

# Transactional Emails using APIs

## Getting started

### SMTP or API? It's your choice

You can send transactional emails with MailUp in two ways:

- With our SMTP relay (aka [SMTP+](#))
- Using our APIs (details below on this page)

They provide virtually the same features. In addition, performances, scalability, the aggregation policies and the usage restrictions (*i.e. do not use it for promotional emails*) of the APIs are exactly the same as the ones enforced for SMTP+. In fact, the two solutions share the backend architecture and the user authorization modules.

The main differences are the following:

- in case you need only the basic feature, getting started with SMTP+ is usually easier because there are a lot of "ready to use" code snippets that help you implement a SMTP client
- with APIs you can choose between providing the whole HTML code of the message or to refer an existing email template that may be personalized with merge tags. The SMTP relay does not support templates instead.
- the way you access them is different. Parameters that are specified with message headers in SMTP+, in the API are handled as fields of a JSON object that is passed to the web services. For more details about these parameters please [check out the examples that are provided for SMTP+](#)
- with APIs you can take advantage of a set of additional methods for creating and retrieving users

### Best Practices

- **Message aggregation:** avoid using message aggregation types that create several dozen messages per day in your MailUp admin console.
- **CampaignCode:** the new CampaignCode field is a great way to aggregate messages in a way that reduces the message count and - at the same time - provides more meaningful statistics. If you don't specify the CampaignCode value, the default value for the SMTP+ user applies (this value is set in the admin console).
- **Returned value.** Always check the value returned by the API: since most of the returned errors code are due to bad input parameters, any retry attempt will fail when returned code is HTTP 403.

### Sending limitations

**Free trial accounts:** please note that free trial accounts are limited to 25 messages sent per month.

**Paying customers:** once you become a paying customer, your sending speed and volume will be limited by the message frequency that you have purchased (e.g. 5,000 messages per hour). [See MailUp pricing for more.](#)

### Warnings

- **Password.** If you change the password of your SMTP+ account, then any application based on it, API included, will stop working.
- **Priority.** Do not rely too much on the "Priority" field: many restrictions apply on it because its value is properly handled only at a specific stage of message workflow. There is no way to guarantee that the order based on priority value is kept at all delivery stages.
- **No API error vs. successful message delivery.** Please be aware that - just like with SMTP+ - all methods used to send emails are asynchronous, hence a successful return code means that the request was correct and it has been added to a queue, but it does not guarantee immediate message delivery. In other words, a successful return code indicates that queuing and processing was successful, but the specified recipient might still be unreachable or unsubscribed.

#### On this page...

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## User Management resources

Depending on the invoked method, user management resources may require different credentials and authentication methods.

Authentication type	References	Description
OAuth 2	<a href="#">Authenticating with OAuth v2</a>	<p>Standard OAuth 2 with access and refresh tokens. In the request you must add the following header:</p> <pre>Authorization: Bearer {access_token}</pre> <p>Note: OAuth 2 requires the MailUp account credentials, not SMTP+ username and password</p>
SMTP+ credentials in the request body	<a href="#">SMTP relay service</a>	<p>SMTP+ username and password must be included in each request through the "User" parameter inside the request body.</p> <pre>"User": { "Username": "YourSmtplusUsername", "Secret": "YourSmtplusPassword" }</pre> <p>An error may be returned when the SMTP+ user is blocked. In this case you could use the "ListUserInfo" method to get more details about that user.</p> <p>For example, there could be a billing issue.</p>

### Create a SMTP+ user

To access resources and to use the methods, you must have an active account with an enabled SMTP+ user (SMTP+ users have the "sNNNNN\_NN" name format). You can create *SMTP+ accounts* and retrieve their credentials:

1. from within the MailUp platform. See: [SMTP Settings](#)
2. calling a REST API endpoint

In this page we explain how to create a SMTP+ account using the REST API endpoint.

