



# etracker

## Premium SMS

### *API Specifications*

Thailand | Sept 2019 | Version 3.36

**For technical-related matters, please  
contact us at the number below:**

Telephone: +603 2163 2100 (24hours)

Email: [techsupport@macrokiosk.com](mailto:techsupport@macrokiosk.com)

Website: [www.macrokiosk.com](http://www.macrokiosk.com)

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## Summary of Changes

Version	Date	Areas of Amendments	Summary of Changes
3.20	27/05/15	Section 4.1	<ul style="list-style-type: none"> <li>'Channel' parameter added.</li> </ul>
		Section 4.2	<ul style="list-style-type: none"> <li>'User' &amp; 'Pass' parameter removed.</li> </ul>
			<ul style="list-style-type: none"> <li>Response Code 401 removed.</li> </ul>
3.21	26/06/15	All Sections	<ul style="list-style-type: none"> <li>Truemove removed throughout the document.</li> </ul>
3.22	23/09/15	Section 6.0	<ul style="list-style-type: none"> <li>Response Code 408 added.</li> </ul>
3.23	08/10/15	Section 4.2 & Section 2.0	<ul style="list-style-type: none"> <li>AIS Telco ID changed</li> <li>Date format changed.</li> </ul>
3.24	25/11/15	Section 7.0	<ul style="list-style-type: none"> <li>System Limitation &amp; Known Issue updated</li> </ul>
3.25	14/01/15	Section 1.3.1	<ul style="list-style-type: none"> <li>New info added for 'Cat' parameter</li> </ul>
3.26	13/04/16	Section 4.1.3	<ul style="list-style-type: none"> <li>New section added for 'Request MSISDN and Telco ID via WAP/Web.'</li> </ul>
3.27	04/05/16	Section 4.1.3	<ul style="list-style-type: none"> <li>New note added.</li> </ul>
3.28	24/05/16	Section 4.1.3	<ul style="list-style-type: none"> <li>MSISDN Forwarding Flow updated.</li> </ul>
		Section 6.0	<ul style="list-style-type: none"> <li>Response Code '406-Blacklisted MSISDN' added.</li> </ul>
3.29	31/05/16	Section 6.0	<ul style="list-style-type: none"> <li>Response Code '409- Invalid linkid or exceeded push frequency' added.</li> </ul>
		Section 4.3.1	<ul style="list-style-type: none"> <li>Linkid parameter description changed for Truemove Hutchison.</li> </ul>
3.30	07/11/16	Section 4.1 & Section 4.2	<ul style="list-style-type: none"> <li>Add RefId parameter for DTAC Telco</li> <li>Response Code 404 added</li> </ul>
		Section 7.2	<ul style="list-style-type: none"> <li>New note added on "RefId" for DTAC at Known Issue for "MSISDN forwarding"</li> </ul>
3.31	26/1/18	Section 5.0	<ul style="list-style-type: none"> <li>Added new "Keyword" parameter</li> <li>Added Keyword parameter to example</li> </ul>
3.32	03/07/2018	Section 4.3	<ul style="list-style-type: none"> <li>Added Response code 405 at "Response Code for MO via WAP/Web" table</li> </ul>

Version	Date	Areas of Amendments	Summary of Changes
3.33	21/09/2018	Section 4.1 (New)	<ul style="list-style-type: none"> <li>Added Generate Authentication Token</li> </ul>
		Section 4.3	<ul style="list-style-type: none"> <li>Added AuthToken in list of parameters</li> <li>Added Response Code 408 &amp; 408 for MO via WAP/Web</li> </ul>
3.34	25/09/2018	Section 4.4.1	<ul style="list-style-type: none"> <li>Add Remark to (ii) "For Welcome MT response"</li> <li>Added Example of Welcome MT</li> <li>Added Note: "LinkID parameter = MOID parameter"</li> </ul>
3.35	09/05/2019	Section 4.2	<ul style="list-style-type: none"> <li>Added "4(Truemove H)" to RefId parameter</li> </ul>
		Section 4.3	<ul style="list-style-type: none"> <li>Added "4(Truemove H)" to RefId parameter</li> </ul>
3.36	11/09/2019	Section 4.4.1	<ul style="list-style-type: none"> <li>Removed <i>Cat – 8 Unregister subscriber</i></li> <li>Added <i>Cat – 9 Free trial MT for time-based service</i></li> </ul>
		Section 6.0	<ul style="list-style-type: none"> <li>Added Response Code 414 – <i>Blocked free trial MT</i></li> <li>Added Response Code 415 – <i>Invalid price point for free trial MT</i></li> </ul>

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## 1.0 Introduction

This etracker premium messaging API document is specifically designed for developers and implementers with basic programming knowledge to make HTTP connections between etracker premium messaging gateway and an application. The HTTP protocol is an international standard used by the World Wide Web Consortium.

This document will highlight the process of sending messages by simply submitting either a POST or a GET request to etracker premium messaging gateway.

However, the POST method is recommended as opposed to the GET method due to the limitation of size and exposure of the HTTP request on the HTTP URL bar when a request submission is made. etracker premium messaging gateway is connected directly to AIS, DTAC and TRUEMOVE HUTCHISON to enable direct billing of mobile subscribers regardless of prepaid or postpaid.

### 1.1 Overview

etracker Premium Messaging API enables clients to monetize their mobile contents. It is a gateway that allows Premium SMS to be sent to a large number of mobile subscribers at any one time. Clients connect to MACROKIOSK's etracker Premium Messaging API gateway to send mobile contents based on Information-On-Demand / Subscription service packages.

## 2.0 Guide to Use this API document

In short these are few details that you need to pay attention to:

- (i) Understand the following terms/concepts because it will help you move quickly though the document.

Terms	Definition						
-1 response	This refers to Asynchronous response whereby you as the client acknowledge that you have received the MO and agree to provide the MT at a later time.						
4 parameter response	This refers to Synchronous response, whereby you as the client provide the MT immediately upon receiving a MO.						
API	<u>Application Programming Interface</u> The interface that a computer system, library or application provides in order to allow requests for services to be made out of it by other computer programs, and/or to allow data to be exchanged between them.						
Asynchronous	Refers to delayed MT return from the clients to the mobile subscriber. Also known as '-1' parameter.						
Client	Client (CP)						
Endpoint	An endpoint is a web service, defined by a WSDL file. It defines the address or connection point to a web service. It is typically represented by a simple HTTP URL string.						
Encode	<p>This means that the MT content and/or URL is coded into computer language to deliver the message to the client's application and vice versa.</p> <p>Example:</p> <table> <tr> <th>Before Encoding</th><th>After Encoding</th></tr> <tr> <td>Hello World</td><td>Hello%20World</td></tr> <tr> <td>http://www.yourdomain.com/receive.asp?from=631234567890&amp;text=hello world&amp;time=yyyy-mm-ddhh:mm:ss&amp;moid=1234567&amp;shortcode=2929&amp;telcoid=1</td><td>http%3a%2f%2fwww.yourdomain.com%2freceive.asp%3ffrom%3d631234567890%26text%3dhello+world%26time%3dyyyy-mm-ddhh%3amm%3ass%26moid%3d1234567%26shortcode%3d2929%26telcoid%3d1</td></tr> </table> <p>You can encode the contents and URL by using the MK converter stated here:</p>	Before Encoding	After Encoding	Hello World	Hello%20World	http://www.yourdomain.com/receive.asp?from=631234567890&text=hello world&time=yyyy-mm-ddhh:mm:ss&moid=1234567&shortcode=2929&telcoid=1	http%3a%2f%2fwww.yourdomain.com%2freceive.asp%3ffrom%3d631234567890%26text%3dhello+world%26time%3dyyyy-mm-ddhh%3amm%3ass%26moid%3d1234567%26shortcode%3d2929%26telcoid%3d1
Before Encoding	After Encoding						
Hello World	Hello%20World						
http://www.yourdomain.com/receive.asp?from=631234567890&text=hello world&time=yyyy-mm-ddhh:mm:ss&moid=1234567&shortcode=2929&telcoid=1	http%3a%2f%2fwww.yourdomain.com%2freceive.asp%3ffrom%3d631234567890%26text%3dhello+world%26time%3dyyyy-mm-ddhh%3amm%3ass%26moid%3d1234567%26shortcode%3d2929%26telcoid%3d1						

