



## **McAfee Business to Business API Specification**

Version: **1.0.0**

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## 2 PREFACE

Thank you for joining as a McAfee Partner. This preface provides a quick overview of the guide, including its intended audience, revision history, and the latest updates included in this version. We appreciate your partnership with McAfee.

### 2.1 ABOUT THIS GUIDE

This guide serves to:

- Introduce McAfee micro-service communication.
- Describe the secure communication protocols.
- Explain the message formats utilized by McAfee and its Partners for communication.

### 2.2 AUDIENCE

This guide is designed to assist McAfee Partners in getting the communication protocol and message formats utilized by partners to transmit customer and service information to McAfee.

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## 3 WHAT'S NEW IN THIS RELEASE

In this version:

- Initial documentation is created with available APIs

<b>Description</b>	API Specification between McAfee and Partner Integration
<b>McAfee Contact</b>	
<b>Last Modified Date</b>	February 12 <sup>th</sup> , 2024

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## 4 REVISION HISTORY

Date	Version	Description
14-Nov-2023	1.0.0	Initial document prepared with the following APIs. <ul style="list-style-type: none"><li>• Subscription Management</li><li>• Device Management</li><li>• Pre-provision Management</li><li>• User Management</li><li>• Serial Key Management</li></ul>

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## 5 TERMINOLOGY AND ABBREVIATIONS

This section aims to provide a comprehensive reference for the terms and acronyms used throughout the document, ensuring a common understanding and facilitating effective communication in the integration process.

Term	Definition or Abbreviations
API	Application Programming Interface
JSON	JavaScript Object Notation
SKU	Stock Keeping Unit
CCID/UserTag	Customer Context Identifier, unique identifier for a user maintained by partner
B2B	Business to Business
SubscriptionTag	Unique identifier for a subscription maintained by partner

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## 6 INTRODUCTION

McAfee provides a range of Application Programming Interfaces (APIs) enabling you to seamlessly integrate McAfee services. This guide describes how to create an account, subscription, and obtain credentials necessary to initiate the integration process with McAfee.

When partners sell McAfee products to their customers, they share customer and service details with McAfee. McAfee utilizes this information to establish services for those customers. In the upcoming section, we'll briefly outline the secure communication protocol.

Partners can make service requests to McAfee in real time. This allows partners to send specific requests for each customer, subscribing or unsubscribing them from McAfee products and services as needed.

The APIs are crafted to retrieve unique identifiers from McAfee, specifically for each partner's unique attributes like userTag and subscriptionTag. These identifiers persist at both ends, enabling McAfee and the partner to distinctly recognize their respective attributes and manage them when changes occur.

For instance, these identifiers play a crucial role in facilitating real-time transaction notifications to the partner. When events occur concerning a user, subscription, or device, these identifiers are utilized via the listener API to promptly send notifications back to the partner.

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## 7 BUSINESS MODELS

Partner-driven business models refer to strategies and frameworks established by McAfee's partners to promote and market McAfee's services. These models showcase unique approaches, which vary among different partners. These approaches are outlined in the table below.

Business Model	Overview
One-billing on purchase	One-time billing with customers through partners during purchases or renewals" refers to a payment model where partners bill customers for a product or service at the point of sale or when renewing, without recurring charges. This model allows partners to distribute SKUs with a fixed term (1 year, 15 months, 2 years etc.) and handle the renewal.
Monthly billing on purchase or Recurring Subscriptions	Partners handle the monthly billing process directly with the customers. McAfee provides services to the customers based on the subscription but the billing interactions, including invoicing and payment collection, are managed by the partners on a monthly basis.
Key / ecodes redemption	Partners distribute serial keys that grant users access to McAfee's suite of services. These keys allow users to activate and create subscriptions, enabling them to enjoy the various offerings provided by McAfee.
Pre-provisioning with monthly billing handled by partner	Partners oversee pre-provisioning and manage the entire sales process, including billing for renewals. This entails setting up services in advance, ensuring that necessary accounts and configurations are prepared for users or customers when they start using a device or service.

The partners play a crucial role in expanding McAfee's reach, acting as intermediaries to distribute and make McAfee services accessible to end-users. Use cases for each model are elaborated in this section:

- [Business Usecases - Service provider Partner](#)
- [Business Use cases - Retail partner](#)

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## 8 API CATEGORIES

APIs are often categories based on their distinct functionalities and purposes. These classifications serve to organize and structure APIs according to their specific use cases, addressing various aspects of application development, data handling, and system integration.

### 8.1 SUBSCRIPTION MANAGEMENT

- **Creating an account and a subscription for a new customer** - This involves the process of setting up a new customer account and subscribing them to McAfee services.

- **Updating existing customer by renewing a subscription** - This action involves extending or renewing an existing subscription for a customer who is already using McAfee services.
- **Updating existing customer by cancelling a subscription** - This action revolves around terminating or cancelling an existing subscription for a customer who no longer requires McAfee services.
- **Querying existing subscription details based on McAfee's partner identifier** - This involves retrieving information about an existing subscription using McAfee's partner identifier, enabling partners to access specific details about the subscription.
- **Generating product download URL for adding additional devices for existing subscription** - This action empowers partners to acquire a URL facilitating the extension of security measures to additional devices associated with an already active subscription.
- **Generating activation code for existing subscription** - Partners have the capability to acquire a new activation code. This code enables the activation of additional devices within an existing subscription plan, ensuring enhanced security measures.

## 8.2 USER PROFILE MANAGEMENT

- **Updating customer email address** - Updating customer email address: This action involves modifying or updating the email address associated with a customer's account.
- **Querying customer information for a partner identifier** - This action enables partners to access precise details about a customer by utilizing a partner identifier, such as a user tag. Through this query, partners can retrieve information like the customer's first name, last name, and a unique reference identifier linked with the partner.

## 8.3 PRE-PROVISION MANAGEMENT

- **Setting up the account and required configuration in-advance for device onboard** - This action entails the primary of creating a new account and providing essential details within McAfee's system for a user begins onboarding a device.
- **Cancelling the pre-provision details** - This action revolves around terminating or discontinuing the preliminary set-up or provisioned information within McAfee's system.

## 8.4 DEVICE MANAGEMENT

- **Querying the existing device details** - involves retrieving information about devices associated with a specific subscription and customer within the McAfee system, or solely at the customer level.

- **Altering the existing device** - This action encompasses modifying the status of an existing device within the McAfee system. It involves actions like deactivating, activating, or entirely removing a device from association with a particular subscription of an account.

## 8.5 SERIAL KEY MANAGEMENT

- **Create a 5x5 key to create a subscription** - Involves generating a unique 5x5 key used to initialize the creation of a subscription within the McAfee system. This key enables users to redeem and establish the subscription on the McAfee ecommerce website.
- **Cancel the existing 5x5 key** - Involves the termination or deactivation of an already existing 5x5 key. If there's an associated subscription linked to this key within the McAfee system, this action also terminates or deactivates that subscription
- **Querying the existing key** - Involves retrieving details regarding the status of already existing 5x5 keys and their associated subscriptions within the McAfee system, if such associations exist.

## 9 CATEGORY-WISE APIS

API Category	API	Route	Path
Subscription Management	Create subscription (Provision)	<a href="#">POST</a>	/v1/provision
	Query subscription	<a href="#">GET</a>	/v1/subscriptions/{partnerSubRefId}?userTag={userTag}
	Update subscription	<a href="#">PATCH</a>	/v1/subscriptions/{partnerSubRefId}
	Cancel subscription	<a href="#">DELETE</a>	/v1/subscriptions/{partnerSubRefId}
	Change subscription ownership	<a href="#">POST</a>	/v1/subscriptions/optout
	Create activation code	<a href="#">POST</a>	/v1/subscriptions/{partnerSubRefId}/activation-code
	Query activation code	<a href="#">GET</a>	/v1/subscriptions/{partnerSubRefId}/activation-code/{activationCode}?userTag={userTag}
	Create keycard Url	<a href="#">POST</a>	/v1/subscriptions/{partnerSubRefId}/product-download-url
	Query by user identifier	<a href="#">GET</a>	/v1/partner-users/{partnerUserRefId}



API Category	API	Route	Path
User Profile Management	Update email address	<a href="#">PATCH</a>	/v1/partner-users/{partnerUserRefId}
Pre-Provision Management	Create pre-provision	<a href="#">POST</a>	/v1/pre-provision
	Query pre-provision	<a href="#">GET</a>	/v1/pre-provision?partnerSubRefId={partnerSubRefId}
	Query pre-provision	<a href="#">GET</a>	/v1/pre-provision?preProvisionTag={preProvisionTag}
	Cancel pre-provision	<a href="#">DELETE</a>	/v1/pre-provision/{partnerPreProvisionRefId}
Device Management	Query user devices	<a href="#">GET</a>	/v1/partner-users/devices?userTag={userTag}
	Query user subscription devices	<a href="#">GET</a>	/v1/subscriptions/{partnerSubRefId}/devices?userTag={userTag}
	Query device by device identifier	<a href="#">GET</a>	/v1/device-activations/{activationRefId}?userTag={userTag}
	Update device details by device identifier	<a href="#">PATCH</a>	/v1/device-activations/{activationRefId}?userTag={userTag}
Serial Key Management	Create product key	<a href="#">POST</a>	/v1/ecodekeys
	Query product key	<a href="#">GET</a>	/v1/ecodekeys/{productKey}
	Update product key	<a href="#">PATCH</a>	/v1/ecodekeys/{productKey}

## 10 STANDARDIZED API COMPONENTS

Commonly used elements across all APIs could effectively convey the shared aspects like header parameters, potential response codes, and error schemas used consistently across various APIs except the token generation API.

### 10.1 HEADER PARAMETERS

Header	Value
X-PARTNER-API-ID	When interfacing with McAfee's APIs across any of our domains (such as apis.mcafee.com, etc.), it is mandatory to include your API key.
X-Channel-Client-Code	McAfee provide unique integer to identify the Partner
Authorization	Authorization Token

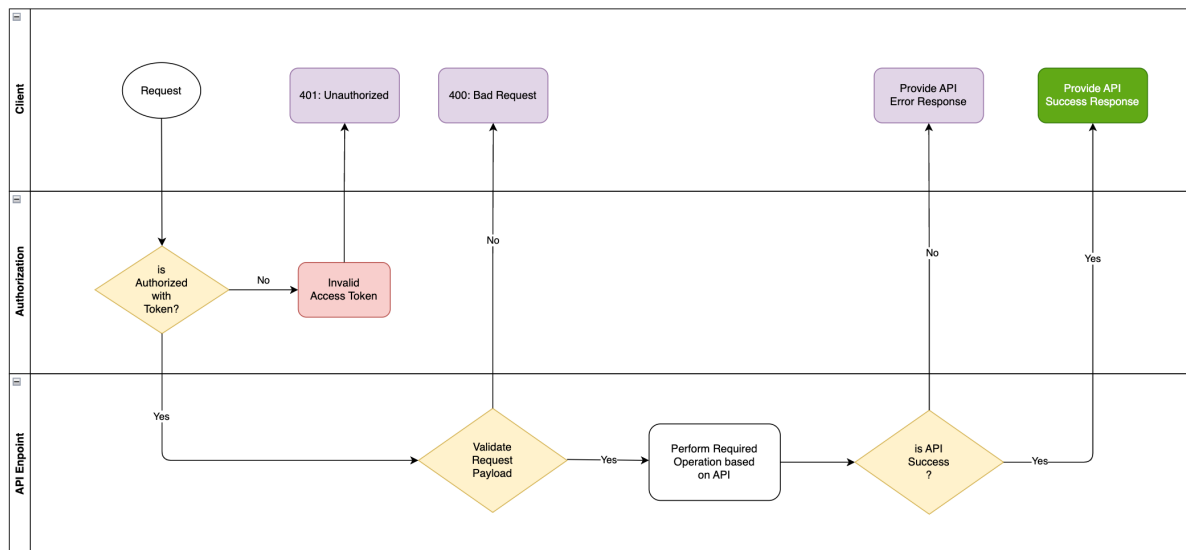
## 10.2 POSSIBLE SERVER RESPONSES

Status code	Description
200 OK	The request was successful, and response will contain an entity corresponding to the requested resource
201 Created	Request is successfully fulfilled, resulting in the creation of a new resource.
204 No content	Request is successfully fulfilled and returning no content.
400 Bad Request	Request cannot be processed due to client error like syntax not correct, size is too large
401 Unauthorized	Authentication failed for the signature sent.
404 Not Found	Requested resource could not be found but may be available in the future.
500 Internal server error	Generic error message, given when an unexpected condition was occurred
503 Service unavailable	This is temporary state where service may be down due to maintenance or overloaded.

