃源岩性质",

"createddate": "2017-03-28T20:34:44.285",

"iiid": "58cedb2e-9da4-fc45-fe1a-9551f4a9a68f",

"title": "盆地海相烃源岩层位及总体特征表"

},

{

"pt": "盆地烃源岩性质",

"createddate": "2015-09-07T19:42:31.248",

"iiid": "6221093f-c44c-00a9-e1d0-9d3e7cd90854",

"title": "盆地陆相烃源岩层位及总体特征表"

},

{

"pt": "盆地烃源岩性质",

"createddate": "2017-05-07T20:54:19.325",

"iiid": "6fcce534-0dd5-eef6-6abf-53b8b4dcf844",

"title": "盆地烃源岩有机碳（TOC）含量等值线图"

},

{

"pt": "盆地烃源岩性质",

"createddate": "2015-10-07T10:52:47.021",

"iiid": "3892f196-c189-df06-cb13-45d4ec5ca316",

"title": "盆地烃源岩Ro等值线图"

},

{

"pt": "盆地烃源岩性质",

"createddate": "2017-05-03T14:17:52.541",

"iiid": "0a1a2d2b-ae9c-85a6-404b-75e255cd4bf9",

"title": "盆地烃源岩干酪根类型分析图"

},

{

"pt": "盆地烃源岩性质",

"createddate": "2015-01-28T17:02:12.077",

"iiid": "5d8d65f4-b3c3-7bd0-7a93-9ca524df69ff",

"title": "盆地烃源岩综合评价表"

},

{

"pt": "盆地烃源岩分布",

"createddate": "2017-02-08T19:51:20.102",

"iiid": "37fb94ce-35a2-affe-77fe-afba69ba5e67",

"title": "盆地海相烃源岩平面分布图"

},

{

"pt": "盆地烃源岩分布",

"createddate": "2014-12-02T20:55:32.938",

"iiid": "f7a11bb4-aaf8-578a-b0bb-2cfb0cf4f2ec",

"title": "盆地陆相烃源岩平面分布图"

},

{

"pt": "盆地模拟",

"createddate": "2017-09-18T22:01:57.706",

"iiid": "fed847eb-34d3-cc6d-de76-dd1fc5a40382",

"title": "盆地R0－H关系图/热演化阶段特征图"

},

{

"pt": "盆地模拟",

"createddate": "2017-07-24T21:14:08.275",

"iiid": "aa81a1fc-f0ad-ef6b-26e5-7cf0892c7393",

"title": "盆地烃源岩热演化史（Ro,TTI)及生排烃史剖面图"

},

{

"pt": "盆地模拟",

"createddate": "2016-09-03T19:58:00.739",

"iiid": "73dd5ced-2877-636a-0f0c-2459483ef493",

"title": "盆地重点井埋藏史剖面图"

}

]

}

### GetBlockTopics

|  |
| --- |
| 获取信息板块条目列表 |

* **链接地址：api** **/** **TopicService/** **GetBlockTopics**
* **请求方式：POST**
* **参数说明：**

TopicRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blocks | 信息栏目-数据请求 | Collection of [BlockRequest](#BlockBase) | None. |
| userinfo | 用户信息 | [UserInfoRequest](#_UserInfoRequest) | None. |

**Sample:**

{

"userinfo": {

"id": "PX",

"name": "潘祥",

"organization": "侏罗纪软件",

"department": "",

"position": "",

"role": [

"项目管理",

""

]

},

"blocks": [

{

"blockid": "001",

"blockname": "信息头条",

"tabgroups": [

{

"tabid": "001001",

"tabname": "百科&财务",

"query": {

"fields": {

"includes": [

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [

"thumbnail",

"fulltext"

]

},

"filter": {

"$or": [

{

"filter": {

"pt": [

"钻探油气新发现情况",

"盖层研究百科",

"沉积研究百科"

],

"uorganization": [

"侏罗纪软件"

]

}

},

{

"filter": {

"pc": [

"财务"

],

"uorganization": [

"普联软件"

]

}

}

]

},

"from": 0,

"size": 6,

"boost": {

"title": 10,

"pc": 8

},

"sort": [

{

"createddate.nokey": "desc"

},

{

"title": "asc"

}

]

}

}

]

}

]

}

* **返回：**

TopicResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blockid | 信息板块 | string | None. |
| tabs | 信息分栏结果 | Collection of [TabResult](#_TabResult) | None. |

**Sample:**

[

{

"blockid": "001",

"tabs": [

{

"total": 24,

"result": [

{

"pt": "钻探油气新发现情况",

"createddate": "2017-09-07T14:28:45.62",

"iiid": "2171cad8-7c36-49f1-a701-3c98e0bcd5a9",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油"

},

{

"pt": "钻探油气新发现情况",

"createddate": "2017-09-07T14:28:45.62",

"iiid": "b6112e03-36bf-4bbf-b4cf-6b9a9d7aedb2",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油"

},

{

"pt": "钻探油气新发现情况",

"createddate": "2017-09-07T14:28:45.62",

"iiid": "aabb5663-fc27-4c95-bb0d-3f9bb9d79e17",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油"

},

{

"pt": "钻探油气新发现情况",

"createddate": "2017-09-07T14:28:45.62",

"iiid": "ab8ff3ff-9980-4745-9b44-d03f850b896c",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油"

},

{

"pt": "沉积研究百科",

"createddate": "2017-03-09T08:00:00.1",

"iiid": "31acc496-761b-4177-abe6-e8afe765cdbb",

"title": "塔里木盆地白垩系沉积研究"

},

{

"pt": "沉积研究百科",

"createddate": "2017-03-09T08:00:00.1",

"iiid": "631661a5-e2c3-4a6b-b424-205b6e39b6f3",

"title": "塔里木盆地白垩系沉积研究"

}

],

"tabid": "001001",

"tabname": "百科&财务",

"searchtype": 0

}

]

}

]

### BlockTopicWrapper

|  |
| --- |
| 获取头条信息条目 |

* **链接地址：api** **/** **TopicService/** **BlockTopicWrapper**
* **请求方式：POST**
* **参数说明：**

TopicRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blocks | 信息栏目-数据请求 | Collection of [BlockRequest](#BlockBase) | None. |
| userinfo | 用户信息 | [UserInfoRequest](#_UserInfoRequest) | None. |

**Sample:**

/\*

\* API/TopicService/GetBlockTopics 请求参数

\*/

{

"userinfo": {

"id": "PX",

"name": "潘祥",

"organization": "侏罗纪软件",

"department": "",

"position": "",

"role": [

"项目管理",

""

]

},

"blocks": [

{

"blockid": "001",

"blockname": "门户首页综合版块",

"tabgroups": [

{

"tabid": "001001",

"tabname": "热点信息",

"searchtype": "GetHotTopics",

"query": {

"sentence": "", //可选 短语关键字

"fields": {

"includes": [ //结果包含字段

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [ //可选 结果不包含字段

"thumbnail",

"fulltext"

]

},

"filter": { //过滤条件

"$or": [ //数组中的多条件的或关系 操作符为 $or $and $not

{

"filter": { //过滤条件

"pt": [

"钻探油气新发现情况",

"盖层研究百科",

"沉积研究百科"

],

"uorganization": [

"侏罗纪软件"

]

}

},

{

"filter": { //过滤条件

"pc": [

"财务"

],

"uorganization": [

"普联软件"

]

}

}

]

},

"from": 0,

"size": 6,

"boost": { //排序权重

"title": 10,

"pt": 8

},

"sort": [ //排序

{

"pt": "asc"

