珠江数码大数据分析平台

安装手册

项目编号：＿＿＿＿＿＿＿＿ ＿＿

项目名称：珠江数码大数据分析平台

填报单位：曙光信息产业（北京）有限公司

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年 月 日（终）

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注：“草稿”状态的文档版本为0.Y.Z，Y≥0，Z>0，Y、Z的数值不断累加；

“正式发布”状态的文档版本为X.Y，X≥1，Y≥0，且X、Y值不断累加；

“正在修改”状态的文档指对“正式发布”后的文档进行修改，文档版本为X.Y.Z，其中X.Y同修改之前的文档版本号，Z>0，Z的数值不断累加。

[1.1 背景 4](#_Toc461202570)

[1.2 参考资料 4](#_Toc461202571)

[2 大数据收视分析平台 4](#_Toc461202572)

[2.1 实施概述 4](#_Toc461202573)

[2.1.1 支持材料 4](#_Toc461202574)

[2.2 安装部署详细信息 5](#_Toc461202575)

[2.2.1 硬件环境部署 5](#_Toc461202576)

[2.2.1.1 硬件资源配置 5](#_Toc461202577)

[2.2.1.2 硬件环境拓扑结构 6](#_Toc461202578)

[2.2.2 大数据分析平台部署 6](#_Toc461202579)

[2.2.3 检索分析平台部署 6](#_Toc461202580)

[2.2.3.1 安装文件 6](#_Toc461202581)

[2.2.3.2 配置及启动 6](#_Toc461202582)

[2.2.3.3 初始化索引配置 7](#_Toc461202583)

[2.2.4 安装MQL分析服务 8](#_Toc461202584)

[2.2.4.1 安装文件 8](#_Toc461202585)

[2.2.4.2 配置及启动 8](#_Toc461202586)

[2.2.5 安装数据分析服务Analysis 8](#_Toc461202587)

[2.2.5.1 安装文件 8](#_Toc461202588)

[2.2.5.2 配置及启动 8](#_Toc461202589)

[2.2.6 安装可视化服务View 8](#_Toc461202590)

[2.2.6.1.1 安装文件说明 8](#_Toc461202591)

[2.2.6.1.2 配置及启动 8](#_Toc461202592)

[3 附录 9](#_Toc461202593)

[3.1 issue-index索引 9](#_Toc461202594)

[3.2 mediamatch索引 12](#_Toc461202595)

[3.3 mmconsume索引 31](#_Toc461202596)

[3.4 new-media-index创建模板 50](#_Toc461202597)

[3.5 net-event创建模板 56](#_Toc461202598)

[3.6 order-index索引创建 64](#_Toc461202599)

* 1. 背景

项目名称：珠江数码大数据收视分析平台

安装场所：珠江数码机房

安装系统：珠江数码大数据项目收视分析平台主要包括三个主要组成部分：

1. MediaMatch数据接入框架
2. MediaMatch数据分析服务
3. MediaMatch数据可视化服务

开发单位：

集成商：曙光信息产业（北京）有限公司

* 1. 参考资料

1. 珠江数码大数据分析平台需求文档
2. 珠江数码大数据分析平台设计文档
3. 大数据收视分析平台
   1. 实施概述
      1. 支持材料
4. 硬件设备(5台物理机)：

|  |  |  |  |
| --- | --- | --- | --- |
| **主机名** | **设备类型** | **IP地址** | **操作系统** |
| node1 | 物理机 | 10.16.8.191 | CentOS6.5 |
| node2 | 物理机 | 10.16.8.191 | CentOS6.5 |
| node3 | 物理机 | 10.16.8.191 | CentOS6.5 |
| node4 | 物理机 | 10.16.8.191 | CentOS6.5 |

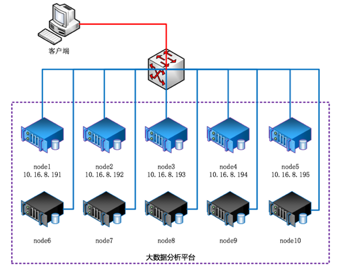
1. 基础软件配置

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **软件/组件** | **版本** | **软件目录** | **配置目录** | **安装节点** |
| MediaMatch- DataETL | 1.0 | /opt/MediaMtach/DataETL | /opt/MediaMatch/DataETL/conf | node1 |
| MediaMatch- Analysis | 1.0 | /opt/MediaMtach/tomcat | /opt/MediaMtach/tomcat | node1 |
| MediaMatch- View | 1.0 | /opt/MediaMtach/MediaMatchView | /opt/MediaMtach/MediaMatchView | node2 |
| JDK | 1.8.0 | /opt/MediaMtach/jdk |  | node1,node2,node3,node4,node5 |
| Spark |  |  |  | node1,node2,node3,node4,node5 |
| ElasticSearch | 1.7.4 | /opt/MediaMtach/elasticsearch-1.7.1 | /opt/MediaMtach/elasticsearch-1.7.1/config | node1,node2,node3,node4,node5 |

