# 修订历史

|  |  |  |  |
| --- | --- | --- | --- |
| **修订日期** | **修订人** | **修订内容** | **DC版本** |
| 2017年1月17日 | 林德盛 | 文档重新排版  增加对烟技员维度的支持  增强扩展条件，支持范围查询 | DC\_V1.0.8版本 |
| 2017年8月11日 | 林德盛 | 支持跨年查询 | DC\_V1.1.2版本 |
| 2017年11月26日 | 林德盛 | 支持返回行数、分页、排序 | DC\_V1.1.2版本 |
| 2018年1月2日 | 林德盛 | 支持钻取到工业单位和仓库 | DC\_V1.1.2版本 |
| 2018年3月14日 | 林德盛 | 增加返回记录数参数 | DC\_V1.1.2版本 |
| 2018年6月26日 | 林德盛 | 增加烘烤工厂纬度支持 | DC\_V1.1.3版本 |
| 2018年7月15日 | 林德盛 | 增加收购场所纬度支持 | DC\_V1.1.3版本 |
| 2018年9月11日 | 林德盛 | 增加指标SQL打印 | DC\_V1.1.3版本 |
| 2018年11月1日 | 林德盛 | 支持维度场景 | DC\_V1.1.3版本 |

# 指标定义要求

为了有效管理指标，合理定义，提高复用度，减少指标变更造成的风险，对指标的定义做如下约定：

* 指标取数来自DC加工数据源。

DC数据模型是对业务分析抽象的模型，具备普遍性，复用度较高。DC数据模型在定义的时候已经根据数据规模，对结构进行分层统计，对表进行了索引优化。指标基于DC加工数据源取数性能和复用度都较好。

指标钻取的时候还依赖于DC档案数据和关系数据，同时对属性命名也有一定要求。

* 指标定义应该合理

首先应该考虑定义指标的必要性，如非基于DC加工数据源设定指标应该考虑复用度，甚至进一步考虑数据加工入库。指标定义的时候应该根据业务合理划分，有效分类，方便查找，避免重复定义。

