MasterTrack

API Integration Manual

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Introduction

This document provides the necessary information for the partners to interact with Master-Track Aggregator

Products and Services

- CP's platform should host a service provisioning API (HTTP server) which includes parameters like MSISDN, service id information etc.
- Call back URL to notify by MA platform to the CP for notifying about the status of the service subscribed.

API Base Path : http://43.242.214.171/mtrackapi

Flow

Subscription

Here is specified the general characteristics of subscription services.

• Can be daily, weekly or monthly recurrence.

• Available channels for subscription:

1. **Mobile WEB (MNO network or third-parties).**
    In case of navigation through MNO network OTP is the suggested form to confirm the MSISDN.

WEB Flow

1. Customer browses the website of the CP through a network other than the network of CARRIER.
2. The customer clicks the subscribe button on the CP's website.
3. The CP will call MA subscription API which will send a pin MT to the customer.
4. After receiving the response from MA, the CP will present the user with a page for entering the received PIN.
5. After the user inserted the PIN, the CP will call MA optin-confirm API with the PIN.
6. Validate PIN success: MA will validate that the inserted PIN corresponds to the PIN assigned for the user for that specific product. In case the PIN matches, the subscription will be activated, and a reply sent to the supplier.
7. Validate PIN failure: If the PIN does not match, MA will respond to the supplier, and the supplier will display the error on the webpage, allowing the user to retry this process X times (by default 3 tries are allowed)

8. Validate PIN timeout: If the user does not insert the pin within the configured(3minutes) timeout, the pre- activation will be expired, and the customer will have to repeat the process.
9. After the PIN is validated, MA will try to charge the customer.

MA will notify the supplier regarding the result of the charge

Vendor Validation (Server to Server Call)

API – HTTP Request Parameter

This is vendor validation request which is S2S call. Before making this call you have to white list your server IP

Sample URL: **http://{BasePath}/V1/directAPI/ValidateVendor**

Attributes	Type	Mandatory	Description
VendorKey	String	Yes	Key to use by API authentication
VendorSecret	String	Yes	Abstraction of all process of authentication

Response Parameter

Attribute	Type	Description
Token	String	Unique token for each request

Subscribe

Http Verb: POST

Sample URL: **http://{BasePath}/V1/directAPI/Subscribe**

This endpoint should be consumed by a partner that wishes to subscribe a user. Depending on the channel being used for web it includes another step of subscription confirm.

JSON BODY:

{

"Token" : "string",

```
    "serviceId" : "string",

    "vendorId" : "string",

    "externaltxid" : "string",

"userIdentifier":"string",

"userIdentifierType":"string"

, "productId":0,

 "mcc":"string",

 "mnc":"string",

 "entryChannel":"string",

"largeAccount":"string",

"subKeyword":"string",

 "clientIp":"string",

 "campaignUrl":"string"

}
```

API – HTTP Request Parameter

Attributes	Mandatory	Description
Token	Yes	Unique Token generated from Vendor Validation
serviceId	Yes	Service Id, shared by MA
external-tx-id	Yes	An identifier used to avoid processing more than one time the same request. This must be a unique id. Use Online UUID Generator.
vendorId	Yes	Unique Vendor Id shared by MA
userIdentifier	Yes	Customer mobile number in the operator format. [968XXXXXXXX]
userIdentifierType	Yes	Type of the user identifier specified. MSISDN
productId	Yes	A unique number identifying the partner product, shared by MA
mcc	Yes	Country Code. [422 for Oman]
mnc	Yes	Country Mobile Network Operator Code [02 for Omantel]
entryChannel	Yes	The channel (WEB, SMS, IVR etc) through which the customer has made the opt-in
largeAccount	Yes	Short code used to send the MT to the end user
subKeyword	Yes	User used keyword for the subscription
trackingId	No	Optional Parameter: A partner ID that identifies the channel and campaign (ex: google campaign) that acquired the customer.
clientIp	No	Optional Parameter to identify the IP from which the client Opted-in.
campaignUrl	No	Optional Parameter to identify the campaign URL from which the client Opted-in.