## 10.3 RESPONSE ERROR SCHEMAS

Field	Type	Description
errors[].code	String	Short reason for the failure
errors[].reason	String	Descriptive reason for the failure
errors[].datetime.value	String	Date and time of the error occurred
errors[].datetime.timezone	String	Time zone for the datetime returned in the error response
errors[].rootCause.code	String	Short reason for the failure
errors[].rootCause.reason	String	Descriptive reason for the failure
errors[].rootCause.datetime.value	String	Date and time of the error occurred
errors[].rootCause.datetime.timezone	String	Time zone for the datetime returned in the error response

## 10.4 API SEQUENCE DIAGRAM



## 10.5 NOTES

<b>url version: vx</b>	Version can change for partners as and when McAfee upgrades or add new features to the APIs
<b>Authentication</b>	Authentication mechanism can change as and when McAfee upgrades or add enhanced API security
<b>Errors</b>	Errors are formed as a standard across all the API to show the errors, root cause along with datetime

---

## 11 URL ENDPOINTS FOR INTEGRATION

Environment	Type	URL
Production	Services	<a href="https://apis.mcafee.com/b2b">https://apis.mcafee.com/b2b</a>
Production	Token generation	<a href="https://id-m2m.mcafee.com/oauth/token">https://id-m2m.mcafee.com/oauth/token</a>
Integration/Testing	Services	<a href="https://stg.apis.mcafee.com/b2b">https://stg.apis.mcafee.com/b2b</a>
Integration/Testing	Token generation	<a href="https://idstg.mcafee.com/oauth/token">https://idstg.mcafee.com/oauth/token</a>

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## 12 AUTHENTICATION

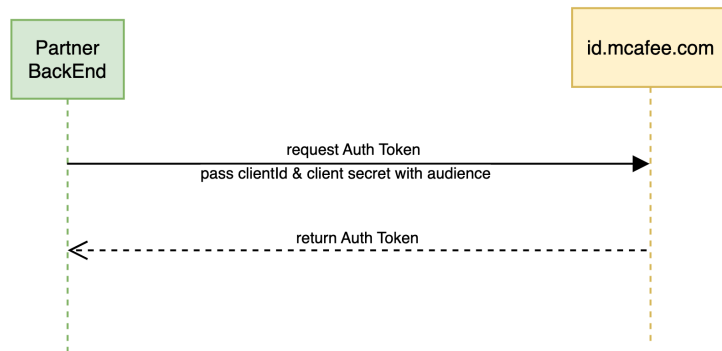
### 12.1 DESCRIPTION

To facilitate secure and efficient API interactions, McAfee will provide a unique API key to each of our partners along with client identifier and secret. Authentication through API keys and other identifiers is vital for secure interactions between McAfee and its partners.

API keys, along with client identifiers and secrets, serve as crucial components for secure communication and interaction with our suite of APIs. Authentication, in this context, ensures the validation and verification of a user's identity accessing our system. It guarantees that the user is authenticated adequately to access our resources and perform authorized actions within our system.

#### McAfee will provide the following:

- Unique API key for each partner, key format will follow a standardized format, resembling pcohtazRqQcdgixXVbDeXUD4c4exmFe. This is used in the API header as described in this section [Header Parameters](#).
- Unique auth0 client Id and client Secret
- URL, Audience to generate a Token



The API keys, client IDs, and client secrets are sensitive information critical for secure access to McAfee's systems. Keeping these credentials confidential is vital to prevent unauthorized access or misuse of our services. It's essential to safeguard this information and avoid sharing it publicly or with unauthorized entities to maintain the integrity and security of our systems and data.

## 13 HOW TO OBTAIN AUTH-TOKEN

To initiate an API call, an Access Token is essential. This token can be generated by supplying the clientId, clientSecret, and audience. These credentials authenticate your access and allow you to obtain the necessary token for interacting securely with the API endpoints.

### 13.1 END POINT

- <https://idstg.mcafee.com/oauth/token>

### 13.2 ROUTE & HEADER PARAMETERS

HTTP Method	POST
Header Section	NA

### 13.3 REQUEST BODY SCHEMAS

Field	Type	Size	Description	Mandatory
client_id	String	50	McAfee will generate & provide a unique identifier to partner	Yes
client_secret	String	100	McAfee will generate & provide a unique identifier to partner	Yes
audience	String	100	The unique identifier of the target API you want to access the resources	Yes
grant_type	String	50	Methods through which applications can gain the access.	Yes

### 13.4 RESPONSE BODY SCHEMAS

Field	Type	Description
access_token	String	key component of the authorization process. It is self-contained information which includes client and permission to the requested resource
expires_in	Integer	Indicate when the access token will expire and become invalid. client needs to calculate the expiration time by adding the "expires_in" value to the current time
token_type	String	specifies the type of the token usually "Bearer"

## 13.5 SAMPLE REQUEST

```
curl --location 'https://id-m2m.mcafee.com/oauth/token' \
--header 'Content-Type: application/json' \
--data '{
  "client_id": "{client Identifier}",
  "client_secret": "{client secret}",
  "audience": "https://partnerapi.mcafee.com",
  "grant_type": "client_credentials"
}'
```

## 13.6 SAMPLE RESPONSE

```
{
  "access_token":
  "eyJhbjBoakNJSzcoTG9SbzRKdoQ3cDgyRCJ9.eyJpc3MiOiJodHRwczovL2lkLm1jYWZlZS5jb2ovliwic3ViljoiMm5MTElBOTdiVHdhUjh4NlA1VW
  NpeGN6bHZsck1XRndAY2xpZW50cyIsImF1ZCI6ImhodHBzOi8vc2VydmJlZWFWaS5tY2FmZWUuY29tliwiaWFoljoxNzAwNDU1NzlyLCJleHAiOi
  jE3MDA1NDIxMjIsImF6cC6ljiuTEuJQTK3YlR3YVl4eDZQNlVjaXhjemx2bHJNV0Z3liwic2NvcGUiOiJhY2NvdW50OmZ1bGwgc3Vic2NyaXBoa
  W9uOmZ1bGwgc3JkZXI6ZnVsYCBjYXRhbG9nOmZ1bGwgZWZ3cHVibGlzaGVyOndyaXRliiwiZ3R5IjoieY2xpZW50LWNyZWRIbnRpYWxzIno.Uc
  n5fLmdifktMolqFFthtFrSRG8zVoRePwl2o4hyizkjQFy6gtHhsAeWDSobpDoPSQslgoFvDhSjAN6DQ13Gg-
  fYXFol7aCL3bBDqRZ_xcx2b8WZ6_Gs6pAlYpngQIP27yMo27zsrfrsNTJfYMO3Nuoqyidll2tctyUoqqyWcvRnFD8gl2gko8PxSwxVTe4IN87-
  2rcdvPp8li6VmM9ooJzjy7EuWPDGsPIIK4dYr2yENTn1hD2ttN4cr29VoxxyTXtWatgEOVvdyLyoGksLqXcL2B4oGeZx25FHjf7MNI7VYcg",
  "expires_in": 789,
  "token_type": "Bearer"
}
```

## 13.7 SAMPLE ERROR RESPONSE

HTTP/1.1 404 Not Found

```
{
  "message": "Not Found"
}
```

## 13.8 POSSIBLE ERROR MESSAGES

Http Status Code	Description	Reason
401	error Error: unsupported grant_type: undefined	Grant_type is required
401	error Error: incomplete input payload	Either clientId or clientSecret is required

## 14 API - PROVISION

### 14.1 DESCRIPTION

This section furnishes specifics and examples regarding a partner's request to create an account and subscription for a new customer. Partners will transmit customer and product details in JSON format using the POST API method. McAfee will process and respond by providing the necessary information after the creation of the account and subscription.

### 14.2 END POINT

- **/v1/provision**

### 14.3 ROUTE & HEADER PARAMETERS

HTTP Method	POST
Header Section	see section ' <a href="#">Authentication</a> '

### 14.4 REQUEST BODY SCHEMAS

Field	Type	Size	Description	Mandatory
transactionId	String	50	A unique id to identify the request	Yes
subscriptionTag	String	50	A unique identifier in partner system to identify a subscription	Yes
user.userTag	String	100	An id, unique in the partner system to identify the customer. Alphanumeric, -_ are allowed	Yes
user.firstName	String	50	First name of the user	No
user.middleName	String	50	Middle name of the user	No
user.lastName	String	50	Last name of the user	No
user.emailId	String	80	Email id of the customer. McAfee account will be created using this value. <u>Allowed Characters:</u> Before @: A to Z, a to z, 0 to 9, ., +, #, ~, !, \$, (, ), *, ;, =, :, &, - ' - " After @: A to Z, a to z, 0 to 9, ., -, _	No
plan.code	String	50	Plan identifier to identify the term for which subscription to be created	Yes
plan.category	String	10	The plan category governs whether the subscription is created using the partner's SKU or the McAfee-provided code. Partner SKU, provided by partner to create a subscription whereas Code is provided by McAfee	Yes
countryCode	String	2	Subscription country code	Yes
currencyCode	String	12	Subscription currency code	Yes

### 14.5 RESPONSE BODY SCHEMAS

Field	Type	Description
TransactionId	String	The request identifier sent in the request
partnerOrderRefId	String	The Order identifier generated by McAfee for each subscription changes request
subscriptionTag	String	Subscription tag sent in the request
user.userTag	String	User tag sent in the request
user.partnerUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
user.emailAddress	String	Email address sent in the request
user.firstName	String	First name sent in the request
user.middleName	String	Middle name sent in the request
user.lastName	String	Last name sent in the request
user.phoneNumber	String	Phone number sent in the request
channelClientCode	Integer	A unique id identifying the partner. McAfee will provide this value to partner
subscriptions [].partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request

Field	Type	Description
subscriptions []. cultureCode	String	Culture code sent in the request
subscriptions []. countryCode	String	Country code sent in the request
subscriptions []. planName	String	Plan name for the subscription created
subscriptions []. planCode	String	Plan Code for the subscription created
subscriptions []. planType	String	Plan Type of the subscription whether it is paid or trial
subscriptions []. status	String	Current status of the subscription
subscriptions []. ownedBy	String	Ownership of the subscription (McAfee or Channel)
subscriptions []. autoRenewal	String	Autorenewal status of the subscription
subscriptions []. startTime	Integer	Subscription start time in epoch format
subscriptions []. expiryTime	Integer	Subscription expiry time in epoch format
provisionDetails [].keycard.keycardUrl	String	Download links for all the product exists in the subscription. This is configurable at partner level to include in the response.
provisionDetails [].keycard.keycardFlagshipUrl	String	Direct download URL . Flagship url will be opened and the build is start downloading for the appropriate OS of the client
provisionDetails [].keycard.codeRefId	String	Internal identifier to identify the download URL request
provisionDetails [].keycard.keycardFlagshipShortUrl	String	Short URL format for direct download of product
provisionDetails [].activation.activationCode	String	Activation code for activating the product
provisionDetails [].activation.activationCodeRefId	String	Internal identifier to identify the activation code request

## 14.6 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/provision' \
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtbHhPSUhfVmxjNjJlUaEYoOTZVZyJg.eyJpc3MiOiJodHRwc2ovL2lkczRnLm1jYWZlZS5jb2X4iNzI6tvA07KYBB6rqEnJlq8AR27RpjkOqelBzGhi3syjkDTcGWfOtF6icznbybosikQPPmFNQt6Ht7g' \
--header 'Content-Type: application/json' \
--header 'X-Channel-Client-Code: 1429' \
data '{
  "transactionId": "cc3776c2-b718-49d1-867b-de42cob904dc",
  "subscriptionTag": "417238af-0849-417e-b77b-6ab5b0872686",
  "user": {
    "userTag": "67666109-e606-47e7-b803-281d20bbc102",
    "emailAddress": "mbpgqihfodwq@dispostable.com",
    "firstName": "mbpgqi",
    "middleName": "miudjb",
    "lastName": "hfodwq",
    "phoneNumber": "+17090397791"
  },
  "plan": {
    "code": "662_1YEAR_BASE_PAID_AR",
    "category": "CODE"
  },
  "countryCode": "US",
  "cultureCode": "EN-US"
}
```

## 14.7 SAMPLE RESPONSE

