

体检报告接口文档

体检报告接入文档

版本： V 1.3

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字典

报告单类型 (report_type) :

付款方式 (pay_type) :

性别 (patient_sex)

身份证件类型 (patient_idcard_type)

文件处理 (转base64)

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版本： V 1.3

版本信息

版本	日期	说明
1.0	2020.02.12	创建
1.1	2020.08.13	由于原来10开头的地址调用链路过于复杂，调用过程存在网络不稳定的因素，需要改用59开头的地址，直连体检服务
1.2	2020.09.07	对16001接口，增加sms和report_date，修改了patient_phone，如果不需要发送短信将不再对patient_phone进行判断
1.3	2020.11.16	头部增加 platform_code 字段，用于兼容地市平台接入

接口描述

1.1. 接口模式

系统提供 Webservice 服务接口访问方式供第三方应用系统嵌入调用。

1.2. 接口定义

1.2.1. 重要声明

接口对参数命名字母大小写敏感，要求第三方接口开发商在调用各接口时，务必按照本 接口规范定义的参数名称传入，字母大小写错误将导致无法识别或数据丢失的风险。

1.2.2. 接口地址

Http://IP:Port/ERHC/ERHCSERVICE?wsdl

测试环境地址（公网）：<http://test.api.bechangedt.com:6081/ERHC/ERHCSERVICE?wsdl>

测试环境地址（卫生专网）：10.1.2.13:21106

正式环境地址（政务网）：59.202.52.129:8081

1.2.3. 接口方法

Public string doService(string HeaderInParm, string BodyInParm) 方法内的各参数及返回值，均为 xml 结构字符串。

1.2.4. 消息结构定义

1.2.4.1. 入参HeaderInParm

消息头 HeaderInParm 用来定义一次交易的摘要，通过消息头可以获得本次交易数据的发起系统、发起机构、交易编号、用户名密码、接口调用时间、调用终端的 IP 及 Mac 地址等。

该部分的顶级父节点为<header>，下表描述了该部分包含的节点内容。

参数名称	数据类型	必填	参数说明
organization_id	Varchar(9)	是	发起交易的机构代码，由平台统一分配
platform_code	Varchar(9)	否	地市平台接入时必填，且organization_id必须为该地市的医疗机构；医疗机构直连省平台可以忽略该字段
token	varchar(32)	是	接入授权码，由平台统一分配
tradeCode	Varchar(5)	是	交易码,由各业务接口指定。
request_time	DateTime	是	请求时间，格式为： yyyy-mm-dd hh:mm:ss
operator_code	Varchar(10)	是	操作员工号
operator_name	Varchar(20)	是	操作员姓名
client_ip	Varchar(20)	是	请求终端的 IP 地址，IPv4，格式如:192.168.10.2
client_macaddresses	Varchar(20)	是	请求终端的 MAC 地址，字母统一转为大写， 格式为： 01-FE-23-49-28-D0

示例：

```
<header>
  <organization_id>000000000</organization_id>
  <platform_code>p001</platform_code>
  <trade_code>10001</trade_code>
  <token>ASDGEJLSKCLLXXEKCDGEGXSDGEIURMASDM</token>
  <request_time>2018-06-01 10:08:09</request_time>
  <operator_code>A001</operator_code>
  <operator_name>张三</operator_name>
  <client_ip>192.168.10.2</client_ip>
  <client_macaddress>01-FE-23-49-28-D0</client_macaddress>
</header>
```

1.2.4.2. 入参BodyInParm

消息体 BodyInParm 用来定义具体请求的条件字段内容。该部分的顶级父节点为<body>，其子节点的内容不固定，根据业务接口实际应用定义子节点的名称、个数及格式。

body 主要分为无子业务分类节点、包含子业务分类节点两种结构：

无子分类示例

```
<body>
  <name>李四</name>
  <idcard_type>01</idcard_type>
  <idcard_value>33011000000001234</idcard_value>
</body>
```

含子分类示例

```
<body>
  <name>李四</name>
  <idcard_type>01</idcard_type>
  <idcard_value>33011000000001234</idcard_value>
  <paramgroups>
    <group>
      <param1>value1</param1>
```

```
        <param2>value2</param2>
    </group>
    <group>
        <param1>value1</param1>
        <param2>value2</param2>
    </group>
</paramgroups>
</body>
```

1.2.4.3. 返回值

返回值用于接收接口调用结果及数据返回。通过返回参数可以获得本次交易请求的处理 结果代码和错误结果消息提示内容、以及请求的业务数据或数据集合。该部分的顶级父节点为<body>。顶级父节点下的子节点，包含固定的<result>子分类节点和 0–N 个其他业务节点，业务节点由各个交易确定。