RESPONSE:

```
{
 "message":"string",
 "inError":false,
 "requestId":"string",
 "code":"string",
 "responseData":
{
 "transactionId":"string",
 "subscriptionResult":"string",
 "subscriptionError":"string"
 }
}
```

Subscribe Confirmation

Http Verb: POST

Sample URL: **http://{BasePath}/V1/directAPI/SubscribeConfirm**

JSON BODY:
```
{
"Token" : "string",
   "serviceId" : "string",
   "vendorId" : "string",
   "externaltxid" : "string",
 "userIdentifier":"string",
 "userIdentifierType":"string",
 "productId":0,
 "mcc":"string",
 "mnc":"string",
 "entryChannel":"string",
 "clientIp":"string",
 "transactionAuthCode":"string"
```

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}

API – HTTP Request Parameter

Attributes	Mandatory	Description
Token	Yes	Unique Token generated from Vendor Validation
serviceId	Yes	Service Id, shared by MA
external-tx-id	Yes	An identifier used to avoid processing more than one time the same request. This must be a unique id. Use Online UUID Generator.
vendorId	Yes	Unique Vendor Id shared by MA
userIdentifier	Yes	Customer mobile number in the operator format. [968XXXXXXXX]
userIdentifierType	Yes	Type of the user identifier specified. MSISDN
productId	Yes	A unique number identifying the partner product, shared by MA
mcc	Yes	Country Code. [422 for Oman]
mnc	Yes	Country Mobile Network Operator Code [02 for Omantel]
entryChannel	Yes	The channel (WEB, SMS, IVR etc) through which the customer has made the opt-in
clientIp	Yes	Optional Parameter to identify the IP from which the client Opted-in.
transactionAuthCode	Yes	User entered OTP PIN

Response : {

"message":"string",

"inError":true,

"requestId":"string",

"code":"string",

"responseData":

{

"transactionId":"string",

"subscriptionResult":"string",

"subscriptionError":"string"

}

}

UnSubscribe

Http Verb: POST

Sample URL: **http://{BasePath}/V1/directAPI/UnSubscribe**

JSON BODY:

```
{
"Token" : "string",
    "serviceId" : "string",
    "vendorId" : "string",
    "externaltxid" : "string",
 "userIdentifier":"string",
 "userIdentifierType":"string",
 "productId":0,
 "mcc":"string",
 "mnc":"string",
 "entryChannel":"string",
 "largeAccount":"string",
 "subKeyword":"string",
 "trackingId":"string",
 "clientIp":"string",
 "controlKeyword":"string",
 "controlServiceKeyword":"string",
 "subId":0,
 "cancelReason":0,
 "cancelSource":0
}
```

API – HTTP Request Parameter

Attributes	Mandatory	Description
Token	Yes	Unique Token generated from Vendor Validation
serviceId	Yes	Service Id, shared by MA
external-tx-id	Yes	An identifier used to avoid processing more than one time the same request. This must be a unique id. Use Online UUID Generator.
vendorId	Yes	Unique Vendor Id shared by MA
userIdentifier	Yes	Customer mobile number in the operator format. [968XXXXXXXX]
userIdentifierType	Yes	Type of the user identifier specified. MSISDN
productId	Yes	A unique number identifying the partner product, shared by MA
mcc	Yes	Country Code. [422 for Oman]
mnc	Yes	Country Mobile Network Operator Code [02 for Omantel]
entryChannel	Yes	The channel (WEB, SMS, IVR etc) through which the customer has made the opt-in
largeAccount	Yes	Short code used to send the MT to the end user
subKeyword	Yes	User used keyword for the subscription
trackingId	No	Optional Parameter: A partner ID that identifies the

		channel and campaign (ex: google campaign) that acquired the customer.
clientIp	No	Optional Parameter to identify the IP from which the client Opted-in.
controlKeyword	No	Optional Parameter to identify the control keyword for the product
controlServiceKeyword	No	Optional Parameter to identify the control keyword for the service
subId	No	Optional Parameter to get the subscription id received
cancelReason	No	Optional Parameter to track the reason for the optout
cancelSource	No	Optional Parameter to track the source of the cancellation

RESPONSE:

```
{
 "message":"string",
 "inError":true,
 "requestId":"string",
 "code":"string",
 "responseData":
{
 "transactionId":"string",
 "subscriptionResult":"string",
 "subscriptionError":"string"
 }
}
```

Check Subscription Status

Http Verb: POST

Sample URL: **http://{BasePath}/V1/directAPI/CheckSubscription**

JSON BODY:
```
{
"Token" : "string",
   "serviceId" : "string ",
   "vendorId" : "string",
   "externaltxid" : "string", // unique id
 "userIdentifier": "968XXXXXXXX",
 "userIdentifierType": "string",
```