* 1. 安装部署详细信息
     1. 硬件环境部署
        1. 硬件资源配置

|  |  |  |
| --- | --- | --- |
| **大数据平台节点服务器** | 品牌 | 国产服务器品牌 |
| 高度 | 机架式服务器，高度≤4U |
| CPU类型 | 配置≥2颗Intel Xeon E5-2600v3系列CPU，每CPU≥12核，主频≥2.5GHz； |
| 内存槽 | 支持扩展24根内存插槽，最大1.5TB容量 |
| 内存掉电保护 | 支持NV DIMM,硬件设计支持 |
| 内存容量 | 配置≥16\*4GB DDR4 内存 |
| 硬盘槽位 | 提供≥24个硬盘槽位 |
| 硬盘容量 | 配置2块600GB 10K 2.5" 6Gbps SAS热插拔硬盘，配置6块480G SSD硬盘 |
| RAID卡 | 配置SAS RAID卡，支持Raid0、1、5、6等多种RAID模式 |
| PCI I/O插槽 | 提供≥4个PCI-E 3.0 扩展插槽 |
| 千兆网卡 | 提供≥2个RJ45千兆网口 |
| 万兆网卡 | 提供≥2个万兆以太网口 |
| SD卡 | 主板支持SD卡插槽，可实现BMC日志扩充存储 |
| 电源 | 1+1冗余电源 |
| 硬件管理接口 | 支持标准IPMI智能平台管理接口 |
| 售后服务 | 提供不少于3年原厂商技术支持，提供正式承诺函 |

* + - 1. 硬件环境拓扑结构



其中蓝色为已经部署完成的环境，黑色为规划扩张的环境。

|  |  |  |  |
| --- | --- | --- | --- |
| **主机名** | **设备类型** | **IP地址** | **操作系统** |
| node1 | 物理机 | 10.16．8.191 | CentOS6.5 |
| node2 | 物理机 | 10.16．8.192 | CentOS6.5 |
| node3 | 物理机 | 10.16．8.193 | CentOS6.5 |
| node4 | 物理机 | 10.16．8.194 | CentOS6.5 |
| node5 | 物理机 | 10.16．8.195 | CentOS6.5 |

* + 1. 大数据分析平台部署
    2. 检索分析平台部署

大数据分析平台检索分析服务采用ElasticSearch。

* + - 1. 安装文件

|  |  |
| --- | --- |
| 软件包 | 描述 |
| ElasticSearch | 分析式检索平台 |

* + - 1. 配置及启动

ElasticSearch部署位置为/opt/MediaMatch/elasticsearch。

1. 启动脚本配置

启动脚本目录为：/opt/MediaMatch/elasticsearch/bin，打开启动脚本，配置JVM参数，如下图所示：



1. 服务配置文件

配置索引服务内存分配情况:

|  |  |  |
| --- | --- | --- |
| 字段名称 | 说明 | 配置值 |
| cluster.name | 集群名称 | zjsm |
| index.refresh\_interval | 写入数据刷新周期 | 120s |
| index.load\_fixed\_bitset\_filters\_eagerly | 是否预加载嵌套类型数据 | false |
| indices.fielddata.cache.size | 聚合分析占用HEAP大小 | 10% |
| indices.breaker.fielddata.limit | 聚合分析停止内存标志 | 15% |
| script.engine.groovy.inline.aggs | 支持groovy脚本分析 | on |
| script.groovy.sandbox.enabled | 支持groovy沙盒 | true |

1. 启动命令

/opt/MediaMatch/elasticsearch/bin/elasticsearch -d

* + - 1. 初始化索引配置

1. 创建issue-index

Issue-index为不分区索引，记录所有受理单信息，创建脚本见附录.

1. 创建mediamatch

mediamatch为不分区索引，存储用户信息和用户事件信息。创建脚本见附录.

1. 创建mmconsume

mmconsume为不分区索引，存储所有消费和支付数据，创建脚本见附录.