参数名称	数据类型	参数说明
tradeCode	Varchar(5)	交易码
return_code	Number(5)	交易返回值，为 1 时表示成功，负数值表示交易失败。
return_info	Varchar(100)	交易错误内容。

仅包含 result 节点的示例

```
<body>
    <result>
        <tradeCode>10001</tradeCode>
        <return_code>1</return_code>
        <return_info>注销成功</return_info>
    </result>
</body>
```

包含 result 和一个业务节点的示例

```
<body>
    <result>
        <tradeCode>10001</tradeCode>
        <return_code>1</return_code>
```

```

        <return_info>更新成功</return_info>
    </result>
    <msg>
        <empi>ABD17E7ED399EF68AB5660155D6E226D2C92EAC3254A4A66BED83AED0ADA1E9E</empi>
        <erhc_cardno>
98FF9F2C05145CB9305E9D8A57E072BB51180CA49E5BE5E9D41BCE3A9A571928
        </erhc_cardno>
        <erhc_enddate>9999-12-31</erhc_enddate>
    </msg>
</body>

```

交易功能

【16000】体检报告内容上传

- 交易码：16000
- 功能说明：体检报告上传，内容包括：用户信息，体检报告信息，体检缴费信息，体检结果
- 入口参数BodyInParm：

参数名称	数据类型	必填	参数说明
patient_name	Varchar(30)	是	用户姓名
patient_idcard_type	Varchar(2)	是	证件类型 (参照数据字典【身份证件类型】目前只支持身份证)
patient_idcard_value	Varchar(32)	是	证件号码，根据证件类型传入相应的证件号码
patient_age	Varchar(3)	否	用户年龄
patient_sex	Varchar(3)	否	用户性别，参照数据字典【性别】
patient_marital_status	Varchar(2)	否	用户婚姻状况 0 未婚 1 已婚
patient_phone	Varchar(20)	是	用户联系电话
patient_department	Varchar(20)	否	用户工作部门

patient_unit	Varchar(20)	否	用户单位名称
med_org_report_id	Varchar(50)	是	院内体检报告唯一标识
report_name	Varchar(50)	是	体检报告名称
report_no	Varchar(50)	否	体检号
report_card_no	Varchar(50)	否	体检卡号
appointment_date	Varchar(50)	否	预约日期（格式：yyyy-MM-dd HH:mm:ss）
examination_date	Varchar(50)	是	体检日期（格式：yyyy-MM-dd HH:mm:ss）
medical_department_code	Varchar(50)	是	科室编码
medical_department_name	Varchar(50)	是	科室名称
package_no	Varchar(20)	否	套餐代码
package_name	Varchar(20)	否	套餐名字
amount_receivable	Varchar(20)	否	应收金额（单位：分）
amount_received	Varchar(20)	否	实收金额（单位：分）
pay_type	Varchar(3)	否	付款方式 （参照数据字典【付款方式】）
pay_status	Varchar(1)	否	收费状态 1已收费 2未收费
refund_status	Varchar(1)	否	退费状态 1已退费 2未退费
project_list/project（开始）		否	收费项目列表
project_code	Varchar(20)	否	收费项目编码
project_name	Varchar(20)	否	收费项目名称
project_list/project（结束）		否	收费项目列表
health_advice	Varchar(500)	否	健康建议
audit_doctor	Varchar(50)	否	审核医生
audit_date	Varchar(50)	否	审核日期（格式：yyyy-MM-dd HH:mm:ss）
summary_result	Varchar(500)	是	终检结论
summary_doctor	Varchar(50)	是	终检医生
summary_date	Varchar(50)	是	终检日期（格式：yyyy-MM-dd HH:mm:ss）

report_classes/report_class (开始)		是	项目大类列表
report_class_code	Varchar(32)	是	体检结果大类编码
report_class_name	Varchar(50)	是	体检结果大类名称
report_class_conclusion	Varchar(500)	是	体检大类结论
report_classes/report_class_details/report_class_detail (开始)		是	体检结果细项列表
report_class_details_code	Varchar(32)	是	体检结果细项代码
report_class_details_name	Varchar(50)	是	体检结果细项名称
unit	Varchar(20)	是	体检结果细项的计量单位
reference	Varchar(50)	是	体检结果细项的参考值
image	Varchar(-)	否	经 Base64 编码后的图片数据，多个图片使用^分割
details_result	varchar(500)	是	体检结果细项结果
details_doctor	varchar(50)	是	体检结果细项医生
details_date	varchar(50)	是	体检日期（格式：yyyy-MM-dd HH:mm:ss）
report_classes/report_class_details/report_class_detail (结束)		是	体检结果细项列表
report_classes/report_class (结束)		是	项目大类列表