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```
 "productId": 0,
 "mcc": "string",
 "mnc": "03",
 "entryChannel":"string"
}
```

Sample response:
```
{
 "inError": false,
 "requestId": "string",
 "code": "string",
 "responseData":
{
 "transactionId": "string",
"subscriptionStatus": " string ",
"subscriptionResult": " string ",
"subStatusDate": " string ",
"optinPricepointId": 0,
"renewalPricepointId": 0
 }
}
```
If the subscription status is inactive then, the value of subscription Result will be GET_STATUS_SUB_NOT_EXIST

Callback Notification

Opt-In Notification

This is the response JSON.

JSON BODY:
```
{
 "productId": 1234,
 "pricepointId":4567,
 "mcc":"422",
 "mnc":"03",
 "text":"string",
```

```
"msisdn":"968XXXX",
"userIdentifier":"968XXXX",
"largeAccount":"92122",
"transactionUUID": "string",
"mnoDeliveryCode":"null",
"entryChannel":"WEB",
"tags":["string","string".....]
"trackingId":null,
"totalCharged": null}
```

Attributes	Description
productId	A unique number identifying the partner product, shared by MA
pricepointId	A unique number to identify the tariff charge set on MA platform
mcc	Country Code. [422 for Oman]
mnc	Country Mobile Network Operator Code [02 for Omantel]
text	Message to be sent to the end user
msisdn	Customer MSISDN (Mobile Number of the user) in the operator format. [968XXXXXXXX]
entryChannel	Mode of subscription
largeAccount	Short code used to send the MT to the end user
transactionUUID	Unique Transaction UUID
tags	Tags

Opt-Out Notification

JSON BODY:

```
{
"productId": 0,
"pricepointId":0,
"mcc":"string",
"mnc":"03",
"text":"string",
"msisdn":"string",
"userIdentifier":"string",
"largeAccount":" string ",
"transactionUUID": "string",
"mnoDeliveryCode":"null",
"entryChannel":"string",
"tags":["string","string".....]
```

"trackingId":null,

"totalCharged": null}

Attributes	Description
productId	A unique number identifying the partner product, shared by MA
pricepointId	A unique number to identify the tariff charge set on MA platform
mcc	Country Code. [422 for Oman]
mnc	Country Mobile Network Operator Code [02 for Omantel]
text	Message to be sent to the end user
msisdn	Customer MSISDN (Mobile Number of the user) in the operator format. [968XXXXXXXX]
entryChannel	Mode of subscription
largeAccount	Short code used to send the MT to the end user
transactionUUID	Unique Transaction UUID
tags	Tags

Renewal Notification

JSON BODY:

{

 "productId": 0,

 "pricepointId":0,

 "mcc":"string",

 "mnc":"string",

 "text":"string",

 "msisdn":"string",

 "userIdentifier":"string",

"largeAccount":"string",

 "transactionUUID": "string",

 "mnoDeliveryCode":"null",

 "entryChannel":"string",

 "tags":["string","string".....]

 "trackingId":null,

 "totalCharged": 300}

Attributes	Description
productId	A unique number identifying the partner product, shared by MA
pricepointId	A unique number to identify the tariff charge set on MA platform
mcc	Country Code. [422 for Oman]
mnc	Country Mobile Network Operator Code [02 for Omantel]

text	Message to be sent to the end user
msisdn	Customer MSISDN (Mobile Number of the user) in the operator format. [968XXXXXXXX]
entryChannel	Mode of subscription
largeAccount	Short code used to send the MT to the end user
transactionUUID	Unique Transaction UUID
tags	Tags

First Charging Status Notification

JSON BODY:

```
{
 "productId": 0,
 "pricepointId":0,
 "mcc":"string",
 "mnc":" string ",
 "text":"string",
 "msisdn":"string",
 "userIdentifier":"string",
"largeAccount":"string",
 "transactionUUID": "string",
 "mnoDeliveryCode":"DELIVERED",
 "entryChannel":"string",
 "tags":["string","string".....]
 "trackingId":null,
 "totalCharged": 1250}
```

Attributes	Description
productId	A unique number identifying the partner product, shared by MA
pricepointId	A unique number to identify the tariff charge set on MA platform
mcc	Country Code. [422 for Oman]
mnc	Country Mobile Network Operator Code [02 for Omantel]
text	Message to be sent to the end user
msisdn	Customer MSISDN (Mobile Number of the user) in the operator format. [968XXXXXXXX]
entryChannel	Mode of subscription
largeAccount	Short code used to send the MT to the end user
transactionUUID	Unique Transaction UUID
tags	Tags