},

{

"title": "desc"

}

]

}

},

{

"tabid": "001002",

"tabname": "最近浏览",

"searchtype": "GetRecency",

"query": {

"sentence": "", //可选 短语关键字

"fields": {

"includes": [ //结果包含字段

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [ //可选 结果不包含字段

"thumbnail",

"fulltext"

]

},

"filter": { //过滤条件

"$or": [//数组中的多条件的或关系 操作符为 $or $and $not

{

"filter": { //过滤条件

"pt": [

"钻探油气新发现情况",

"盖层研究百科",

"沉积研究百科"

],

"uorganization": [

"侏罗纪软件"

]

}

},

{

"filter": { //过滤条件

"pc": [

"财务"

],

"uorganization": [

"普联软件"

]

}

}

]

},

"from": 0,

"size": 6,

"boost": { //排序权重

"title": 10,

"pt": 8

},

"sort": [ //排序

{

"pt": "asc"

},

{

"title": "desc"

}

]

}

},

{

"tabid": "001003",

"tabname": "猜你喜欢",

"searchtype": "GetYourLikes",

"query": {

"sentence": "", //可选 短语关键字

"fields": {

"includes": [ //结果包含字段

"pt",

"iiid",

"title",

"createddate"

],

"excludes": [ //可选 结果不包含字段

"thumbnail",

"fulltext"

]

},

"filter": { //过滤条件

"$or": [//数组中的多条件的或关系 操作符为 $or $and $not

{

"filter": { //过滤条件

"pt": [

"钻探油气新发现情况",

"盖层研究百科",

"沉积研究百科"

],

"uorganization": [

"侏罗纪软件"

]

}

},

{

"filter": { //过滤条件

"pc": [

"财务"

],

"uorganization": [

"普联软件"

]

}

}

]

},

"from": 0,

"size": 6,

"boost": { //排序权重

"title": 10,

"pt": 8

},

"sort": [ //排序

{

"pt": "asc"

},

{

"title": "desc"

}

]

}

}

]

}

]

}

* **返回：**

TopicResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blockid | 信息板块 | string | None. |
| tabs | 信息分栏结果 | Collection of [TabResult](#_TabResult) | None. |

**Sample:**

[

{

"blockid": "001",

"tabs": [

{

"total": 24,

"result": [

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "d5811e17-956e-417c-b444-e056df00c245",

"title": "库车凹陷"

},

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "75c61591-5432-42af-bf87-ac4d63693d1f",

"title": "库车凹陷"

},

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "9d583ff0-b24d-4861-805c-578f84a04a01",

"title": "库车凹陷"

},

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "318f40a4-72a9-40d4-8f83-764ece2ec6d9",

"title": "库车凹陷"

},

{

"pt": "构造研究百科",

"createddate": "2017-03-08T08:00:00.1",

"iiid": "f83489d5-9a8c-4571-8017-fb185ba91989",

"title": "克深2气藏"

},

{

"pt": "构造研究百科",

"createddate": "2017-03-08T08:00:00.1",

"iiid": "e108ebcc-b19f-4afb-99c0-c4175f522347",

"title": "克深2气藏"

}

],

"tabid": "001001",

"tabname": "热点信息",

"searchtype": 1

},

{

"total": 24,

"result": [

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "d5811e17-956e-417c-b444-e056df00c245",

"title": "库车凹陷"

},

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "75c61591-5432-42af-bf87-ac4d63693d1f",

"title": "库车凹陷"

},

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "9d583ff0-b24d-4861-805c-578f84a04a01",

"title": "库车凹陷"

},

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "318f40a4-72a9-40d4-8f83-764ece2ec6d9",

"title": "库车凹陷"

},

{

"pt": "构造研究百科",

"createddate": "2017-03-08T08:00:00.1",

"iiid": "f83489d5-9a8c-4571-8017-fb185ba91989",

"title": "克深2气藏"

},

{

"pt": "构造研究百科",

"createddate": "2017-03-08T08:00:00.1",

"iiid": "e108ebcc-b19f-4afb-99c0-c4175f522347",

"title": "克深2气藏"

}

],

"tabid": "001002",

"tabname": "最近浏览",

"searchtype": 2

},

{

"total": 24,

"result": [

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "d5811e17-956e-417c-b444-e056df00c245",

"title": "库车凹陷"

},

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "75c61591-5432-42af-bf87-ac4d63693d1f",

"title": "库车凹陷"

},

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "9d583ff0-b24d-4861-805c-578f84a04a01",

"title": "库车凹陷"

},

{

"pt": "一级构造百科",

"createddate": "2017-03-06T08:00:00.1",

"iiid": "318f40a4-72a9-40d4-8f83-764ece2ec6d9",

"title": "库车凹陷"

},

{

"pt": "构造研究百科",

"createddate": "2017-03-08T08:00:00.1",

"iiid": "f83489d5-9a8c-4571-8017-fb185ba91989",

"title": "克深2气藏"

},

{

"pt": "构造研究百科",

"createddate": "2017-03-08T08:00:00.1",

"iiid": "e108ebcc-b19f-4afb-99c0-c4175f522347",

"title": "克深2气藏"

}

],

"tabid": "001003",

"tabname": "猜你喜欢",

"searchtype": 3

}

]

}

]

### SetHeadlineFlag

|  |
| --- |
| 设置信息条目头条标记 |

* **链接地址：api** **/** **TopicService/** **SetHeadlineFlag**
* **请求方式：POST**
* **参数说明：索引ID数组**

**Sample:**

[

"8f1879ea-4d45-4653-b052-8a05ddd3fbf7",

"b1f596ea-9947-4606-87b2-3f059c4533db"

]

* **返回：成功索引ID数组**

**Sample:**

[

"8f1879ea-4d45-4653-b052-8a05ddd3fbf7",

"b1f596ea-9947-4606-87b2-3f059c4533db"

]

## UserBehaviorService用户行为服务

|  |
| --- |
| 用于提供信息标题检索服务 |

### AnaHotTopics

|  |
| --- |
| 用于提供信息标题检索服务，返回热点标题 |

* **链接地址：api/UserBehaviorService/AnaHotTopics**
* **请求方式：POST**
* **参数说明：**

AnaHotTopicsRequest 分析热点条目请求体

| **Name** | **Description** | **Type** |
| --- | --- | --- |
| blockinfo | 板块编号 | [BlockBase](#_BlockBase) |
| analysis | 分析项 | Dictionary of string [key] and Object [value] |
| resultlimit | 限制返回结果数量 | integer |
| id | 用户编号 | string |
| name | 用户名称 | string |
| organization | 用户单位 | string |
| department | 用户部门 | string |
| position | 用户岗位 | string |
| role | 用户角色（数组） | Collection of string |

**举例:**

{

"blockinfo": {

"blockid": "sample string 1",

"blockname": "sample string 2"

},

"analysis": {

"sample string 1": {},

"sample string 3": {}

},

"resultlimit": 1,

"id": "sample string 2",

"name": "sample string 3",

"organization": "sample string 4",

"department": "sample string 5",

"position": "sample string 6",

"role": [

"sample string 1",

"sample string 2"

]

}

* **返回：**

AnaHotTopicsResult

| Name | Description | Type |
| --- | --- | --- |
| result | 分析结果 | Collection of [AnaResult4HotTopic](#AnaResult4HotTopic) |
| success | 是否成功 | boolean |
| code | 错误代码 | string |
| message | 消息 | string |
| total | 条数 | decimal number |