请求参数示例：

```

1  <header>
2    <organization_id>000000000</organization_id>
3    <trade_code>16000</trade_code>
4    <token>9797f0920ead2fe2afab85eb0557ed7e</token>
5    <request_time>2020-02-18 11:48:09</request_time>
6    <operator_code>A001</operator_code>
7    <operator_name>张三</operator_name>
8    <client_ip>192.168.10.2</client_ip>
9    <client_macaddress>01-FE-23-49-28-D0</client_macaddress>

```

```

10 </header>
11 <body>
12     <patient_name>李四</patient_name>
13     <patient_idcard_type>01</patient_idcard_type>
14     <patient_idcard_value>33011000000001234</patient_idcard_value
15     >
16     <patient_phone>18222368261</patient_phone>
17     <patient_age>12</patient_age>
18     <patient_sex>1</patient_sex>
19     <patient_marital_status>1</patient_marital_status>
20     <patient_department>测试部门</patient_department>
21     <patient_unit>测试单位</patient_unit>
22     <med_org_report_id>1234567890</med_org_report_id>
23     <report_name>测试体检报告</report_name>
24     <report_no>测试体检报告N0</report_no>
25     <report_card_no>测试体检报告CN0</report_card_no>
26     <package_no>套餐1</package_no>
27     <package_name>套餐名字</package_name>
28     <appointment_date>2020-01-01 00:00:00</appointment_date>
29     <examination_date>2020-01-01 00:00:00</examination_date>
30     <medical_department_code>测试科室code</medical_department_code
31     >
32     <medical_department_name>测试科室</medical_department_name>
33     <amount_receivable>100</amount_receivable>
34     <amount_received>99</amount_received>
35     <pay_type>1</pay_type>
36     <pay_status>1</pay_status>
37     <refund_status>0</refund_status>
38     <project_list>
39     <project>
40         <project_code>value1</project_code>
41         <project_name>value2</project_name>
42     </project>
43     <project>
44         <project_code>value1</project_code>
45         <project_name>value2</project_name>
46     </project>
47 </project_list>
48 <summary_result>终检结论</summary_result>
49 <summary_doctor>终检医生</summary_doctor>

```

```

48     <summary_date>2020-01-01 00:00:00</summary_date>
49     <report_classes>
50         <report_class>
51             <report_class_code>体检结果大类编码</report_class_code>
52             <report_class_name>体检结果大类名称</report_class_name>
53             <report_class_conclusion>体检大类结论</report_class_con
54             clusion>
55             <report_class_details>
56                 <report_class_detail>
57                     <report_class_details_code>体检结果细项代码</rep
58                     ort_class_details_code>
59                     <report_class_details_name>体检结果细项名称</rep
60                     ort_class_details_name>
61                     <unit>体检结果细项的计量单位</unit>
62                     <reference>体检结果细项的参考值</reference>
63                     <image>base64String1^base64String2</image>
64                     <details_result>体检结果细项结果</details_result
65                     >
66                     <details_doctor>体检结果细项医生</details_doctor
67                     >
68                     <details_date>2020-02-14 20:18:09</details_da
69                     te>
70                 </report_class_detail>
71                 <report_class_detail>
72                     <report_class_details_code>体检结果细项代码</rep
73                     ort_class_details_code>
74                     <report_class_details_name>体检结果细项名称</rep
75                     ort_class_details_name>
76                     <unit>体检结果细项的计量单位</unit>
77                     <reference>体检结果细项的参考值</reference>
78                     <image>base64String1^base64String2</image>
79                     <details_result>体检结果细项结果</details_result
80                     >
81                     <details_doctor>体检结果细项医生</details_doctor
82                     >
83                     <details_date>2020-02-14 20:18:09</details_da
84                     te>
85                 </report_class_detail>
86             </report_class_details>
87         </report_class>

```

```

77     </report_classes>
78 </body>

```

- 返回值：

参数名称	数据类型	参数说明
节点：result		
见接口定义【返回值】		
节点：msg		
bq_report_id	Varchar(32)	体检报告在省平台唯一索引

返回值示例：

```

1 <body>
2     <result>
3         <tradeCode>16000</tradeCode>
4         <return_code>1</return_code>
5         <return_info>16000交易成功</return_info>
6     </result>
7     <msg>
8         <bq_report_id>95193d5cf636aff01a5bd9caf56170b2</bq_report
    _id>
9     </msg>
10 </body>