1. 创建media-index

media-index为分区索引，按周进行索引划分，采用模板方式创建，创建脚本见附录。

1. 创建net-event

net\_event为分区索引，按日进行索引划分，采用模板方式创建，创建脚本见附录。

1. 创建order-index

order-index为不分区索引，存储所有的订购数据，创建脚本见附录。

* + 1. 安装MQL分析服务
       1. 安装文件

|  |  |
| --- | --- |
| 软件包 | 描述 |
| muses-analysis-service-v1-0.1-shaded.jar | MQL数据分析服务 |

* + - 1. 配置及启动

MQL分析服务部署位置为/opt/MediaMatch/MQLServer。

1. 启动命令

java -cp muses-analysis-service-v1-0.1-shaded.jar com.sugon.muses.v1.Main --port 8081

* + 1. 安装数据分析服务Analysis
       1. 安装文件

|  |  |
| --- | --- |
| 软件包 | 描述 |
| MediaMatchAnalysis.war | 业务指标数据分析服务 |

* + - 1. 配置及启动

数据分析服务Analysis部署位置为/opt/MediaMatch/apache-tomcat-8.0.30/webapps。

1. 启动命令

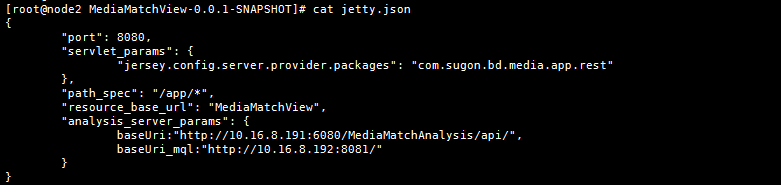
/opt/MediaMatch/apache-tomcat-8.0.30/bin/startup.sh

* + 1. 安装可视化服务View
       - 1. 安装文件说明

|  |  |
| --- | --- |
| 软件包 | 描述 |
| MediaMatchView-0.0.1-SNAPSHOT.jar | 服务Jar包 |
| jetty.json | 服务配置文件 |

* + - * 1. 配置及启动

界面展示配置文件，如下图所示



具体的部署方式为：

1. 启动命令

/opt/MediaMatch/MediaMatchView/start.sh

1. 访问路径http://10.16.8.192:8080/



1. 附录
   1. issue-index索引

{

"mappings": {

"issue": {

"properties": {

"address\_name1": {

"type": "string",

"index": "not\_analyzed"

},

"address\_name2": {

"type": "string",

"index": "not\_analyzed"

},

"address\_name3": {

"type": "string",

"index": "not\_analyzed"

},

"address\_name4": {

"type": "string",

"index": "not\_analyzed"

},

"addressoj": {

"type": "string",

"index": "not\_analyzed"

},

"area\_code": {

"type": "string",

"index": "not\_analyzed"

},

"area\_name": {

"type": "string",

"index": "not\_analyzed"

},

"busi\_type": {

"type": "string",

"index": "not\_analyzed"

},

"busi\_type\_name": {

"type": "string",

"index": "not\_analyzed",

"store": true

},

"contract\_id": {

"type": "string",

"index": "not\_analyzed"

},

"cust\_id": {

"type": "long"

},

"cust\_name": {

"type": "string",

"index": "not\_analyzed"

},

"deal\_time": {

"type": "date",

"format": "YYYY-MM-dd HH:mm:ss"

},

"group\_name": {

"type": "string",

"index": "not\_analyzed"

},

"id\_no": {

"type": "long"

},

"id\_validdate": {

"type": "date",

"store": true,

"format": "YYYY-MM-dd HH:mm:ss"

},

"login\_group\_id": {

"type": "string",

"index": "not\_analyzed"

},

"login\_group\_name": {

"type": "string",

"index": "not\_analyzed"

},

"login\_name": {

"type": "string",

"index": "not\_analyzed"

},

"login\_no": {

"type": "string",

"index": "not\_analyzed"

},

"op\_code": {

"type": "string",

"index": "not\_analyzed"

},

"op\_name": {

"type": "string",

"index": "not\_analyzed",

"store": true

},

"op\_note": {

"type": "string",

"index": "not\_analyzed"

},

"op\_time": {

"type": "date",

"format": "YYYY-MM-dd HH:mm:ss"

},

"owner\_grade": {

"type": "string",

"index": "not\_analyzed"

},

"owner\_name": {

"type": "string",

"index": "not\_analyzed"

},

"phone\_no": {

"type": "string",

"index": "not\_analyzed",

"store": true

},

"run\_name": {

"type": "string",

"index": "not\_analyzed"

},

"run\_time": {

"type": "date",

"format": "YYYY-MM-dd HH:mm:ss"

},

"sm\_name": {

"type": "string",

"index": "not\_analyzed"

