



ThirdPartyManagement API

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Document Revision

Date	Version	Description
04/04/2022	1.0	Initial draft

API Description

ThridPartyManagement API is a RESTful API for third party integrators to create developer accounts and apps in Ingram Micro’s API platform and enable APIs for those apps. Customer credentials can be requested via a single API call rather than using the developer portal. This replaces multiple steps including:

- Developer portal registration
- Email confirmation
- Production API app creation
- Production app approval requests

Furthermore, developer accounts and apps are approved instantly, and API products are assigned to the app. Accounts can also be created in bulk and the API supports auto creation.

What is RESTful?

Representational State Transfer (REST) is a software architectural style that defines a set of constraints to be used for creating Web services. Web services that conform to the REST architectural style, called RESTful Web services (RWS), provide interoperability between computer systems on the Internet. RESTful Web services allow the requesting systems to access and manipulate textual representations of Web resources by using a uniform and predefined set of stateless operations.

Authentication

API authentication is provided through OAuth 2.0. OAuth 2.0 is an authorization type that enables you to approve an application that contacts another application for you without exposing your password. A token is requested from the Access Token URL by providing the App ID and Client Secret assigned to your application in the Ingram Micro Partner Central portal. The issued token is valid for 24 hours and should be included in the Authorization HTTP header when calling the API.

Request

Item	Value
Access Token URL	https://api.ingrammicro.com/oauth/oauth30/token
Method	POST
Content-Type	application/x-www-form-urlencoded
Form field 1 name	grant_type
Form field 1 value	client_credentials
Form field 2 name	client_id
Form field 2 value	<i>Your application App ID</i>
Form field 3 name	client_secret
Form field 3 value	<i>Your application Shared Secret</i>

Sample Request

```
POST https://api.ingrammicro.com/oauth/oauth30/token
grant_type=client_credentials&client_id=W83TU6HBE9c0VdwB6ngroBnV4Lrw2KBI&client_secret=nqZJXval4dWI3SXf
```

Response

Item	Value
access_token	<i>Your access token</i>
token_type	Bearer
expires_in	<i>Token expiry (seconds)</i>

Sample Response

```
{  
  "access_token": "m13aA1Z62Yi1R6k634h19Ga841mz",  
  "token_type": "Bearer",  
  "expires_in": "86399"  
}
```

API Request

Setting	Value
Production Endpoint URL	https://api.ingrammicro.com/platforms/v1/accounts
Method	POST

Request Headers

Header	Value
Accept	application/json
Content-Type	application/json
IM-CorrelationID	A unique identifier for the API call. A GUID/UUID is recommended
IM-CountryCode	Country code
IM-CustomerNumber	Customer's Ingram Micro account number
IM-SenderID	Sender identifier. This is a free-text value that the customer can set
Authorization	Bearer<space> + <i>your access token</i> (for example, Bearer 7b7888117cb72c437a3748554734fe2bd8b8c795)

Field Descriptions

Root Object

Name	Parent	Type	Data Type	Min,Max Occurrence	Description
partnercode3p	Root object	Parameter	String	1,1	Third party partner code. This is unique to the third-party developer and will be tagged to any developer accounts created via this API
uniqueIMcustomernumber	Root object	Parameter	String	1,1	Account number of the Ingram Micro customer
companyname	Root object	Parameter	String	1,1	Company name of the Ingram Micro customer
firstname	Root object	Parameter	String	1,1	Contact's first name. This can be at the third-party developer or the Ingram Micro customer
lastname	Root object	Parameter	String	1,1	Contact's last name. This can be at the third-party developer or the Ingram Micro customer
email	Root object	Parameter	String	1,1	Contact's email address – This can be at the third-party developer or the Ingram Micro customer. This value must be unique for each request made. Please note that confirmation emails will be sent to this address automatically on developer creation.
country	Root object	Parameter	String	1,1	ISO country code of the Ingram Micro customer
src	Root object	Parameter	String	1,1	Source value. Use "IM::thirdparty". This value tells Ingram Micro that the developer account was created through this API

API App Object

Name	Parent	Type	Data Type	Min,Max Occurrence	Description
apiapp	Root object	Object		1,1	App information container
appname	apiapp	Parameter	String	1,1	App name. Use "Production_APIs" here
appdescription	apiapp	Parameter	String	1,1	App description. Use "App for production APIs" here
apicatalog	apiapp	array		1,1	Collection of API applications requested

API Catalog Array

Name	Parent	Type	Data Type	Min,Max Occurrence	Description
catalogname	apicatalog	Parameter	String	1,1	API name (See appendix: API Products)
catalogversion	apicatalog	Parameter	Integer	1,1	API version

Sample Request

```
{
  "partnercode3p": "d2e8bcfeb13f4e2fa60f9c0e",
  "uniqueIMcustomernumber": "20-999995",
  "companyname": "TEST ACCOUNT",
  "firstname": "John",
  "lastname": "Smith",
  "email": "test.email@test.com",
  "country": "GB",
  "src": "IM::thirdparty",
  "apiapp": {
    "appname": "Production_APIs",
    "appdescription": "App for production APIs",
    "apicatalog": [
      {
        "catalogname": "IM::products_management",
        "catalogversion": "6"
      },
      {
        "catalogname": "IM::orders_management",
        "catalogversion": "6"
      },
      {
        "catalogname": "IM::invoices_management",
        "catalogversion": "5"
      }
    ]
  }
}
```