* 只支持统计数据

档案数据类的查询返回数据量较大，受当前接口数据处理机制限制，不能在数据库层面做分页。建议在业务环节接口提供。

# 指标方式接口

* 1. **DC数据服务指标方式接口HTTP请求参数说明**

数据访问服务方法名称： raCommonAction.do?action=getSearchData

|  |  |  |  |
| --- | --- | --- | --- |
| **预置参数说明** | | | |
| **参数名称** | **必要性** | **说明** | **参数值示例** |
| businessYear | 必传 | 业务年度 | businessYear=2013 |
| beginDate | 可选 | 默认为空，不传时不会带开始日期查询条件 |  |
| endDate | 必选 | 查询结束日期，默认系统当前日期 | endDate=20131111 |
| lastBeginDate | 可选 | 去年同期开始日期，默认为空，不传时不会带开始日期查询条件 |  |
| lastEndDate | 可传 | 去年同期结束日期，不传时默认取endDate的上一年度 |  |
| weightUnit | 可选 | 重量单位换算率，默认为1：公斤 | weightUnit=50 ：换算成担输出 |
| amountUnit | 可选 | 金额单位换算率，默认为1：元 | amountUnit =10000 ：换算成万元 |
| avgPrice | 可选 | 均价单位，默认为1：元/公斤 | avgPrice =0.02：换算成元/担 |
| squareUnit | 可选 | 面积单位，默认为1：亩 | squareUnit=10000：换算成万亩 |
| sumFlag | 可选 | 返回结果是否需要合计行，默认为0不需要合计行，如果指标为分组指标（即指标有配置分组条件），则此参数无效。 | 1：需要合计行，0：不需要合计行  (占比，比如收购占比，某单位占所有单位的合计值比例，需要将此属性标志位1；如果是排名，可以不要) |
| qsfxFlag | 可选 | 1表示趋势查询，不传此参数则默认为0。趋势分析不允许传多个组织单位代码 | qsfxFlag=1 |
| qsfxType | 可选 | 仅当qsfxFlag=1时有效，趋势分析类型，默认为0（0：按日，1：按周，2:月，3:季，4：年）,月季未实行。 | qsfxType=0 |
| searchOrgType | 必传 | 查询的单位性质，  1为行政区划，  2为组织机构，  9为基地单元，  如果前台不传则后台默认为2组织机构 | searchOrgType=2 |
| orgCd | 必传 | 查询的行政区划/组织单位/基地单元代码，单位类型相同的多个单位用;隔开 | orgCd=5329;5301  当orgCd里传的是烟农、烟技员代码，searchOrgType =1或者searchOrgType =2都可以，查询的结果是一样的 |
| orgLevel | 必传 | 查询的行政区划/组织单位/基地单元/烟农级别代码 | orgLevel=2  当orgCd里传的是行政区划代码，orgLevel为对应行政区划的orgLevel属性值；  当orgCd里传的是组织机构代码，orgLevel为对应组织机构的orgLevel属性值；  当orgCd里传的是烟农，如果是烟农，则orgLevel=8，如果是小合同烟农，则orgLevel=9；  当orgCd里传的是基地单元，则orgLevel=4  当orgCd里传的是烟技员，则orgLevel=FT  当orgCd里传的是烘烤师，则orgLevel=BKR  当orgCd里传的是烤房，则orgLevel=BK  当orgCd里传的是烤房群，则orgLevel=BG  当orgCd里传的是烘烤车间，则orgLevel=BF  当orgCd里传的是育苗点，则orgLevel=AB  当orgCd里传的是育苗棚，则orgLevel=AC  当orgCd里传的是田块，则orgLevel=AF  当orgCd里传的是物流中心仓库CD，则orgLevel=SA1  当orgCd里传的是工业单位，则orgLevel=IO |
| searchOrgLevel | 必选 | 统计分组级别  默认为空，统计分组到下一级；  为0的时候，统计分组到本级；  当orgCd传入的是多家单位的时候，约定searchOrgLevel=0统计分组到本级 | searchOrgLevel=null：统计分组到下一级  searchOrgLevel=0：统计分组到本级  searchOrgLevel=1\_1：统计分组到行政区划\_省  searchOrgLevel=1\_2：统计分组到行政区划\_市  searchOrgLevel=1\_3：统计分组到行政区划\_县  searchOrgLevel=1\_4：统计分组到行政区划\_乡镇  searchOrgLevel=1\_5：统计分组到行政区划\_村  searchOrgLevel=1\_6：统计分组到行政区划\_组  searchOrgLevel=2\_1：统计分组到组织机构\_省公司  searchOrgLevel=2\_2：统计分组到组织机构\_市公司  searchOrgLevel=2\_3：统计分组到组织机构\_县公司  