```

{
  "data": {
    "transactionId": "cc3776c2-b718-49d1-867b-de42cob904dc",
    "partnerOrderRefId": "a4ddec7c-c19f-4c36-b4bf-oc9573aba864",
    "subscriptionTag": "417238af-0849-417e-b77b-6ab5bo872686",
    "user": {
      "userTag": "67666109-e606-47e7-b803-281d2obbc102",
      "partnerUserRefId": "01c3b3de-d203-4db6-ab2a-2502323719f9",
      "emailAddress": "mbpgqihfodwq@dispostable.com",
      "firstName": "mbpgqi",
      "middleName": "miudjb",
      "lastName": "hfodwq",
      "phoneNumber": "+17090397791"
    },
    "channelClientCode": 349,
    "subscriptions": [
      {
        "partnerSubRefId": "ec6da280-d7f5-4fe8-aa7d-7202ee9973da",
        "cultureCode": "EN-US",
        "countryCode": "US",
        "planName": "McAfee+™ Advanced - Family 1 Year(s) Paid (Auto Renew)",
        "planCode": "662_1YEAR_BASE_PAID_AR",
        "planType": "PAID",
        "status": "ACTIVE",
        "ownedBy": "MCAFEE",
        "autoRenewal": "OFF",
        "startTime": 1699960955202,
        "expiryTime": 1731583355202,
        "provisionDetails": [
          {
            "keycard": {
              "keycardUrl": "https://qa.keycard.mcafee.com/keycard/gJSIZwe_oCu-IJODXBeknZGYCOFWPmJYMJ1nLOV2DqMiO251xbNi2YxoWOWKuzOypUA2V5Pzz-CLSgpfxD2JEg2?culture=en-us&source=07AeGyv8TNCwKb2ZH4a8axnkOyybRTAZ&tp=b2b-orch&chl=349",
              "keycardFlagshipUrl": "https://qa.keycard.mcafee.com/keycard/gJSIZwe_oCu-IJODXBeknZGYCOFWPmJYMJ1nLOV2DqMiO251xbNi2YxoWOWKuzOypUA2V5Pzz-CLSgpfxD2JEg2?culture=en-us&in=flagship&source=07AeGyv8TNCwKb2ZH4a8axnkOyybRTAZ&tp=b2b-orch&chl=349",
              "codeRefId": "7fc4dad1-0c6f-404c-a970-de4bb63f524c",
              "keycardFlagshipShortUrl": "https://mcafee.ly/3QXswlB"
            },
            {
              "activation": {
                "activationCode": "RgLDYUQKP3CQDGRP",
                "activationCodeRefId": "7fc4dad1-0c6f-404c-a970-de4bb63f524c"
              }
            }
          ]
        }
      ]
    }
  }
}

```

## 14.8 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request



```

{
  "errors": [
    {
      "code": "REQUIRED_TRANSACTION_ID",
      "reason": "TransactionId is required",
      "datetime": {
        "value": "2023-11-14T11:17:03.527Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-14T11:17:03.623529Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}

```

## 14.9 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	REQUIRED_TRANSACTION_ID	TransactionId is required
400	REQUIRE_USER_TAG	UserTag is required
400	REQUIRE_PLAN_CODE	Plan Code is required
400	INVALID_PLAN_CODE	Plan Code is invalid
400	INVALID_USER_TAG	UserTag is invalid
400	REQUIRE_PLAN_CATEGORY	Plan Category is required
400	INVALID_PLAN_CATEGORY	Plan Category is invalid
400	REQUIRE_COUNTRY_CODE	Country Code is required
400	Invalid Parameter	Incorrect value for parameter: countryCode
400	REQUIRE_CULTURE_CODE	Culture Code is required
400	INVALID_CULTURE_CODE	Culture Code is invalid
400	INVALID_PHONE_NUMBER	Invalid phoneNumber
400	REQUIRE_USER	User is required
400	REQUIRE_PLAN	Plan is required
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'

## 15 API - QUERY SUBSCRIPTION

### 15.1 DESCRIPTION

This section elaborates on partner requests to query subscriptions details existing customers. Partners will transmit customer and subscription identifier information in JSON format using the GET API method.

### 15.2 END POINT

- </v1/subscriptions/{partnerSubRefId}?userTag={userTag}>

### 15.3 ROUTE & HEADER PARAMETERS

HTTP Method	GET
Header Section	see section ' <a href="#">Authentication</a> '

### 15.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
{partnerSubRefId}	String	50	A unique id identifies the subscription. McAfee will provide this value at the time of subscription creation	No

### 15.5 QUERY PARAMETERS

Field	Type	Size	Description	Mandatory
{userTag}	String	50	Unique id identifies user/customer in the partner system	Yes

### 15.6 RESPONSE SCHEMAS

Field	Type	Description
subscriptions[].parnterSubRefId	String	A unique id identifies the subscription. McAfee will provide this value at the time of subscription creation
subscriptions[].subscriptionTag	String	A unique id identifies the subscription in Partner system. Partner will send this value at the time of subscription creation
subscriptions[].channelClientCode	Integer	A unique id, identifying the Partner. McAfee will provide this value to Partner
subscriptions[].cultureCode	String	Subscription's culture code
subscriptions[].countryCode	String	Subscription's country code
subscriptions[].user.userTag	String	A unique id identifies the customer/user in partner system
subscriptions[].user.partnerUserRefId	String	A unique id identifies the customer/user in McAfee system against user Tag
subscriptions[].user.emailAddress	String	Email id of the customer. McAfee account will be created using this value
subscriptions[].user.firstName	String	User's first name
subscriptions[].user.middleName	String	User's middle name
subscriptions[].user.lastName	String	User's last name
subscriptions[].planName	String	User subscription's plan name
subscriptions[].planCode	String	User subscription's plan code
subscriptions[].planType	String	User subscription's plan type
subscriptions[].Status	String	User subscription's status
subscriptions[].autorenewal	String	User subscription's auto renewal status
subscriptions[].startTime	Integer	User subscription's start time
subscriptions[].expiryTime	Integer	User subscription's expiry time
subscriptions[].creationTime	Integer	User subscription's creation time
subscriptions[].Package.name	String	User subscription's package name

## 15.7 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/subscriptions/c37f9cfc-7457-4bod-9194-b6cd68bf6725?userTag=761f2eb9-odef-48e1-bcb8-81cbo5921198'\
--header 'accept: application/json'\
--header 'Content-Type: application/json'\
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImNNVGROZHp4cV83UEhyaGNpRWprNyJy.eyJpc3MiOiJodHRwczovL2lkWEubWNhZmVILWlW5vG4l1w88qMQS_VUwMlS6ovoqmGXU2FKtCwSV6sUpm2ZY3F-JZf7uYzf2or3TbwK4TQ'\
--header 'X-Channel-Client-Code: 349'
```

## 15.8 SAMPLE RESPONSE

```
{
  "data": {
    "subscriptions": [
      {
        "partnerSubRefId": "c37f9cfc-7457-4bod-9194-b6cd68bf6725",
        "subscriptionTag": "c5dcdbd24-3a2b-47e2-8988-godo39bed9d5",
        "channelClientCode": 349,
        "cultureCode": "EN-US",
        "countryCode": "US",
        "user": {
          "userTag": "761f2eb9-odef-48e1-bcb8-81cbo5921198",
          "partnerUserRefId": "f423fee5-1d72-40c2-b67c-gd59aff304e2",
          "emailAddress": "",
          "firstName": "jvubdx",
          "middleName": "zgbyjl",
          "lastName": "fevkpp"
        },
        "planName": "plan_test_1686809027",
        "planCode": "test_plan_1686809027",
        "planType": "PAID",
        "status": "ACTIVE",
        "autoRenewal": "ON",
        "startTime": 1700481846481,
        "expiryTime": 1703073846481,
        "creationTime": 1700481846486,
        "package": {
          "name": "efw_TesT_package_1686805154"
        }
      }
    ]
  }
}
```

## 15.9 SAMPLE ERROR RESPONSE

### HTTP/1.1 400 Bad Request

```
{
  "errors": [
    {
      "code": "REQUIRE_USER_TAG",
      "reason": "UserTag is required",
      "datetime": {
        "value": "2023-11-20T13:57:51.907Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-20T13:57:51.671908Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}
```

## 15.10 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
404	USER_TAG_NOT_FOUND	No user found for given userTag
400	INVALID_PARTNER_SUB_REF_ID	Invalid PartnerSubRefId
404	Entity Not Found	No 'value' found for Id: '{channelClientCode}'

## 16 API - UPDATE SUBSCRIPTION

### 16.1 DESCRIPTION

This section details partner requests aimed at modifying subscriptions, either by renewing the existing plan or transitioning to another plan for an account. Partners will transmit customer and product information in JSON format using the PATCH API method. Following this, McAfee stores the necessary attributes from the request, processes the changes, and responds with the required information after implementing the modifications to the subscription as per the action specified in the request.

### 16.2 END POINT

- `/v1/subscriptions/{partnerSubRefId}`

### 16.3 ROUTE & HEADER PARAMETERS

HTTP Method	PATCH
Header Section	see section <a href="#">'Authentication'</a>

### 16.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
{partnerSubRefId}	String	50	A unique id identifies the subscription. McAfee will provide this value at the time of subscription creation	No

### 16.5 REQUEST BODY SCHEMAS

Field	Type	Size	Description	Mandatory
transactionId	String	50	A unique id to identify the request	Yes
userTag	String	100	An id, unique in the partner system to identify the customer. Alphanumeric, - _ are allowed	Yes
plan.code	String	50	Plan associated with subscription provided in the request.	No
plan.category	String	50	Plan's category. It can either SKU or CODE	No
countryCode	String	10	Subscription's country	No
action	String	15	Changes to the subscription will be applied based on the action. Action can be of any of the following: <ul style="list-style-type: none"><li>• RENEW</li><li>• UPGRADE</li><li>• DOWNGRADE</li><li>• RESTART</li></ul>	Yes

## 16.6 RESPONSE SCHEMAS

Field	Type	Description
transactionId	String	The request identifier sent in the request
partnerOrderRefId	String	The Order identifier generated by McAfee for each subscription changes request
user.userTag	String	User tag sent in the request
user.partnerUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
subscription[].partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request
subscription[].planCode	String	Plan Code for the subscription created
subscription[].planType	String	Plan Type of the subscription whether it is paid or trial
subscription[].startTime	Integer	Subscription start time in epoch format
subscription[].expiryTime	Integer	Subscription expiry time in epoch format
subscription[].countryCode	Integer	Country code sent in the request

## 16.7 SAMPLE REQUEST

```
curl --location --request PATCH 'https://stg.apis.mcafee.com/b2b/v1/subscriptions/38de26fo-be2c-4468-86cc-f82fb64be6d7'\
--header 'Content-Type: application/json'\
--header 'Authorization: bearer
eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImNNVGROZHp4cV83UEhyaGNpRWprNyJ9.eyJpc3MiOiJodHRwczovL2lkWEubWNhZmVIL
RWlW5vG4lw88qMQS_VUwMls6ovoqmGXU2FKtCwSV6sUpm2ZY3F-JZf7uYzf2or3TbwK4TQ'\
--header 'X-Channel-Client-Code: 349'\
--data '{
  "transactionId": "20d4a80d-38eg-463c-af1e-4b16a03bab6b",
  "userTag": "a16cf5ee-2c37-42b5-8099-e998824d347b",
  "action": "RENEW"
}'
```

## 16.8 SAMPLE RESPONSE

```
{
  "data": {
    "transactionId": "20d4a80d-38eg-463c-af1e-4b16a03bab6b",
    "partnerOrderRefId": "0482e13a-696a-4f20-8645-744193da2cd6",
    "user": {
      "userTag": "a16cf5ee-2c37-42b5-8099-e998824d347b",
      "partnerUserRefId": "798a36d1-f3d6-4oce-b5c2-baccaf6a372a"
    },
    "subscriptions": [
      {
        "planCode": "662_1YEAR_BASE_PAID_AR",
        "planType": "PAID",
        "startTime": 1700496011846,
        "expiryTime": 1795363211846,
        "countryCode": "US",
        "partnerSubRefId": "38de26fo-be2c-4468-86cc-f82fb64be6d7"
      }
    ]
  }
}
```