```

【16001】体检报告pdf上传

- 交易码：16001
- 功能说明：体检报告pdf上传，内容包括：用户信息，体检pdf文稿，体检类型
- 入口参数BodyInParm：

参数名称	数据类型	必填	参数说明
patient_name	Varchar(30)	是	用户姓名
patient_idcard_type	Varchar(2)	是	证件类型 (参照数据字典【身份证件类型】目前只支持身份证)
patient_idcard_value	Varchar(32)	是	证件号码，根据证件类型传入相应的证件号码 如果最后一位为字母，则需要大写 如：x无法识别，需要使用X
patient_age	Varchar(3)	否	用户年龄
patient_sex	Varchar(3)	否	用户性别，参照数据字典【性别】
patient_marital_status	Varchar(2)	否	用户婚姻状况 0 未婚 1 已婚
patient_phone	Varchar(20)	否	用户联系电话，需要发送短信时必填
sms	Varchar(1)	否	0 不需要发送短信、1 需要发送短信，默认需要发送短信，如果不需要发送短信则不对patient_phone字段进行值校验
patient_department	Varchar(20)	否	用户工作部门
patient_unit	Varchar(20)	否	用户单位名称
med_org_report_id	Varchar(50)	是	院内体检报告唯一标识
med_org_report_pdf_id	Varchar(50)	是	院内体检报告pdf唯一标识
examination_date	Varchar(50)	是	体检日期（格式：yyyy-MM-dd HH:mm:ss）
report_date	Varchar(50)	是	报告日期（格式：yyyy-MM-dd HH:mm:ss）
report_type	Varchar(20)	是	体检报告单类型 (参照数据字典【报告单类型】)
reprot_pdf	Varchar(-)	是	经 Base64 编码后的pdf数据

请求参数示例：

```
1 <header>
```

```

2      <organization_id>000000000</organization_id>
3      <trade_code>16001</trade_code>
4      <token>9797f0920ead2fe2afab85eb0557ed7e</token>
5      <request_time>2020-02-18 11:48:09</request_time>
6      <operator_code>A001</operator_code>
7      <operator_name>张三</operator_name>
8      <client_ip>192.168.10.2</client_ip>
9      <client_macaddress>01-FE-23-49-28-D0</client_macaddress>
10 </header>
11 <body>
12     <patient_name>李四</patient_name>
13     <patient_idcard_type>01</patient_idcard_type>
14     <patient_idcard_value>33011000000001234</patient_idcard_value>
15     <patient_phone>18222368261</patient_phone>
16     <patient_age>12</patient_age>
17     <patient_sex>1</patient_sex>
18     <patient_marital_status>1</patient_marital_status>
19     <patient_department>测试部门</patient_department>
20     <patient_unit>测试单位</patient_unit>
21     <med_org_report_id>1234567890</med_org_report_id>
22     <med_org_report_pdf_id>4343432324312</med_org_report_pdf_id>
23     <examination_date>2020-02-18 11:48:09</examination_date>
24     <report_type>123</report_type>
25     <reprot_pdf>查看base64示例</reprot_pdf>
26 </body>

```

- 1 JVBERi0xLjckKjCkZx9gNCjEgMCBvYmoNPdWvTmFtZXZMgPDwvRGVzdHMgNCAwIFI+
PiAvT3V0bGlu
- 2 ZXMgNSAwIFIgL1BhZ2VzIDIgMCBSIC9UeXBlic9DYXRhbG9nPj4NZW5kb2JqDTMg
MCBvYmoNPdWv
- 3 QXV0aG9yIC0dWVzZCkgL0NvbW1lbRzICgpIC9Db21wYW55ICgpIC9DcmVhdGlv
bkRhdGUgKEQ6
- 4 MjAyMDAyMTcx0DEzMjc rMTAnMTMnKSAvQ3JlYXRvc iAo/v8AVwBQAFMAIGWHW1cp
IC9LZXl3b3Jk
- 5 cyAoKSAvTW9krGF0ZSAoRDoyMDIwMDIxNzE4MTMyNysxMCcxMy cpIC90cm9kdWNl