searchOrgLevel=2\_4：统计分组到组织机构\_烟站  searchOrgLevel=2\_5：统计分组到组织机构\_烟点  searchOrgLevel=2\_6：统计分组到组织机构\_收购线  searchOrgLevel=2\_7：统计分组到组织机构\_收购场所  searchOrgLevel=2\_8：统计分组到组织机构\_烟农  searchOrgLevel=2\_9：统计分组到组织机构\_小合同烟农  searchOrgLevel=2\_FT：统计分组到组织机构\_烟技员  searchOrgLevel=2\_BKR：统计分组到组织机构\_烘烤师  searchOrgLevel=2\_BK：统计分组到组织机构\_烤房  searchOrgLevel=2\_BG：统计分组到组织机构\_烤房群  searchOrgLevel=2\_BF：统计分组到组织机构\_烘烤车间  searchOrgLevel=2\_AB：统计分组到组织机构\_育苗点  searchOrgLevel=2\_AC：统计分组到组织机构\_育苗棚  searchOrgLevel=2\_AF：统计分组到组织机构\_田块  searchOrgLevel=2\_SA1：统计分组到组织机构\_物流仓库-中心仓库  searchOrgLevel=2\_IO：统计分组到组织机构\_工业单位  searchOrgLevel=9\_1：统计分组到基地单元所在组织机构\_省公司  searchOrgLevel=9\_2：统计分组到基地单元所在组织机构\_市公司  searchOrgLevel=9\_3：统计分组到基地单元所在组织机构\_县公司  searchOrgLevel=9\_4：统计分组到基地单元 |
| indexCd | 必传 | 查询指标的编码，多个指标以;隔开  注意所传入的指标必须是末级指标；对于分组指标，请注意一次请求必须只有一种分组方式（即所传入的所有指标的分组方式都必须一致，如果是不一致，必须分多次调用） | indexCd=12000001;12000028 |
| decimalPlaces | 可选 | 保留几位小数，默认为2，保留2位小数 | decimalPlaces=2 |
| removeZeroFlag | 可选 | 结果是否去除指标全部为0的行（0不去除，1去除），默认为0表示不去除 | removeZeroFlag=0 |
| multiYearFlag | 可选 | 多年统计标示 | 0单年 1多年  businessYear=STRING$>,<$2005,2017 |
| countFlag | 可选 | 1 只返回查询记录数，不返回内容 | 返回结果  count: 9 |
| returnRows | 可选 | 返回记录数(默认：0，同时不激活指标排序) | 例子  &returnRows=10 --每页10行  &orderIndex=10053003 --以此指标值进行排序  &orderType=DESC --降序  &returnPage=128 --第128页  如谋烟点烟农亩产值排名有返回1272笔记录，  该查询返回亩产值最高的两笔记录  （10053003 亩产值排名） |
| returnPage | 可选 | 默认为1 |
| orderIndex | 可选 | 排序指标(默认: indexCd中第一个指标) |
| orderType | 可选 | 排序类型(ASC升序,DESC降序；默认升序) |
| showSql | 可选 | 显示指标查询sql | showSql=1，显示相应sql |
| filterSearchOrgCds | 可选 | 过滤返回结果对象  (早于returnRows、returnPage参数生效) | filterSearchOrgCds=5302;5301  一般对象已知 |
| filterDimScene | 可选 | 对查询结果的对象  (早于returnRows、returnPage参数生效) | filterDimScene=场景编码  场景编码规则:  维度\_业务域\_场景说明  如:  FM\_PT\_FARMER\_SCORE |
| **扩展参数说明** | | | |
| * **扩展参数约定格式**   KEY=VALUE，  其中VALUE的格式为:类型$操作符$值  操作符和值支持多个，用半角英文逗号分隔，但数量应相同   * **类型**   STRING  NUMBER  TIMESTAMP   * **操作符**   >=  <=  =  <>  LIKE  IN   * **值**   当操作符为like，值中含有\*字符时，比如 ABC\* 则等同于 ABC%  当操作符为IN，值不含括号，不含引号，值的格式为a,b,c  时间格式为YYYYMMDD     * **例子**   leafTypeCd=STRING$in$10,20,80 则后台解析成leaf\_type\_cd in (‘10’,’20’,’80’)  leafTypeCd=STRING$like$10\* 则后台解析成leaf\_type\_cd like ‘10%’  buyWght=NUMBER$>,<$0,500 则后台解析为BUY\_WGHT > 0 and BUY\_WGHT < 500 | | | |

