Gray Line – Online Booking System Implementation Guide for Agency

Content

Document Version

Version No	Preparation Date	Remarks
1.0	1 Aug 2018	Initial Release
1.01	19 Oct 2018	Update Sample orderProduct Request in JSON format Add response code PROD_0009 and PROD_0010
1.1	15 Nov 2018	Add subQty to queryProduct Request Add response code PROD_0011
1.2	31 Dec 2018	Add serviceCharge to getProductDetail and queryProduct response
1.3	2 Jan 2019	Add Turbojet productType 'open-sailing' to getProductDetail and queryProduct

Response Message Format

Sample response message:

```
{
    "meta": {
        "code": "RESP_OKAY",
        "message": "Success"
    },
    "data": {}
}
```

code	message
RESP_OKAY	Success
GENL_0000	Unhandled Exception
GENL_0001	The input is incorrect
GENL_0002	Database Error
SECU_0001	Unauthorized
AUTH_0001	Email and password does not match
PROD_0001	Product not found
PROD_0002	Product cannot be accessed
PROD_0003	TurboJET departure date / time missing
PROD_0004	TurboJET return date / time missing
PROD_0005	TurboJET departure / return date not available
PROD_0006	TurboJET departure / return code incorrect
PROD_0007	Product type is invalid
PROD_0008	Date not available
PROD_0009	TurboJET quantity missing
PROD_0010	TurboJET class missing
PROD_0011	Product quantity missing
ORDE_0001	Invalid nationality
ORDE_0002	"Guarantee Seats" function is applicable for F.I.T. bookings of 6 sets of packages or less. For group bookings, please contact us at 2368 7114.
ORDE_0003	TurboJET departure / return flight no. missing

ORDE_0004	Total price incorrect
ORDE_0005	Invalid Request
ORDE_0006	Product quantity missing
ORDE_0007	Please double check your booking
ORDE_0008	Fail to create order
ORDE_0009	TurboJET departure / return time not available
ORDE_0010	TurboJET departure / return flight no. not available

Description of Web API call

getNationalityList

URL	/api/getNationalityList
Description	Get passport nationality list.

Format of **getNationalityList** request		
Field	Type	Description
email*	String	Login email
password*	String	Password
language	String	Language: 'en' – English 'zh-hk' – Traditional Chinese 'zh-cn' – Simplified Chinese Default language is English

*Mandatory field

Sample **getNationalityList** Request in JSON format:

```
{
"email": "test@test.com",
"password": "00000000"
}
```

getProductList

URL	/api/getProductList
Description	Get product list.

Format of **getProductList** request		
Field	Type	Description
email*	String	Login email
password*	String	Password
language	String	Language
		Allowed values:
		'en' – English
		'zh-hk' – Traditional Chinese
		'zh-cn' – Simplified Chinese
		Default language is English
type	String	Product type
		Allowed values:
		'tour', 'transportation', 'ticket'
		Default type is all

*Mandatory field

Sample **getProductList** Request in JSON format:

```
{
"email": "test@test.com",
"password": "00000000",
"language": "zh-hk",
"type": "tour"
}
```

getProductDetails

URL	/api/getProductDetails
Description	Get product details by id.

Format of **getProductDetails** request		
Field	Type	Description
email*	String	Login email
password*	String	Password
type*	String	Type of the selected product Allowed values: 'tour', 'transportation', 'ticket'
productId*	Integer	The selected product id

*Mandatory field

Sample **getProductDetails** Request in JSON format:

```
{
"email": "test@test.com",
"password": "00000000",
"type": "ticket",
"productid": 4
}
```

Sample **getProductDetails** Response in JSON format:

```
{
    "meta": {
        "code": "RESP_OKAY",
        "message": "Success"
    },
    "data": {
        "productId": 177,
        "title": "Round Trip Economy Class Turbojet Ticket (Hong Kong <-> Macau)+ The
House of Dancing Water (5:00pm) (Zone C)",
        "tourCode": "853A/853B",
        "reportCode": "853A",
        "productPrice": [
```

```
                    {
                            "id": 353,
                            "title": "Adult",
                            "price": "730"
                    },
                    {
                            "id": 354,
                            "title": "Child",
                            "price": "645"
                    }
            ],
            "turbojet": {
                    "type": "round-trip",
                    "departureCity": "any",
                    "city1Code": "HKG,KLN",
                    "city2Code": "MAC",
                    "city1NameList": "Hong Kong (Sheung Wan),Kowloon (Tsim Sha Tsui)",
                    "city2NameList": "Macau Maritime Ferry Terminal",
                    "ticketType": "all"
            }
    }
}
```