},

"t1.address\_name1||t1.address\_name2": {

"type": "string"

},

"t1.address\_name1||t1.address\_name2||t1.address\_name3": {

"type": "string"

},

"t1.address\_name1||t1.address\_name2||t1.address\_name3||t1.address\_name4": {

"type": "string"

},

"terminal\_no": {

"type": "string",

"index": "not\_analyzed"

}

}

}

}

}

* 1. mediamatch索引

 {

"mappings": {

"usermsg": {

"properties": {

"address\_id": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"address\_name1": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"address\_name2": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"address\_name3": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"address\_name4": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"address\_name\_detail": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"addressoj": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"contract\_id": {

"type": "long",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"cust\_id": {

"type": "long",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"cust\_name": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"devices": {

"type": "nested",

"properties": {

"device\_type": {

"type": "long",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"factory": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"interface\_cm": {

"type": "long",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"interface\_disk": {

"type": "long",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"interface\_internet": {

"type": "long",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"interface\_tuner": {

"type": "long",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"interface\_usb": {

"type": "long",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"note": {

"type": "string"

},

"res\_class": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"res\_name": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"res\_type": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"serial\_no": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

}

}

},

"group\_id": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"group\_name": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"id\_address": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"id\_iccid": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"id\_no": {

"type": "long",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"id\_type": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"id\_validdate": {

"type": "date",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

},

"format": "yyyy-MM-dd HH:mm:ss"

},

"owner\_grade": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"owner\_name": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"owner\_type": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"phone\_no": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"run\_code": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"run\_dura": {

"type": "long",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"run\_name": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"run\_time": {

"type": "date",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

},

"format": "yyyy-MM-dd HH:mm:ss"

},

"service\_type": {

"type": "string",

"index": "not\_analyzed",

"doc\_values": true,

"fielddata": {

"format": "doc\_values"

}

},

"sm\_code": {

"type": "string",

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"out\_prepay": {

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"fielddata": {

"format": "doc\_values"

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"format": "yyyy-MM-dd"

}

}

}

}

}

* 1. new-media-index创建模板

{

"order": 0,

"template": "media-index\_\*",

"settings": {

"index.refresh\_interval": "120s",

"index.analysis.analyzer.name\_analyzer.pattern": "[，,/#；;、。.|\s]+",

"index.analysis.analyzer.media\_match\_analyzer.lowercase": "false",

"index.analysis.analyzer.media\_match\_analyzer.type": "pattern",

"index.analysis.analyzer.media\_match\_analyzer.pattern": "MEDIAMATCH",

"index.number\_of\_replicas": "1",

"index.number\_of\_shards": "10",

"index.analysis.analyzer.name\_analyzer.type": "pattern"

},

"mappings": {

"media": {

"properties": {

"area\_name": {

"index": "not\_analyzed",

"type": "string"

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"phone\_no": {

"index": "not\_analyzed",

"store": true,

"type": "string"

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"vod\_cat\_tags": {

"type": "nested",

"properties": {

"level2\_name": {

"index": "not\_analyzed",

"type": "string"

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"level3\_name": {

"index": "not\_analyzed",

"type": "string"

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"level4\_name": {

"index": "not\_analyzed",

"type": "string"

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"level1\_name": {

"index": "not\_analyzed",

"type": "string"

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"level5\_name": {

"index": "not\_analyzed",

"type": "string"

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"category\_name": {

"index": "not\_analyzed",

"store": true,

"type": "string"

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"owner\_grade": {

"index": "not\_analyzed",

"type": "string"

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"terminal\_no": {

"index": "not\_analyzed",

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"contract\_id": {

"index": "not\_analyzed",

"type": "string"

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"directors": {

"analyzer": "name\_analyzer",

"store": true,

"type": "string"

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"program\_id": {

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"type": "string"

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"login\_no": {

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"type": "string"

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"store": true,

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"type": "string"

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"content": {

"type": "string"

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"type": "long"

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"type": "long"

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"store": true,

"type": "string"

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"cust\_name": {

"index": "not\_analyzed",

"type": "string"

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"origin\_time": {

"format": "YYYY-MM-dd HH:mm:ss",

"type": "date"

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"station\_name": {

"index": "not\_analyzed",

"store": true,

"type": "string"

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"vod\_provider": {

"index": "not\_analyzed",

"type": "string"

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"series\_category": {

"index": "not\_analyzed",

"store": true,

"type": "string"

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"owner\_name": {

"index": "not\_analyzed",

"type": "string"