### Get priority codes

<b>Description</b>	Service method to get the enumerated types of the available priority levels
<b>Authentication</b>	OAuth 2
<b>HTTP Method</b>	GET
<b>URL</b>	<pre>https://services.mailup.com/api/v1.1/rest/ConsoleService.svc/Console/SmtplusPriorities</pre>
<b>JSON request (example)</b>	none

<b>JSON response (example)</b>	<pre>[   {     "PriorityCode": 1,     "PriorityName": "VeryHigh"   },   {     "PriorityCode": 2,     "PriorityName": "High"   },   {     "PriorityCode": 3,     "PriorityName": "Normal"   },   {     "PriorityCode": 4,     "PriorityName": "Low"   },   {     "PriorityCode": 5,     "PriorityName": "VeryLow"   } ]</pre>
<b>Paging and filtering (example)</b>	none

### Create a new user

<b>Description</b>	Before creating a SMTP+ user you have to define one or more trusted senders email and/or one or more trusted domains. To retrieve the list of trusted emails please refer to <a href="#">this</a> page. Remember that you can create a SMTP+ user only if all the trusted senders you provide in the <i>TrustedSenders</i> field have the <i>StatusCode</i> property equals to <i>1 (Confirmed)</i> : you can find this information <a href="#">here</a> .
<b>Authentication</b>	OAuth 2
<b>HTTP Method</b>	POST
<b>URL</b>	<pre>https://services.mailup.com/api/v1.1/rest/ConsoleService.svc/Console/List/{id_list}/Smtplus</pre>
<b>JSON request (example)</b>	<pre>{   "IsEnabled": true,   "Note": "Your notes",   "PriorityCode": 2,   "TrustedDomains": ["yourtrusteddomain.com"],   "TrustedSenders": ["you@yourtrusteddomain.com"] }</pre>

<b>JSON response (example)</b>	<p>If your request is correct, you receive the following response:</p> <pre> 200 OK  {   "CreationDate": "2017-06-30 10:32:38Z",   "IdList": 2,   "IsEnabled": true,   "Note": "",   "Password": "ut0ee?k9jv",   "PriorityCode": 3,   "SmtplusEncryption": "NONE, STARTTLS",   "SmtplusPort": "25, 80, 1025-5000",   "SmtplusServer": "in.smtpok.com",   "TrustedDomains": [     "yourtrusteddomain.com"   ],   "TrustedSenders": [     "you@yourtrusteddomain.com"   ],   "UpdateDate": "2017-06-30 10:32:38Z",   "Username": "sXXXXX_XX" } </pre> <p>You receive a <i>400 Bad request</i> response containing the reason into the Error Description field when you try to create an account with:</p> <ul style="list-style-type: none"> <li>• a missing or empty request body</li> <li>• a wrong PriorityCode value (to retrieve the list of valid priority codes please refer to the <a href="#">Get priority codes</a> paragraph)</li> <li>• both the fields TrustedDomains and TrustedSenders are empty</li> <li>• at least an email address not trusted into the TrustedSenders field</li> <li>• at least a domain address not trusted into the TrustedDomains field</li> </ul> <p>You receive a <i>403 Forbidden</i> response, containing the reason in the Error Description field, when the <i>SMTP+ user management option</i> is not enabled in your platform.</p> <p>A HTTP 500 error is returned if the specified sender address has raised a warning in the deliverability checkup process (refer to "Account settings &gt; Deliverability checkup")</p>
<b>Paging and filtering (example)</b>	<p>none</p>

### Reset password

<b>Description</b>	Reset the password for the specified SMTP+ user. MailUp is in charge of creating a new password and providing it in the response body
<b>Authentication</b>	OAuth 2
<b>HTTP Method</b>	POST
<b>URL</b>	<pre> https://services.mailup.com/api/v1.1/rest/ConsoleService.svc/Console/List/{ID_LIST}/Smtplus/Reset </pre>

<b>JSON request (example)</b>	<pre>{   "Username": "&lt;username&gt;" }</pre>
<b>JSON response (example)</b>	<pre>200 OK  {   "CreationDate": "2017-08-11 07:42:45Z",   "IdList": 2,   "IsEnabled": true,   "IsTrusted": true,   "Note": "My notes",   "Password": "&lt;the new password&gt;",   "PriorityCode": 3,   "SmtplusEncryption": "NONE, STARTTLS",   "SmtplusPort": "25, 80, 1025-5000",   "SmtplusServer": "fast.smtpok.com",   "TrustedDomains": [],   "TrustedSenders": [     "you@yourtrusteddomain.com"   ],   "UpdateDate": "2017-08-11 08:44:50Z",   "Username": "&lt;username&gt;" }</pre> <p>If something goes wrong:</p> <pre>404 NotFound  {   "ErrorCode": "404",   "ErrorDescription": "Account not found.",   "ErrorName": "NotFound",   "ErrorStack": "" }</pre>
<b>Paging and filtering (example)</b>	none

## Get SMTP+ users

Use ListUserInfo to retrieve status details about current SMTP+ user or other SMTP+ users that belong to the same List of a specified MailUp account.