## 16.9 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```

{
  "errors": [
    {
      "code": "INVALID_ACTION",
      "reason": "Action is invalid",
      "datetime": {
        "value": "2023-11-20T17:44:00.085Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-20T17:44:00.240086Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}

```

## 16.10 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	INTERNAL_SERVER_ERROR	Internal Server Error
400	REQUIRE_USER_TAG	UserTag is required
404	USER_TAG_NOT_FOUND	No user found for given userTag
400	INVALID_ACTION	Action is invalid
400	EMPTY_ACTION	Action is required
400	COUNTRY_CODE_AND_CULTURE_CODE_REQUIRED	countryCode and cultureCode is required
400	INVALID_CULTURE_CODE	Culture Code is invalid
400	Invalid Parameter	Incorrect value for parameter: countryCode
400	NO_RULES_FOUND_FOR_RULES_TYPE	No rules found for RuleType

## 17 API - CANCEL SUBSCRIPTION

### 17.1 DESCRIPTION

This section outlines the specifics and examples of partner requests to cancel a subscription by providing the necessary attributes. Partners will transmit customer and product information in JSON format using the DELETE API method.

### 17.2 END POINT

- **/v1/subscriptions/{partnerSubRefId}**

### 17.3 ROUTE & HEADER PARAMETERS

HTTP Method	DELETE
Header Section	see section ' <a href="#">Authentication</a> '

## 17.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
{partnerSubRefId}	String	50	A unique id identifies the subscription. McAfee will provide this value at the time of subscription creation	No

## 17.5 REQUEST BODY SCHEMAS

Field	Type	Size	Description	Mandatory
transactionId	String	50	A unique id to identify the request	Yes
userTag	String	100	An id, unique in the partner system to identify the customer. Alphanumeric, - _ are allowed	Yes

## 17.6 RESPONSE SCHEMAS

Field	Type	Description
transactionId	String	The request identifier sent in the request
partnerOrderRefId	String	The Order identifier generated by McAfee for each subscription changes request
user.userTag	String	User tag sent in the request
user.partnerUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
subscription[].partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request
subscription[].planCode	String	Plan Code for the subscription created
subscription[].planType	String	Plan Type of the subscription whether it is paid or trial
subscription[].expiryTime	Integer	Subscription expiry time in epoch format
subscription[].countryCode	String	Country code sent in the request

## 17.7 SAMPLE REQUEST

```
curl --location --request DELETE 'https://stg.apis.mcafee.com/bzb/v1/subscriptions/a779e294-ced2-4d4c-86a1-94b3a466ec27' \
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImNNVGROZHp4cV83UEhyaGNpRWprNyJ9.eyJpc3MiOiJodHRwczovL2lkWEubWNhZmVILWpxYVJ1uPDJ1TetxXFJT6pRyBqIXAog28tO2_tkp4SUBmPmF2lGMJy-vxmoz51o4Qj3LsKgPGeKcSRdoE_uZjBlwLDRSTJnauaRIMkSHd7w' \
--header 'X-Channel-Client-Code: 349' \
--header 'Content-Type: application/json' \
--data '{
  "userTag": "d2bf6984-c173-4f37-8aef-ff3d6a09a4fc",
  "transactionId": "d627e603-841b-43a2-a315-3d375915c811"
}'
```

## 17.8 SAMPLE RESPONSE

```

{
  "data": {
    "transactionId": "d627e603-841b-43a2-a315-3d375915c811",
    "partnerOrderRefId": "3cb1785c-86f5-4e8a-bb22-b419560b1e85",
    "user": {
      "userTag": "d2bf6984-c173-4f37-8aef-ff3d6a09a4fc",
      "partnerUserRefId": "88ac4c85-356f-4e91-813f-c7015828d390"
    },
    "subscription": {
      "partnerSubRefId": "a779e294-ced2-4d4c-86a1-94b3a466ec27",
      "planCode": "662_1YEAR_BASE_PAID_AR",
      "planType": "PAID",
      "expiryTime": 1700586572714,
      "countryCode": "US"
    }
  }
}

```

## 17.9 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```

{
  "errors": [
    {
      "code": "SUBSCRIPTION_ALREADY_CANCELLED",
      "reason": "One of the subscriptions is already cancelled.",
      "datetime": {
        "value": "2023-11-21T17:14:51.842Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-21T17:14:51.891843Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}

```

## 17.10 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	SUBSCRIPTION_ALREADY_CANCELLED	One of the subscriptions is already cancelled
400	INVALID_PARTNER_SUB_REF_ID	PartnerSubRefID is invalid
400	REQUIRE_USER_TAG	UserTag is required

## 18 API - CHANGE SUBSCRIPTION OWNERSHIP

### 18.1 DESCRIPTION

This section describes on partner requests to transfer ownership of a subscription from 'CHANNEL' to 'MCAFREE' at any point based on customer membership with the Partner. Partners will transmit customer and subscription information in JSON format using the POST API method



## 18.2 END POINT

- `/v1/subscriptions/optout`

## 18.3 ROUTE & HEADER PARAMETERS

HTTP Method	POST
Header Section	see section ' <a href="#">Authentication</a> '

## 18.4 REQUEST BODY SCHEMAS

Field	Type	Size	Description	Mandatory
userTag	String	100	User sent in the request to identifier the partner user	Yes
partnerSubRefIds[].id	String	50	The subscription identifier generated by McAfee for each subscription sent in the request	Yes

## 18.5 RESPONSE SCHEMAS

- *200 response code with empty attribute*

## 18.6 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/subscriptions/optout' \  
--header 'Content-Type: application/json' \  
--header 'X-Channel-Client-Code: 349' \  
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImNNVGROZHp4cV83UEhyaGNpRWprNyJ9.eyJpc3MiOiJodHRwczovL2lkWEubWNhZmVILWpxYVViJ1uPDJ1TetxXFJT6pRyBqIXAog28tO2_tkp4SUBmPmF2IGMJy-vxmozsz1o4Qj3LsKgPGeKcSRdoE_uZjBlwLDRSTJnauaRIMkSHd7w' \  
--data '{  
  "userTag": "11871e22-4313-4d8a-9d61-24739e9544c2",  
  "partnerSubRefIds": [  
    {  
      "id": "dob876bo-8aff-4f53-aog3-8o448faogdga"  
    }  
  ]  
}'
```

## 18.7 SAMPLE RESPONSE

```
{  
  "data": {}  
}
```

## 18.8 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```

{
  "errors": [
    {
      "code": "SUBSCRIPTION_ALREADY_OPTED_OUT_OF_PARTNER_OWNERSHIP",
      "reason": "Subscription already opted out of partner ownership",
      "datetime": {
        "value": "2023-11-21T17:25:56.601Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-21T17:25:56.556602Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}

```

## 18.9 POSSIBLE ERROR MESSAGES

Http Stat us Code	Code	Reason
400	REQUIRE_USER_TAG	UserTag is required
400	REQUIRE_PARTNER_SUB_REF_ID	PartnerSubRefId is required
400	INVALID_PARTNER_SUB_REF_ID	PartnerSubRefID is invalid
400	SUBSCRIPTION_ALREADY_OPTED_OUT_OF_PARTNER_OWNERSHIP	Subscription already opted out of partner ownership

## 19 API - CREATE ACTIVATION CODE

### 19.1 DESCRIPTION

This section provides specifics and examples of a partner's request to create extra activation codes for a subscription.

### 19.2 END POINT

- */v1/subscriptions/{partnerSubRefId}/activation-code*

### 19.3 ROUTE & HEADER PARAMETERS

HTTP Method	POST
Header Section	see section ' <a href="#">Authentication</a> '

### 19.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
partnerSubRefId	String	50	The subscription identifier generated by McAfee for each subscription sent in the request	Yes

## 19.5 REQUEST BODY SCHEMA

Field	Type	Size	Description	Mandatory
user.userTag	String	100	An id, unique in the partner system to identify the customer. Alphanumeric, - _ are allowed	Yes

## 19.6 RESPONSE SCHEMAS

Field	Type	Description
user.userTag	String	User tag sent in the request
user.partnerUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely at the time of subscription creation
user.firstName	String	First name sent in the request
user.middleName	String	Middle name sent in the request
user.lastName	String	Last name sent in the request
channelClientCode	Integer	A unique id identifying the partner. McAfee will provide this value to partner
partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request
activationCode	String	Activation code generated through this request

## 19.7 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/subscriptions/e896787e-5269-44f6-904b-4623792d57ef/activation-code' \
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtbHhPSUhfVmxjNjJUaEY0OTZVZyJ9.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2QGMtVtjWCyio6DLGhnsyniHhr4BDAs4O5Hv5dJDO_gNeEpOKIso1FEr3dw' \
--header 'Content-Type: application/json' \
--header 'X-Channel-Client-Code: 349' \
--data '{
  "userTag": "bo14c2ef-f1c7-424e-9b3b-eb8afag24fd4"
}'
```

## 19.8 SAMPLE RESPONSE

```
{
  "data": {
    "user": {
      "userTag": "bo14c2ef-f1c7-424e-9b3b-eb8afag24fd4",
      "partnerUserRefId": "4dabao87-a505-4b04-ba5e-b490bfdooc75",
      "firstName": "gwxckp",
      "lastName": "keodyo"
    },
    "channelClientCode": 349,
    "partnerSubRefId": "e896787e-5269-44f6-904b-4623792d57ef",
    "activationCodeRefId": "c6098474-4b94-4f01-bec4-43f4b9441c05",
    "activationCode": "A8SMTT885W54LJM6"
  }
}
```

## 19.9 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```

{
  "errors": [
    {
      "code": "REQUIRE_USER_TAG",
      "reason": "UserTag is required",
      "datetime": {
        "value": "2023-11-29T14:49:52.452Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-29T14:49:52.454Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}

```

### 19.10 POSSIBLE ERROR MESSAGES

Http Response Code	Code	Reason
400	REQUIRE_USER_TAG	UserTag is required
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'
404	USER_TAG_NOT_FOUND	No user found for given userTag

## 20 API - QUERY ACTIVATION CODE

### 20.1 DESCRIPTION

This section furnishes specifics and examples of a partner's request to obtain the status of an activation code for an existing subscription associated with a customer. Partners will transmit customer, subscription, and activation code information using the GET API method.

### 20.2 END POINT

- `/v1/subscriptions/{partnerSubRefId}/activation-code/{activationCode}?userTag={userTag}`

### 20.3 ROUTE & HEADER PARAMETERS

HTTP Method	GET
Header Section	see section ' <a href="#">Authentication</a> '

### 20.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
partnerSubRefId	String	50	The subscription identifier generated by McAfee for each subscription sent in the request	Yes
activationCode	String	20	Activation Code to activate the product	Yes

## 20.5 QUERY PARAMETERS

Field	Type	Size	Description	Mandatory
user.userTag	String	100	An id, unique in the partner system to identify the customer. Alphanumeric, - _ are allowed	Yes

## 20.6 RESPONSE SCHEMAS

Field	Type	Description
user.userTag	String	User tag sent in the request
user.partnerUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
user.firstName	String	First name sent in the request
user.lastName	String	Last name sent in the request
channelClientCode	Integer	A unique id identifying the partner. McAfee will provide this value to partner
partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request
activationCode.code	String	Activation code to activate the product
activationCode.status	String	Status of Activation code
activationCode.code.usage.status	String	Status of Activation code usage
activationCode.code.usage.count	Integer	# of times used this Activation code

## 20.7 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/subscriptions/e896787e-5269-44f6-904b-4623792d57ef/activation-code/EJJW3LX947RNPL8M?userTag=bo14c2ef-f1c7-424e-9b3b-eb8afag24fd4'\
--header 'accept: application/json'\
--header 'Content-Type: application/json'\
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtbHhPSUhfVmxjNjJUaEY0OTZVZyJ9.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2QGMtVtjWcyio6DLGhnsyniHhr4BDA54O5Hv5dJDO_gNeEpOKIso1FEr3dw'\
--header 'X-Channel-Client-Code: 349'
```

## 20.8 SAMPLE RESPONSE

```
{
  "data": {
    "user": {
      "userTag": "bo14c2ef-f1c7-424e-9b3b-eb8afag24fd4",
      "partnerUserRefId": "4dabao87-a505-4b04-ba5e-b490bfdooc75",
      "firstName": "gwxckp",
      "lastName": "keodyo"
    },
    "channelClientCode": 349,
    "partnerSubRefId": "e896787e-5269-44f6-904b-4623792d57ef",
    "activationCode": {
      "code": "EJJW3LX947RNPL8M",
      "status": "ACTIVE",
      "usage": {
        "status": "NEW",
        "count": 0
      }
    }
  }
}
```

## 20.9 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```

{
  "errors": [
    {
      "code": "REQUIRE_USER_TAG",
      "reason": "UserTag is required",
      "datetime": {
        "value": "2023-11-29T15:07:33.603Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-29T15:07:33.605Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}

```

## 20.10 POSSIBLE ERROR MESSAGES

Http Response Code	Code	Reason
400	REQUIRE_USER_TAG	UserTag is required
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'
404	USER_TAG_NOT_FOUND	No user found for given userTag

## 21 API - CREATE KEYCARD URL

### 21.1 DESCRIPTION

This section details the specifics and provides examples of a partner's request to acquire a keycard URL for an existing subscription. In this scenario, the partner uses the POST API method, providing the existing Partner subscription identifier along with the user tag.