	<a href="http://utilities.etracker.cc/converter/converter.aspx">http://utilities.etracker.cc/converter/converter.aspx</a>
Known Issues	Issues that are beyond MACROKIOSKs control but highlighted to clients for their knowledge.
Synchronous	Refers to immediate MT return from the clients to the mobile subscriber. Also known as '4-parameter'.
System Limitation	Refers to MACROKIOSK's system limitation which may be further enhanced in the future depending on client's requirement.
WAP	<u>Wireless Application Protocol</u> A technology that allows cell phones to display specially formatted web sites on a small screen. Most of the WAP usage involves accessing the mobile web from a mobile phone.
WEBF	<u>Web Failed</u> Failed to pass the MO (Mobile Originating) parameters to the client's URL.



- (i) Pay attention to the 'Remember' image posted throughout the document. This is highlighted for you to take note when doing system integration.



- (ii) The 'Tool' image in most section gives you the endpoints and methods required to send the parameters across to MACROKIOSK and versa.

You can also refer to Section 1.2 for the Summary of API endpoints for a quick reference.

- (iii) Selected texts throughout this document are hyperlinked.

e.g. Refer to [Known Issue](#)

You can click on the hyperlinks to get more information on the selected text.

- (iv) Notes are highlighted in pink for easy notice.

- (v) Please note that the commercial information of the product such as the product feature, process flow etc. can be found in the *References for xxx etracker Premium SMS API Specifications*.



### 3.0 Important Notes Clients

- Delivery Notifications (DN) will be updated periodically for all clients subject to the frequency set by the respective mobile operators.
- The SMSC (Short Messaging Service Centre) will retry the sending of messages to the mobile subscriber within the stipulated retry policy set by the respective mobile operators.
- Mobile subscribers will not be charged if they do not receive the messages.
- Successful billing is based on the successful delivery status, and not the amount of messages that the client sends to etracker premium messaging gateway.
- A client is responsible for the following:
  - ✓ Content format compatibility with the mobile handset.
  - ✓ Ensure correct encoding format is used according to message content type (e.g. standard normal text, unicode, binary, etc.) before sending it over to etracker premium messaging gateway.
  - ✓ Mobile subscription database is to be updated at all times to avoid charging the mobile subscribers wrongly.
  - ✓ UAT (User Acceptance Test) must be conducted before launching any mobile services.
  - ✓ No MT (Mobile Terminating) messages should be sent to deactivated or recycled mobile numbers.



## 4.0 Specification

### 4.1 Generate Authentication Token

To do this....	Use this endpoint	Method	Successful response from etracker
Send Token Request to MK	<a href="http://mis.etracker.cc/THPSMSToken/GetToken">http://mis.etracker.cc/THPSMSToken/GetToken</a>	GET/ POST	Authentication Token, Expiry Time in seconds  e.g. 10100000000,300

Access Token is required for Client to call and use MACROKIOSK API.  
 It is a combination of "UserName + Keyword + Shortcode + DateTime + Password (MD5 hashed)"

Example: MK + RING + 4541889 + 20180914155512 + 6F0F4D469EAEAD0AC18DA3A460F263B6

1. All characters must be uppercased.
2. Password must be MD5 Hashed before appending it to create the Access Token
3. Generate Access Token using MD5 Hashing Algorithm.
4. Hash the above result with MD5 generator.

Below is the list of parameters:

No	Parameter	Type	Description	Example
1	AccessToken	String	Access Token	aa15856d7b7fbb796debe4b6fb3aa715
2	Keyword	String	Subscription keyword used for MT (Mobile Terminating) PUSH	ring
3	ShortCode	Numeric	Shortcode	4541889
4	DateTime	String	Defines the date and time of the transaction. It should be the current date and time.  The time is GMT+8 and it should be in this Format "yyyyMMddHHmmss"	20180914155512

<http://mis.etracker.cc/THPSMSToken/GetToken?AccessToken=aa15856d7b7fbb796debe4b6fb3aa715&Keyword=ring&ShortCode=4541889&DateTime=20180914155512>

## Response Code

Response Code	Description
400	Invalid Parameter
401	Invalid Access Token
402	Invalid Keyword
403	Invalid ShortCode
404	Invalid DateTime
405	Unauthorize Access
500	Server Error

## 4.2 Receiving MO Messages via Shortcode

- For DTAC, AIS and Truemove Hutchison, the MO shortcode is the same as the MT shortcode.

Telco	End user MO	MO (MK to Client)	MT (Client to MK)
DTAC	4541xxx	4541xxx	4541xxx
TRUE	4541xxx	4541xxx	4541xxx
AIS	4541xxx	4541xxx	4541xxx



To do this....	Use this endpoint	Method	Expected response from client
Receive MO from MK	<a href="http://www.yourdomain.com/receive.asp?">http://www.yourdomain.com/receive.asp?</a>	GET/ POST	<a href="#">-1</a> or <a href="#">5 param</a>

The following are the parameters that will be included to the endpoint above:

No	Parameter	Type	Description	Example
1	From	Numeric	Mobile subscriber's mobile number, in international format (without the "+" sign).	66874111222
2	Text	Character	Content of the mobile subscriber's request, which includes the service keyword. It should be URL encoded.	RS%20ABC
3	Time	Date time	Timestamp of the request received.	yyyy-mm-ddhh:mm:ss
4	Shortcode	Numeric	Shortcode of which the request was received.	4541889
5	Moid or Msgid	Numeric	Unique message identifier, to tag each request received.  <b>Note:</b> Either parameter name carries the same value	1234567
6	Telcoid	Numeric	To indicate mobile network  1 - DTAC  3 - AIS  4 - TRUEMOVE HUTCHISON	3
7	Channel	Numeric	To indicate MO Channel  0 - SMS  1 - IVR  2 - WAP	0
8	RefId	Alphanumeric	CP's Tracking id  Optional – This parameter will only pass with Telcoid = 1(DTAC) & Channel = 2(WAP) & 4(Truemove H)	12345abcde

- Special characters, for example (\*, -, +, space) cannot be used as part of a service keyword.

- The example below illustrates a URL to be provided for integration.