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"device\_id": {

"index": "not\_analyzed",

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"time\_tags": {

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"properties": {

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"format": "MM",

"type": "date"

},

"day": {

"format": "dd",

"type": "date"

},

"minute": {

"format": "YYYY-MM-dd HH:mm",

"type": "date"

}

}

},

"group\_name": {

"index": "not\_analyzed",

"type": "string"

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"station\_id": {

"index": "not\_analyzed",

"type": "string"

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"area\_code": {

"index": "not\_analyzed",

"type": "string"

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"type": "long"

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"type": "string"

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"res\_type": {

"type": "byte"

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"actors": {

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"type": "string"

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"type": "string"

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"region": {

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"address\_name3": {

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"type": "string"

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"cust\_id": {

"type": "long"

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"address\_name4": {

"index": "not\_analyzed",

"type": "string"

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"aliases": { }

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* 1. net-event创建模板

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"index.analysis.analyzer.media\_match\_analyzer.lowercase": "false",

"index.analysis.analyzer.media\_match\_analyzer.type": "pattern",

"index.analysis.analyzer.media\_match\_analyzer.pattern": "MEDIAMATCH",

"index.number\_of\_shards": "5"

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"mappings": {

"netevents": {

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"index": "not\_analyzed",

"type": "string"

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"fielddata": {

"format": "doc\_values"

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"index": "not\_analyzed",

"type": "string",

"doc\_values": true

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"CmIfUsInfos": {

"type": "nested",

"properties": {

"CmtsCmSnr": {

"type": "integer"

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"CmtsIfIndex": {

"type": "integer"

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"Index": {

"type": "integer"

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"TxPower": {

"type": "integer"

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"CmtsIfId": {

"type": "integer"

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"snr\_db": {

"fielddata": {

"format": "doc\_values"

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"doc\_values": true

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"mer\_db": {

"fielddata": {

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"total\_down\_bytes": {

"type": "double"

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"up\_dbmv": {

"fielddata": {

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"ping\_response\_time": {

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"mac": {

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"device\_name": {

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"properties": {

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},

"Index": {

"type": "integer"

},

"CmtsIfId": {

"type": "integer"

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"CmSnr": {

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"RxPower": {

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"front\_end": {

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"format": "doc\_values"

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"type": "string",

"doc\_values": true

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"fielddata": {

"format": "doc\_values"

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"index": "not\_analyzed",

"type": "string",

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"res\_class": {

"fielddata": {

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"index": "not\_analyzed",

"type": "string",

"doc\_values": true

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"ping\_lose": {

"type": "long"

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"login\_group\_name": {

"index": "not\_analyzed",

"type": "string"

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"addressoj": {

"fielddata": {

"format": "doc\_values"

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"index": "not\_analyzed",

"type": "string",

"doc\_values": true

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"res\_type": {

"fielddata": {

"format": "doc\_values"

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"index": "not\_analyzed",

"type": "string",

"doc\_values": true

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"doc\_values": true

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"type": "string"

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"fielddata": {

"format": "doc\_values"

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"type": "double",

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"type": "string",

"doc\_values": true

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"type": "string",

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"ligth\_node": {

"fielddata": {

"format": "doc\_values"

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"index": "not\_analyzed",

"type": "string",

"doc\_values": true

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"MacIndex": {

"fielddata": {

"format": "doc\_values"

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"type": "integer",

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"type": "string",

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"fielddata": {

"format": "doc\_values"

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"type": "long",

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"fielddata": {

"format": "doc\_values"

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"type": "string",

"doc\_values": true

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"event\_time": {

"fielddata": {

"format": "doc\_values"

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"format": "yyyy-MM-dd HH:mm:ss",

"type": "date",

"doc\_values": true

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"status": {

"fielddata": {

"format": "doc\_values"

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"type": "long",

"doc\_values": true

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"aliases": { }

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* 1. order-index索引创建

{

"mappings": {

"order": {

"properties": {

"address\_name1": {

"type": "string",

"index": "not\_analyzed"

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"address\_name2": {

"type": "string",

"index": "not\_analyzed"

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"address\_name3": {

"type": "string",

"index": "not\_analyzed"

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"address\_name4": {

"type": "string",

"index": "not\_analyzed"

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"addressoj": {

"type": "string",

"index": "not\_analyzed"

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"area\_code": {

"type": "string",

"index": "not\_analyzed"

},

"area\_name": {

"type": "string",

"index": "not\_analyzed"

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"business\_name": {

"type": "string",

"index": "not\_analyzed",

"store": true

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"cust\_id": {

"type": "long"

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"cust\_name": {

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