### 21.2 END POINT

- [/v1/subscriptions/{partnerSubRefId}/product-download-url](#)

### 21.3 ROUTE & HEADER PARAMETERS

HTTP Method	POST
Header Section	see section ' <a href="#">Authentication</a> '

### 21.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
partnerSubRefId	String	50	The subscription identifier generated by McAfee for each subscription sent in the request	Yes

### 21.5 REQUEST BODY SCHEMAS

Field	Type	Size	Description	Mandatory
userTag	String	100	An id, unique in the partner system to identify the customer. Alphanumeric, -_ are allowed	Yes

Field	Type	Size	Description	Mandatory
shortUrl	Boolean	1	Decide whether short url is required or not	Yes

## 21.6 RESPONSE SCHEMAS

Field	Type	Description
user.userTag	String	User tag sent in the request
user.partnerUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
user.firstName	String	First name sent in the request
user.lastName	String	Last name sent in the request
channelClientCode	Integer	A unique id identifying the partner. McAfee will provide this value to partner
partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request
productDownloadUrl	String	Download links for all the product exists in the subscription.
keycardFlagshipUrl	String	Direct download URL
keycardFlagshipShortUrl	String	Short URL format for direct download of product
activationCodes	String	Activation code for activating the product

## 21.7 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/subscriptions/e896787e-5269-44f6-904b-4623792d57ef/product-download-url' \
--header 'Authorization: bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtbHhPSUhfVmxjNjJUaEYoOTZVZyJg.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2-QGsmTvtjWCyio6DLGhn5yniHhr4BDAs4O5Hv5dJDO_gNeEpOKIso1FER3dw' \
--header 'Content-Type: application/json' \
--header 'X-Channel-Client-Code: 349' \
--data '{
  "userTag": "bo14c2ef-f1c7-424e-9b3b-eb8af924fd4",
  "shortUrl": true
}'
```

## 21.8 SAMPLE RESPONSE

```
{
  "data": {
    "user": {
      "userTag": "bo14c2ef-f1c7-424e-9b3b-eb8af924fd4",
      "partnerUserRefId": "4dabao87-a505-4b04-ba5e-b490bfdooc75",
      "firstName": "gwxckp",
      "lastName": "keodyo"
    },
    "channelClientCode": 349,
    "partnerSubRefId": "e896787e-5269-44f6-904b-4623792d57ef",
    "productDownloadUrl": "https://stg.keycard.mcafee.com/keycard/rn-MoV1_KaZdgSWNRd2gzK_ia261pfQuj7UY8xoPo7cykFdMzNEW7iuWKcXqQv8tcCHnV3ERWIR5ANTKQxdhGA2?culture=en-us&source=WwHMBiiocFsCWVzQdOgGpteyiH4dTNN2&tp=b2b-orch&chl=349",
    "keycardFlagshipUrl": "https://stg.keycard.mcafee.com/keycard/rn-MoV1_KaZdgSWNRd2gzK_ia261pfQuj7UY8xoPo7cykFdMzNEW7iuWKcXqQv8tcCHnV3ERWIR5ANTKQxdhGA2?culture=en-us&in=flagship&source=WwHMBiiocFsCWVzQdOgGpteyiH4dTNN2&tp=b2b-orch&chl=349",
    "activationCode": "EJJW3LX947RNPL8M",
    "keycardFlagshipShortUrl": "https://mcafee.ly/3sXkssR"
  }
}
```

## 21.9 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```

{
  "errors": [
    {
      "code": "REQUIRE_USER_TAG",
      "reason": "UserTag is required",
      "datetime": {
        "value": "2023-11-29T15:20:10.931Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-29T15:20:10.934Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}

```

### 21.10 POSSIBLE ERROR MESSAGES

Http Response Code	Code	Reason
400	REQUIRE_USER_TAG	UserTag is required
400	INVALID_SHORT_URL	ShortUrl is invalid
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'
404	USER_TAG_NOT_FOUND	No user found for given userTag

## 22 API - QUERY BY USER IDENTIFIER

### 22.1 DESCRIPTION

This section offers specifics and examples of a partner's request to retrieve the partner's unique user identifier based on the user identifier provided by McAfee. Partners will transmit product information in JSON format using the GET API method..

### 22.2 END POINT

- `/v1/partner-users/{partnerUserRefId}`

### 22.3 ROUTE & HEADER PARAMETERS

HTTP Method	GET
Header Section	see section ' <a href="#">Authentication</a> '

### 22.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
partnerUserRefId	String	50	The user identifier generated by McAfee for each Partner user identifier	Yes

### 22.5 RESPONSE SCHEMAS

Field	Type	Description
parnterUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely



Field	Type	Description
userTag	String	User tag assign at the time of subscription creation

## 22.6 SAMPLE REQUEST

```
curl --location --request PATCH 'https://stg.apis.mcafee.com/b2b/v1/partner-users/087c68bf-9360-4255-9033-f81a16822399'\
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtbHhPSUhfVmxjNjJUaEYoOTZVZyJg.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2nD4VxUyXo88eSIEbFvqyHV52b6RgXY191lx83QWDNa3XFfsAtXnodwLiLRjNPvXhWy4WA'\
--header 'x-partner-api-id: testxpld'\
--header 'Content-Type: application/json'\
--header 'X-Channel-Client-Code: 349'\
--data-raw '{
  "emailAddress": "stgPetra_Zieme@yahoo.com",
  "firstName": "fristname of the user",
  "lastName": "last name of the user"
}'
```

## 22.7 SAMPLE RESPONSE

```
{
  "data": {
    "userTag": "3de71218-142e-4a38-g26b-74a5f8b831e8",
    "partnerUserRefId": "087c68bf-9360-4255-9033-f81a16822399",
    "firstName": "first name of the user",
    "lastName": "last name of the user"
  }
}
```

## 22.8 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```
{
  "errors": [
    {
      "code": "Entity Not Found",
      "reason": "No 'value' found for Id: '3491'",
      "datetime": {
        "value": "2023-12-01T10:45:57.457Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "OperationError",
          "datetime": {
            "value": "2023-12-01T10:45:57.457Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}
```

## 22.9 POSSIBLE ERROR MESSAGES

Http Response Code	Code	Reason
404	NOT_FOUND_ACCOUNT_WITH_PARTNER_USER_ID	No Account found with the provided partnerUserId

Http Response Code	Code	Reason
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'

## 23 API - UPDATE EMAIL ADDRESS

### 23.1 DESCRIPTION

This section details specifics and examples of a partner's request to update the email address of a partner's customer based on the user identifier provided by McAfee. Partners will transmit product information in JSON format using the PATCH API method.

### 23.2 END POINT

- `/v1/partner-users/{partnerUserRefId}`

### 23.3 ROUTE & HEADER PARAMETERS

HTTP Method	PATCH
Header Section	see section ' <a href="#">Authentication</a> '

### 23.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
partnerUserRefId	String	50	The user identifier generated by McAfee for each Partner user identifier	Yes

### 23.5 REQUEST BODY SCHEMAS

Field	Type	Size	Description	Mandatory
emailAddress	String	50	Customer's email address	Yes

### 23.6 RESPONSE SCHEMAS

Field	Type	Description
partnerUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
userTag	String	User tag assign at the time of subscription creation
firstName	String	
lastName	String	

### 23.7 SAMPLE REQUEST

```
curl --location --request PATCH 'https://stg.apis.mcafee.com/b2b/v1/partner-users/087c68bf-g360-4255-9033-f81a16822399'\
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtahHPSUhfVmxjNjJUaEY0OTZVZyJg.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2nD4VxUyXo88eSIEbFvqyHV52b6RgXY191lx83QWDNa3XFfsAtXnodwLiLiRjNPNvXhWy4WA'\
--header 'x-partner-api-id: testxpId'\
--header 'Content-Type: application/json'\
--header 'X-Channel-Client-Code: 349'\
--data-raw '{
  "emailAddress": "4stgBrandt.Hermiston@yahoo.com"
}'
```

## 23.8 SAMPLE RESPONSE

```
{
  "data": {
    "userTag": "3de71218-142e-4a38-926b-74a5f8b831e8",
    "partnerUserRefId": "087c68bf-9360-4255-9033-f81a16822399",
    "firstName": "first Name of user",
    "lastName": "last name of user"
  }
}
```

## 23.9 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```
{
  "errors": [
    {
      "code": "Entity Not Found",
      "reason": "No 'value' found for Id: '3491'",
      "datetime": {
        "value": "2023-12-01T10:45:57.457Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "OperationError",
          "datetime": {
            "value": "2023-12-01T10:45:57.457Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}
```

## 23.10 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
404	NOT_FOUND_ACCOUNT_WITH_PARTNER_USER_ID	No Account found with the provided partnerUserId
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'

## 24 API - CREATE PRE-PROVISION

### 24.1 DESCRIPTION

This section elaborates on the specifics and examples of a partner's request to pre-provision a new customer. Partners will transmit customer and product information in JSON format using the POST API method. This action encompasses the initial steps of creating a new account and providing essential information within McAfee's system when a user onboards a device.

## 24.2 END POINT

- [/v1/pre-provision](#)

## 24.3 ROUTE & HEADER PARAMETERS

HTTP Method	POST
Header Section	see section ' <a href="#">Authentication</a> '

## 24.4 REQUEST BODY SCHEMAS

Field	Type	Size	Description	Mandatory
transactionId	String	50	A unique id to identify the request	Yes
preProvisionTag	String	50	A unique identifier in partner system to identify a subscription	Yes
user.userTag	String	100	An id, unique in the partner system to identify the customer. Alphanumeric, - _ are allowed	Yes
user.firstName	String	50	First name of the user	No
user.middleName	String	50	Middle name of the user	No
user.lastName	String	50	Last name of the user	No
user.emailId	String	80	Email id of the customer. McAfee account will be created using this value. <b>Allowed Characters:</b> Before @: A to Z, a to z, 0 to 9, ., +, #, ~, !, \$, (, ), *, _ , =, :, &, -, _ , " , After @: A to Z, a to z, 0 to 9, ., -, _	No
user.phoneNumber	String	15		No
plan.code	String	50	Plan identifier to identify the term for which subscription to be created	Yes
plan.category	String	10	Plan category will decide whether the code will be Code or partner SKU.	Yes
countryCode	String	2	Subscription country code	Yes

## 24.5 RESPONSE SCHEMAS

Field	Type	Description
TransactionId	String	The request identifier sent in the request
partnerOrderRefId	String	The Order identifier generated by McAfee for each subscription changes request
preProvisionTag	String	Pre-provision tag sent in the request used to identify at the time of onboarding
user.userTag	String	User tag sent in the request
user.partnerUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
user.emailAddress	String	Email address sent in the request
user.firstName	String	First name sent in the request
user.middleName	String	Middle name sent in the request
user.lastName	String	Last name sent in the request
user.phoneNumber	String	Phone number sent in the request
channelClientCode	Integer	A unique id identifying the partner. McAfee will provide this value to partner

Field	Type	Description
37partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request
partnerPreProvisionRefId	String	The pre-provision reference identifier generated by McAfee for the preProvisionTag sent in the request
PreProvisionStatus	String	Pre-provision status

## 24.6 SAMPLE REQUEST

```
curl -location 'https://stg.apis.mcafee.com/bzb/v1/pre-provision' \
--header 'Authorization: bearer
eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6Im9taHhPSUhfVmxjNjJUaEYoOTZVZyJg.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2
QgsmTvtjWCyio6DLGhnsyniHhr4BDAs4O5Hv5dJDO_gNeEpOKIso1Fer3dw' \
--header 'Content-Type: application/json' \
--header 'X-Channel-Client-Code: 1429' \
--data '{
  "transactionId": "63edacoc-b46a-42a4-ad2d-796508118439",
  "preProvisionTag": "92577b43-376a-49ba-9c83-7e98doc44a2c",
  "user": {
    "userTag": "55602ofd-fo46-43d3-bd4a-5d7c1f4d592d"
  },
  "plan": {
    "code": "29HgW",
    "category": "SKU"
  },
  "countryCode": "US"
}'
```

## 24.7 SAMPLE RESPONSE

```
{
  "data": {
    "transactionId": "6c0b248f-dbbb-413d-9778-eaf3b4e6c40b",
    "preProvisionTag": "df542cd2-7a8c-497c-8c3b-48a44c745d6b",
    "partnerOrderRefId": "29c1722c-5e82-414c-9a83-555651dd1b15",
    "user": {
      "userTag": "63232c42-77b5-43d3-84f7-1465aac0334d",
      "partnerUserRefId": "oc587e50-a33d-4a30-bcee-9a87c4ba43d5"
    },
    "channelClientCode": 1429,
    "37partnerSubRefId": "c5186703-2471-4e63-94b9-d3c5e941818c",
    "partnerPreProvisionRefId": "320b8db4-3e0b-4dec-9034-50e15708e2f1",
    "preProvisionStatus": "ACTIVE"
  }
}
```

## 24.8 SAMPLE ERROR RESPONSE

HTTP/1.1      400 Bad Request

```

{
  "errors": [
    {
      « code » : « REQUIRE_PRE_PROVISION_TAG »,
      "reason": "PreProvisionTag is required",
      "datetime": {
        « value » : « 2023-11-29T07:32:21.717Z »,
        « timezone » : « UTC »
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-29T07:32:21.719Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}

```

## 24.9 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	REQUIRE_TRANSACTION_ID	TransactionId is required
400	REQUIRE_PRE_PROVISION_TAG	PreProvisionTag is required
400	REQUIRE_USER	User is required
400	REQUIRE_PLAN	Plan is required
400	REQUIRE_PLAN_CODE	Plan Code is required
400	REQUIRE_PLAN_CATEGORY	Plan Category is required
400	INVALID_PLAN_CODE	Plan Code is invalid
400	INVALID_PLAN_CATEGORY	Plan Category is invalid
400	REQUIRE_COUNTRY_CODE	Country Code is required
400	Entity Not Found	No 'plans' found for Id: {planIdentifier}, d602bf59-8ac4-4931-b77f-5a1139b2471b, US4'
400	NO_MAPPING_AVAILABLE_IN_PARTNER_SKU	No Mapping Available in partner sku for this planClientCode

## 25 API - QUERY PRE-PROVISION

### 25.1 DESCRIPTION

This section outlines the specifics and examples of partners querying pre-provision details for a customer, including the necessary initial configuration required for device onboarding. Partners will provide the pre-provision identifier to the McAfee system at the time of creation in JSON format using the GET API method.