API Response

Field Descriptions

Error Response Object

Name	Parent	Type	Data Type	Min,Max Occurrence	Description
errors	Root object	Array		0,1	Error collection
id	errors	Parameter	String	1,1	Error ID
type	errors	Parameter	String	1,1	Error type
message	errors	Parameter	String	1,1	Error message

Error Fields Collection

Name	Parent	Type	Data Type	Min,Max Occurrence	Description
fields	errors	Array		0,1	Error fields collection
field	fields	Parameter	String	1,1	Field name
value	fields	Parameter	String	1,1	Field value
message	fields	Parameter	String	1,1	Error message

ThirdPartyManagement Response Root Object

Name	Parent	Type	Data Type	Min,Max Occurrence	Description
developerid	Root object	Parameter	String	1,1	Developer ID
Clientid	Root object	Parameter	String	1,1	Client ID
Clientsecret	Root object	Parameter	String	1,1	Client Secret

API App Information Object

Name	Parent	Type	Data Type	Min,Max Occurrence	Description
apiapp	Root object	Object		1,1	App information container
appname	apiapp	Parameter	String	1,1	App name
appstatus	apiapp	Parameter	String	1,1	App approval status
apicatalog	apiapp	Array	String	1,1	Collection of API applications requested

API Catalog Array

Name	Parent	Type	Data Type	Min,Max Occurrence	Description
catalogname	apicatalog	Parameter	String	1,1	API name
catalogdisplayname	apicatalog	parameter	String	1,1	API display name
catalogversion	apicatalog	Parameter	Integer	1,1	API version

Sample Response

```
{
  "developerid": "07tKH8B3RiLGDcqS",
  "clientid": "UnXbMY1K14ahALQiqrTbo3v9yPtdieFM",
  "clientsecret": "iLPfLvPMfIqDQrDW",
  "apiapp": {
    "appname": "20-999995-Production_APIs",
    "appstatus": IM::approved,
    "apicatalog": [
      {
        "catalogname": "products_prod_6",
        "catalogdisplayname": IM::products_management 6,
        "catalogversion": "6"
      },
      {
        "catalogname": "orders_prod_6",
        "catalogdisplayname": IM::orders_management 6,
        "catalogversion": "6"
      },
      {
        "catalogname": "invoices_prod_5",
        "catalogdisplayname": IM::invoices_management 5,
        "catalogversion": "5"
      }
    ]
  }
}
```

Response Headers of Interest

Header	Value
IM-CorrelationID	Echo back of the same request header value
IM-SenderID	Echo back of the same request header value

API HTTP Response Codes

HTTP Code	HTTP Code Description	Reason	Remedial Action
201	Created	The order processed without error	None required.
207	Multi-Status	The order processed with one or more errors	Check any error messages returned
400	Bad Request	The server could not understand the request due to invalid syntax.	Check that your request is correctly formed
401	Unauthorized	The request was unauthenticated	Check App ID and Client Secret values are valid and request a new token
403	Forbidden	The client does not have access rights to the content	Check you are using the correct endpoint and that you have been granted access to the requested API
404	Not Found	The server cannot find the requested resource	Check you are using the correct endpoint
500	Internal Server Error	The server has encountered a situation it doesn't know how to handle	Retry the transaction. If the error persists, contact your local ecommerce representative
502	Bad Gateway	This error response means that the server, while working as a gateway to get a response needed to handle the request, got an invalid response	Retry the transaction. If the error persists, contact your local ecommerce representative
503	Service Unavailable	The server is not ready to handle the request	Retry the transaction. If the error persists, contact your local ecommerce representative

504	Gateway Timeout	This error response is given when the server is acting as a gateway and cannot get a response in time	Retry the transaction. If the error persists, contact your local ecommerce representative
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Transaction Level Errors

message	Reason	Remedial Action
A developer account with the customer number XX-XXXXXX already exists. Please use forgot password if you need to reset your password	Customer number already in use	Contact API support
A developer account with the email id already exists	Email address already in use	Use a unique email address
Not a valid Country Code / Country not live for	Invalid country code entered	Correct the country code entered, by entering a valid value and retry the API call
CatalogName is missing in the request	Missing parameter value	Ensure you have provided values for all required fields
Sorry, we are experiencing internal system errors, please retry	System Error	Check values for all fields and if the error persists, please contact API support
FirstName is missing in the request	Missing parameter value	Ensure you have provided a value for the firstname parameter
LastName is missing in the request	Missing parameter value	Ensure you have provided a value for the lastname parameter
CompanyName is missing in the request	Missing parameter value	Ensure you have provided a value for the companyname parameter
Invalid Partner Code	Invalid partnerCode3p	Correct the partnercode3p and retry the API call
Kindly enter valid email address	Invalid email entered	Please enter a valid email address

Recommended Tests

Contact your local ecommerce representative for part numbers to use for these tests.

Scenario	Context
Invalid Access token	Always test this scenario
Invalid customer number	Always test this scenario
Invalid email address	Always test this scenario
Invalid country code	Always test this scenario
Invalid catalog name	Always test this scenario
Invalid catalog version	Always test this scenario

Appendix

API Products

catalogname	catalogversion	APIs
IM::products_management	6	Price & Availability API v6
		Product Search API v6
IM::orders_management	6	Order Create API v6
		Order Modify API v6
		Order Delete API v6
		Order Search API v6
		Order Detail API v6
IM::invoices_management	5	Invoice Request API v5