Format of **getProductDetails** response		
Field	Type	Description
productId	Integer	The selected product id
title	String	Product title
tourCode / transportationCode / ticketCode	String	Product code
serviceCharge	String	Service charge per quantity will be returned if type of the selected product is 'transportation' or 'ticket'
timetable	String	Value = 'yes' if transportation product including time table
productPrice		Price of the product
productPrice.id	Integer	Id of the product price

productPrice.title	String	Name of the product price
productPrice.price	String	Product price
turbojet		This object will be returned when product includes TurboJET details
turbojet.type	String	TurboJET type: 'one-way', 'round-trip'
turbojet.departureCity	String	Departure city that can be selected: 'any', 'city-1', 'city-2'
turbojet.city1Code	String	Location code that can be selected within city 1, use ',' to separate codes if there are more than 1 code
turbojet.city2Code	String	Location code that can be selected within city 2, use ',' to separate codes if there are more than 1 code
turbojet.city1NameList	String	Location name that can be selected within city 1, use ',' to separate codes if there are more than 1 name
turbojet.city2NameList	String	Location name that can be selected within city 2, use ',' to separate codes if there are more than 1 name
turbojet.ticketType	String	TurboJET ticket type: 'all' – Redemption & eBoarding 'redemption' – Redemption 'eboarding' – eBoarding
turbojet.productType	String	This field will be returned if TurboJET product type is open sailing value: 'open-sailing'

queryProduct

URL	/api/queryProduct
Description	Query product available date and time.

Format of **queryProduct** request		
Field	Type	Description
email*	String	Login email
password*	String	Password
type*	String	Type of the selected product Allowed values: 'tour', 'transportation', 'ticket'
productId*	Integer	The selected product id
date	String	Travel date, necessary unless getProductDetails response does not provide productPrice
travelTime	String	Travel time, necessary when getProductDetails response timetable = 'yes'
turbojetDepartureDate	String	TurboJET departure date
turbojetReturnDate	String	TurboJET return date
turbojetDepartureTime	String	TurboJET departure time
turbojetReturnTime	String	TurboJET return time
turbojetDepartureFrom	String	TurboJET departure location (from)
turbojetDepartureTo	String	TurboJET departure location (to)
turbojetReturnFrom	String	TurboJET return location (from)
turbojetReturnTo	String	TurboJET return location (to)
turbojetQuantity	Integer	TurboJET ticket quantity, necessary when getProductDetails response provides turbojet and does not provide productPrice
turbojetClass	String	TurboJET class, necessary when getProductDetails response provides turbojet and does not provide productPrice Allowed values: 'economy', 'super', 'primer-grand'
subQty[productPriceId]	Integer	Quantity of selected product package, necessary when queryProduct response provides both productPrice and turbojet

*Mandatory field

TurboJET departure fields are necessary when getProductDetails response provides turbojet data.

TurboJET return fields are necessary when getProductDetails response provides turbojet data and turbojet.type = 'round-trip'.

turbojetDepartureTime and turbojetReturnTime are not necessary when getProductDetails response provides turbojet.productType and turbojet.productType = 'open-sailing'.

Sample **queryProduct** Request in JSON format:

```
{
“email”: “test@test.com”,
“password”: “00000000”,
“type”: “transportation”,
“productId”: 6,
“turbojetDepartureDate”: “2018-08-01”,
“turbojetReturnDate”: “2018-08-02”,
“turbojetDepartureTime”: “16:15”,
“turbojetReturnTime”: “22:03”,
“turbojetDepartureFrom”: “HKG”,
“turbojetDepartureTo”: “MAC”,
“turbojetReturnFrom”: “MAC”,
“turbojetReturnTo”: “HKG”,
“turbojetQuantity”: 2,
“turbojetClass”: “economy”
}
```