### ListUserInfo

<b>Description</b>	This method returns the list of SMTP+ users that exist in the List of a specified MailUp account. Status details of each user are provided
<b>Authentication</b>	SMTP+ credentials in the request body
<b>HTTP Method</b>	POST
<b>URL</b>	<a href="https://send.mailup.com/API/v2.0/users/listuserinfo">https://send.mailup.com/API/v2.0/users/listuserinfo</a>

<p><b>Reference</b></p>	<p>The request must contain the user's credentials and an optional username to query</p> <table border="1" data-bbox="459 277 1417 521"> <thead> <tr> <th colspan="3">ListUsersDTO</th> </tr> <tr> <th>Parameter</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>User</td> <td>SMTPUserDTO</td> <td>the calling User</td> </tr> <tr> <td>Username</td> <td>String</td> <td>optional User from which to read the profile, if omitted the method returns all users</td> </tr> </tbody> </table> <p>See the SendMessage reference for the definition of SMTPUserDTO</p> <p>The response is given by a JSON or XML document that has the structure of a list of users information ( List&lt;UserInfoDTO&gt;).</p> <table border="1" data-bbox="459 654 1259 1301"> <thead> <tr> <th colspan="3">UserInfoDTO</th> </tr> <tr> <th>Parameter</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Username</td> <td>SMTPUserDTO</td> <td>the username</td> </tr> <tr> <td>IdConsole</td> <td>long</td> <td>the MailUp account ID</td> </tr> <tr> <td>IdList</td> <td>long</td> <td>the List Id within that account</td> </tr> <tr> <td>IsEnabled</td> <td>bool</td> <td>true if the user is enabled</td> </tr> <tr> <td>Priority</td> <td>int</td> <td>default priority setting for messages sent by this user</td> </tr> <tr> <td>Note</td> <td>string</td> <td>admin notes</td> </tr> <tr> <td>CreationDate</td> <td>datetime</td> <td>creation date</td> </tr> <tr> <td>UpdateDate</td> <td>datetime</td> <td>last updated date</td> </tr> <tr> <td>DomainList</td> <td>string</td> <td>list of allowed domains</td> </tr> <tr> <td>SenderList</td> <td>string</td> <td>list of allowed email senders</td> </tr> <tr> <td>BlockUntil</td> <td>datetime</td> <td>date until the user is blocked</td> </tr> <tr> <td>AdminBlock</td> <td>bool</td> <td>true if the user is blocked by the system administrator</td> </tr> </tbody> </table>	ListUsersDTO			Parameter	Type	Description	User	SMTPUserDTO	the calling User	Username	String	optional User from which to read the profile, if omitted the method returns all users	UserInfoDTO			Parameter	Type	Description	Username	SMTPUserDTO	the username	IdConsole	long	the MailUp account ID	IdList	long	the List Id within that account	IsEnabled	bool	true if the user is enabled	Priority	int	default priority setting for messages sent by this user	Note	string	admin notes	CreationDate	datetime	creation date	UpdateDate	datetime	last updated date	DomainList	string	list of allowed domains	SenderList	string	list of allowed email senders	BlockUntil	datetime	date until the user is blocked	AdminBlock	bool	true if the user is blocked by the system administrator
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IdList	long	the List Id within that account																																																					
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<p><b>JSON request (example)</b></p>	<pre>{ "User": { "Username": "sNNNN_NN", "Secret": "..."}, "Username": "sMMMM_MM" }</pre>																																																						