**示例:**

{

"result": [

{

"word": "sample string 1",

"score": 1.1,

"idf": 1.1,

"docFreq": 2.1,

"tf": 3.1

},

{

"word": "sample string 1",

"score": 1.1,

"idf": 1.1,

"docFreq": 2.1,

"tf": 3.1

}

],

"success": true,

"code": "sample string 2",

"message": "sample string 3",

"total": 1.1

}

### AnaYourLikes

|  |
| --- |
| 用于供信息标题检索服务，返回你喜欢的标题 |

* **链接地址：api/UserBehaviorService/AnaYourLikes**
* **请求方式：POST**
* **参数说明：**

AnaYourLikesRequest

| Name | Description | Type |
| --- | --- | --- |
| analysis | 分析项 | Dictionary of string [key] and Object [value] |
| resultlimit | 限制返回结果数量 | integer |
| id | 用户编号 | string |
| name | 用户名称 | string |
| organization | 用户单位 | string |
| department | 用户部门 | string |
| position | 用户岗位 | string |
| role | 用户角色（数组） | Collection of string |

**举例:**

{

"analysis": {

"sample string 1": {},

"sample string 3": {}

},

"resultlimit": 1,

"id": "sample string 2",

"name": "sample string 3",

"organization": "sample string 4",

"department": "sample string 5",

"position": "sample string 6",

"role": [

"sample string 1",

"sample string 2"

]

}

* **返回：**

AnaYourLikesResult

| Name | Description | Type |
| --- | --- | --- |
| result | 结果数据题 | Collection of string |
| success | 是否成功 | boolean |
| code | 调用代码 | string |
| message | 错误消息 | string |
| total |  | decimal number |

**Sample:**

{

"result": [

"sample string 1",

"sample string 2"

],

"success": true,

"code": "sample string 2",

"message": "sample string 3",

"total": 1.1

}

## SecurityService安全服务

|  |
| --- |
| 用以提供用户登录，注销，获取权限等功能 |

### ~~Login（撤销）~~

|  |
| --- |
| 用户登录 |

* **链接地址：api** **/SecurityService/Login**
* **请求方式：POST**
* **参数说明：**

LoginRequest

| Name | Description | Type |
| --- | --- | --- |
| AppCode | 当前系统代码 | string |
| UserName | 用户名称 | string |
| Password | 用户密码 | string |
| AuthenticationType | 认证方式 | [AuthenticationType](#AuthenticationType) |
| UserHostAddress | 客户端Host | string |

**Sample:**

{

"appCode": "sample string 1",

"userName": "sample string 2",

"password": "sample string 3",

"authenticationType": "Form",

"userHostAddress": "sample string 4"

}

* **返回：**

LoginResult

| Name | Description | Type |
| --- | --- | --- |
| Success | 是否成功 | boolean |
| ErrorMessage | 错误信息 | string |
| Token | 认证令牌 | string |
| Principal | 用户身份 | [IPKSPrincipal](#IPKSPrincipal) |

**Sample:**

{

"success": true,

"errorMessage": "sample string 2",

"token": "sample string 3"

}

### ~~GetPrincipal（撤销）~~

|  |
| --- |
| 获取登录用户信息 |

* **链接地址：api/** **SecurityService/GetPrincipal**
* **请求方式：GET**
* **参数说明：无**
* **返回：** [IPKSPrincipal](#IPKSPrincipal)

### ~~Logout（撤销）~~

|  |
| --- |
| 注销用户 |

* **链接地址：api/SecurityService/Logout**
* **请求方式：GET**
* **参数说明：无**
* **返回：**按短语搜索AnaHotTopics

|  |
| --- |
| 用于供信息标题检索服务 |

* **链接地址：api/UserBehaviorService/AnaHotTopics**
* **请求方式：POST**
* **参数说明：**

AnaHotTopicsRequest 分析热点条目请求体

| **Name** | **Description** | **Type** |
| --- | --- | --- |
| blockinfo | 板块编号 | [BlockBase](#_BlockBase) |
| analysis | 分析项 | Dictionary of string [key] and Object [value] |
| resultlimit | 限制返回结果数量 | integer |
| id | 用户编号 | string |
| name | 用户名称 | string |
| organization | 用户单位 | string |
| department | 用户部门 | string |
| position | 用户岗位 | string |
| role | 用户角色（数组） | Collection of string |

**举例:**

{

"blockinfo": {

"blockid": "sample string 1",

"blockname": "sample string 2"

},

"analysis": {

"sample string 1": {},

"sample string 3": {}

},

"resultlimit": 1,

"id": "sample string 2",

"name": "sample string 3",

"organization": "sample string 4",

"department": "sample string 5",

"position": "sample string 6",

"role": [

"sample string 1",

"sample string 2"

]

}

* **返回：**

AnaHotTopicsResult

| Name | Description | Type |
| --- | --- | --- |
| result | 分析结果 | Collection of [AnaResult4HotTopic](#AnaResult4HotTopic) |
| success | 是否成功 | boolean |
| code | 错误代码 | string |
| message | 消息 | string |
| total | 条数 | decimal number |

**示例:**

{

"result": [

{

"word": "sample string 1",

"score": 1.1,

"idf": 1.1,

"docFreq": 2.1,

"tf": 3.1

},

{

"word": "sample string 1",

"score": 1.1,

"idf": 1.1,

"docFreq": 2.1,

"tf": 3.1

}

],

"success": true,

"code": "sample string 2",

"message": "sample string 3",

"total": 1.1

}

### ~~GetPortalMenu（撤销）~~

|  |
| --- |
| 获得指定角色或登录用户角色的门户菜单 |

* **链接地址：api/SecurityService/GetPortalMenu**
* **请求方式：GET**
* **参数说明：无**
* **返回：**

PortalMenu

| Name | Description | Type |
| --- | --- | --- |
| DefaultUrl | 角色默认打开的菜单 | string |
| Menus | 角色有权限的菜单信息集合 | Collection of [MenuInfo](#MenuInfo) |

**示例:**

### ~~GetPermission（撤销）~~

|  |
| --- |
| 获得指定用户的权限集合 |

* **链接地址：api/** **SecurityService/GetPermissions**
* **请求方式：GET**
* **参数说明：无**
* **返回： Dictionary of string [key] and boolean [value]**

**示例:**

{

"sample string 1": true,

"sample string 3": true

}

### ~~ClearCache（撤销）~~

|  |
| --- |
| 清空外部缓存 |

* **链接地址：api/** **SecurityService/ClearCache**
* **请求方式：GET**
* **参数说明：无**
* **返回：无**

## SemanticService语义服务

|  |
| --- |
| 语义服务控制器 |

### GetTermInfo

|  |
| --- |
| 根据叙词名称获得指定概念类的叙词信息 |

* **链接地址：api** **/** **SemanticService/** **GetTermInfo**
* **请求方式：POST**
* **参数说明：**

GetTermInfoRequest

| Name | Description | Type |
| --- | --- | --- |
| term | 指定的正式叙词列表 | Collection of string |
| cc | 指定的返回词项的类型 | string |

**Sample:**

{

"term": [

"射孔数据", "试油"

]

,

"cc": "PC"

}

* **返回：**

TermInfo

| Name | Description | Type |
| --- | --- | --- |
| termclassid | 叙词ID | globally unique identifier |
| cccode | 概念类编码 | string |
| term | 叙词名称 | string |
| pathterm | 叙词路径 | string |
| source | 叙词来源 | string |
| description | 叙词描述 | string |
| remark | 备注信息 | string |
| cc | 叙词所属概念类 | string |

