ECH AGENT API

(Confidential)

Version 1.0

09/05/2018

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1. Introduction

1.1. Purpose

The purpose of this document is to give an understanding about how echannelling system can be integrated with a payment soltuion.

1.2. Intendant Audience

The Intendant audience is the technical people those who have the technical understanding about the software programing.

2. Security

eChannelling API use the OAuth 2.0 protocol authentication and authorization.

1. Before the application can access private data using the API, it must obtain an access token that grants access to the API. The client application can request an access token using the below URL.

Request

http://<host>/api/oauth/token?grant_type=client_credentials&client_id=ipay_user&client_secret=c0
535e4be2b79ffd93291305436bf889314e4a3faec05ecffcbb7df31ad9e51a

2. After obtaining the access token each of the transaction should come with the access token as given in the below example.

http://host/api/member?access_token=<access_token>

To access specific API resource, client should pass the access token in request header as below

Key	Value
Authorization	Bearer <access_token>
Content-Type	application/json

3. Resource URLs

3.1. Specialty List

Specialty List	
Summary	Return the List of specializations.
Type	POST
URL	/api/agent /specializations
Rules	<table><tr><th>Names</th><th>Description</th><th>Rules</th></tr><tr><td>type</td><td>string</td><td>Required - private</td></tr><tr><td>bookingChannel</td><td>string</td><td>Required - WEB_IPAY</td></tr></table>
Input Parameter	```json { "type": "<type>", "bookingChannel": "<bookingChannel>" } ```
Success Response	```json { "code":"202", "message":"Accepted", "data":{ "specialityMap":{ "< index>":"<description>", ... } } } ```

3.2. Hospital List

Hospital List	
Summary	Return the hospitals enable for third party channeling provider
Type	POST
URL	api/agent/hospitals
Rules	<table><tr><th>Names</th><th>Description</th><th>Rules</th></tr><tr><td>type</td><td>string</td><td>Required - private</td></tr><tr><td>bookingChannel</td><td>string</td><td>Required - WEB_IPAY</td></tr></table>
Input Parameter	```json { "type": "<type>", "bookingChannel": "<bookingChannel>" } ```
Success Response	```json { "code":"202", "message":"Accepted", "data":{ "hosMap":{ "< index>":"<description>", ```

```
                                    }
          },
          "detailMessage":"Success"
      }
```

3.3. Available Doctor list

Doctor list	
Summary	Return Doctors list according to search criteria
Type	POST
URL	api/agent/doctorAvailability

Rules	Names	Description	Rules	
	type	string	Required - private	
	bookingChannel	string	Required - WEB_IPAY	
	hosID	string	Not Required	
	specID	string	Not Required	
	date	string	Not Required('dd-mm-yyyy')	
	name	string	Not Required	
	page	int	Not Required	
	offset	int	Not Required	

| **Input Parameter** | ```
{
     "type": "<type>",
     "bookingChannel": "<bookingChannel>",
     "hosID": "<hospital_id>",
     "specID": "<specialization_id>",
     "date": "<appointment_date>",
     "name": "<doctor_name>",
     "page": "<page_number>",
     "offset": "< offset _number>"
}
``` |
|---|---|
| **Success Response** | ```
  {
   "code": "202",
   "message": "Accepted",
   "data": {
        "resultMap": {
             "<string:index>": {
                  "AppDay": "<string:session_day>",
                  "HosTown": "<string:hospital_location>",
                  "SpecName": "<string:specialization_name>",
                  "HosName": "<string:hospital_name>",
                  "SpecializationId":<string:specialization_id>"
                  "HosCode": "<string:hospital_code>",
                  "AppDate": "<string:session_day>",
                  "DoctorNotes": "<string:doctor_note>",
``` |

```
                         "DocName": "<string:doctor_name>",
                         "DoctorNo": "<doctor_number>"
                    },
                    …..
                }
            },
            "detailMessage": "Success",
            "page": {
                "pageNo": <int:page_number>,
                "offset": <int:offset>,
                "pages": <int:pages>
            }
        }
```