<http://www.yourdomain.com/receive.asp?from=66874111222&text=RS%20ABC&time=yyy-mm-ddhh:mm:ss&moid=1234567&shortcode=4541889&telcoid=3&channel=0&refid=12345abcde>

OR

<http://www.yourdomain.com/receive.asp?from=66874111222&text=RS%20ABC&time=yyy-mm-ddhh:mm:ss&msgid=1234567&shortcode=4541889&telcoid=3&channel=0&refid=12345abcde>

### 4.3 Receiving MO Messages via WAP/Web



To do this....	Use this endpoint	Method	Successful response from etracker
Send WAP/Web MO to MK	<a href="http://mis.etracker.cc/THwap/WAPMORequest.aspx">http://mis.etracker.cc/THwap/WAPMORequest.aspx</a>	GET	Response Code

Below is the list of parameters:

No	Parameter	Type	Description	Example
1	Telcoid	Numeric	To indicate mobile network: 1 - DTAC 3 - AIS 4 - Truemove Hutchison	1
2	Shortcode	Numeric	Shortcode	4541889
3	Keyword	Character	Subscription keyword used for MT (Mobile Terminating) PUSH	ring
4	Refld	Alphanumeric (Max 50)	CP's Tracking id Optional – This parameter is only to use with Telcoid = 1 (DTAC) & 4(Truemove H) Note: Tracking id will be sent back to CP in MO URL	12345abcde
5	AuthToken	Numeric	Authentication Token Note:Refer to Section 4.1	10100000000

<http://mis.etracker.cc/THwap/WAPMORequest.aspx?Telcoid=1&Shortcode=1932339&Keyword=ring&refid=12345abcde&AuthToken=10100000000>

**Response Code for MO via WAP/Web**

Response Code	Description
400	Invalid Parameter
402	Invalid Telco ID
403	Invalid Service
404	Refld limit exceed
405	Request Fail
408	Invalid Auth Token
409	Auth Token Expired

#### 4.4 MT (Mobile Terminating)

##### 4.4.1 MT (Mobile Terminating) Format for Text



To do this....	Use this endpoint	Method	Successful response from etracker
Send MT to etracker	<a href="http://mis.etracker.cc/THPush/THpush.aspx">http://mis.etracker.cc/THPush/THpush.aspx</a>	POST	{ <i>mobilen</i> }, { <i>msgid</i> }, { <i>status</i> }

The parameters below must be affixed to the endpoint above.

No	Parameter	Type	Description	Example
1	User	Character	Username to be provided once account is activated	macrokiosk
2	Pass	Character	The password for authentication	macro123
3	Type	Numeric	To indicate message type: 0 - Text 1 - Binary or WAP Push (DTAC, Truemove Hutchison & AIS L +) 5 - UCS (Unicode) – For more details, please refer to the Unicode Consortium at <a href="http://www.unicode.org">www.unicode.org</a>	0
4	To	Numeric	The recipient's mobile number in international format (without the "+" sign). <b>Note:</b> Failure to include the country code may result in non-delivery of SMS to the intended recipient.	66874111222
5	From	Numeric	Shortcode	4541889
6	Text	Character	The content of normal text (ASCII) must be URL encoded. Binary messages must be in HEX format. For type=5, the Unicode content message must be UCS encoded.	You will receive JOKE per sms. Unsub send STOP JOKE to 4541889
7	Price	Numeric	The price and type of service is tied to the shortcode.	6

8	Telcoid	Numeric	To indicate mobile network: 1 - DTAC 3 - AIS 4 - Truemove Hutchison	1																										
9	Cat	Numeric	To indicate the message category.	1																										
			<table><tr><th>Cat</th><th>Description</th></tr><tr><td>0</td><td>Info on Demand (IOD) service, i.e. not subscription service.</td></tr><tr><td>1</td><td>Welcome message when user subscribes. (Must contain Service Name, Price &amp; instruction to confirm.)</td></tr><tr><td>2</td><td>First Premium content must be sent to the subscriber immediately after subscription. The following are the exceptions:<table><tr><td>DTAC</td><td>Does not support first premium content.</td></tr><tr><td>AIS</td><td>Supports first premium content push for CAT = 6</td></tr><tr><td>TRUEMOVE H</td><td>Supports first premium content push for CAT = 2</td></tr></table></td></tr><tr><td>3</td><td>Error Message.</td></tr><tr><td>4</td><td>Weekly reminder message to keep active subscriber status alive.</td></tr><tr><td>5</td><td>Renewal of subscription (only applicable for monthly/weekly subscriptions).</td></tr><tr><td>6</td><td>Content Broadcast DTAC subscription supports broadcasting 1 message to many subscribers, therefore client should send one MT only and DTAC will help to broadcast to all of the subscribers.</td></tr><tr><td>7</td><td>Cancellation confirmation</td></tr><tr><td>9</td><td>Free trial MT for time-based service Only applicable for AIS shortcode with free trial option. Free trial MT must send with 0 price point. Client to validate subscriber who entitle free trial for first time subscription only.</td></tr></table>		Cat	Description	0	Info on Demand (IOD) service, i.e. not subscription service.	1	Welcome message when user subscribes. (Must contain Service Name, Price & instruction to confirm.)	2	First Premium content must be sent to the subscriber immediately after subscription. The following are the exceptions: <table><tr><td>DTAC</td><td>Does not support first premium content.</td></tr><tr><td>AIS</td><td>Supports first premium content push for CAT = 6</td></tr><tr><td>TRUEMOVE H</td><td>Supports first premium content push for CAT = 2</td></tr></table>	DTAC	Does not support first premium content.	AIS	Supports first premium content push for CAT = 6	TRUEMOVE H	Supports first premium content push for CAT = 2	3	Error Message.	4	Weekly reminder message to keep active subscriber status alive.	5	Renewal of subscription (only applicable for monthly/weekly subscriptions).	6	Content Broadcast DTAC subscription supports broadcasting 1 message to many subscribers, therefore client should send one MT only and DTAC will help to broadcast to all of the subscribers.	7	Cancellation confirmation	9	Free trial MT for time-based service Only applicable for AIS shortcode with free trial option. Free trial MT must send with 0 price point. Client to validate subscriber who entitle free trial for first time subscription only.
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9	Free trial MT for time-based service Only applicable for AIS shortcode with free trial option. Free trial MT must send with 0 price point. Client to validate subscriber who entitle free trial for first time subscription only.																													



10	Keyword d	Character	Subscription keyword used for MT (Mobile Terminating) PUSH	ring
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11	SenderId	Character	<p>To represent sender's name together with the messages. If Senderid is not available, a shortcode will be present.</p> <p>AIS approval is required for Sender ID.</p> <p>Please liaise with our respective Global Business personnel for AIS Sender ID application prior to the service launch.</p> <p>Note: This is an optional parameter.</p>	Abc
12	Linkid	Numeric	<p><u>DTAC</u></p> <p>i) Must be included for IOD with "-1" (asynchronous) response.</p> <p>ii) Must be included for IOD and Subscription's Error MT (cat=3).</p> <p><u>AIS</u></p> <p>i) Must be included for IOD and subscription (except for -1 content MT &amp; category=6 MT).</p> <p><b>TruemoveH</b></p> <p>i) Must be included for IOD with "-1" (asynchronous) response.</p>	1234567

#### Reference

**Msgid:** Msgid is generated by etracker premium messaging gateway for the checking of the Delivery Notification status.

**MobileNo:** Refers to the recipient's mobile number.

**Status:** Refers to the [Response Code](#) from etracker.

#### Example:

[{mobilen}](#), [{msgid}](#), [{status}](#)  
 66874111222,1234567,200

**For IOD (Information on Demand) services**, clients must acknowledge the MO (Mobile Originating) by indicating either of the following:

- (a) 5-parameters, which are delimited by commas: Type, To, MT text (URL encoded), Price, Category\*, or -1.