**Sample:**

[

{

"termclassid": "306df7a9-c0ce-49fd-aee4-23f058147930",

"cccode": "PC",

"term": "试油",

"pathterm": "试油",

"source": "侏罗纪",

"description": "描述"

}

]

### Hierarchy

|  |
| --- |
| 根据叙词id返回对应的子树的层级结构，并限定返回叙词的概念类 |

* **链接地址：**

**api** **/** **SemanticService/** **Hierarchy/** **{Id}?Cc={Cc}&DeepLevel={DeepLevel}**

* **请求方式：GET**
* **参数说明：**

URI Parameters

| Name | Description | Type |
| --- | --- | --- |
| id | 叙词ID | string |
| cc | 指定关系叙词的概念类 | string |
| deeplevel | 返回树的层级 | integer |

**Sample:**

* **返回：**

TreeResult

| Name | Description | Type |
| --- | --- | --- |
| TreeItems | 树节点集合 | Collection of [TreeItem](#_TreeItem) |

**Sample:**

[

{

"termclassid": "306df7a9-c0ce-49fd-aee4-23f058147930",

"cccode": "PC",

"term": "试油",

"pathterm": "试油",

"source": "侏罗纪",

"description": "描述"

}

]

### GetCC

|  |
| --- |
| 获取所有的概念类 |

* **链接地址：api** **/** **SemanticService/** **GetCC**
* **请求方式：GET**
* **参数说明：无**
* **返回：**

ConceptClass

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| cccode | 概念类编码 | string | None. |
| cc | 概念类名称 | string | None. |
| tag | 概念类标签 | string | None. |
| type | 概念类类型 | string | None. |

**Sample:**

[

{

"cccode": "TL",

"cc": "信息编目/工具",

"tag": "TL"

},

{

"cccode": "PT",

"cc": "信息编目/成果类型",

"tag": "PT"

},

{

"cccode": "null"

},

…

…

{

"cccode": "PC",

"cc": "信息编目/资料类别",

"tag": "PC"

}

]

### GetSemanticsType

|  |
| --- |
| 获取所有语义关系类型 |

* **链接地址：api** **/** **SemanticService/** **GetSemanticsType**
* **请求方式：GET**
* **参数说明：无**
* **返回：**

SemanticsType

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| sr | 语义关系类型 | string | None. |
| cccode1 | 概念类编码1 | string | None. |
| cccode2 | 概念类编码2 | string | None. |
| description | 语义关系类型描述 | string | None. |
| remark | 备注信息 | string | None. |

**Sample:**

[

{

"sr": "R\_PC\_XF\_PT",

"cccode1": "PC",

"cccode2": "PT",

"description": "资料类别下分条目分类"

},

{

"sr": "Z",

"description": "族首字/等级关系"

},

{

"sr": "Y",

"description": "叙词/等同关系"

},

{

"sr": "S",

"description": "上位叙词/等级关系"

},

{

"sr": "R\_TL\_XF\_TL",

"cccode1": "TL",

"cccode2": "TL",

"description": "工具下分工具"

},

…

…

{

"sr": "R\_BF\_MS\_PT",

"cccode1": "BF",

"cccode2": "PT",

"description": "业务特征描述成果类型"

}

]

### Semantics

|  |
| --- |
| 获取语义关系 |

* **链接地址：**

**api** **/** **SemanticService/** **Semantics**

**1）单个/明确指定关系：?Term={Term}&SR={SR}&Direction={Direction}**

**2）单个/所有关系：?term={term}**

**3）多组所有关系：POST 传递叙词信息组 例如：["钻井"]**

* **请求方式：GET**
* **参数说明：**

URI Parameters

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| term | 叙词信息 | string | None. |
| sr | 语义关系类型 | string | None. |
| direction | 语义关系类型描述 | string | None. |

**Sample:**

http://localhost:9901/API/SemanticService/Semantics?term=储层评价&sr=R\_BP\_CS\_PT&direction=forward

* **返回：**

TermInfo

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| termclassid | 叙词ID | globally unique identifier | None. |
| cccode | 概念类编码 | string | None. |
| term | 叙词名称 | string | None. |
| pathterm | 叙词路径 | string | None. |
| source | 叙词来源 | string | None. |
| description | 叙词描述 | string | None. |
| remark | 备注信息 | string | None. |
| cc | 叙词所属概念类 | string | None. |

* **Sample:**

[

{

"termclassid": "5052911e-b922-46be-aa47-6b8e11d93b37",

"cccode": "BP",

"term": "有利相带分析",

"pathterm": "油气田勘探/储层评价/有利相带分析",

"source": "油气田勘探",

"description": "描述"

},

{

"termclassid": "df168638-b649-4e4c-9771-69efa8d90074",

"cccode": "BF",

"term": "储层物性、沉积相带、储层评价",

"pathterm": "油气田勘探/储层评价/储层物性、沉积相带、储层评价",

"source": "油气田勘探",

"description": "描述"

},

…

…

{

"termclassid": "06faba59-1083-481d-bfec-a310ee0d1763",

"cccode": "BF",

"term": "成岩作用、储层评价",

"pathterm": "油气田勘探/储层评价/成岩作用、储层评价",

"source": "油气田勘探",

"description": "描述"

}

]

### GetDictionary

|  |
| --- |
| 获得指定类型词库 |

* **链接地址：api** **/** **SemanticService/** **GetDictionary**
* **请求方式：POST**
* **参数说明：**

GetDictionaryRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| cc | 叙词所属概念类 | Collection of string | None. |

**Sample:**

{

"cc": [

"PC", "PT"

]

}

* **返回：**

**Sample:**

[

"单井沉积相柱状图",

"单井细分层数据表",

"碎屑岩荧光薄片鉴定孔隙数据",

"地震相、沉积相、储层物性对应表",

"渗透率直方图",

…

…

"气层分组数据"

]

## SearchService搜索服务

|  |
| --- |
| 搜索服务控制器 |

### Search

|  |
| --- |
| 按短语搜索 |

* **链接地址：api** **/** **SearchService/** **Search**
* **请求方式：POST**
* **参数说明：**

SearchRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Sentence | 搜索短语 | string | None. |
| From | 起始索引 | integer | None. |
| Size | 返回结果数量 | integer | None. |
| Filter | 查询条件 | Dictionary of string [key] and Collection of Object [value] | None. |
| Fields | 源字段过滤器 | [SearchSourceFilter](#_SearchSourceFilter) | None. |
| Boost | 提升权重集合(键是字段,值是权重提升) | Dictionary of string [key] and integer [value] | None. |
| Sort | 排序(键是字段,值是顺序,0是升序1是降序) | Collection of [PKSKeyValuePairOfStringAndObject](#_PKSKeyValuePairOfStringAndObject) | None. |
| Group | 分组 | [SearchGroupRules](#_SearchGroupRules) | None. |

**Sample:**

{

"sentence": "sample string 1",

"from": 2,

"size": 3,

"filter": {

"sample string 1": [

{},

{}

],

"sample string 2": [

{},

{}

]

},

"fields": {

"includes": [

"sample string 1",

"sample string 2"

],

"excludes": [

"sample string 1",

"sample string 2"

]

},

"boost": {

"sample string 1": 2,

"sample string 3": 4

},

"sort": [

{

"key": "sample string 1",

"value": {}

},

{

"key": "sample string 1",

"value": {}

}

],

"group": {

"top": 1,

"fields": [

"sample string 1",

"sample string 2"

]

}

}

* **返回：**

SearchResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Groups | 聚合结果 | Dictionary of string [key] and Dictionary of string [key] and integer [value] [value] | None. |
| Total | 总数 | integer | None. |
| Metadatas | 索引集合 | Collection of Object | None. |