ciAoKSAvU291

6 cmNlTW9kaWZpZWQgKEQ6MjAyMDAyMTcxODEzMjc rMTAnMTMnKSAvU3ViamVjdCAo
KSAvVGl0bGUg

7 KCkgL1RyYXBwZWQgL0ZhbHNlPj4NZW5kb2JqDTEzIDAgb2JqDTw8L0FJUyBmYWxz
ZSAvQk0gL05v

8 cm1hbCAvQ0EgMSAvVHlwZSAvRXh0R1N0YXRlIC9jYSAxPj4NZW5kb2JqDTYgMCBv
YmoNPDwvQ29u

9 dGVudHMgNyAwIFIgL01lZGhlQm94IFswIDAgNTk1LjMgODQxLjldIC9QYXJlbnQg
MiAwIFIgL1Jl

10 c291cmNlcyA8PC9FeHRHU3RhdGUgPDwvR1MxMyAxMyAwIFI+PiAvRm9udCA8PC9G
VDggOCAwIFI+

11 Pj4+IC9UeXBlic9QYwdlPj4NZW5kb2JqDTcgMCBvYmoNPDwvRmlsdGVyIC9GbGF0
ZURlY29kZSAv

12 TGVuZ3RoIDE0OD4+DQpzdHJlYW0NCnicZY7NCsJADITvQt4hZ8E02R9ooHgQtSB4
UAM+gNhCoULr

13 wdd3t/ZUGYZMPgaSAQQ5aZNHGYQUHz0MkFnUSH6G4xPua3wl/gGH5+RTcjf1GK81
7Gz0YwvF0Up0

14 rGgNFPVNPLZvY0L40zUlTec8hYjWQ8UsbmsdijB5za/YvmJRzrAUihoWbLn/d1YH
g0vSF0SALtMN

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• 返回值：

参数名称	数据类型	参数说明
节点：result		
见接口定义【返回值】		
节点：msg		
bq_report_pdf_id	Varchar(32)	体检报告pdf在省平台唯一索引

返回值示例：

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3     <tradeCode>16001</tradeCode>
4     <return_code>1</return_code>
5     <return_info>16001交易成功</return_info>
6   </result>
7   <msg>
8     <bq_report_pdf_id>d5dcf477760674590f628b50c43d6212</bq_re
  port_pdf_id>
9   </msg>
10 </body>
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字典

报告单类型（report_type）：

枚举值	枚举含义
LAB	检验
EC	心电
PAT	病理
ANES	麻醉
RAD	放射
ES	内窥镜
CP	细胞病理
PE	体检
ECT	核医学扫描
NRS	护理监测
BLB	血库
H_R	护理记录单

H_V	入院评估单
H_T	体温单
EMR_OP	手术资料（手术记录）
EMR_BCJL	病程记录
EMR_SWZL	死亡资料
EMR_TLJL	讨论记录
EMR_HZJL	会诊记录
EMR_TYD	通用单
EMR_YZD	医嘱单
EMR_CQYZ	长期医嘱
EMR_LSYZ	临时医嘱
EMR_CYJL	出院记录（死亡资料）
EMR_XBASY	病案首页
EMR_SQTLJL	术前讨论记录
EMR_ZYZ	住院志
EMR_QT	其它病历资料
CR	数字拍片
CT	横断面扫描
RF	胃肠
MR	核磁共振
XA	造影
US	超声
USF	妇产超声
XNUS	心内超声
HOLTER	体检特检（骨密度、动脉硬化、肺功能、TCD、眼底照相等）
OTHER	其他

付款方式（pay_type）：

枚举值	枚举含义
01	现金
02	支付宝
03	微信
04	银联
05	医保卡
06	就诊卡
07	pos机
08	其他

性别 (patient_sex)

枚举值	枚举含义
0	未知的性别
1	男
2	女
9	未说明的性别

身份证件类型 (patient_idcard_type)

枚举值	枚举含义
01	居民身份证
02	居民户口簿
03	护照
04	军官证
05	驾驶证

06	港澳居民来往内地通行证
07	台湾居民来往内地通行证
08	出生医学证明
99	其他法定有效证件

文件处理（转base64）

```

1 import sun.misc.BASE64Encoder;
2 import java.io.FileInputStream;
3 import java.io.IOException;
4 import java.io.InputStream;
5
6 public class Base64Convert {
7     /**
8      * @Description: 文件转化成base64字符串
9      * @param: path
10     * @Return:
11     */
12     public static String GetFileStr(String path) {
13         //将文件转化为字节数组字符串，并对其进行Base64编码处理
14         //待处理的文件
15         String file = path;
16         InputStream in = null;
17         byte[] data = null;
18         //读取文件字节数组
19         try {
20             in = new FileInputStream(file);
21             data = new byte[in.available()];
22             in.read(data);
23             in.close();
24         } catch (IOException e) {
25             e.printStackTrace();
26         }
27         //对字节数组Base64编码
28         BASE64Encoder encoder = new BASE64Encoder();
29         //返回Base64编码过的字节数组字符串

```

```
30         return encoder.encode(data);
31     }
32     public static void main(String[] args) {
33         System.out.println(GetFileStr("XXX/图片1.png"));
34     }
35 }
```