<b>JSON response (example)</b>	<p>Example of a successful response:</p> <pre>{   "Status": "done",   "Code": "0",   "Message": "Ok",   "UserList":   [     {       "Username": "sMMMM_MM",       "IdConsole": 123,       "IdList": 1,       "IsEnabled": true,       "Priority": 3,       "Note": "",       "CreationDate": "2015-03-31T12:12:04",       "UpdateDate": "2015-03-31T12:12:34",       "DomainList": "",       "SenderList": "",       "BlockUntil": "0001-01-01T00:00:00",       "AdminBlock": false     }   ] }</pre> <p>Example of error:</p> <pre>{   "Status": "error",   "Code": "112",   "Message": "User is deleted." }</pre>
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## Send resources

All the send resources are accessed using SMTP+ credentials

Authentication type	References	Description
SMTP+ credentials in the request body	<a href="#">SMTP relay service</a>	<p>SMTP+ Username and password must be included in each request through the "User" parameter inside the request body.</p> <pre>"User": { "Username": "YourSmtpPlusUsername", "Secret": "YourSmtpPlusPassword" }</pre> <p>An error may be returned when the SMTP+ user is blocked. In this case you could use the "List UserInfo" method to get more details about that user.</p> <p>For example, there could be a billing issue.</p>

## Messages

This section includes the methods that can be used to send transactional emails.

Use **SendMessage** when you need to specify a completely different content for each message, while you can use **SendTemplate** - and use merge tags - if you want to pick the body of an existing content and simply customize some of its parts.

The two methods provide the same level of performance: pick the one that better fits your needs.

**i Using a reply-to address different from the sender address**

The use of a reply-to address different from the FROM email address must be enabled by MailUp. If you need this, please contact our support team by writing an email to [support@mailup.com](mailto:support@mailup.com).

## SendMessage

<b>Description</b>	<p>This method allows sending of a transactional message to multiple recipients. This method is not intended for bulk mailings.</p> <p>The message content is passed as input with HTML code or plain text. The message may also include attachments and embedded images.</p>																																																
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<b>Reference</b>	<p>The method takes as input the document JSON or XML that has the structure MessageDTO defined in the tables below.</p> <table border="1"><thead><tr><th colspan="3">MessageDTO</th></tr><tr><th>Parameter</th><th>Type</th><th>Description</th></tr></thead><tbody><tr><td>Subject</td><td>String</td><td>the subject of the message</td></tr><tr><td>Html</td><td>HtmlDTO</td><td>HTML part of the message (specify only the HTML inside the BODY tag)</td></tr><tr><td>Text</td><td>String</td><td>the plain text part of the message</td></tr><tr><td>From</td><td>EmailAddressDTO</td><td>the sender's name and email address</td></tr><tr><td>To</td><td>List&lt;EmailAddressDTO&gt;</td><td>the list of recipients in To header</td></tr><tr><td>Cc</td><td>List&lt;EmailAddressDTO&gt;</td><td>the list of recipients in Cc header</td></tr><tr><td>Bcc</td><td>List&lt;EmailAddressDTO&gt;</td><td>the list of recipients in Bcc</td></tr><tr><td>ReplyTo</td><td>String</td><td>the email address to be added into Reply-To header</td></tr><tr><td>CharSet</td><td>String</td><td>the charset of the message body</td></tr><tr><td>ExtendedHeaders</td><td>List&lt;NameValuePairDTO&gt;</td><td>list of custom headers (only SMTP headers that are approved by MailUp will be added)</td></tr><tr><td>Attachments</td><td>List&lt;MessagePartDTO&gt;</td><td>list of attachments</td></tr><tr><td>EmbeddedImages</td><td>List&lt;MessagePartDTO&gt;</td><td>list of embedded images</td></tr><tr><td>XSmtpAPI</td><td>XSmtpAPIDTO</td><td>the X-SMTPAPI header value, used for custom aggregations and configurations.  You can use this parameter to overwrite, for a specific message, some of the settings that are defined at SMTP+ user level</td></tr><tr><td>User</td><td>SmtplibUserDTO</td><td>the SMTP+ user credentials: the API uses the same credentials as the SMTP relay</td></tr></tbody></table>	MessageDTO			Parameter	Type	Description	Subject	String	the subject of the message	Html	HtmlDTO	HTML part of the message (specify only the HTML inside the BODY tag)	Text	String	the plain text part of the message	From	EmailAddressDTO	the sender's name and email address	To	List<EmailAddressDTO>	the list of recipients in To header	Cc	List<EmailAddressDTO>	the list of recipients in Cc header	Bcc	List<EmailAddressDTO>	the list of recipients in Bcc	ReplyTo	String	the email address to be added into Reply-To header	CharSet	String	the charset of the message body	ExtendedHeaders	List<NameValuePairDTO>	list of custom headers (only SMTP headers that are approved by MailUp will be added)	Attachments	List<MessagePartDTO>	list of attachments	EmbeddedImages	List<MessagePartDTO>	list of embedded images	XSmtpAPI	XSmtpAPIDTO	the X-SMTPAPI header value, used for custom aggregations and configurations.  You can use this parameter to overwrite, for a specific message, some of the settings that are defined at SMTP+ user level	User	SmtplibUserDTO	the SMTP+ user credentials: the API uses the same credentials as the SMTP relay
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HtmlDTO		
Parameter	Type	Description
DocType	String	the DOCTYPE directive
Head	String	the head content
Body	String	the body content
BodyTag	String	the body tag, default is "< body>"