**Sample:**

{

"groups": {

"sample string 1": {

"sample string 1": 1,

"sample string 2": 1

},

"sample string 2": {

"sample string 1": 1,

"sample string 2": 1

}

},

"total": 1

}

### ESSearch

|  |
| --- |
| 按短语搜索 |

* **链接地址：api** **/** **SearchService/** **ESSearch**
* **请求方式：POST**
* **参数说明：**

**Sample:**

{

"\_source": [

"iiid",

"title",

"indexeddate"

],

"query": {

"match": {

"pt.keyword": "钻探油气新发现情况"

}

},

"size": 10,

"sort": [

{

"indexeddate": {

"order": "desc"

}

}

]

}

* **返回：**

**Sample:**

{

"took": 10,

"timed\_out": false,

"\_shards": {

"total": 5,

"successful": 5,

"failed": 0

},

"hits": {

"total": 4,

"max\_score": null,

"hits": [

{

"\_index": "tlm-xxgx-indexing",

"\_type": "metadata",

"\_id": "ab8ff3ff-9980-4745-9b44-d03f850b896c",

"\_score": null,

"\_source": {

"iiid": "ab8ff3ff-9980-4745-9b44-d03f850b896c",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油",

"indexeddate": "2017-10-22T04:27:16.3219134Z"

},

"sort": [

1508646436321

]

},

{

"\_index": "tlm-xxgx-indexing",

"\_type": "metadata",

"\_id": "aabb5663-fc27-4c95-bb0d-3f9bb9d79e17",

"\_score": null,

"\_source": {

"iiid": "aabb5663-fc27-4c95-bb0d-3f9bb9d79e17",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油",

"indexeddate": "2017-10-22T04:25:02.6397252Z"

},

"sort": [

1508646302639

]

},

{

"\_index": "tlm-xxgx-indexing",

"\_type": "metadata",

"\_id": "b6112e03-36bf-4bbf-b4cf-6b9a9d7aedb2",

"\_score": null,

"\_source": {

"iiid": "b6112e03-36bf-4bbf-b4cf-6b9a9d7aedb2",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油",

"indexeddate": "2017-10-22T04:23:14.968639Z"

},

"sort": [

1508646194968

]

},

{

"\_index": "tlm-xxgx-indexing",

"\_type": "metadata",

"\_id": "2171cad8-7c36-49f1-a701-3c98e0bcd5a9",

"\_score": null,

"\_source": {

"iiid": "2171cad8-7c36-49f1-a701-3c98e0bcd5a9",

"title": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油",

"indexeddate": "2017-10-21T08:52:37.7665697Z"

},

"sort": [

1508575957766

]

}

]

}

}

### Match

|  |
| --- |
| 按完全匹配条件搜索 |

* **链接地址：api** **/** **SearchService/** **Match**
* **请求方式：POST**
* **参数说明：**

MatchRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Top | 返回结果数量 | integer | None. |
| Filter | 查询条件 | Dictionary of string [key] and Collection of Object [value] | None. |
| Fields | 源字段过滤器 | [SearchSourceFilter](#_SearchSourceFilter) | None. |
| Sort | 排序(键是字段,值是顺序,0是升序1是降序) | Collection of  [PKSKeyValuePairOfStringAndObject](#_PKSKeyValuePairOfStringAndObject) | None. |

* **Sample:**

{

"sentence": "sample string 1",

"from": 2,

"size": 3,

"filter": {

"sample string 1": [

{},

{}

],

"sample string 2": [

{},

{}

]

},

"fields": {

"includes": [

"sample string 1",

"sample string 2"

],

"excludes": [

"sample string 1",

"sample string 2"

]

},

"boost": {

"sample string 1": 2,

"sample string 3": 4

},

"sort": [

{

"key": "sample string 1",

"value": {}

},

{

"key": "sample string 1",

"value": {}

}

],

"group": {

"top": 1,

"fields": [

"sample string 1",

"sample string 2"

]

}

}

* **返回：**

SearchResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Groups | 聚合结果 | Dictionary of string [key] and Dictionary of string [key] and integer [value] [value] | None. |
| Total | 总数 | integer | None. |
| Metadatas | 索引集合 | Collection of Object | None. |

**Sample:**

{

"groups": {

"sample string 1": {

"sample string 1": 1,

"sample string 2": 1

},

"sample string 2": {

"sample string 1": 1,

"sample string 2": 1

}

},

"total": 1

}

### MatchMany

|  |
| --- |
| 按多个完全匹配条件搜索 |

* **链接地址：api** **/** **SearchService/** **MatchMany**
* **请求方式：POST**
* **参数说明：**

MatchRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Top | 返回结果数量 | integer | None. |
| Filter | 查询条件 | Dictionary of string [key] and Collection of Object [value] | None. |
| Fields | 源字段过滤器 | [SearchSourceFilter](#_SearchSourceFilter) | None. |
| Sort | 排序(键是字段,值是顺序,0是升序1是降序) | [PKSKeyValuePairOfStringAndObject](#_PKSKeyValuePairOfStringAndObject) | None. |

* **Sample:**

[

{

"top": 1,

"filter": {

"sample string 1": [

{},

{}

],

"sample string 2": [

{},

{}

]

},

"fields": {

"includes": [

"sample string 1",

"sample string 2"

],

"excludes": [

"sample string 1",

"sample string 2"

]

},

"sort": [

{

"key": "sample string 1",

"value": {}

},

{

"key": "sample string 1",

"value": {}

}

]

},

{

"top": 1,

"filter": {

"sample string 1": [

{},

{}

],

"sample string 2": [

{},

{}

]

},

"fields": {

"includes": [

"sample string 1",

"sample string 2"

],

"excludes": [

"sample string 1",

"sample string 2"

]

},

"sort": [

{

"key": "sample string 1",

"value": {}

},

{

"key": "sample string 1",

"value": {}

}

]

}

]

* **返回：**

MatchRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Top | 返回结果数量 | integer | None. |
| Filter | 查询条件 | Dictionary of string [key] and Collection of Object [value] | None. |
| Fields | 源字段过滤器 | [SearchSourceFilter](#_SearchSourceFilter) | None. |
| Sort | 排序(键是字段,值是顺序,0是升序1是降序) | Collection of  [PKSKeyValuePairOfStringAndObject](#_PKSKeyValuePairOfStringAndObject) | None. |

**Sample:**

[

{

"top": 1,

"filter": {

"sample string 1": [

{},

{}

],

"sample string 2": [

{},

{}

]

},

"fields": {

"includes": [

"sample string 1",

"sample string 2"

],

"excludes": [

"sample string 1",

"sample string 2"

]

},

"sort": [

{

"key": "sample string 1",

"value": {}

},

{

"key": "sample string 1",

"value": {}

}

]

},

{

"top": 1,

"filter": {

"sample string 1": [

{},

{}

],

"sample string 2": [

{},

{}

]

},

"fields": {

"includes": [

"sample string 1",

"sample string 2"

],

"excludes": [

"sample string 1",

"sample string 2"

]

},

"sort": [

{

"key": "sample string 1",

"value": {}

},

{

"key": "sample string 1",

"value": {}

}

]

}

]

### GetMetadata

|  |
| --- |
| 根据iiid搜索 |

* **链接地址：api** **/** **SearchService/** **GetMetadata**
* **请求方式：POST**
* **参数说明：**

SearchMetadataRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| IIId | 索引ID | string | Required |
| Fields | 源字段过滤器 | [SearchSourceFilter](#_SearchSourceFilter) | None. |