Sample **queryProduct** Response in JSON format:

```
{
    "meta": {
        "code": "RESP_OKAY",
        "message": "Success"
    },
    "data": {
        "productId": 6,
        "title": "Round Trip Turbojet Ticket   (Hong Kong <=> Macau)",
        "transportationCode": "652RT- HK ",
```

```
        "serviceCharge": "0",
    "turbojet": {
        "type": "round-trip",
        "departureCity": "any",
        "city1Code": "HKG",
        "city2Code": "MAC",
        "city1NameList": "Hong Kong (Sheung Wan)",
        "city2NameList": "Macau Maritime Ferry Terminal",
        "ticketType": "all",
        "selected": {
            "departureFrom": "HKG",
            "departureTo": "MAC",
            "departureDate": "2018-08-01",
            "departureTime": "16:15",
            "departureAvailableDate": [
                "2018-08-01",
                "2018-08-02",
                "2018-08-03",
                "2018-08-04",
                "2018-08-05",
                "2018-08-06",
                "2018-08-07",
                "2018-08-08",
                "2018-08-09",
                "2018-08-10"
            ],
            "departureAvailableFlight": [
                {
                    "flight_no": "8SHQ15",
                    "time": "2018-08-01 16:15",
                    "seat_class": "Economy Class",
                    "class": "E",
                    "vessel": "O",
                    "fee": 171,
                    "from": {
                        "code": "HKG",
                        "name": "Hong Kong (Sheung Wan)"
                    },
```

```json
                "to": {
                    "code": "MAC",
                    "name": "Macau Maritime Ferry Terminal"
                },
                "route": "HKGMAC"
            },
            {
                "flight_no": "8SHQ30",
                "time": "2018-08-01 16:30",
                "seat_class": "Economy Class",
                "class": "E",
                "vessel": "O",
                "fee": 171,
                "from": {
                    "code": "HKG",
                    "name": "Hong Kong (Sheung Wan)"
                },
                "to": {
                    "code": "MAC",
                    "name": "Macau Maritime Ferry Terminal"
                },
                "route": "HKGMAC"
            },
            ……
        ],
        "returnFrom": "MAC",
        "returnTo": "HKG",
        "returnDate": "2018-08-02",
        "returnTime": "22:03",
        "returnAvailableDate": [
            "2018-08-02",
            "2018-08-03",
            "2018-08-04",
            "2018-08-05",
            "2018-08-06",
            "2018-08-07",
            "2018-08-08",
            "2018-08-09",
```

```
                "2018-08-10",
                "2018-08-11"
        ],
        "returnAvailableFlight": [
            {
                    "flight_no": "8SMW15",
                    "time": "2018-08-02 22:15",
                    "seat_class": "Economy Class",
                    "class": "E",
                    "vessel": "O",
                    "fee": 200,
                    "from": {
                        "code": "MAC",
                        "name": "Macau Maritime Ferry Terminal"
                    },
                    "to": {
                        "code": "HKG",
                        "name": "Hong Kong (Sheung Wan)"
                    },
                    "route": "MACHKG"
            },
            {
                    "flight_no": "8SMW30",
                    "time": "2018-08-02 22:30",
                    "seat_class": "Economy Class",
                    "class": "E",
                    "vessel": "O",
                    "fee": 200,
                    "from": {
                        "code": "MAC",
                        "name": "Macau Maritime Ferry Terminal"
                    },
                    "to": {
                        "code": "HKG",
                        "name": "Hong Kong (Sheung Wan)"
                    },
                    "route": "MACHKG"
            },
```

```
                    ……
            ]
        }
      }
    }
}
```

```
{
    "meta": {
        "code": "RESP_OKAY",
        "message": "Success"
    },
    "data": {
        "productId": 177,
        "title": "Round Trip Economy Class Turbojet Ticket (Hong Kong <-> Macau)+ The
House of Dancing Water (5:00pm) (Zone C)",
        "tourCode": "853A",
        "availableDates": [
            "2018-09-01",
            "2018-09-02",
            "2018-09-03",
            "2018-09-06",
            "2018-09-07",
            "2018-09-08",
            "2018-09-09",
            "2018-09-10",
            "2018-09-13",
            "2018-09-14"
        ],
        "productPrice": [
            {
                "id": 353,
                "title": "Adult",
                "price": "730",
                "quota": "-1"
            },
            {
```

```json
            "id": 354,
            "title": "Child",
            "price": "645",
            "quota": "-1"
        }
    ],
    "turbojet": {
        "type": "round-trip",
        "departureCity": "any",
        "city1Code": "HKG",
        "city2Code": "MAC",
        "city1NameList": "Hong Kong (Sheung Wan)",
        "city2NameList": "Macau Maritime Ferry Terminal",
        "ticketType": "all",
        "selected": {
            "departureFrom": "HKG",
            "departureTo": "MAC",
            "departureDate": "2018-09-01",
            "departureTime": "14:00",
            "departureAvailableDate": [
                "2018-09-01",
                "2018-09-02",
                "2018-09-03",
                "2018-09-04",
                "2018-09-05",
                "2018-09-06",
                "2018-09-07",
                "2018-09-08",
                "2018-09-09",
                "2018-09-10"
            ],
            "departureAvailableTime": [
                "14:00",
                "14:30",
                "15:00",
                "15:30",
                "16:00",
                "16:30",
```

```json
                "17:00",
                "17:30",
                "18:00",
                "18:30"
            ],
            "returnFrom": "MAC",
            "returnTo": "HKG",
            "returnDate": "2018-09-02",
            "returnTime": "12:05",
            "returnAvailableDate": [
                "2018-09-02",
                "2018-09-03",
                "2018-09-04",
                "2018-09-05",
                "2018-09-06",
                "2018-09-07",
                "2018-09-08",
                "2018-09-09",
                "2018-09-10",
                "2018-09-11"
            ],
            "returnAvailableTime": [
                "12:30",
                "13:00",
                "13:30",
                "14:00",
                "14:30",
                "15:00",
                "15:30",
                "16:00",
                "16:30",
                "17:00",
                "17:30"
            ]
        }
      }
    }
}
```