EmailAddressDTO		
Parameter	Type	Description
Name	String	the name
Email	String	the email address

NameValueDTO		
Parameter	Type	Description
N	String	the name of the parameter
V	String	the value of the parameter

MessagePartDTO		
Parameter	Type	Description
Filename	String	the file name
ContentId	String	the Content-Id value
Body	Array of Byte	the array of byte of the content


XSmtapAPIDTO		
Parameter	Type	Description
CampaignName	String	the name used for the aggregated campaign
CampaignCode	String	the campaign code which determines the aggregation
Header	Boolean	add or not the MailUp header to the message
Footer	Boolean	add or not the MailUp footer to the message
ClickTracking	Boolean	enable click tracking
ViewTracking	Boolean	enable view tracking
Priority	Integer	set the priority of the message (1 high - 5 low )
Schedule	DateTime	<p>schedule date and time of when it should be sent</p> <p>Time must be specified with the CET Time zone because it is compared with our servers' time settings.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• "Schedule": "2021-10-06T17:35+02:00" (with Daylight Saving Time)</li> <li>• "Schedule": "2021-12-25T17:35+01:00" (without DST)</li> </ul> <p>Please note that an immediate sendout is done if the specified scheduling is before the current date time</p>
DynamicFields	List<NameValueDTO>	list of merge tags and recipient fields
CampaignReport	String	name of the aggregated campaign report
SkipDynamicFields	Boolean	skip merge tags evaluation

SmtpUserDTO		
Parameter	Type	Description
Username	String	username
Secret	String	password

SendResponseDTO		
Parameter	Type	Description
Status	String	the status of the response can be "done" or "error"
Code	String	the result code (see the Error Code table)
Message	String	the result message

<p><b>JSON request (example)</b></p>	<pre> {   "Html":   {     "DocType":null,     "Head":null,     "Body":"&lt;div&gt;Hello Mr. [firstname] [lastname] !!!&lt;/div&gt;&lt;br&gt;&lt;img width=\"600\" height=\"397\" src=\"cid:img001\"&gt;",     "BodyTag":"&lt;body&gt;"   },   "Text":"Hello world!!!",   "Subject":"Hello friend!",   "From":{"Name":"Test User","Email":"test@mailup.it"},   "To":[{"Name":"Massimo","Email":"info@mailup.it"}],   "Cc":[],   "Bcc":[],   "ReplyTo":null,   "CharSet":"utf-8",   "ExtendedHeaders":null,   "Attachments":null,   "EmbeddedImages":   [   {     "Filename":"Image.jpg",     "ContentId":"img001",     "Body":""   }   ],   "XsmtpAPI":   {     "CampaignName":"Test Campaign",     "CampaignCode":"1001",     "Header":false,     "Footer":true,     "ClickTracking":null,     "ViewTracking":null,     "Priority":null,     "Schedule":"2021-09-14T17:58+02:00",     "DynamicFields":[{"N":"firstname","V":"Mario"},{"N":"lastname","V":"Rossi"}],     "CampaignReport":null,     "SkipDynamicFields":null   },   "User":{"Username":"sNNNNN_NN","Secret":"..."} } </pre>
<p><b>JSON response (example)</b></p>	<p>Example of a successful response:</p> <pre> {   "Status":"done",   "Code":"0",   "Message":"Ok" } </pre> <p>Example of error:</p> <pre> {   "Status":"error",   "Code":"102",   "Message":"The operation is not authorized." } </pre>