**Sample:**

{

"iiId": "sample string 1",

"fields": {

"includes": [

"sample string 1",

"sample string 2"

],

"excludes": [

"sample string 1",

"sample string 2"

]

}

}

* **返回：**

Dictionary of Object [key] and Object [value]

### GetMetadatas

|  |
| --- |
| 根据iiid组搜索 |

* **链接地址：api** **/** **SearchService/** **GetMetadatas**
* **请求方式：POST**
* **参数说明：**

SearchMetadatasRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| IIIds | 索引ID集合 | Collection of string | None. |
| Fields | 源字段过滤器 | [SearchSourceFilter](http://localhost:9901/Help/ResourceModel?modelName=SearchSourceFilter) | None. |

**Sample:**

{

"iiIds": [

"sample string 1",

"sample string 2"

],

"fields": {

"includes": [

"sample string 1",

"sample string 2"

],

"excludes": [

"sample string 1",

"sample string 2"

]

}

}

* **返回：**

Collection of Object

### Statistics

|  |
| --- |
| 根据聚合条件获取统计信息 |

* **链接地址：api** **/** **SearchService/** **Statistics**
* **请求方式：POST**
* **参数说明：**

SearchStatisticsRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Groups | 分组统计字段数组 | Collection of string | None. |

**Sample:**

{

"groups": [

"sample string 1",

"sample string 2"

]

}

* **返回：**

SearchStatisticsResult

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Groups | 分组统计结果 | Dictionary of string [key] and Dictionary of string [key] and integer [value] [value] | None. |

**Sample:**

{

"groups": {

"sample string 1": {

"sample string 1": 1,

"sample string 2": 1

},

"sample string 2": {

"sample string 1": 1,

"sample string 2": 1

}

}

}

### GetMetadataDefinitions （取消）

|  |
| --- |
| 查询元数据定义信息 |

* **链接地址：api** **/** **SearchService/** **GetMetadataDefinitions**
* **请求方式：POST**
* **参数说明：无**
* **返回：**

MetadataDefinition

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Name |  | string | None. |
| Title |  | string | None. |
| Description |  | string | None. |
| Required |  | boolean | None. |
| Type |  | [MetadataTagType](#_MetadataTagType) | None. |
| Format |  | string | None. |
| InnerTag |  | boolean | None. |
| UiType |  | [MetadataUiType](#_MetadataUiType) | None. |
| Items |  | Collection of [MetadataValueItem](#_MetadataValueItem) | None. |
| GroupCode |  | string | None. |
| GroupName |  | string | None. |
| GroupOrder |  | integer | None. |
| ItemOrder |  | integer | None. |

**Sample:**

[

{

"name": "sample string 2",

"title": "sample string 3",

"description": "sample string 4",

"required": true,

"type": "String",

"format": "sample string 6",

"innertag": true,

"uitype": "Label",

"items": [

{

"text": "sample string 1",

"value": "sample string 2",

"selected": true

},

{

"text": "sample string 1",

"value": "sample string 2",

"selected": true

}

],

"groupcode": "sample string 8",

"groupname": "sample string 9",

"grouporder": 10,

"itemorder": 11

},

{

"name": "sample string 2",

"title": "sample string 3",

"description": "sample string 4",

"required": true,

"type": "String",

"format": "sample string 6",

"innertag": true,

"uitype": "Label",

"items": [

{

"text": "sample string 1",

"value": "sample string 2",

"selected": true

},

{

"text": "sample string 1",

"value": "sample string 2",

"selected": true

}

],

"groupcode": "sample string 8",

"groupname": "sample string 9",

"grouporder": 10,

"itemorder": 11

}

]

### ESSearchEx

|  |
| --- |
| 只返回source |

* **链接地址：api** **/** **SearchService/** **ESSearchEx**
* **请求方式：POST**
* **参数说明：ESsearch 命令体**

**Sample:**

{

"\_source": [

"iiid",

"title",

"indexeddate"

],

"query": {

"match": {

"pt.keyword": "钻探油气新发现情况"

}

},

"size": 10,

"sort": [

{

"indexeddate": {

"order": "desc"

}

}

]

}

* **返回：**\_source

**Sample:**

## LogService日志服务（新增）

|  |
| --- |
| 日志服务控制器 |

### Log

|  |
| --- |
| 接入各类日志，存入日志索引库 |

* **链接地址：api/** **LogService/** **Log**
* **请求方式：POST**
* **参数说明：**

IndexInsertRequest <UserLog>

| Name | Description | Type |
| --- | --- | --- |
| Generation | 是否自动创建索引id | boolean |
| IndexType | 日志来源类型 | string  枚举值：  xxgxuserlog 信息共享平台用户行为日志  securitylog 油田内部监控日志 |
| Metadatas | 元数据集合 | Collection of Object 参见 [4.1.4 参数说明](#_日志结构（新增）) |

**Sample:**

{

"**generation**": true,

"**indextype**": "xxgxuserlog",

"**metadatas**": [

{

"ulogid": "5c5cc2a6-fd0a-4013-809a-1c2121dcb4b1",

"ulogdate": "2017-09-07T14:28:45.620",

"yhm": "heaih.tlm",

"yhxm": "何爱红",

"ztmc": "财务",

"ztlmmc": "xxxxxx",

"xxbtid": "5c5cc2a6-fd0a-4013-809a-1c2121dcb4b1",

"xxbtmc": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油",

"xtfl": "勘探开发",

"xtbm": "KQFWXXXT",

"xtmc": "物业收费及一卡通管理系统",

"yhsygnmc": "矿区服务事业部",

"czlx": "新增",

"cznr": "浏览井史历程(塔中16-5)",

"yhdwbm": "矿区服务事业部",

"yhdwmc": "矿区物业服务中心动力工程部",

"yhgwbm": "员工",

"yhgwmc": "员工"

},

{

"iiid": "6deed17d-e2f8-486f-bc44-40edb52bb06e ",

… //数据元其他元素

},

… //下一组 数据元

]

｝

* **返回：索引ID组**

**Sample:**

[

"b6112e03-36bf-4bbf-b4cf-6b9a9d7aedb2",

"6deed17d-e2f8-486f-bc44-40edb52bb06e",

"796c31fe-e520-47b3-ab0c-4f4607baabe6",

"ad3ddc44-25ad-4a53-9278-f9dd896bd389",

"2b7e2930-5690-42eb-91f3-64f22ae2da82",

"9d583ff0-b24d-4861-805c-578f84a04a01",

"e108ebcc-b19f-4afb-99c0-c4175f522347",

"631661a5-e2c3-4a6b-b424-205b6e39b6f3",

"7fe05403-b5b6-4fb8-b66d-924e98b6f0c1"

]

### Delete

|  |
| --- |
| 根据ID删除日志索引 |

* **链接地址：api** **/** **LogService /Delete**
* **请求方式：POST**
* **参数说明：**

IndexDeleteRequest

| Name | Description | Type |
| --- | --- | --- |
| IndexType | 日志来源类型 | string  枚举值：  xxgxuserlog 信息共享平台用户行为日志  securitylog 油田内部监控日志 |
| IIIds | 日志id集合 | List<string> |

**Sample:**

{

"**indextype**": "xxgxuserlog",

"**iiids**": [

"80a84801-4b62-4789-8085-9700f50b7b5e",

"dfedbd85-6055-4cfa-9ad9-4d1574589411"

]

｝

* **返回：删除的索引ID组**

**Sample:**

[

"80a84801-4b62-4789-8085-9700f50b7b5e",

"dfedbd85-6055-4cfa-9ad9-4d1574589411"