**Note:** \*Please refer to 10.0 Appendix B: Category Description.

For Subscription services,

- (a) etracker will pass the MO URL to client:

<http://www.yourdomain.com/receive.asp?from=66874111222&text=<keyword>&time=yyyy-MM-dd hh:mm:ss&moid=1234567&shortcode=4541889&telcoid=3>

Service	Telco (and platform)	Text Format (URL encoded)
Subscription Service Opt-in	AIS L + / DTAC / Truemove Hutchison	<keyword>
Subscription Service Opt-out	AIS L + / DTAC / Truemove Hutchison	STOP%20<keyword>

- (b) Client to acknowledge the MO (Mobile Originating) by indicating '-1'

**Note:**

- The 5-parameters response is a synchronous response where the MT message is sent immediately to etracker premium messaging gateway.

**Example:**

0,66874111222,mktest%20hello,30,0

- The -1 response is an asynchronous response where it indicates that the client's application has received the MO (Mobile Originating) and will send the MT (Mobile Terminating) at a later stage.
- The MO (Mobile Originating) response (5-parameters OR -1) must be in plain text, without any HTML tagging.

- If the client's application does not respond to the MO as above, etracker premium messaging gateway will assume that the message failed to be delivered to your application, resulting in a WEBF (Web Failed) status.
- A report of WEBF Mos can be obtained from **Client Reports > Request Log > View All** (<http://clientreports.etracker.cc>)

#### 4.4.1 Sending Contents to Various Telco Platforms

##### AIS L+ Platform

##### i. For Subscription MT Content

**Example:** <http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541889&text=Content&telcoid=3&price=6&cat=6&keyword=ring&senderid=abc>

##### ii. For IOD MT with -1 response and For Welcome MT response:

The 'Linkid' parameter must be included and MT must be sent back *within 15 minutes* (due to the validity period of Linkid), after the MO is passed to client. Otherwise, the MT will hit error when passed to AIS.

**Example IOD MT:**

<http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541404&text=Content&price=10&telcoid=3&cat=0&keyword=wall&senderid=abc&linkid=1234567>

**Example Welcome MT:**

<http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541404&text=welcomeMT&price=0&telcoid=3&cat=1&keyword=wall&senderid=4541123&linkid=122920190480972745>

**Note:** LinkID parameter = MOID parameter

##### iii. For IOD MT with 5 parameters response:

**Example:** 0,66874111222,mktest%20hello,30,0

**Truemove Hutchison****i. For Subscription MT Content:****Example:**

<http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541889&text=Content&telcoid=4&price=6&cat=6&keyword=ring&senderid=abc>

**ii. For IOD MT with -1 response:****Example:**

<http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541404&text=Content&price=10&telcoid=4&cat=0&keyword=wall&senderid=abc>

**iii. For IOD MT with 5 parameters response:****Example:**

0,66874111222,mktest%20hello,30,0

**DTAC:****i. For Subscription MT Content:****Example:**

<http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541889&text=IODText&price=6&telcoid=1&cat=0&keyword=ring&senderid=abc>

**ii. For IOD MT with -1 response:****Example:**

<http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541889&text=IODText&price=6&telcoid=1&cat=0&keyword=ring&senderid=abc&linkid=1234567>

**iii. For IOD MT with 5 parameters response:**

**Example:** 0,66874111222,mktest%20hello,30,0

**Other Information for DTAC****i. For Welcome Message, category 1:****Example:**

<http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541889&text=WelcomeMessage&price=0&telcoid=1&cat=1&keyword=ring&senderid=abc>

**ii. DTAC does not allow 1st Premium Message.****iii. Error Text for DTAC – Client Control Command, category 3:****Example:**

<http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541889&text=ErrorText&price=0&telcoid=1&cat=3&keyword=ring&senderid=abc&linkid=1234567>

**Note:** Error text for DTAC Control Command will be handled by DTAC

**iv. For Reminder Message, it will be handled by DTAC.****v. For Recurring Charge and Notification Message, it will be handled by DTAC.****vi. For Content Text, category 6:****Example:**

<http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541889&text=Content&price=6&telcoid=1&cat=6&keyword=ring&senderid=abc>

**vii. For Cancellation Confirmation Text, cat = 7:****Example:**

<http://mis.etracker.cc/thpush/thpush.aspx?user=macrokiosk&pass=macro123&type=0&to=66874111222&from=4541889&text=CancellationConfirmation&price=0&telcoid=1&cat=7&keyword=ring&senderid=abc>

#### 4.4.2 MT (Mobile Terminating) Format for Non-Text

	Bit	Length (Characters)
Standard Text Message	7	160
Binary message	8	280
Unicode Message	16	280 <b>Note:</b> Unicode characters need to be encoded as Hex, therefore message length is 280 hex characters instead of 70 Unicode characters.

#### Ringtone

Ringtone must be TP-UDH formatted.

#### Example of message format:

06050415811581024A3A58C0C0C0C0C0C04041EA716934D515610428AD08514568428A274214  
 513A10A288D08514468428934C210515610428AD08514568428A274214511A10A289D0851446  
 8428934C210515610224AD0851256042892B42144936108249D085124E84289274214493A10A2  
 49D08512450000

#### Note:

If a ringtone does not fit into 1 text message, the ringtone hexcode will need to be split into multiparts. Each part must be within 140 octets (characters). Each part must be separated by colon ":" as the delimiter.

#### Example:

0B0504158115810003000201024A3A69CDDD9595D18DA1A5B1900401C8D8E4936289B126986  
 18A30C49A628BB126984D8A26C49A618628C312698A2EC49A6156289B12698618A30C49A628  
 BB12698558A26C49A618628C312698A2EC49A6186289B12698618A30C49A628BB12698618A2  
 6C49A618628C312698A2EC49A6136289B12698618A30C49A628BB12:0B050415811581000300  
 02026984D8A26C49A618628C312698A2EC49A6136289B12698618A30C49A628BB126984D8A2  
 6C49A618628C312698A2EC49A6156289B12698618A30C49A628BB12698558A26C49A618628C  
 312698A2EC49A6186289B12698618A30C49A628BB12698618A26C49A618628C312698A2EC49  
 A6136289B12698618A30C49A628BB1269

## Picture Message without text

Picture message must be UDH formatted (hexcode)

### Example of message format:

```
0B0504158A158A00030003013002010000481C01000AABAAAAAAAE28000D5F5555555560
0000AAAAAAAE00001D557D5555555600003AAB83AAAEAAAA0000555700D557D55600
01AABE002AAAFEAE001F57F3001D5555DC54FAF980800EAAAAAE80F40E0040415555560000
0E002080EAAAAB00000C0021803D555580000E00210007AAAAC0000604:0B0504158A158A00
03000302210003FD556000020E2100020FEAB8000300411801007F5D000300810801004FFA000
10181000100C07F00008300800000E00000007E10C00307E00000003838600E06600000056418
1030183551002AE2000FE0F022AA155541C00057C03004AAA088F83FF800300A54018D1FF40
100100700018180003E00100F0001010000:0B0504158A158A00030003036000100F
```

## Picture Message with text

### Example of message format:

```
0B0504158A158A00030003013002010000481C01000AABAAAAAAAE28000D5F5555555560
0000AAAAAAAE00001D557D5555555600003AAB83AAAEAAAA0000555700D557D55600
01AABE002AAAFEAE001F57F3001D5555DC54FAF980800EAAAAAE80F40E0040415555560000
0E002080EAAAAB00000C0021803D555580000E00210007AAAAC0000604:0B0504158A158A00
03000302210003FD556000020E2100020FEAB8000300411801007F5D000300810801004FFA000
10181000100C07F00008300800000E00000007E10C00307E00000003838600E06600000056418
1030183551002AE2000FE0F022AA155541C00057C03004AAA088F83FF800300A54018D1FF40
100100700018180003E00100F0001010000:0B0504158A158A00030003036000100F0000046566
6768
```