## 25.2 END POINT

- `/v1/pre-provision?partnerSubRefId={partnerSubRefId}`
- `/v1/pre-provision?preProvisionTag={preProvisionTag}`

## 25.3 ROUTE & HEADER PARAMETERS

HTTP Method	GET
Header Section	see section <a href="#">'Authentication'</a>

## 25.4 QUERY PARAMETERS

Field	Type	Size	Description	Mandatory
preProvisionTag	String	50	A unique identifier in partner system to identify a pre provision details for a subscription	No
partnerSubRefId	String	100	The subscription identifier generated by McAfee for each subscription sent in the request	No

Either one of the attributes needs to be passed to get the response.

## 25.5 RESPONSE SCHEMAS

Field	Type	Description
partnerOrderRefId	String	The Order identifier generated by McAfee for each subscription changes request
preProvisionTag	String	Pre-provision tag sent in the request used to identify at the time of onboarding
user.userTag	String	User tag sent in the request
user.partnerUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
user.emailAddress	String	Email address sent in the request
user.firstName	String	First name sent in the request
user.middleName	String	Middle name sent in the request
user.lastName	String	Last name sent in the request
user.phoneNumber	String	Phone number sent in the request
channelClientCode	Integer	A unique id identifying the partner. McAfee will provide this value to partner
partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request
partnerPreProvisionRefId	String	The pre-provision reference identifier generated by McAfee for the pre ProvisionTag sent in the request
PreProvisionStatus	String	Pre-provision status

## 25.6 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/pre-provision?partnerSubRefId=ea88b241-babe-4d8e-adb3-16ef28715464' \  
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtahHhPSUhfVmxjNjJlUaEYoOTZVZyJg.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2X4iNzI6tvAo7KYBB6rqEnJlq8AR27RpjkOqelBzGhi3syjkDTcGWfOTF6icznbybosikQPPmFNQt6Ht7g' \  
--header 'Content-Type: application/json' \  
--header 'X-Channel-Client-Code: 349' \  
--data "
```

## 25.7 SAMPLE RESPONSE

```
{
  "data": {
    "preProvisionTag": "b531c584-5573-42f2-88f1-4bbfeced8d9",
    "partnerOrderRefId": "ad5acdfo-9253-47de-b340-406675a2cb21",
    "user": {
      "userTag": "129cf799-479b-414e-a494-of267fa5ccce",
      "partnerUserRefId": "fe6094c8-degd-4e5e-91e3-6e89oe218026"
    },
    "channelClientCode": 349,
    "partnerSubRefId": "6acb6666-335e-42d6-9c18-479ac211bo5a",
    "partnerPreProvisionRefId": "0a47aab9-9c98-4316-9ab9-c3fo18189961",
    "preProvisionStatus": "ACTIVE"
  }
}
```

## 25.8 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```
{
  "errors": [
    {
      "code": "INVALID_PREPROVISIONTAG_OR_PARTNERSUBREFID",
      "reason": "Either preProvisionTag or partnerSubRefId must be provided",
      "datetime": {
        "value": "2023-11-29T13:03:09.720Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-29T13:03:09.721Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}
```

## 25.9 POSSIBLE ERROR MESSAGES

Http Stat us Code	Code	Reason
400	INVALID_PREPROVISIONTAG_OR_PARTNERSUBREFID	Either preProvisionTag or partnerSubRefId must be provided
404	PARTNER_PRE_PROVISION_DOES_NOT_EXIST	PreProvision does not exist
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'
500	PARTNER_PRE_PROVISION_LOOKUP_FAILED	Partner Pre Provision Lookup plugin failed



---

## 26 API - CANCEL PRE-PROVISION

### 26.1 DESCRIPTION

This section provides specifics and examples of a partner's request to terminate or discontinue the preliminary set-up or provisioned information within McAfee's system for a customer. Partners will transmit customer and product information in JSON format using the DELETE API method.

### 26.2 END POINT

- `/v1/pre-provision/{partnerPreProvisionRefId}`

### 26.3 ROUTE & HEADER PARAMETERS

HTTP Method	DELETE
Header Section	see section ' <a href="#">Authentication</a> '

### 26.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
partnerPreProvisionRefId	String	50	A unique identifier in partner system to identify a pre provision details for a subscription	No

### 26.5 RESPONSE SCHEMAS

- 204 with no content

### 26.6 SAMPLE REQUEST

```
curl --location --request DELETE 'https://stg.apis.mcafee.com/b2b/v1/pre-provision/3b096770-f1a2-4a5b-a222-1cbc94081850' \  
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6Im9taHhPSUhfVmxjNjJlUaEYoOTZVZyJ9.eyJpc3MiOiJodH\  
--header 'Content-Type: application/json' \  
--header 'X-Channel-Client-Code: 349' \  
--data '{  
  "userTag": "gadcdf3b-g2ef-4db5-816a-dc16b9a298d1"  
}'
```

### 26.7 SAMPLE RESPONSE

204 with no content

### 26.8 SAMPLE ERROR RESPONSE

HTTP/1.1      400 Bad Request

```

{
  "errors": [
    {
      "code": "REQUIRE_USER_TAG",
      "reason": "UserTag is required",
      "datetime": {
        "value": "2023-11-29T14:14:57.207Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-29T14:14:57.209Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}

```

## 26.9 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	USER_TAG_NOT_FOUND	No user found for given userTag
404	Entity Not Found	No 'value' found for Id: '{channelClientCode}'

## 27 API - QUERY USER DEVICES

### 27.1 DESCRIPTION

This section provides specifics and examples of a partner's request to retrieve information about devices associated with a specific subscription and customer within the McAfee system or exclusively at the customer level by providing the required attributes.

### 27.2 END POINT

- `/v1/partner-users/devices?userTag={userTag}`

### 27.3 ROUTE & HEADER PARAMETERS

HTTP Method	GET
Header Section	see section ' <a href="#">Authentication</a> '

### 27.4 QUERY PARAMETERS

Field	Type	Size	Description	Mandatory
userTag	String	100	Unique id identifies user/customer in the partner system	Yes

### 27.5 RESPONSE SCHEMAS

Field	Type	Description
channelClientCode	Integer	A unique id identifying the partner. McAfee will provide this value to partner

Field	Type	Description
devices[].user.parnterUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
devices[].user.userTag	String	User tag sent in the request
devices[].user.firstName	String	First name of the user
devices[].user.lastName	String	Last name of the user
devices[].subscriptions[].activationRefId	String	Unique activation identifier generated at the time of device activation
devices[].subscriptions[].activationStatus	String	Status of device activation
devices[].subscriptions[].activationTime	Integer	Device activation time
devices[].subscriptions[].deactivationTime	Integer	Device de-activation time
devices[].subscriptions[].deviceActivationFirstSeenTime	Integer	Device activation first seen time
devices[].subscriptions[].deviceActivationLastSeenTime	Integer	Device activation last sync time
devices[].subscriptions[].partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request
devices[].name	String	Device name
devices[].deviceRefId	String	Unique identifier for the device created by McAfee
devices[].type	String	Device type
devices[].platform	String	Device operating system platform
devices[].platformVersion	String	Device operating system version
devices[].OsLocale	String	Device operating system
devices[].manufacturerModel	String	Device's manufacturer model
devices[].manufacturerName	String	Device manufacturer name
devices[].platformUniformId	String	Unique platform identifier
devices[].deviceFirstSeenTime	Integer	Device first sync time
devices[].deviceLastSeenTime	Integer	Device last sync time
devices[].uninstalledTime	Integer	Device uninstallation time
devices[].installedTime	Integer	Device installation time
devices[].aliasName	String	Device alias name
devices[].cspClientId	String	Device CSP client identifier

## 27.6 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/partner-users/devices?userTag=3de71218-142e-4a38-926b-74a5f8b831e8'\
--header 'Authorization: bearer
eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtbHhPSUhfVmxjNjJuaEY0OTZVZyJ9.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2
f4iMz_xaGHcOQ88vJY3oy-DdQI_JHJqjGp1LguGY5V25NgDE2zclVLSNg8gW4_ki3CW-dXdGM9fWY2FcOqXYZLhVXU-
nD4VxUyXo88eSIEbFvqyHV5zb6RgXY1g1x83QWDNa3XFfsAtXnodwLiLiRjNPvXhWy4WA'\
--header 'X-Channel-Client-Code: 349'
```

## 27.7 SAMPLE RESPONSE

```
{
  "data": {
    "channelClientCode": 349,
    "devices": [
      {
        "user": {
          "partnerUserRefId": "e952cf33-7f3d-42f9-83a4-8f71124a5402",
          "userTag": "3de71218-142e-4a38-g26b-74a5f8b831e8",
          "firstName": "jygwju",
          "lastName": "oikyjx"
        },
        "subscriptions": [
          {
            "activationRefId": "79df68a2-9003-11ee-a4be-825e9c92bc99",
            "activationStatus": "ACTIVATED",
            "activationTime": 1689738444000,
            "deactivationTime": 0,
            "deviceActivationFirstSeenTime": 1701405509905,
            "deviceActivationLastSeenTime": 1701405509905,
            "partnerSubRefId": "4ebbe389-a345-4d86-9f13-a7e348bo6dc2"
          }
        ],
        "name": "Device-1701405486",
        "deviceRefId": "6ba841ac-9003-11ee-af37-d2f35b21dd9f",
        "type": "MOBILE",
        "platform": "IOS",
        "platformVersion": "iPadOS 15.3.1",
        "osLocale": "TH",
        "manufacturerModel": "Apple A10",
        "manufacturerName": "Apple",
        "platformUniqueId": "90611a4d-bf20-4dbf-b697-4a7ece9ef567",
        "deviceFirstSeenTime": 1701405486055,
        "deviceLastSeenTime": 1701405486055,
        "uninstalledTime": 0,
        "installedTime": 1689658652000,
        "aliasName": "Device-1701405486",
        "cspClientId": null,
        "details": []
      }
    ]
  }
}
```

## 27.8 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```
{
  "errors": [
    {
      "code": "NO_PARTNER_USER_MAPPING_FOUND",
      "reason": "No partner user mapping found in lookup",
      "datetime": {
        "value": "2023-12-01T05:51:39.334Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-12-01T05:51:39.336Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}
```

## 27.9 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'
400	REQUIRE_USER_TAG	UserTag is required
400	NO_PARTNER_USER_MAPPING_FOUND	No partner user mapping found in lookup

## 28 API - QUERY USER SUBSCRIPTION DEVICE

### 28.1 DESCRIPTION

This section provides specifics and examples of a partner's request to retrieve information about devices associated with a specific subscription and customer within the McAfee by providing the required attributes.