**SendTemplate**

<b>Description</b>	<p>This method allows sending of a transactional message to multiple recipients, taking advantage of placeholders to customize content. This method is not intended for bulk mailings.</p> <p>The message content (both HTML body and plain text) is obtained by specifying the unique ID of a message previously created and stored in the MailUp admin console.</p> <p>The message may also include attachments and embedded images.</p> <div style="border: 1px solid #f0e68c; padding: 5px; margin-top: 10px;">  Only <b>lowercase</b> placeholders must be used in the referenced messages. If you use capital letters (e.g. "Dear [FirstName]"), the text is not replaced </div>
<b>Authentication</b>	SMTP+ credentials in the request body
<b>HTTP Method</b>	POST
<b>URL</b>	<a href="https://send.mailup.com/API/v2.0/messages/sendtemplate">https://send.mailup.com/API/v2.0/messages/sendtemplate</a>

**Reference**

<b>TemplatedTO</b>		
<b>Parameter</b>	<b>Type</b>	<b>Description</b>
Subject	String	the subject of the message
TemplateId	Integer	Numeric ID of the MailUp message whose content has to be used. It only accepts messages that belong to the same List in which the SMTP+ user was created
From	EmailAddressDTO	the sender's name and email address
To	List<EmailAddressDTO>	the list of recipients in To header
Cc	List<EmailAddressDTO>	the list of recipients in Cc header
Bcc	List<EmailAddressDTO>	the list of recipients in Bcc
ReplyTo	String	the email address to be added into Reply-To header
CharSet	String	the charset of the message body
ExtendedHeaders	List<NameValuePairDTO>	list of custom headers (only SMTP headers that are approved by MailUp will be added)
Attachments	List<MessagePartDTO>	list of attachments
EmbeddedImages	List<MessagePartDTO>	list of embedded images
XSmtpAPI	XSmtpAPI DTO	the X-SMTPAPI header value, used for custom aggregations and configurations  You can use this parameter to overwrite, for a specific message, some of the settings that are defined at SMTP+ user level
User	SmtplibUserDTO	the SMTP+ user credentials

See the SendMessage reference for the definition of the others DTOs (EmailAddressDTO, NameValueDTO, ...)

<b>SendResponseDTO</b>		
<b>Parameter</b>	<b>Type</b>	<b>Description</b>
Status	String	the status of the response can be "done" or "error"
Code	String	the result code (see the Error Code table)
Message	String	the result message

<b>JSON request (example)</b>	<pre> {   "TemplateId":694,   "Subject":"Test message from template",   "From":{"Name":"Test User","Email":"test@example.com"},    "To":[{"Name":"Max","Email":"info@example.com"}],   "Cc":[],   "Bcc":[],   "ReplyTo":null,   "CharSet":"utf-8",   "ExtendedHeaders":null,   "Attachments":null,   "EmbeddedImages":null,   "XSMTPAPI":null,   "User":{"Username":"sNNNNN_NN","Secret":"..."} } </pre>
<b>JSON response (example)</b>	<p>Example of a successful response:</p> <pre> {   "Status":"done",   "Code":"0",   "Message":"Ok" } </pre> <p>Example of error:</p> <pre> {   "Status":"error",   "Code":"111",   "Message":"The template is not found." } </pre>

## Error codes

This table lists the response codes that can be returned by the API methods whose authentication method consists of SMTP+ credentials in the request body.

HTTP response code	Application Code	Description
200	0	Ok
400	1	The operation failed.
403	101	The input is null.
403	102	The operation is not authorized.
403	103	The user is not enabled.
403	104	The user is blocked.
403	105	The user is blocked until this date.
403	106	The MailUp account cannot be found.
403	107	The MailUp account has been suspended.
403	108	The MailUp account has been deleted.
403	109	At least one recipient is required.
403	110	The sender is required.
403	111	The template cannot found.
403	112	The user has been deleted.