### Note:

1. Codes highlighted in **Red**
  - 30:- format version (must always be 30).
  - 02:- indicates OTA (Over The Air) bitmap.
  - 0100:- indicates content length in hexcode (must always be 0100 hexcode which is equivalent to 256 bytes)



## 2. Codes highlighted in **Purple** (at end of UDH)

- 00:- indicates text message type (length <= 110 bytes).
- 0004:- indicates content length in hexcode (length = 4)

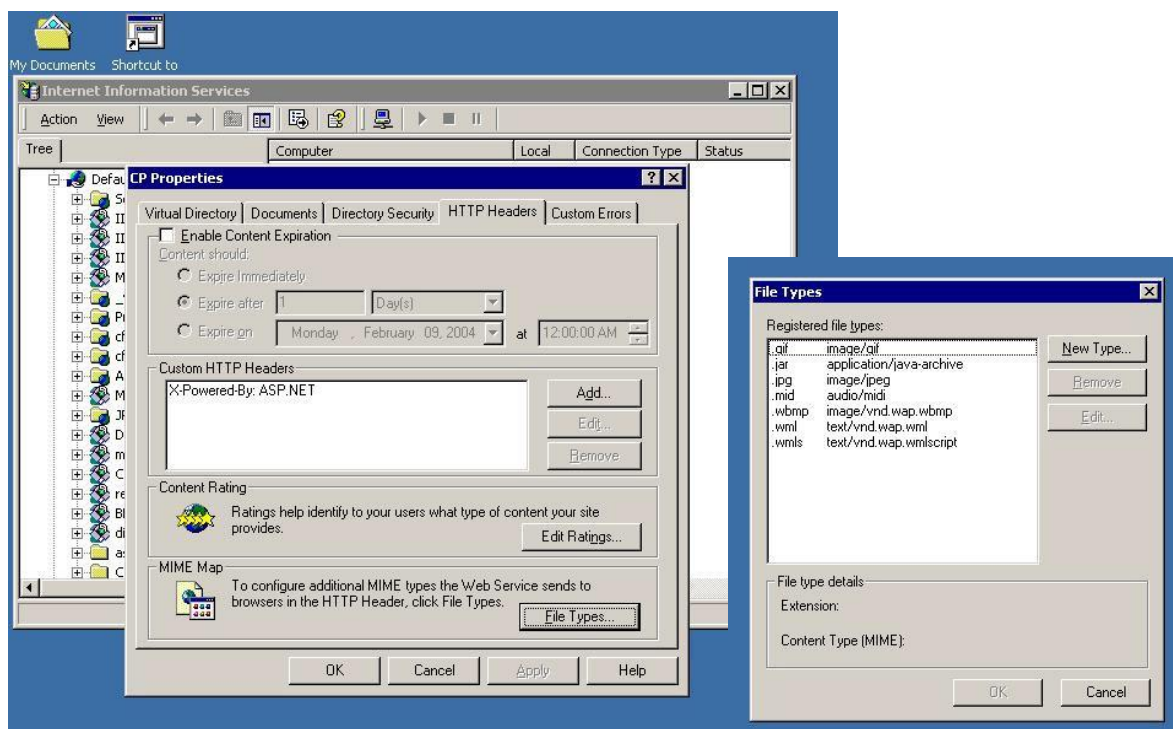
## 3. Legend for sending 8-bit messages

- **Blue** – UDH
- **Green** – Mobile Operator Code (MOC)
- **Red** – Picture Message type to set
- **Purple** – Text in Picture Message

### 4.4.3 MT (Mobile Terminating) Format for Rich Content via WAP Push

Before any integration and testing can be done, the contents must be located in a server that is accessible via the World Wide Web.

The relevant MIME file type must be set and can be added at the IIS (for Windows based web server only). Below is an illustration on the location of the MIME file type.



**Mobile operator's requirements in transmitting WAP Push.**

Following is a checklist of all the required parameters via HTTP POST. HTTP GET is not recommended in this case due to string limitations:

- User (userid)
- Pass (password)
- From (shortcode)
- To (recipient's mobile number)
- Type (1 for AIS L+, DTAC and Truemove Hutchison)
- Text
- Cat (category)
- Telcoid
- Keyword
- Price
- Senderid (Optional for AIS L+ only).
- LinkID (This is only optional for Truemove Hutchison platform).

**Sample to send WAP (Wireless Application Protocol) Content via MT (Mobile Terminating) PUSH for AIS L + / DTAC / Truemove Hutchison**

<http://mis.etracker.cc/THPush/THPush.aspx?user=macrokiosk&pass=macro123&type=1&from=4541605&to=6658126201&text=0B05040B8423F00003840101C5061D03AE8184456E636F64696E672D56657273696F6E00312E3300AF82B4850205040045C60C037777772e796f7572646f6d61696e2e636f6d2f6d6964692f746174752e6d696400110331000103536f6e675469746c65000101&telcoid=2&keyword=ring&cat=6&senderid=abc&price=10>

**Note:**

- Data conversion to hexcode can be done at the following web address:  
<http://utilities.etracker.cc/converter> (select Rich Content Encoder).
- For DTAC WAP MT, select 'DTAC SI Link Encode' to do conversion.
- The maximum length for 'text' and 'contenturl' combined is 84 characters.

**Sample to send WAP (Wireless Application Protocol) Content via IOD (Information On Demand)**

Please indicate the following 5 parameters in MO (Mobile Originating) acknowledgement: type, to, urlencoded (title and contenturl), price, cat

**Example:**

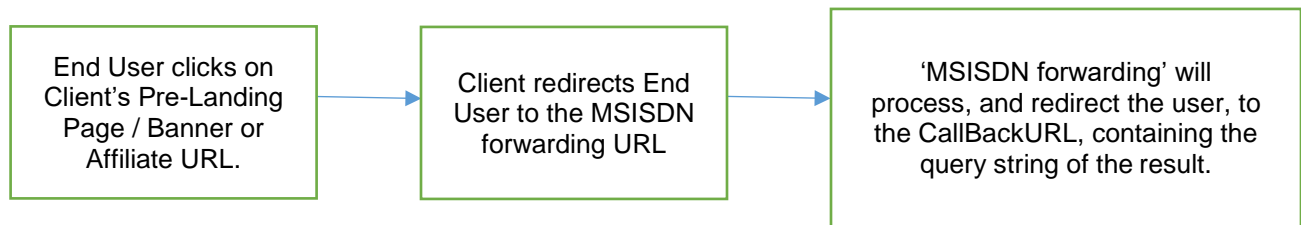
1,6658126201,0B05040B8423F00003840101C5061D03AE8184456E636F64696E672D56657273696F6E00312E3300AF82B4850205040045C60C033230322E392E3130342E3131302F63702F6D6964692F63616E6F6E696E442E6D69640011033100010352696E67746F6E65000101,30,0

**Testing Requirements for WAP (Wireless Application Protocol) PUSH**

Please ensure the following before testing is carried out:

- Mobile handset is GPRS, WAP or 3G enabled. Check with the respective mobile or service operator on the necessary configurations.
- For testing purposes, the mobile handset must be able to support the mobile content.
- Configure the following MIME file type on the web server:
  - ✓ **gif** "image or gif"
  - ✓ **jpg** "image or jpeg"
  - ✓ **mid** "audio or midi"

#### 4.5 MSISDN Forwarding for WAP Opt In.

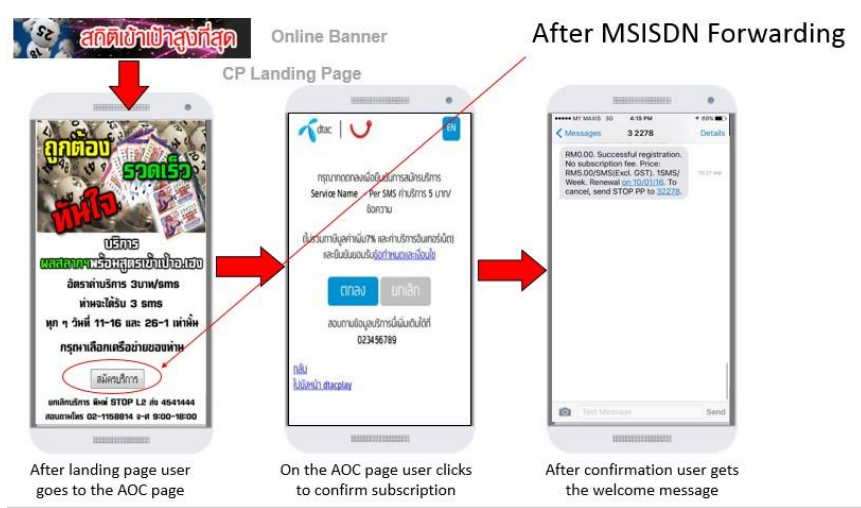


**Note:**

MSISDN Forwarding feature is meant to identify the End User's details only. Those CPs who are unable to use the MSISDN forwarding feature, are still required to follow the Landing Page & AOC regulations as set by Telco.

#### MSISDN Forwarding Function





No MSISDN or Telco selection required.

To do this...	Use this endpoint	Method	Successful response from etracker
Send request to etracker	<a href="http://mis.etracker.cc/THWAP/MsisdnForwarding.aspx">http://mis.etracker.cc/THWAP/MsisdnForwarding.aspx</a>	GET	{Status},{TelcoID},{MSISDN}

The parameters below must be affixed to the endpoint above.

No	Parameter	Type	Description	Example
1	Keyword	Character	Subscription keyword	Ring
2	Shortcode	Numeric	Shortcode	4541889
3	CallBackURL	URL	Result will be sent to this URL	<a href="http%3a%2f%2fmk.com%2fTest.aspx">http%3a%2f%2fmk.com%2fTest.aspx</a>
<b>Note:</b> The URL must be URL encoded.				

**Example of 'Request':**

<http://mis.etracker.cc/THWAP/MsisdnForwarding.aspx?Keyword=ring&Shortcode=4541889&CallBackURL=http%3a%2f%2fmk.com%2fTest.aspx>

**Example of 'Return':**

<http://mk.com/Test.aspx?Status=Success&TelcoID=4&Msisdn=66874111222>

**Reference for 'Return'**

Meaning	Description
Status	Refers to the Response Code from etracker.
TelcoID	Refers to the recipient's Telco
MSISDN	Refers to the recipient's mobile number.

**Response Code for MSISDN Forwarding**

Response Code	Description
Success	Successful
Fail	Failed to identify MSISDN/TelcoID
402	Invalid Shortcode/Keyword
403	Invalid Service
Unauthorized	Unauthorized Access

## 5.0 Delivery Notification (DN)

### Option 1: Web Based Reporting – GUI Interface

The availability of a Delivery Notification (DN) is based on the Telco's policy which may change from time to time. Client may check all MO (Mobile Originating) / MT (Mobile Terminating) transaction and DN records, via Client Report portal (<http://clientreports.etracker.cc>).

### Option 2: etracker Delivery Notification (DN) – API Interface (**Offline DN**)

Instead of using the online web reporting to view a DN, clients have the option to request for a DN through the etracker URL engine. This option is used to search for ONE particular transaction at any time.

To do this....	Use this endpoint	Method	Successful response from etracker
Request for offline DN from etracker	<a href="http://mis.etracker.cc/OfflineDNAPI/DNLog.aspx?">http://mis.etracker.cc/OfflineDNAPI/DNLog.aspx?</a>	GET / POST	<b>For Synchronous:</b> <MOID>,<MTID>,<MSISDN>,<STATUS>  <b>For Asynchronous:</b> <MTID>,<MSISDN>,<STATUS>

The URL will require seven parameters as shown below:

Parameter	Description
Mtid	Unique message identifier, to tag each message sent (MT).
Moid	Unique message identifier, to tag each message received (MO).  NOTE: Only applicable when client acknowledges with 5 parameters (Synchronous Mode) while receiving MO.
Smsdate	The date/time (YYY-MM-DD) of the moid for synchronize mode OR The date/time (YYY-MM-DD) of the mtid for asynchronize mode
Msisdn	The mobile number of the recipient that is sent along with the MT (Mobile Terminating)
Shortcode	The 7 digit shortcode that the MT (Mobile Terminating) is sent
Telcoid	The mobile operator's identification that the MT (Mobile Terminating) is sent
Countryid	The country identification that the MT (Mobile Terminating) is sent. Thailand is set with the value '3'



**Example:**

<http://mis.etracker.cc/OfflineDNAPI/DNLog.aspx?mtid=123296707&moid=1234567&msisdn=66874111222&shortcode=4541889&telcoid=1&countryid=3&smsdate=2010-06-15>

**Option 3: etracker Real Time DN Request – API Interface (*Realtime DN*)**

- For real time DN via API, it is only available upon request to the Global Business Consultants. Once you have requested for real time DN, your DN URL endpoint as shown below will receive the following parameters:

<http://www.yourdomainDNurl/receive.asp>

**Note:** 'Yourdomain' refers to the Client's domain name.

This enables etracker to send the DN to the Client after every transaction.

Parameter	Description
Mtid	Unique message identifier, to tag each message sent (MT).
Moid	Unique message identifier, to tag each message received (MO).  NOTE: Only applicable when client acknowledges with 5 parameters (Synchronous Mode) while receiving MO.
Datetime	The date/time (YYY-MM-DD) of the moid for synchronize mode OR The date/time (YYY-MM-DD) of the mtid for asynchronize mode
Msisdn	The mobile number of the recipient that is sent along with the MT (Mobile Terminating)
Shortcode	The 7 digit shortcode that the MT (Mobile Terminating) is sent
Telcoid	The mobile operator's identification that the MT (Mobile Terminating) is sent
Countryid	The country identification that the MT (Mobile Terminating) is sent. Thailand is set with the value '3'
status	The real time DN status
Keyword	The Keyword that the MT (Mobile Terminating) is sent

For Synchronous Mode, the Real Time DN API is forwarded to clients with 8 parameters, include the MOID parameter.

**Example: \_**

<http://www.yourdomainDNurl/receive.aspx?mtid=123296707&moid=1234567&msisdn=66874111222&shortcode=4541889&telcoid=1&countryid=3&datetime=2010-06-1510:10:10&status=OK&keyword=ring>

For Asynchronous Mode, the Real Time DN API is forwarded to clients with 7 parameters, without the MOID parameter.