* 1. **扩展条件补充说明**
* 计划类型PLAN\_TYPE和罚没标志PUNISH\_FLAG

由于报表查询时，

计划统计表中包含国家局计划、丰产烟计划两部分，通过PLAN\_TYPE属性进行区分；

合同统计表中包含国家局计划、丰产烟计划两部分，通过PLAN\_TYPE属性进行区分；

收购统计表中包含国家局计划、丰产烟计划、罚没烟三部分，通过PLAN\_TYPE属性和PUNISH\_FLAG属性，如下表所示

|  |  |  |
| --- | --- | --- |
| **类型** | **PLAN\_TYPE** | **PUNISH\_FLAG** |
| 国家局计划 | INPLAN | NORMAL |
| 丰产烟计划 | OUTPLAN | NORMAL |
| 罚没烟 | NULL | FINE\_PUR、CONF\_PUR |

使用扩展条件进行过滤

国家局planType=STRING$=$INPLAN

丰产烟planType=STRING$=$OUTPLAN

罚没烟 punishFlag=STRING$<>$NORMAL

* 1. **接口web请求例子**
* **收购同期收购量**

<http://10.188.180.235/dc/dc/da/raCommonAction.do?action=getSearchData&orgCd=51&indexCd=12000001%3B12000028%20&endDate=20151231&businessYear=2015>&planType=STRING$=$INPLAN

{"success":true,"data":[{"12000001":"13714907.25","12000028":"0.00","orgCd":"5104","orgName":"攀枝花"},{"12000001":"15498653.35","12000028":"0.00","orgCd":"5105","orgName":"泸州"},{"12000001":"0.00","12000028":"0.00","orgCd":"5106","orgName":"德阳"},{"12000001":"7391843.70","12000028":"0.00","orgCd":"5108","orgName":"广元"},{"12000001":"9608800.10","12000028":"0.00","orgCd":"5115","orgName":"宜宾"},{"12000001":"0.00","12000028":"0.00","orgCd":"5130","orgName":"达州"},{"12000001":"125576807.85","12000028":"0.00","orgCd":"5134","orgName":"凉山"}]}

* **调运查询日收购量**

[http://10.188.180.235/dc/dc/da/raCommonAction.do?action=getSearchData&orgCd=51052401M01&indexCd=34000031&endDate=20151231&businessYear=2015](http://10.188.180.235/dc/dc/da/raCommonAction.do?action=getSearchData&orgCd=51&indexCd=12000001%3B12000028%20&endDate=20151231&businessYear=2015)&orgLevel=6&searchOrgLevel=2\_6