3.4. Get Session Details

Get Session Details	
Summary	Return Doctor Session list according to search criteria.
Type	Post
URL	api/agent/doctorSessions
Rules	<table><tr><td>Names</td><td>Description</td><td>Rules</td></tr><tr><td>bookingChannel</td><td>string</td><td>Required - WEB_IPAY</td></tr><tr><td>hosID</td><td>string</td><td>Required</td></tr><tr><td>docNo</td><td>string</td><td>Required</td></tr><tr><td>page</td><td>int</td><td>If docNo not given page required</td></tr><tr><td>offset</td><td>int</td><td>If docNo not given offset required</td></tr></table>
Input Parameter	```{
"hosID":"H03",
"docNo":"D0389",
"bookingChannel":" WEB_IPAY ",
"specID":"",
"page":"0",
"offset":"0",
"date":""
}```
Success Response	```{
"code":"202",
"message":"Accepted",
"data":{```

<table>
<tr><td rowspan="2"></td><td>

```
        "result":{
            "<string index>": ":{
                "appTimeInterval":<int time_interval>,
                "hosFee":<double hospital_fee>,
                "docName":"<string doctor_name>,"
                "docNo":"<string doctor_number>,"
                "docForeignFee":<double foreign_doctor_fee>,
                "nextNo":<int next_no>,
                "hosId":"<string hospital_id>",
                "remarks":"<string status>",
                "vatDocCharge":<double doctor_vat>,
                "docFee":<double doctor_fee>,
                "hosName"<string hospital_name>",
                "startTime":"<string session_time>",
                "vatHosCharge":<double hospital_vat>,
                "amount":<double amount>,
                "hosForeignFee":<double foreign_hospital_fee>,
                "vatDocForeignCharge":<double for_doc_fee_vat>,
                "specID":"<string specialization_id>",
                "maxPatient":<int maximum_patients>,
                "activePatient":"<int active_patients>",
                "foreignAmount":<double foreign_amount >,
                "appDate":"<string session_date>",
                "vatHosForeignCharge":<double for_hos_fee_vat>,
                "appDay":"<string session_day>"
            },
          ….
            }
        },
        "detailMessage":"Success",
        "page":{
            "pageNo": <int:page_number>,
            "offset": <int:offset>,
            "pages": <int:pages>

        }
    }
```
</td></tr>
<tr><td></td></tr>
</table>

3.5.   Next Appointment Number

Next Appointment Number	
Summary	Return Next Appointment Number

Type	Post
URL	api/agent/nextAppointmentNo

Rules			
	Names	**Description**	**Rules**
	bookingChannel	string	Required - WEB_IPAY
	hosID	string	Required
	docNo	string	Required
	date	string	Required (Format 'dd-mm-yyyy')
	time	string	Required(Format '0000')

Input Parameter	`{`
	    `"hosID": "< hospital_id>",`
	    `"docNo": "< doctor_id>",`
	    `"date": "<session_date> ",`
	    `"time": "<session_time>",`
	    `"bookingChannel": "< bookingChannel >"`
	`}`

Success Response	
| | ```json
{
    "code":"202",
    "message":"Accepted",
    "data":{
        "number":{
            "number":<int:next_number>
        }
    },
    "detailMessage":"Success"
}
``` |

3.6. Appointment Fee

Next Appointment Number	
Summary	Return Next Appointment Number
Type	Post
URL	api/agent/fee

Rules			
	Names	**Description**	**Rules**
	paymentChannel	string	Required - WEB_IPAY
	hosID	string	Required
	docNo	string	Required
	date	string	Required (Format 'dd-mm-yyyy')
	theDay	string	Required (Format : Sunday)
	time	string	Required(Format '0000')

| Input Parameter | ```json
{
  "patient":{
    "member":"",
    "needSMS":"",
    "nsr":"",
    "foreign":"",
    "teleNo":"",
    "title":"",
    "patientName":"",
    "nid":""
  },
  "sessionDetails":{
    "hosId":"< hospital_id>",
    "docId":"< doctor_id>",
    "theDay":"< day>",
    "startTime":"<session_time>",
    "theDate":"<session_date>"
  },
  "payment":{
    "paymentChannel":"< bookingChannel >"
  }
}
``` |
|---|---|
| Success Response | ```json
{
    "code":"202",
    "message":"Accepted",
    "data":{
       "number":{
           "number":<int:next_number>
       }
    },
    "detailMessage":"Success"
}
``` |

3.7. Create Temporary Booking

save		
Summary	Create a Temporary Booking in the System.	
Type	POST	
URL	api/agent/save	
Rules		

Names	Description	Rules
member	string	Not Required
needSMS	string	Not Required

nsr	string	Not Required	
foreign	string	Not Required	
teleNo	string	Required(Length 10(0xxxxxxxxx),Numeric only)	
title	string	Required(Numeric not allowed)	
patientName	string	Required(Numeric not allowed)	
nid	string	Required	
clientRefNumber	string	Not Required	
hosId	string	Required	
docId	string	Required	
theDay	string	Required	
startTime	string	Required(Format '0000')	
theDate	string	Required(Format 'dd-mm-yyyy')	
paymentMode	string	Required(IPAY)	
bankCode	string	Not Required	
paymentChannel	string	Required (WEB_IPAY)	
channelFrom	string	Required(W)	

Input Parameter