Format of **queryProduct** response		
Field	Type	Description
productId	Integer	The selected product id
title	String	Product title
tourCode / transportationCode / ticketCode	String	Product code
availableDates	Array	10 available dates start from the selected date
serviceCharge	String	Service charge per quantity will be returned if type of the selected product is 'transportation' or 'ticket'
productPrice.quota	String	Quota of the selected product on the selected date '-1' – unlimit
turbojet		This object will be returned when product includes TurboJET details
turbojet.type	String	TurboJET type: 'one-way', 'round-trip'
turbojet.departureCity	String	Departure city that can be selected: 'any', 'city-1', 'city-2'
turbojet.city1Code	String	Location code that can be selected within city 1, use ',' to separate codes if there are more than 1 code
turbojet.city2Code	String	Location code that can be selected within city 2, use ',' to separate codes if there are more than 1 code
turbojet.city1NameList	String	Location name that can be selected within city 1, use ',' to separate codes if

		there are more than 1 name
turbojet.city2NameList	String	Location name that can be selected within city 2, use ',' to separate codes if there are more than 1 name
turbojet.ticketType	String	TurboJET ticket type: 'all' – Redemption & eBoarding 'redemption' – Redemption 'eboarding' – eBoarding
turbojet.productType	String	This field will be returned if TurboJET product type is open sailing value: 'open-sailing'
turbojet.selected.departureFrom	String	Selected departure location (from)
turbojet.selected.departureTo	String	Selected departure location (to)
turbojet.selected.departureDate	String	Selected departure date
turbojet.selected.departureTime	String	Selected departure time
turbojet.selected.departureAvailableDate	Array	Up to 10 available dates start from the selected departure date
turbojet.selected.departureAvailableTime	Array	Up to 10 available times of the selected departure date start from the selected departure time
turbojet.selected.returnFrom	String	Selected return location (from)
turbojet.selected.returnTo	String	Selected return location (to)
turbojet.selected.returnDate	String	Selected return date
turbojet.selected.returnTime	String	Selected return time
turbojet.selected.returnAvailableDate	Array	Up to 10 available dates start from the selected return date

turbojet.selected.returnAvailableTime	Array	Up to 10 available times of the selected return date start from the selected return time
turbojet.selected.departureAvailableFlight	Array	Up to 10 available flight details of the selected departure date start from the selected departure time
turbojet.selected.returnAvailableFlight	Array	Up to 10 available flight details of the selected return date start from the selected return time

orderProduct

URL	/api/orderProduct
Description	Make order for a product.