{"success":true,"data":[{"34000031":"509.65","exportFlag":"MAY\_PUR","groupName":"10,306,002,INPLAN,MAY\_PUR,BUND","leafLevelCd":"002","leafTypeCd":"10","leafVarietyCd":"306","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"6369.45","exportFlag":"MAY\_PUR","groupName":"10,306,003,INPLAN,MAY\_PUR,BUND","leafLevelCd":"003","leafTypeCd":"10","leafVarietyCd":"306","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"1344.00","exportFlag":"MAY\_PUR","groupName":"10,306,007,INPLAN,MAY\_PUR,BUND","leafLevelCd":"007","leafTypeCd":"10","leafVarietyCd":"306","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"4084.55","exportFlag":"MAY\_PUR","groupName":"10,306,013,INPLAN,MAY\_PUR,BUND","leafLevelCd":"013","leafTypeCd":"10","leafVarietyCd":"306","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"1584.00","exportFlag":"MAY\_PUR","groupName":"10,306,015,INPLAN,MAY\_PUR,BUND","leafLevelCd":"015","leafTypeCd":"10","leafVarietyCd":"306","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"1754.90","exportFlag":"MAY\_PUR","groupName":"10,306,016,INPLAN,MAY\_PUR,BUND","leafLevelCd":"016","leafTypeCd":"10","leafVarietyCd":"306","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"2751.05","exportFlag":"MAY\_PUR","groupName":"10,306,019,INPLAN,MAY\_PUR,BUND","leafLevelCd":"019","leafTypeCd":"10","leafVarietyCd":"306","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"10081.70","exportFlag":"MAY\_PUR","groupName":"10,941,002,INPLAN,MAY\_PUR,BUND","leafLevelCd":"002","leafTypeCd":"10","leafVarietyCd":"941","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"59226.25","exportFlag":"MAY\_PUR","groupName":"10,941,003,INPLAN,MAY\_PUR,BUND","leafLevelCd":"003","leafTypeCd":"10","leafVarietyCd":"941","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"20336.95","exportFlag":"MAY\_PUR","groupName":"10,941,007,INPLAN,MAY\_PUR,BUND","leafLevelCd":"007","leafTypeCd":"10","leafVarietyCd":"941","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"22561.05","exportFlag":"MAY\_PUR","groupName":"10,941,013,INPLAN,MAY\_PUR,BUND","leafLevelCd":"013","leafTypeCd":"10","leafVarietyCd":"941","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"8941.60","exportFlag":"MAY\_PUR","groupName":"10,941,015,INPLAN,MAY\_PUR,BUND","leafLevelCd":"015","leafTypeCd":"10","leafVarietyCd":"941","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"14464.45","exportFlag":"MAY\_PUR","groupName":"10,941,016,INPLAN,MAY\_PUR,BUND","leafLevelCd":"016","leafTypeCd":"10","leafVarietyCd":"941","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"21898.60","exportFlag":"MAY\_PUR","groupName":"10,941,019,INPLAN,MAY\_PUR,BUND","leafLevelCd":"019","leafTypeCd":"10","leafVarietyCd":"941","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"151.85","exportFlag":"MAY\_PUR","groupName":"10,941,028,INPLAN,MAY\_PUR,BUND","leafLevelCd":"028","leafTypeCd":"10","leafVarietyCd":"941","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"},{"34000031":"7386.80","exportFlag":"MAY\_PUR","groupName":"10,941,038,INPLAN,MAY\_PUR,BUND","leafLevelCd":"038","leafTypeCd":"10","leafVarietyCd":"941","orgCd":"51052401M01","orgName":"收购线1","planType":"INPLAN","tobaccoSellMode":"BUND"}]}

* **生产指标测试**

--烟点

http://10.188.180.235/dc/dc/da/raCommonAction.do?action=getSearchData&searchOrgType=2&orgCd=52032301A&orgLevel=5&indexCd=10071101&searchOrgLevel=0&endDate=20161231&businessYear=2016

{"success":true,"data":[{"10071101":"1610.55","orgCd":"52032301A","orgName":"新风烟点"}]}

--烟技员

http://10.188.180.235/dc/dc/da/raCommonAction.do?action=getSearchData&searchOrgType=2&orgCd=52032301A&orgLevel=5&indexCd=10071101&searchOrgLevel=2\_FT&endDate=20161231&businessYear=2016

{"success":true,"data":[{"10071101":"1610.55","orgCd":"8a3c345358d6f25c0158d85e3dbb01de","orgName":"烟技员0011"}]}

--烟农

http://10.188.180.235/dc/dc/da/raCommonAction.do?action=getSearchData&searchOrgType=2&orgCd=8a3c345358d6f25c0158d85e3dbb01de&orgLevel=FT&indexCd=10071101&searchOrgLevel=2\_8&endDate=20161231&businessYear=2016

{"success":true,"data":[{"10071101":"700.00","orgCd":"5203230165000001","orgName":"测试种植主体1"}]}

* **扩展条件范围**

<http://10.188.180.235/dc/dc/da/raCommonAction.do?action=getSearchData&orgCd=36&indexCd=12000001&endDate=20151231&businessYear=2015&planType=STRING$=$INPLAN&buyWght=NUMBER$%3E,%3C$0,500>

{"success":true,"data":[{"12000001":"0.00","orgCd":"3607","orgName":"赣州地区烟草公司"},{"12000001":"0.00","orgCd":"3624","orgName":"吉安地区烟草公司"},{"12000001":"0.00","orgCd":"3625","orgName":"抚州地区烟草公司"}]}