```
{
        "patient": {
                "member": "<member_id>",
                "needSMS": "<request_sms",
                "nsr": "<nsr>",
                "foreign": "<foreign>",
                "teleNo": "<telephone_number>",
                "title": "<patient_title>",
                "patientName": "<patient_name>",
                "nid": "<patient_title>",
                "email":"<email>"
                "clientRefNumber": "<client_reference>"

        },
        "sessionDetails": {
                "hosId": "<hospital_id>",
                "docId": "<doctor_id>",
                "theDay": "<session_day?>",
                "startTime": "<session_time>",
                "theDate": "<session_date>"
        },
        "payment": {
                "paymentMode": "<payment_mode>",
                "bankCode": "<bank_code>",
                "paymentChannel": "<bookingChannel>",
                "channelFrom": "<channel_from>"
        }
}
```

Success Response

```
{
    "code": "202",
    "message": "Accepted",
    "data": {
            "appointment": {
```

```
                              "refNo": "<string reference_number>",
                              "patientNo": <int:appointment_no>,
                              "allPatientNo": <int:patient_count>,
                              "showPno": <boolean show_number>,
                              "showTime": <boolean show_time>,
                              "chRoom": <int:room_number>,
                              "timeInterval": <int:time_interval>,
                              "sessionDetails": {
                                    "hosId": "<string:hospital_id>",
                                     "appTimeInterval": <int time_interval>,
                                    "amount": <double appointment_amount>,
                                    "hosAmount": <double hos_fee>,,
                                    "docAmount": <double doc_fee>,,
                                    "docId": "<string doctor_id>",
                                    "theDate": "<string session_date>",
                                    "theDay": "<string session_day>","",
                                    "startTime": "<string session_time>","",
                                    "arriveTime": "<string patient_time>"
                              },
                              "patient": {
                                    "member": <boolean:is_member>,
                                    "needSMS": <boolean:request_sms>,
                                    "nsr": <boolean:nsr>,
                                    "foreign": <boolean:foreign>,
                                    "teleNo": "<string:telephone>",
                                    "title": "<string:title>",
                                    "patientName": "<string:patient_name>",
                                    "nid": "<string:nic>",
                                    "memberId": "<string:member_id>",
                                    "patientFullName": "<string fullname>",
                        "patientFullNameWithMobile":"<string fullname_mob>"
                  },
                              "price": {
                                    "totalAmount": <double total_fee>,
                                    "nsrFee": <double total_fee>,
                                    "charge": <double total_fee>,
                                    "hosCharge": <double hospital_fee>,
                                    "hosChargeWithoutVat": <double doc_fee>,
                                    "docCharge": <double doc_fee_with_vat>,
                                    "echCharge": <double ech_fee>,
                                    "smsCharge": <double sms_fee>,
                                    "nbtCharge": <double nbt_fee>,
                                    "vatCharge": <double vat_fee>,
                                    "agentCharge": <double agent_fee>,
                                    "docVatPercentage":<double doc_vat_per>,
                                    "hosVatPercentage": <double hos_vat_per>,
                                    "vatPercentage": <double vat_per>
                              },
                              "payment": {
                                    "paymentMode": "<string payment_mode>",
                                    "paymentChannel": "string payment_channel"
```

```
                },
                "status": "<string appointment_status>"
            }
        },
        "detailMessage": "success"
    }
```

3.8 Complete Booking

<table>
<tr><td colspan="2" align="center">save</td></tr>
<tr><td>Summary</td><td>Complete the Booking.</td></tr>
<tr><td>Type</td><td>POST</td></tr>
<tr><td>URL</td><td>api/agent/complete</td></tr>
<tr><td>Rules</td>
<td>

Names	Description	Rules
refNo	string	Required
paymentMode	string	Required(IPAY)
paymentChannel	string	Required (WEB_IPAY)
channelFrom	string	Required(W)

</td></tr>
<tr><td>Input Parameter</td>
<td>