Format of **orderProduct** request		
Field	Type	Description
email*	String	Login email
password*	String	Password
type*	String	Type of the selected product Allowed values: 'tour', 'transportation', 'ticket'
productId*	Integer	The selected product id
date	String	Travel Date
travelTime	String	Travel Time
turbojetDepartureDate	String	TurboJET departure date
turbojetReturnDate	String	TurboJET return date
turbojetDepartureTime	String	TurboJET departure time
turbojetReturnTime	String	TurboJET return time
turbojetDepartureFrom	String	TurboJET departure location (from)
turbojetDepartureTo	String	TurboJET departure location (to)
turbojetReturnFrom	String	TurboJET return location (from)
turbojetReturnTo	String	TurboJET return location (to)
turbojetQuantity	Integer	TurboJET ticket quantity
turbojetClass	String	TurboJET class Allowed values: 'economy', 'super', 'primer-grand'
turbojetTicketType	String	TurboJET ticket type Allowed values: 'eboarding', 'voucher'
turbojetDepartureFlightNo	String	TurboJET departure flight no., necessary when queryProduct response provides turbojet.selected.departureAvailableFlight
turbojetReturnFlightNo	String	TurboJET Return flight no. , necessary when queryProduct response provides turbojet.selected.returnAvailableFlight
Hotel*	String	Hotel of stay

title*	String	Guest title Allowed values: 'Mr', 'Mrs', 'Miss'
firstName*	String	Guest First name, English characters only
lastName*	String	Guest last name, English characters only
passport*	Integer	Guest passport nationality code (refer to getNationalityList API)
guestEmail*	String	Guest email
countryCode	Integer	Guest telephone country code
telephone	Integer	Guest telephone
promocode	String	Promo Code
agentReference	String	Agent Reference number
remark	Text	Remark
subQty[productPriceId]	Integer	Quantity of selected product package, necessary when queryProduct response provides productPrice
totalPrice*	Float	Total price of this order, include service charge of the product if any
info	Integer	Agree to receive information about or from Gray Line Tours of Hong Kong Limited Allowed values: '1' – agree null – not agree

*Mandatory field

TurboJET departure fields are necessary when getProductDetails response provides turbojet data.

TurboJET return fields are necessary when getProductDetails response provides turbojet data and turbojet.type = 'round-trip'.

turbojetDepartureTime, turbojetReturnTime and turbojetTicketType are not necessary when getProductDetails response provides turbojet.productType and turbojet.productType = 'open-sailing'.

Sample **orderProduct** Request in JSON format:

```
{
"email": "test@test.com",
"password": "00000000",
"type": "transportation",
```

"productid": 6,
"turbojetDepartureDate": "2018-08-01",
"turbojetReturnDate": "2018-08-02",
"turbojetDepartureTime": "16:15",
"turbojetReturnTime": "22:15",
"turbojetDepartureFrom": "HKG",
"turbojetDepartureTo": "MAC",
"turbojetReturnFrom": "MAC",
"turbojetReturnTo": "HKG",
"turbojetQuantity": 2,
"turbojetClass": "economy",
"turbojetDepartureFlightNo": "8SHQ15",
"turbojetReturnFlightNo": "8SMW15",
"language": "en",
"hotel": "Test Hotel",
"title": "Mr",
"firstName": "Chris",
"lastName": "Wong",
"passport": 47,
"guestEmail": "guest@test.com",
"countryCode": 852,
"telephone": 12345678,
"totalPrice": 742,
}

{
"email": "test@test.com",
"password": "00000000",
"type": "tour"
"productid": 205
"date": "2018-08-21"
"turbojetDepartureDate": "2018-08-21"
"turbojetReturnDate": "2018-08-22"
"turbojetDepartureTime": "16:00"
"turbojetReturnTime": "12:00"
"turbojetDepartureFrom": "HKG"
"turbojetDepartureTo": "MAC"
"turbojetReturnFrom": "MAC"

```
"turbojetReturnTo": "HKG"
"turbojetTicketType": "redemption"
"hotel": "Test Hotel",
"title": "Mr",
"firstName": "Chris",
"lastName": "Wong",
"passport": 47,
"guestEmail": "guest@test.com",
"subQty": {"413": 1},
"totalPrice": 760
}
```

Success Response

```
{
    "meta": {
        "code": "RESP_OKAY",
        "message": "Success"
    },
    "data": {
        " orderId ": "GLB-20180730-10304"
    }
}
```

* Disneyland E-Ticket will be sent to guest email directly by Disneyland.