* **注意问题**

--去年同期指标不支持趋势分析

<http://10.188.180.235/dc/dc/da/raCommonAction.do?action=getSearchData&orgCd=5104&searchOrgLevel=2_2&indexCd=12000028&endDate=20161231&businessYear=2016&planType=STRING$=$INPLAN&qsfxFlag=1>

* **常用过滤条件，计划内**

planType=STRING$=$INPLAN

* **跨年查询**

--范围多年

http://127.0.0.1:8080/dc/dc/da/raCommonAction.do?action=getSearchData&orgCd=51&indexCd=11000001&endDate=20151231&businessYear=STRING$>=,<=$2005,2015&planType=STRING$=$INPLAN

--范围单年

http://127.0.0.1:8080/dc/dc/da/raCommonAction.do?action=getSearchData&orgCd=51&indexCd=11000001&endDate=20151231&businessYear=STRING$>=,<=$2015,2015&planType=STRING$=$INPLAN

--趋势分析

http://127.0.0.1:8080/dc/dc/da/raCommonAction.do?action=getSearchData&orgCd=5104&indexCd=11000001&endDate=20151231&businessYear=STRING$>=,<=$2014,2015&planType=STRING$=$INPLAN&qsfxFlag=1&qsfxType=4

* **排序、分页**

http://127.0.0.1:8080/dc/dc/da/raCommonAction.do?action=getSearchData&orgCd=43072501B&orgLevel=5&orgType=2&searchOrgLevel=2\_8&indexCd=13000001;17000009;10053002;10053003&endDate=20171231&businessYear=2017&planType=STRING$=$INPLAN&returnRows=5&orderIndex=10053003&orderType=ASC

* **返回行数**

http://127.0.0.1:8080/dc/dc/da/raCommonAction.do?weightUnit=500000&searchOrgLevel=2\_2&endDate=20180313&moneyUnit=10000&businessYear=2018&decimalPlaces=0&amountUnit=10000&action=getSearchData&squareUnit=10000&indexCd=10090003&orgCd=52&orgLevel=1&countFlag=1

* **返回指标查询sql**

<http://127.0.0.1:8080/dc/dc/da/raCommonAction.do?action=getSearchData&orgCd=36&indexCd=12000007&endDate=20151231&businessYear=2015&planType=STRING$=$INPLAN&showSql=1>

{"success":true,"data":["select CITC as orgcd,sum(case when (EXPORT\_FLAG='MAY\_PUR' ) and ( 1=1 ) then BUY\_WGHT end ) as i12000003,sum(case when (EXPORT\_FLAG='EXP\_PUR') and ( 1=1 ) then BUY\_WGHT end ) as i12000005 from R\_BU\_INV\_CC\_D\_Y15 where DATA\_STATE='1' and BUSINESS\_YEAR = 2015 and BUSINESS\_DATE<= TO\_DATE('2015-12-31 23:59:59','YYYY-MM-DD hh24:mi:ss') and ((EXPORT\_FLAG='MAY\_PUR' ) OR (EXPORT\_FLAG='EXP\_PUR')) and PROV='36' and PLAN\_TYPE = 'INPLAN' group by CITC","select CITC as orgcd,sum(PLAN\_WEIGHT) as i11000001 from R\_PC\_PLAN\_CC\_Y\_Y15 where DATA\_STATE='1' and BUSINESS\_YEAR = 2015 and ((1=1)) and PROV='36' and PLAN\_TYPE = 'INPLAN' group by CITC"," SELECT DISTINCT DISPLAY\_NO,CITC AS ORG\_CD,ABBR\_NAME AS ORG\_NAME FROM B\_ORG\_Y15 WHERE PROV='36' AND ORG\_TYPE = '2' AND ORG\_LEVEL = 2 ORDER BY DISPLAY\_NO,CITC,ABBR\_NAME"]}