**Example: \_**

<http://www.yourdomainDNurl/receive.aspx?mtid=123296707&msisdn=66874111222&shortcode=4541889&telcoid=1&countryid=3&datetime=2010-06-1510:10:10&status=OK&keyword=ring>

## 6.0 Response Code

A response code will be returned for all HTTP GET or POST submissions, from etracker Premium Messaging gateway to clients.

List as below:

Response Code	Description
101	Invalid DTAC Category (This shortcode is under DTAC Command Control)
200	Message sent to queue successfully
400	Missing parameter or invalid type field
401	Invalid user/pass
402	Invalid shortcode/keyword
403	Broadcast limit exceeded (for DTAC only).
404	AIS duplicate content broadcast
405	Invalid sender ID (applicable for AIS L+ IOD only)
406	Blacklisted MSISDN
407	Blocked keyword
408	Duplicate MT Blocked
409	Invalid linkid or exceeded push frequency
410	Invalid subscriber
411	Invalid category (applicable for AIS only)
412	Welcome MT blocked as it is currently handled by Telco and should not be sent by clients.
413	DTAC & AIS L+ are not allowed to send 1 <sup>st</sup> premium MT.
414	Blocked free trial MT
415	Invalid price point for free trial MT
WEBF	Web failed to pass the MO (Mobile Originating) parameters to client's URL

## 7.0 System Limitation & Known Issues

### 7.1 System Limitation

#### i) **MO Format**

- Clients are responsible to filter all incoming MO (without space), to ensure if keyword and variable are in accordance to their campaign requirements.
- Clients can use only ONE MO format PER campaign, i.e. MO with space OR MO without space.
- For existing shortcodes which are running 'live' campaigns, the following must be done prior to changing the MO handling flow:
  - ✓ Live campaigns' must be frozen prior to changing the MO handling mode from (with space) to (without space). This is to avoid service interruption towards the incoming MO.

### 7.2 Known Issues

- The MO option via WAP/Web is only applicable to Subscription service.
- For all AIS L+ short code, please note that whenever customized error message is triggered, AIS will replace the customized message with their standard error message. Telco will charge user first and refund them the next day.
- Please note the following actions when user de-registers the subscription by typing 'STOP MO' from *CP controlled shortcode*:

#### **STOP MO performed from SMS channel**

Client might receive the STOP MO *twice*.

#### **STOP MO performed from DTAC web tool**

Client will receive the STOP MO once.

#### **Note:**

'*DTAC controlled shortcode*' refers to the shortcodes that are running on DTAC's new system.

'*CP controlled shortcode*' refers to the shortcodes that are running on DTAC's old system.

'*DTAC web tool*' refers to the web portal owned by DTAC which allows unsubscribing by DTAC personnel.

**MSISDN Forwarding**

1. *'MSISDN Forwarding'* feature is only applicable for WAP Opt In users on mobile data. End Users that connect via WiFi, will be directed to key in in mobile number and select the Telco.
2. Unlike AIS & TruemoveH, which will provide the end user's mobile number to the clients, DTAC will only provide the Telco ID.

Therefore if clients want the MSISDN number of the end users, they have to request it from the End Users via their registration page and/or clients can match end users MSISDN number to their affiliate by using the RefId parameter in the WAP MO Request URL (Refer to section 4.1 and 4.2).

## 8.0 References for Thailand etracker Premium SMS API Specifications.

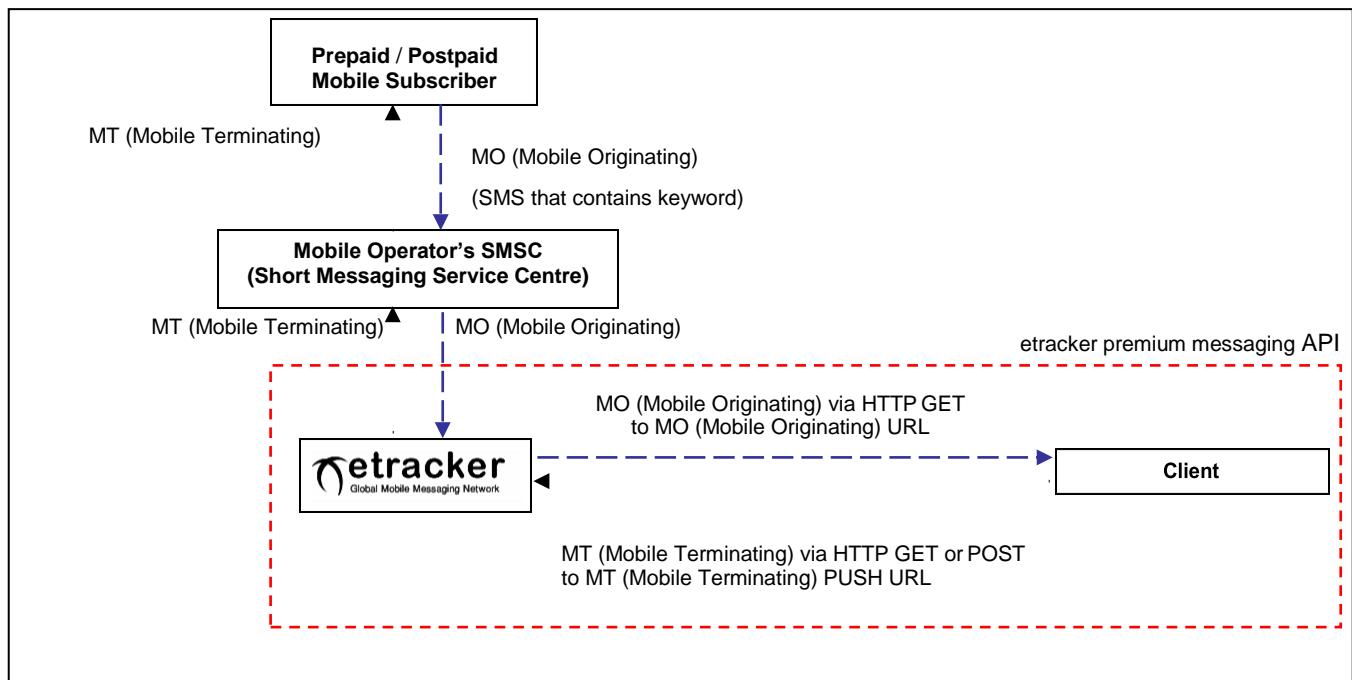
### 8.1 Product Feature Highlights

Feature	Description
HTTP	<ul style="list-style-type: none"> <li>Supports HTTP request submission.</li> </ul>
Content Format	<ul style="list-style-type: none"> <li>Supports normal text content in:               <ul style="list-style-type: none"> <li>Roman (ASCII)</li> <li>Unicode</li> </ul> </li> <li>Supports the display of:               <ul style="list-style-type: none"> <li>Binary (Ringtone and Picture)</li> <li>WAP Push (SI link)</li> </ul> </li> </ul>
Supports different MO options	<ul style="list-style-type: none"> <li>Supports MO via SMS and WAP/Web mobile. * WAP/Web opt in is only applicable for subscription service.</li> </ul>
MSISDN Forwarding option for WAP Opt in.	<ul style="list-style-type: none"> <li>Simplified steps for End Users, as they don't need to key in their mobile number and Telco when subscribing for contents. *Applicable for All telco <u>Benefits for Clients:</u> <ul style="list-style-type: none"> <li>Identification of Business Referral Sources - Clients can track the source, from which the end users decided to subscribe the contents from.</li> <li>Increased Revenue - Simplified user experience will promote user to subscribe from Clients more often. This will increase client's traffic and revenue at the same time as well.</li> </ul> </li> </ul>
Supports different MO Format	<ul style="list-style-type: none"> <li>Supports MO <i>with space</i> between keyword and variable</li> <li>Supports MO <i>without space between</i> keyword and variable</li> </ul>
Post-paid and Pre-paid billing	<ul style="list-style-type: none"> <li>Supports billing to Postpaid and Prepaid mobile subscribers.</li> </ul>
Delivery Notifications	<ul style="list-style-type: none"> <li>Receives real time acknowledgement for each message sent to Telcos.</li> <li>The DN statuses from DTAC for subscription service transactions are updated in MACROKIOSK database on a daily basis.</li> </ul>
Supports Sender ID	<ul style="list-style-type: none"> <li>Supports sender ID on MT broadcast delivery.               <ul style="list-style-type: none"> <li>AIS - requires 2 to 3 weeks of Sender ID approval.</li> </ul> </li> </ul>