]

### ESSearch

|  |
| --- |
| 日志数据ES原生语法搜索 |

* **链接地址：api** **/** **LogService /** **ESSearch**
* **请求方式：POST**
* **参数说明：**

**Sample:**

{

"\_source": [

"ulogid",

"ulogdate",

"xxbtid",

"xxbtmc"

],

"query": {

"match": {

"yhm.keyword": "hdhse.tlm"

}

},

"size": 10,

"sort": [

{

" ulogdate": {

"order": "desc"

}

}

]

}

* **返回：**

**Sample:**

{

"took": 27,

"timed\_out": false,

"\_shards": {

"total": 5,

"successful": 5,

"failed": 0

},

"hits": {

"total": 2,

"max\_score": null,

"hits": [

{

"\_index": "tlm-xxgx-log",

"\_type": "securitylog",

"\_id": "dfedbd85-6055-4cfa-9ad9-4d1574589411",

"\_score": null,

"\_source": {

"xxbtid": "dfedbd85-6055-4cfa-9ad9-4d1574589411",

"ulogdate": "2017-05-26T08:00:00.1",

"ulogid": "dfedbd85-6055-4cfa-9ad9-4d1574589411",

"xxbtmc": "合同基本信息"

},

"sort": [

1495785600100

]

},

{

"\_index": "tlm-xxgx-log",

"\_type": "securitylog",

"\_id": "56662e88-bcbd-4daa-8167-751625f884f8",

"\_score": null,

"\_source": {

"xxbtid": "56662e88-bcbd-4daa-8167-751625f884f8",

"ulogdate": "2017-03-08T08:00:00.1",

"ulogid": "56662e88-bcbd-4daa-8167-751625f884f8",

"xxbtmc": "克深2气藏"

},

"sort": [

1488960000100

]

}

]

}

}

### SearchPlus

|  |
| --- |
| 日志数据高级搜索 |

* **链接地址：api** **/** **LogService /** **SearchPlus**
* **请求方式：POST**
* **参数说明：**

SearchRequest

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Sentence | 搜索短语 | string | None. |
| From | 起始索引 | integer | None. |
| Size | 返回结果数量 | integer | None. |
| Filter | 查询条件 | Dictionary of string [key] and Collection of Object [value] | None. |
| Fields | 源字段过滤器 | [SearchSourceFilter](#_SearchSourceFilter) | None. |
| Boost | 提升权重集合(键是字段,值是权重提升) | Dictionary of string [key] and integer [value] | None. |
| Sort | 排序(键是字段,值是顺序,0是升序1是降序) | Collection of [PKSKeyValuePairOfStringAndObject](#_PKSKeyValuePairOfStringAndObject) | None. |
| Group | 分组 | [SearchGroupRules](#_SearchGroupRules) | None. |
| IndexType | 日志来源类型 | string  枚举值：  xxgxuserlog 信息共享平台用户行为日志  securitylog 油田内部监控日志 | None |

**Sample:**

{

"sentence": "",

"fields": {

"includes": [

"ulogid",

"ulogdate",

"xxbtid",

"xxbtmc",

"ztmc",

"ztlmmc",

"tlsj",

"dqsj",

"yhm",

"yhxm"

],

"excludes": [

"resdb",

"restatable",

"resdataid"

]

},

"filter": {

"\_or": [

{

"filter": {

"czlx": [

"查询", "浏览"

],

"yhdwbm": [

"矿区服务事业部", ""

]

},

"\_range": {

"ulogdate": {

"type": "date",

"gte": "2017-3-23",

"gt": "2017-3-23",

"lte": "2017-9-26",

"lt": "2017-9-26"

}

}

}

]

},

"from": 0,

"size": 6,

"boost": {

"xxbtmc": 10,

"yhdwbm": 8

},

"sort": [

{

"ulogdate.nokey": 1

},

{

"xxbtmc": 0

}

],

"indextype":" xxgxuserlog"

}

* **返回：**

SearchResult<UserLog>

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| Groups | 聚合结果 | Dictionary of string [key] and Dictionary of string [key] and integer [value] [value] | None. |
| Total | 总数 | integer | None. |
| Metadatas | 索引集合 | Collection of Object | None. |

**Sample:**

{

"total": 8,

"metadatas": [

{

"xxbtid": "a294786c-b21f-4d92-90a5-33c9f59a827e",

"ulogdate": "2017-04-05T08:00:00.1",

"ztlmmc": "xxxxxx",

"ulogid": "a294786c-b21f-4d92-90a5-33c9f59a827e",

"xxbtmc": "成本费用指标情况",

"ztmc": "财务",

"yhxm": "何爱红",

"yhm": "heaih.tlm"

},

{

"xxbtid": "8f1879ea-4d45-4653-b052-8a05ddd3fbf7",

"ulogdate": "2017-03-05T08:00:00.1",

"ztlmmc": "xxxxxx",

"ulogid": "8f1879ea-4d45-4653-b052-8a05ddd3fbf7",

"xxbtmc": "塔里木盆地",

"ztmc": "研究",

"yhxm": "孙小红",

"yhm": "sunxhong.tlm"

},

{

"xxbtid": "b2d14ddc-42ee-428d-8355-f75250c29b6f",

"ulogdate": "2017-03-06T08:00:00.1",

"ztlmmc": "xxxxxx",

"ulogid": "b2d14ddc-42ee-428d-8355-f75250c29b6f",

"xxbtmc": "库车凹陷",

"ztmc": "研究",

"yhxm": "何爱红",

"yhm": "heaih.tlm"

},

{

"xxbtid": "5c5cc2a6-fd0a-4013-809a-1c2121dcb4b1",

"ulogdate": "2017-09-07T14:28:45.62",

"ztlmmc": "xxxxxx",

"ulogid": "5c5cc2a6-fd0a-4013-809a-1c2121dcb4b1",

"xxbtmc": "2017年5月8日，XJ34-1-1井使用环保型水基（Evolution®类油基）钻井液体系开展钻井液新技术现场先导性试验成功转试油",

"ztmc": "财务",

"yhxm": "何爱红",

"yhm": "heaih.tlm"

},

{

"xxbtid": "5c5cc2a6-fd0a-4013-809a-1c2121dcb4b0",

"ulogdate": "2017-05-27T08:00:00.1",

"ztlmmc": "xxxxxx",

"ulogid": "5c5cc2a6-fd0a-4013-809a-1c2121dcb4b0",

"xxbtmc": "成本费用指标情况",

"ztmc": "财务",

"yhxm": "胡荣",

"yhm": "hurong.tlm"

},

{

"xxbtid": "dfedbd85-6055-4cfa-9ad9-4d1574589411",

"ulogdate": "2017-05-26T08:00:00.1",

"ztlmmc": "xxxxxx",

"ulogid": "dfedbd85-6055-4cfa-9ad9-4d1574589411",

"xxbtmc": "合同基本信息",

"ztmc": "财务",

"yhxm": "哈得HSE",

"yhm": "hdhse.tlm"

}

]

}

## 通用 GetCapabilities

|  |
| --- |
| 获得服务支持能力数据（每个服务控制器都含有此操作） |

* **链接地址：api/** **{controller}/** **GetCapabilities**
* **请求方式：GET**
* **参数说明： 无**
* **返回：**

ServiceCapabilities

| Name | Description | Type |
| --- | --- | --- |
| Service | 服务信息 | [ServiceInfo](#ServiceInfo) |
| Requests | 支持请求集合 | Collection of string |