```
{
    "refNo": "<reference_number>",
    "payment": {
        "paymentMode": "<payment_mode>",
        "paymentChannel": "<payment_channel>",
        "channelFrom": "<channel_from>"
    }
}
```

</td></tr>
<tr><td>Success Response</td>
<td>

```
{
    "code": "202",
    "message": "Accepted",
    "data": {
        "appointment": {
            "refNo": "<string reference_number>",
            "patientNo": <int:appointment_no>,
            "allPatientNo": <int:patient_count>,
            "showPno": <boolean show_number>,
            "showTime": <boolean show_time>,
            "givenTime ": <string patient_time>,
            "chRoom": <int:room_number>,
            "timeInterval": <int:time_interval>,
            "sessionDetails": {
                "hosId": "<string:hospital_id>",
                "docname": "<string:doctor_name> ",
```

</td></tr>
</table>

```
                              "amount": <double appointment_amount>,
                            " appTimeInterval <int:time_interval>,
                              "hosAmount": <double hos_fee>,
                              "docAmount": <double doc_fee>,
                              "docId": "<string doctor_id>",
                           "specialization":"<string specialization >",
                              "theDate": "<string session_date>",
                              "theDay": "<string session_day>",",
                              "startTime": "<string session_time>",
                         "hosLocation": "< string hospital_location >",
                           "hosName": "< string hospital_name >",
                                "status": "< string status >"
                   },
                   "patient": {
                           "member": <boolean:is_member>,
                           "needSMS": <boolean:request_sms>,
                           "nsr": <boolean:nsr>,
                           "foreign": <boolean:foreign>,
                           "teleNo": "<string:telephone>",
                           "title": "<string:title>",
                           "patientName": "<string:patient_name>",
                           "nid": "<string:nic>",
                           "patientFullName": "<string fullname>",
                   "patientFullNameWithMobile":"<string fullname_mob>"

        },
                   "price": {
                           "totalAmount": <double total_fee>,
                           "nsrFee": <double total_fee>,
                           "charge": <double total_fee>,
                           "hosCharge": <double hospital_fee>,
                           "hosChargeWithoutVat": <double doc_fee>,
                           "docCharge": <double doc_fee_with_vat>,
                           "echCharge": <double ech_fee>,
                           "smsCharge": <double sms_fee>,
                           "nbtCharge": <double nbt_fee>,
                           "vatCharge": <double vat_fee>,
                           "agentCharge": <double agent_fee>,
                           "docVatPercentage":<double doc_vat_per>,
                           "hosVatPercentage": <double hos_vat_per>,
                           "vatPercentage": <double vat_per>
                   },
                   "payment": {
                           "paymentMode": "<string payment_mode>",
                           "paymentChannel": "string payment_channel"
                   },

                   "status": "<string appointment_status>"
              }
        },
        "detailMessage": "success
```

| | ```
        }

``` |

3.9 Doctor List

activeDoctorList	
Summary	Doctor List of active .
Type	POST
URL	api/agent/activeDoctorList
Rules	<table><tr><td>**Names**</td><td>**Description**</td><td>**Rules**</td></tr><tr><td>paymentChannel</td><td>string</td><td>Required (WEB_IPAY)</td></tr></table>
| **Input Parameter** | ```
{
        "paymentChannel": "<payment_channel>",
}
``` |
| **Success Response** | ```
    {
        "code": "202",
        "message": "Accepted",
        "data": {
       "doctorList": [
                {
                    "docNo": "<string:doctor_No>",
                    "docTitle": "<string:doctor_Title>",
                    "docFName": "string:doctor_FirstName",
                    "docLName": "<string:doctor_lastName>
                    "specName": "<string:specialization>"
                },

        "detailMessage": "Success"
    }
``` |

4. References

4.1. Session Remark Description

Remark	Description
AVAILABLE	Session is available for booking
FULL	Session is full
NOT_GIVEN	Session not given
HOLIDAY	Holiday session
WEB_QUOTA_FULL	Web appointments full

WEB_NOT_GIVEN	Web not given
WEB_STOP	Web stopped

4.2. Appointment Status

Status	Status Name	Comment
1	Active	Active valid appointment
2	Pending	Appointment is pending for payments
3	User Error	Appointment canceled by the agent
4	Cancelled	Appointment cancelled
5	Refund	Appointment Refunded
6	Not come	Patient Not come
7	Patient Return	Patient Returned

5. Error Codes

Error Code	Description
202	Accepted
403	Forbidden
400	Bad Request
406	Not Acceptable
500	Internal Server Error
503	Service unavailable
504	Gateway timeout