### 28.2 END POINT

- `/v1/subscriptions/{partnerSubRefId}/devices?userTag={userTag}`

### 28.3 ROUTE & HEADER PARAMETERS

HTTP Method	GET
Header Section	see section ' <a href="#">Authentication</a> '

### 28.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
partnerSubRefId	String	50	The subscription identifier generated by McAfee for each subscription sent in the request	Yes

### 28.5 QUERY PARAMETERS

Field	Type	Size	Description	Mandatory
userTag	String	100	Unique id identifies user/customer in the partner system	Yes

### 28.6 RESPONSE SCHEMAS

Field	Type	Description
channelClientCode	Integer	A unique id identifying the partner. McAfee will provide this value to partner
devices[].user.parnterUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
devices[].user.userTag	String	User tag sent in the request
devices[].user.firstName	String	First name of the user
devices[].user.lastName	String	Last name of the user
devices[].name	String	Device name
devices[].deviceRefId	String	Unique identifier for the device created by McAfee
devices[].type	String	Device type
devices[].platform	String	Device operating system platform

Field	Type	Description
devices[].platformVersion	String	Device operating system version
devices[].OsLocale	String	Device operating system
devices[].manufacturerModel	String	Device's manufacturer model
devices[].manufacturerName	String	Device manufacturer name
devices[].platformUniformId	String	Unique platform identifier
devices[].deviceFirstSeenTime	Integer	Device first sync time
devices[].deviceLastSeenTime	Integer	Device last sync time
devices[].uninstalledTime	Integer	Device uninstallation time
devices[].installedTime	Integer	Device installation time
devices[].aliasName	String	Device alias name
devices[].cspClientId	String	Device CSP client identifier

## 28.7 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/subscriptions/4ebbe389-a345-4d86-9f13-a7e348bo6dc2/devices?userTag=3de71218-142e-4a38-926b-74a5f8b831e8'\
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtbHhPSUhfVmxjNjJUaEYoOTZVZyJg.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2nD4VxUyXo88eSIEbfVqyHV52b6RgXY191lx83QWDNa3XFfsAtXnodwLiLRjNPvXhWy4WA'\
--header 'X-Channel-Client-Code: 349'
```

## 28.8 SAMPLE RESPONSE

```
{
  "data": {
    "channelClientCode": 349,
    "devices": [
      {
        "user": {
          "partnerUserRefId": "e952cf33-7f3d-42f9-83a4-8f71124a5402",
          "userTag": "3de71218-142e-4a38-926b-74a5f8b831e8",
          "firstName": "jygwjju",
          "lastName": "oikyjx"
        },
        "activationRefId": "79df68a2-9003-11ee-a4be-825e9c92bc99",
        "activationStatus": "ACTIVATED",
        "activationTime": 1689738444000,
        "deactivationTime": 0,
        "deviceActivationFirstSeenTime": 1701405509905,
        "deviceActivationLastSeenTime": 1701405509905,
        "partnerSubRefId": "4ebbe389-a345-4d86-9f13-a7e348bo6dc2",
        "name": "Device-1701405486",
        "deviceRefId": "6ba841ac-9003-11ee-af37-d2f35b21dd9f",
        "type": "MOBILE",
        "platform": "IOS",
        "platformVersion": "IPadOS 15.3.1",
        "osLocale": "TH",
        "manufacturerModel": "Apple A10",
        "manufacturerName": "Apple",
        "platformUniqueId": "90611a4d-bf20-4dbf-b697-4a7ece9ef567",
        "deviceFirstSeenTime": 1701405486055,
        "deviceLastSeenTime": 1701405486055,
        "uninstalledTime": 0,
        "installedTime": 1689658652000,
        "aliasName": "Device-1701405486",
        "cspClientId": null,
        "details": []
      }
    ]
  }
}
```

## 28.9 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```
{
  "errors": [
    {
      "code": "NO_PARTNER_USER_MAPPING_FOUND",
      "reason": "No partner user mapping found in lookup",
      "datetime": {
        "value": "2023-12-01T05:51:16.085Z",
        "timezone": "UTC"
      }
    },
    {
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-12-01T05:51:16.086Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}
```

## 28.10 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	REQUIRE_USER_TAG	UserTag is required
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'
400	INVALID_USER_REF_ID_AND_SUB_REF_ID_COMBINATION	UserRefId and SubRefId combination is invalid
400	INVALID_PARTNER_SUB_REF_ID	PartnerSubRefID is invalid

## 29 API - QUERY BY DEVICE IDENTIFIER

### 29.1 DESCRIPTION

This section offers specifics and examples of a partner's request to retrieve information about devices associated with a specific activation identifier for a customer within the McAfee system by providing the necessary attributes.

### 29.2 END POINT

- `/v1/device-activations/{activationRefId}?userTag={userTag}`

### 29.3 ROUTE & HEADER PARAMETERS

HTTP Method	GET
Header Section	see section ' <a href="#">Authentication</a> '

### 29.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
activationRefId	String	50	The device activation identifier generated by McAfee for each device activation time	Yes

## 29.5 QUERY PARAMETERS

Field	Type	Size	Description	Mandatory
userTag	String	100	Unique id identifies user/customer in the partner system	Yes

## 29.6 RESPONSE SCHEMAS

Field	Type	Description
channelClientCode	Integer	A unique id identifying the partner. McAfee will provide this value to partner
devices[].user.parnterUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
devices[].user.userTag	String	User tag sent in the request
devices[].user.firstName	String	First name of the user
devices[].user.lastName	String	Last name of the user
devices[].subscriptions[].activationRefId	String	Unique activation identifier generated at the time of device activation
devices[].subscriptions[].activationStatus	String	Status of device activation
devices[].subscriptions[].activationTime	Integer	Device activation time
devices[].subscriptions[].deactivationTime	Integer	Device de-activation time
devices[].subscriptions[].deviceActivationFirstSeenTime	Integer	Device activation first seen time
devices[].subscriptions[].deviceActivationLastSeenTime	Integer	Device activation last sync time
devices[].subscriptions[].partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request
devices[].name	String	Device name
devices[].deviceRefId	String	Unique identifier for the device created by McAfee
devices[].type	String	Device type
devices[].platform	String	Device operating system platform
devices[].platformVersion	String	Device operating system version
devices[].OsLocale	String	Device operating system
devices[].manufacturerModel	String	Device's manufacturer model
devices[].manufacturerName	String	Device manufacturer name
devices[].platformUniformId	String	Unique platform identifier
devices[].deviceFirstSeenTime	Integer	Device first sync time
devices[].deviceLastSeenTime	Integer	Device last sync time
devices[].uninstalledTime	Integer	Device uninstallation time
devices[].installedTime	Integer	Device installation time
devices[].aliasName	String	Device alias name
devices[].cspClientId	String	Device CSP client identifier

## 29.7 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/device-activations/79df68a2-9003-11ee-a4be-825e9c92bc99?userTag=3de71218-142e-4a38-g26b-74a5f8b831e8'\
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtbGtaHhPSUhfVmxjNjJUaEY0OTZVZyJg.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2nD4VxUyXo88eSIEbFvqyHV52b6RgXY191x83QWDN3XFfsAtXnodwLiLRjNPvXhWy4WA'\
--header 'X-Channel-Client-Code: 349'
```



## 29.8 SAMPLE RESPONSE

```
{
  "data": {
    "channelClientCode": 349,
    "device": {
      "user": {
        "partnerUserRefId": "e952cf33-7f3d-42f9-83a4-8f71124a5402",
        "userTag": "3de71218-142e-4a38-926b-74a5f8b831e8",
        "firstName": "jygwju",
        "lastName": "oikyjx"
      },
      "subscriptions": [
        {
          "activationRefId": "79df68a2-9003-11ee-a4be-825e9c92bc99",
          "activationStatus": "ACTIVATED",
          "activationTime": 1689738444000,
          "deactivationTime": 0,
          "deviceActivationFirstSeenTime": 1701405509905,
          "deviceActivationLastSeenTime": 1701405509905,
          "partnerSubRefId": "4ebbe389-a345-4d86-9f13-a7e348bo6dc2"
        }
      ],
      "name": "Device-1701405486",
      "deviceRefId": "6ba841ac-9003-11ee-af37-d2f35b21dd9f",
      "type": "MOBILE",
      "platform": "IOS",
      "platformVersion": "iPadOS 15.3.1",
      "osLocale": "TH",
      "manufacturerModel": "Apple A10",
      "manufacturerName": "Apple",
      "platformUniqueId": "90611a4d-bf20-4dbf-b697-4a7ece9ef567",
      "deviceFirstSeenTime": 1701405486055,
      "deviceLastSeenTime": 1701405486055,
      "uninstalledTime": 0,
      "installedTime": 1689658652000,
      "aliasName": "Device-1701405486",
      "cspClientId": null,
      "details": []
    }
  }
}
```

## 29.9 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```
{
  "errors": [
    {
      "code": "NO_PARTNER_USER_MAPPING_FOUND",
      "reason": "No partner user mapping found in lookup",
      "datetime": {
        "value": "2023-12-01T05:50:52.808Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-12-01T05:50:52.809Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}
```

## 29.10 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	REQUIRE_USER_TAG	UserTag is required
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'
400	ACTIVATION_REF_ID_NOT_MATCHED	ActivationRefId not matched
400	NO_PARTNER_USER_MAPPING_FOUND	No partner user mapping found in lookup

## 30 API - UPDATE DEVICE

### 30.1 DESCRIPTION

This section offers details and examples of partner requests aimed at modifying the status of an existing device within the McAfee system. This process includes actions such as deactivating, activating, or completely removing a device from its association with a specific account.

### 30.2 END POINT

- `/v1/device-activations/{activationRefId}?userTag={userTag}`

### 30.3 ROUTE & HEADER PARAMETERS

HTTP Method	PATCH
Header Section	see section ' <a href="#">Authentication</a> '

### 30.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
activationRefId	String	50	The device activation identifier generated by McAfee for each device activation time	Yes

### 30.5 QUERY PARAMETERS

Field	Type	Size	Description	Mandatory
userTag	String	100	Unique id identifies user/customer in the partner system	Yes

### 30.6 REQUEST BODY SCHEMAS

Field	Type	Size	Description	Mandatory
Status	String	15	Status of the device	Yes

### 30.7 RESPONSE SCHEMAS

Field	Type	Description
channelClientCode	Integer	A unique id identifying the partner. McAfee will provide this value to partner
devices[].user.parnterUserRefId	String	The User identifier generated by McAfee to identify Partner userTag uniquely
devices[].user.userTag	String	User tag sent in the request

Field	Type	Description
devices[].user.firstName	String	First name of the user
devices[].user.lastName	String	Last name of the user
devices[].subscriptions[].activationRefId	String	Unique activation identifier generated at the time of device activation
devices[].subscriptions[].activationStatus	String	Status of device activation
devices[].subscriptions[].activationTime	Integer	Device activation time
devices[].subscriptions[].deactivationTime	Integer	Device de-activation time
devices[].subscriptions[].deviceActivationFirstSeenTime	Integer	Device activation first seen time
devices[].subscriptions[].deviceActivationLastSeenTime	Integer	Device activation last sync time
devices[].subscriptions[].partnerSubRefId	String	The subscription identifier generated by McAfee for each subscription sent in the request
devices[].name	String	Device name
devices[].deviceRefId	String	Unique identifier for the device created by McAfee
devices[].type	String	Device type
devices[].platform	String	Device operating system platform
devices[].platformVersion	String	Device operating system version
devices[].OsLocale	String	Device operating system
devices[].manufacturerModel	String	Device's manufacturer model
devices[].manufacturerName	String	Device manufacturer name
devices[].platformUniformId	String	Unique platform identifier
devices[].deviceFirstSeenTime	Integer	Device first sync time
devices[].deviceLastSeenTime	Integer	Device last sync time
devices[].uninstalledTime	Integer	Device uninstallation time
devices[].installedTime	Integer	Device installation time
devices[].aliasName	String	Device alias name
devices[].cspClientId	String	Device CSP client identifier

### 30.8 SAMPLE REQUEST

```
curl --location --request PATCH 'https://stg.apis.mcafee.com/b2b/v1/device-activations/79df68a2-9003-11ee-a4be-825e9c92bc99?userTag=3de71218-142e-4a38-926b-74a5f8b831e8' \
--header 'Authorization: bearer eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6Im9taHhPSUhfVmxjNjJUaEYoOTZVZyJg.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2nD4VxUyXo88eSIEbFvqyHV52b6RgXY191x83QWDNa3XFfsAtXnodwLiLiRjNPvXhWy4WA' \
--header 'Content-Type: application/json' \
--header 'X-Channel-Client-Code: 349' \
--data '{
  "status": "DEACTIVATED"
}'
```