**Sample:**

{

"service": {

"name": "UserBehaviorService",

"description": "用户行为分析服务。用于信息共享平台各板块版面获取信息条目。",

"developer": "武汉侏罗纪知识管理业务部"

},

"requests": [

"AnaHotTopics",

"AnaYourLikes",

"GetCapabilities"

]

}

## 其他

# 实体

## BlockRequest

信息板块

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| tabgroups | 分栏集合 | Collection of [TabGroupRequest](#_TabGroupRequest) | None. |
| blockid | 板块编号 | string | None. |
| blockname | 板块名称 | string | None. |

## TabGroupRequest

板块分栏-请求

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| query | 信息搜索query | Collection of Object | None. |
| tabid | 分栏编号 | string | None. |
| tabname | 分栏名称 | string | None. |
| searchtype | 搜索类别 | [TopicSearchType](#_TopicSearchType) | None. |

## BlockBase

信息板块

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| blockid | 板块编号 | string | None. |
| blockname | 板块名称 | string | None. |

## UserInfoRequest

用户信息-请求

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| id | 用户编号 | string | None. |
| name | 用户名称 | string | None. |
| organization | 用户单位 | string | None. |
| department | 用户部门 | string | None. |
| position | 用户岗位 | string | None. |
| role | 用户角色（数组） | Collection of string | None. |

## TopicResult

响应结果

| Name | Description | Type | Additional information |
| --- | --- | --- | --- |
| blockid | 信息板块 | string | None. |
| tabs | 信息分栏结果 | Collection of [TabResult](#_TopicResult) | None. |

## TabResult

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| total | 返回结果条目数 | decimal number | None. |
| result | 返回结果集合 | Object | None. |
| tabid | 分栏编号 | string | None. |
| tabname | 分栏名称 | string | None. |
| searchtype | 搜索类别 | [TopicSearchType](#_TopicSearchType) | None. |

## TopicSearchType

信息条目搜索类别

Possible enumeration values:

| **Name** | **Value** | **Description** |
| --- | --- | --- |
| **None** | 0 |  |
| **GetHotTopics** | 1 | 获取热点信息条目 |
| **GetRecency** | 2 | 获取个人最近浏览条目 |
| **GetYourLikes** | 3 | 获取猜你喜欢推荐条目 |
| **GetHeadlines** | 4 | 获取头条信息条目 |
| **GetRelTopics** | 5 | 获取关联推荐信息 |
|  |  |  |

## AnaResult4HotTopic

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| word | 分析结果 - 热词/热点条目标题 | string | None. |
| score | 分析结果 - 评分 | decimal number | None. |
| idf | 分析结果 - 逆向文档频率 | decimal number | None. |
| docFreq | 分析结果 - 获得多少文档包含此Term | decimal number | None. |
| tf | 分析结果 - 词频 | decimal number | None. |

## ServiceInfo

服务信息

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| Name | 名称 | string | None. |
| Description | 描述 | string | None. |
| Developer | 开发者 | string | None. |

## AuthenticationType

认证方式:

| **Name** | **Value** | **Description** |
| --- | --- | --- |
| **Form** | 0 |  |
| **Windows** | 1 |  |
| **Session** | 2 |  |

## IPKSPrincipal

令牌

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| Roles |  | Collection of [IPKSRole](#IPKSRole) | None. |
| Identity |  | [IPKSIdentity](#IPKSIdentity) | None. |

## IPKSRole

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| Id |  | string | None. |
| Name |  | string | None. |
| Description |  | string | None. |

## IPKSIdentity

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| Id |  | string | None. |
| Email |  | string | None. |
| PhoneNumber |  | string | None. |

## MenuInfo

菜单信息

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| Id | Id | integer | None. |
| Key | 键 | string | None. |
| Name | 名称 | string | None. |
| URL | 链接 | string | None. |
| Target | 链接打开目标:\_blank|\_self | string | None. |
| HasThird | 是否有第三级子菜单(用于第一级菜单，表示本菜单是否有第三级菜单) | boolean | None. |
| Children | 子菜单信息集合 | Collection of [MenuInfo](http://localhost:9901/Help/ResourceModel?modelName=MenuInfo) | None. |

## TreeItem

树节点定义

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| Id | 节点id | string | None. |
| Term | 叙词信息 | string | None. |
| PathTerm | 叙词路径 | string | None. |
| Source | 叙词来源 | string | None. |
| OrderIndex | 叙词排序 | integer | None. |
| Pid | 父id | string | None. |

## SearchSourceFilter

源字段过滤条件

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| Includes | 包含字段数组 | Collection of string | None. |
| Excludes | 排除字段数组 | Collection of string | None. |

## PKSKeyValuePairOfStringAndObject

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| Key |  | string | None. |
| Value |  | Object | None. |

## SearchGroupRules

分组规则

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| Top | 最多的分组数量 | integer | None. |
| Fields | 分组字段数组 | Collection of string | None. |

## MetadataTagType

Possible enumeration values:

| **Name** | **Value** | **Description** |
| --- | --- | --- |
| **String** | 0 |  |
| **StringArray** | 1 |  |
| **Date** | 2 |  |
| **Number** | 3 |  |
| **ISODate** | 4 |  |

## MetadataUiType

Possible enumeration values:

| Name | Value | Description |
| --- | --- | --- |
| Label | 0 |  |
| TextBox | 1 |  |
| TextArea | 2 |  |
| List | 3 |  |
| DropdownList | 4 |  |
| TagEditor | 5 |  |
| Datetime | 6 |  |
| Date | 7 |  |
| Image | 8 |  |

## MetadataValueItem

| **Name** | **Description** | **Type** | **Additional information** |
| --- | --- | --- | --- |
| Text |  | string | None. |
| Value |  | string | None. |
| Selected |  | boolean | None. |

# 过滤

## \_term 过滤

term主要用于精确匹配哪些值，比如数字，日期，布尔值或 not\_analyzed的字符串(未经分析的文本数据类型)：

{ "\_term": { "age": 26 }}

{ "\_term": { "date": "2014-09-01" }}

{ "\_term": { "public": true }}

{ "\_term": { "tag": "full\_text" }}

## \_terms 过滤

terms 跟 term 有点类似，但 terms 允许指定多个匹配条件。 如果某个字段指定了多个值，那么文档需要一起去做匹配：

{

"\_terms": {

"tag": [ "search", "full\_text", "nosql" ]

}

}

## \_range 过滤

range过滤允许我们按照指定范围查找一批数据：

{

"\_range": {

"age": {

"gte": 20,

"lt": 30

}

}

}

范围操作符包含：

gt :: 大于

gte:: 大于等于

lt :: 小于

lte:: 小于等于

## \_exists 和 \_missing 过滤

exists 和 missing 过滤可以用于查找文档中是否包含指定字段或没有某个字段，类似于SQL语句中的IS\_NULL条件

{

"\_exists": {

"field": "title"

}

}

这两个过滤只是针对已经查出一批数据来，但是想区分出某个字段是否存在的时候使用。

## \_bool 过滤

bool 过滤可以用来合并多个过滤条件查询结果的布尔逻辑，它包含一下操作符：

must :: 多个查询条件的完全匹配,相当于 and。

must\_not :: 多个查询条件的相反匹配，相当于 not。

should :: 至少有一个查询条件匹配, 相当于 or。

这些参数可以分别继承一个过滤条件或者一个过滤条件的数组：

{

"\_bool": {

"must": { "term": { "folder": "inbox" }},

"must\_not": { "term": { "tag": "spam" }},

"should": [

{ "term": { "starred": true }},

{ "term": { "unread": true }}

]

}