Feature	Description
Supports IOD service	<ul style="list-style-type: none"> <li>Each MT delivered to mobile subscribers corresponds to each MO request received from mobile subscribers.</li> </ul>
Supports Subscription service	<ul style="list-style-type: none"> <li>Supports the delivery of a series of charged contents to the mobile subscribers over a subscription period.</li> <li>Charging methods:               <ul style="list-style-type: none"> <li>Charge-per-register</li> <li>Charge-per-MT</li> </ul> </li> </ul>
Access Level	<ul style="list-style-type: none"> <li>API access level only.</li> </ul>
Telco Coverage	<ul style="list-style-type: none"> <li>AIS</li> <li>DTAC</li> <li>Truemove Hutchison</li> </ul>
Shortcode	<ul style="list-style-type: none"> <li>4541xxx (7 digits)</li> </ul>
Billing method	<ul style="list-style-type: none"> <li>MO Billing</li> <li>MT Billing</li> </ul> <p>Note:</p> <p>Refer to <i>Chapter 4. MO / MT Billing</i> for further details on the billing methods.</p>
Supports Web Based Reporting system	<ul style="list-style-type: none"> <li>Offers simple user administration through web base reporting access.</li> </ul>

**Note:** Please refer to 10.0 Appendix A for the API Feature Summary.

## 8.2 etracker Premium Messaging API Process Flow



### **Legend:**

- - - - - ▶ Received MO (Mobile Originating) via POST or GET to MO (Mobile Originating) URL
- ▶ Sending MT (Mobile Terminating) via POST or GET to MT (Mobile Terminating) URL



## 9.0 FAQ

### 1. How do I integrate to etracker Premium Messaging API?

Use HTTP protocol (either POST or GET) to connect to the etracker Premium Messaging API. The etracker Premium Messaging API complies with the international standards used by the World Wide Web Consortium for communicating and exchanging of files. The specifications are developed and maintained by W3C.

### 2. I sent a request, but did not get any message on the mobile handset. Why?

First of all, please logon to <http://clientreports.etracker.cc> webpage to view the message status. The message status can be viewed at the "View Request Log" link. In the event the status is other than 'OK', please check that the application URL connecting to etracker Premium Messaging gateway is returning the correct values. It is likely that the returning values are not correctly formatted. Example: invalid price code, message not URL encoded, the page has HTML tags, redirected wrongly, the message content has exceeded the allowable message limits.

### 3. Why are messages delayed or missing?

Such incidences only happen when there is a very huge volume of messages being sent out at any one particular time. This delay is usually caused by the message queue at the Telco's SMSC (Short Messaging Service Centre). As for the missing messages, it is more often than not caused by the following scenarios:

- Mobile subscriber has insufficient credits (especially prepaid mobile subscribers)
- The particular mobile number is invalid or ceased
- The particular mobile number has been barred or terminated.

### 4. What is the format to convert SI (Service Indicator) message?

If the mobile content exceeds 140 bytes, the UDH will be split into multi parts.

#### Example:

0B05040B8423F00003840101C5061D03AE8184456E636F64696E672D56657273696F6E00312E33  
00AF82B4850205040045C60C033230322E392E3130342E3131302F63702F6D6964692F63616E6F6  
E696E442E6D69640011033100010352696E67746F6E65000101

BLUE = UDH

RED = SI (Service Indicator) (DO NOT CHANGE)

GREEN = String terminator (DO NOT CHANGE)

BLACK = hex code value

**5. Does MACROKIOSK provide client support?**

**MACROKIOSK** provides a 24x7 client support assistance. The number to call is +603 2163 2100.

Alternatively, client can email us at [techsupport@macrokiosk.com](mailto:techsupport@macrokiosk.com).

## 10.0 Appendix

### A. Thailand's PSMS API Feature Summary

Features Supported	DTAC Control Command	DTAC Client Control Command	Truemove Hutchison	AIS L +
Supports MO and MT Billing	Yes	Yes	Yes	Yes
Supports Postpaid and Prepaid Mobile Subscribers	Yes	Yes	Yes	Yes
Supports SenderID on MT	Yes	Yes	Yes	Yes
Supports IOD (Info-on-Demand) service	Yes	Yes	Yes	Yes
Supports subscription service: - charge-per-register - charge-per-MT	Yes Yes	Yes Yes	Yes Yes	Yes Yes
Supports MT Format: - Roman Characters (ASCII) - binary - Unicode	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes
Supports WAP PUSH (SI LINK)	Yes	Yes	Yes	Yes
Supports Delivery Notification	Yes	Yes	Yes	Yes
Supports 1 <sup>st</sup> Premium MT immediately after confirmed subscription	No	No	Yes	No
Supports broadcasting 1 message to many subscribers	Yes	Yes	No	No
Supports broadcasting 1 message to 1 subscriber	No	No	Yes	Yes

**B. Category Description**

Cat	Description	DTAC Control Command	DTAC CLIENT Control Command	TRUEMOVE HUTCHISON	AIS L +
0	IOD Service only	Premium/Free IOD MT.	Premium/Free IOD MT.	Premium/Free IOD MT	Premium/Free IOD MT
1	Welcome Message	DTAC will send Welcome Message.	DTAC will send Welcome Message.	Client to send Welcome Message	Client to send Welcome Message
2	1st Premium Message	Not supported	Not supported	Send 1st premium content (1 MT to 1 subscriber only)	Not supported.
3	Error Message	DTAC to send Error Message.	DTAC to send Error Message	Client to send Error Message.	Client to send Error Message
4	Weekly reminder message to active subscribers	DTAC to send Reminder Message	DTAC to send Reminder Message.	Client to send the reminder.	Client to send 1 reminder MT, 3 days in advance.
5	Renewal of package (only applicable for monthly/weekly package)	DTAC to renew package.	DTAC to renew package.	Client to send the renewal notice.	Client to send the renewal notice.
6	Content Broadcast	Broadcast 1 message to many subscribers	Broadcast 1 message to many subscribers	Broadcast 1 message to 1 subscriber	Broadcast 1 message to 1 subscriber
7	Cancellation Confirmation	DTAC to send Cancellation Confirmation Message	DTAC to send Cancellation Confirmation Message	TRUEMOVE HUTCHISON to send Cancellation Confirmation Message	AIS L + to send Cancellation Confirmation Message
8	Unregister Subscriber	Not supported	Not Supported	Not Supported	Not Supported

## Notes