## 30.9 SAMPLE RESPONSE

```
{
  "data": {
    "channelClientCode": 349,
    "device": {
      "user": {
        "partnerUserRefId": "e952cf33-7f3d-42f9-83a4-8f71124a5402",
        "userTag": "3de71218-142e-4a38-926b-74a5f8b831e8",
        "firstName": "jygwju",
        "lastName": "oikyjx"
      },
      "subscriptions": [
        {
          "activationRefId": "79df68a2-9003-11ee-a4be-825egc92bc99",
          "activationStatus": "DEACTIVATED",
          "activationTime": 1689738444000,
          "deactivationTime": 1701410822352,
          "deviceActivationFirstSeenTime": 1701405509905,
          "deviceActivationLastSeenTime": 1701405509905,
          "partnerSubRefId": "4ebbe389-a345-4d86-9f13-a7e348b06dc2"
        }
      ],
      "name": "Device-1701405486",
      "deviceRefId": "6ba841ac-9003-11ee-af37-d2f35b21dd9f",
      "type": "MOBILE",
      "platform": "IOS",
      "platformVersion": "IPadOS 15.3.1",
      "osLocale": "TH",
      "manufacturerModel": "Apple A10",
      "manufacturerName": "Apple",
      "platformUniqueId": "90611a4d-bf20-4dbf-b697-4a7ecegef567",
      "deviceFirstSeenTime": 1701405486055,
      "deviceLastSeenTime": 1701405486055,
      "uninstalledTime": 0,
      "installedTime": 1689658652000,
      "aliasName": "Device-1701405486",
      "cspClientId": null,
      "details": []
    }
  }
}
```

## 30.10 SAMPLE ERROR RESPONSE

HTTP/1.1      400 Bad Request

```
{
  "errors": [
    {
      "code": "NO_PARTNER_USER_MAPPING_FOUND",
      "reason": "No partner user mapping found in lookup",
      "datetime": {
        "value": "2023-12-01T06:13:15.952Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-12-01T06:13:15.953Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}
```

### 30.11 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	REQUIRE_USER_TAG	UserTag is required
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'
400	INVALID_ACTIVATION_STATUS	Activation status is invalid

## 31 API - CREATE SERIAL KEY (PRODUCT KEY)

### 31.1 DESCRIPTION

This section provides specifics and examples of a partner's request to generate a unique 5x5 key utilized to initiate subscription creation within the McAfee system. This key enables users to redeem and create the subscription on the McAfee ecommerce website. Partners will transmit product information in JSON format using the POST API method.

### 31.2 END POINT

- `/v1/ecodekeys`

### 31.3 ROUTE & HEADER PARAMETERS

HTTP Method	POST
Header Section	see section <a href="#">'Authentication'</a>

### 31.4 REQUEST BODY SCHEMAS

Field	Type	Size	Description	Mandatory
planClientCode	String	29	A unique id to identify the plan	Yes
Size	Integer	2	Number of keys to be created in this request	Yes

### 31.5 RESPONSE SCHEMAS

Field	Type	Description
keys[].productKey	String	Serial Key or Ecard key which user can redeem in McAfee website to create subscription
keys[].redemptionUrl	String	Redirect the user to redeem the key

### 31.6 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/ecodeKeys'\
--header 'X-Channel-Client-Code: 349'\
--header 'Content-Type: application/json'\
--header 'Authorization: bearer
eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtbG9taHhPSUhfVmxiNjJlUaEYoOTZVZyJg.eyJpc3MiOiJodHRwczovL2lkczRnLm1jYWZlZS5jb2
QGsmTvtjWCyio6DLGhn5yniHhr4BDAs4O5Hv5dJDO_gNeEpOKIso1FEr3dw'\
--data '{
  "size": 1,
  "planClientCode": "666_1YEAR_BASE_PAID_AR"
}'
```

### 31.7 SAMPLE RESPONSE

```

{
  "data": {
    "keys": [
      {
        "productKey": "HMCYC-ANZ4S-TZ497-PSKCF-BDWSS",
        "redemptionUrl": "https://www.mcafee.com/redeem/activationcode?key=yEoqdHc446tNf3Tq2xmd2Kc1s8A8fZLkeK7OKztNgRc%3D"
      }
    ]
  }
}

```

### 31.8 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

Bad Request

### 31.9 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	INVALID_SIZE	Invalid key size
400	Expected number, received string	
400	REQUIRE_PLAN_CLIENT_CODE	Plan Client Code is required
400	Entity Not Found	No 'value' found for Id: '{planClientCode}'
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'

## 32 API - QUERY SERIAL KEY (PRODUCT KEY)

### 32.1 DESCRIPTION

This section outlines specifics and examples of a partner's request to retrieve details of a serial key (product key or ecard key) by providing the necessary attributes. This key enables partners to ascertain its status, whether it's redeemed or not, and any linked subscriptions within the McAfee system, if such associations exist. Partners will transmit product information in JSON format using the GET API method.

### 32.2 END POINT

- `/v1/ecodekeys/{productKey}`

### 32.3 ROUTE & HEADER PARAMETERS

HTTP Method	GET
Header Section	see section ' <a href="#">Authentication</a> '

### 32.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
productKey	String	29	Serial Key or Ecard key which user can redeem in McAfee website to create subscription which can queried to status	Yes

## 32.5 RESPONSE SCHEMAS

Field	Type	Description
keyStatus	String	Product key status
redeemedDate	Integer	Product key redeemed date in epoch format
channelClientCode	String	Product key belongs to which partner
planClientCode	String	Product key belongs to plan
isInstalled	Boolean	Shows true or false based key's subscription installed in user's device

## 32.6 SAMPLE REQUEST

```
curl --location 'https://stg.apis.mcafee.com/b2b/v1/ecodeKeys/EBYXY-ZGWWH-HSRDP-W4SMW-BNPYQ'\
--header 'X-Channel-Client-Code: 349'\
--header 'Content-Type: application/json'\
--header 'Authorization: bearer
eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6Im9taHhPSUhfVmxjNjJlUaEYOTZVZyJ9.eyJpc3MiOiJodHRwczovL2lkczRnLm91YjZlZS5jb2
QGsmTvtjWCyio6DLGhnsyniHhr4BDAs4O5Hv5dJDO_gNeEpOKIso1FEr3dw'
```

## 32.7 SAMPLE RESPONSE

```
{
  "data": {
    "keyStatus": "UNUSED",
    "redeemedDate": null,
    "channelClientCode": "349",
    "planClientCode": "666_1YEAR_BASE_PAID_AR",
    "isInstalled": false
  }
}
```

## 32.8 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request

```
{
  "errors": [
    {
      "code": "INVALID_KEY_FORMAT",
      "reason": "Key format is invalid",
      "datetime": {
        "value": "2023-11-28T18:31:51.734Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-28T18:31:51.735Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}
```

## 32.9 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	INVALID_KEY_FORMAT	Key format is invalid
400	Entity Not Found	No 'value' found for Id: '{channelClientCode}'

## 33 API - UPDATE SERIAL KEY (PRODUCT KEY)

### 33.1 DESCRIPTION

This section provides specifics and examples of a partner's request to update the details of a serial key (product key or ecard key) by providing the necessary attributes. This request transitions the key status to inactive if unredeemed or cancels the subscription, maintaining its current status if already associated with a subscription. Partners will transmit product information in JSON format using the PATCH API method.

### 33.2 END POINT

- `/v1/ecodekeys/{productKey}`

### 33.3 ROUTE & HEADER PARAMETERS

HTTP Method	PATCH
Header Section	see section ' <a href="#">Authentication</a> '

### 33.4 PATH PARAMETERS

Field	Type	Size	Description	Mandatory
productKey	String	29	Serial Key or Ecard key which user can redeem in McAfee website to create subscription which can queried to status	Yes

### 33.5 RESPONSE SCHEMAS

- 200 status with no content

### 33.6 SAMPLE REQUEST

```
curl --location --request PATCH 'https://stg.apis.mcafee.com/b2b/v1/ecodeKeys/EBYXY-ZGWWH-HSRDP-W4SMW-BNPYQ'\
--header 'Content-Type: application/json' \
--header 'Authorization: bearer
eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImgtbHhPSUhfVmxjNjJUaEY0OTZVZyJg.eyJpc3MiOiJodHRwczovLzlkczRnLm1jYWZlZS5jb2
QGsmTvtjWCyio6DLGhnsyniiHhr4BDAs4O5Hv5dJDO_gNeEpOKIso1FEr3dw'\
--header 'X-Channel-Client-Code: 349'
```

### 33.7 SAMPLE RESPONSE

OK

### 33.8 SAMPLE ERROR RESPONSE

HTTP/1.1 400 Bad Request



```

{
  "errors": [
    {
      "code": "INVALID_KEY_FORMAT",
      "reason": "Key format is invalid",
      "datetime": {
        "value": "2023-11-29T05:51:29.191Z",
        "timezone": "UTC"
      },
      "rootCause": [
        {
          "code": "INTERNAL_SERVER_ERROR",
          "reason": "ValidationError",
          "datetime": {
            "value": "2023-11-29T05:51:29.193Z",
            "timezone": "UTC"
          }
        }
      ]
    }
  ]
}

```

### 33.9 POSSIBLE ERROR MESSAGES

Http Status Code	Code	Reason
400	INVALID_KEY_FORMAT	Key format is invalid
400	BAD_REQUEST	One of the subscriptions is already cancelled.

## 34 BUSINESS USECASES - SERVICE PROVIDER PARTNER

This use case will cover partners who are providing McAfee solutions as a service.

This service is provided by the partner to the customer as a monthly recurring subscription where the customer can subscribe and cancel at any time.

The partner will take care of the subscription transaction such as creation, cancellation, etc., and bill the customer monthly. The partner will also query the subscription status to retrieve information about the subscription and update the subscription information about the customer or the service provided.

To work with McAfee APIs, the partner will receive:

- Credentials to authenticate / retrieve the tokens.
  - API key
  - Secret
- The URLs to call for each use case described below.
- The SKU/plan to use in the provisioning call.
  - SKU/Plan value

### 34.1 SUBSCRIPTION CREATION

A customer is purchasing a McAfee subscription through the partner sales channels (shop, online, incoming/outgoing call). Partner creates the subscription by calling McAfee provisioning API.

### 34.1.1 PRIOR PROCESS TO CREATE A SUBSCRIPTION

#### Finalize SKU / PlanClientCode:

A unique identifier linked to a particular package. This involves validating and confirming various details such as product specifications, pricing information, categorization, and other relevant attributes.

For instance, consider the package named "McAfee Multi Access 5 Devices (MMA – 5 Devices)," a commonly employed package by partners for their customers, offering a versatile range of plans. This package encompasses multiple individual products that can be configured for a partner by McAfee.

Some of the notable products included in this package are: *Secure VPN, Web Protection, McAfee Assist – Protection Setup, Password manager, System scan, Protection score, File Shredder, Parental Controls, Antivirus, Bank Account number, Credit card number Monitoring, etc.,*

McAfee's flexibility in configuring these individual products within the package allows partners to provide a customized and robust cybersecurity solution to their customers.

#### Generate Access Token:

McAfee configures and provides unique Client Identifier and Secret to their partners with an endpoint to generate token as described in the section [How to Obtain Auth-Token](#). The endpoints provide the access token, token type and duration of token validity. This process allows partners to securely obtain access tokens, facilitating authenticated access to McAfee's APIs.

#### Input to the APIs:

After the finalizing the SKU and generating the token, the subsequent steps involve supplying customer and subscription details, including userTag, first name, last name, email address, and subscriptionTag, to integrate and initiate the subscription creation process.

### 34.1.2 SYSTEM INTEGRATION

#### Subscription Creation:

Following the completion of prior steps, the data provided in the request empowers Partner to initiate the creation of the subscription with McAfee, associating it with the specified customer and SKU. This process streamlines subscription management, as detailed in the [API - Provision](#) section.

A successfully created subscription establishes the necessary identifier in the McAfee system based on each partner's inputs. A successful subscription creates an identifier (partnerUserRefId for userTag and PartnerSubRefId for a subscription) in McAfee's system, to store at the partner's backend for future management and facilitating interaction between McAfee and the Partner system for a subscription.

It empowers the partner to execute actions like renewal, transitioning (upgrade, downgrade, cancellation), generating activation codes, and notifying changes in subscription and device levels.

### 34.2 SUBSCRIPTION CANCELLATION

A customer who purchased a McAfee subscription through Partner channels is cancelling his subscription.

To cancel the subscription, the Partner follows the instructions in the "[API - Cancel Subscription](#)" section, utilizing the subscription identifier to complete the cancellation.

### 34.3 SUBSCRIPTION STATUS

A customer has purchased a McAfee subscription, and the partner is checking if the customer has used the subscription.

To verify subscription status and device details, ensuring customer utilization of the McAfee subscription, the partner uses the "[API - Query User Subscription Device](#)" instructions with the subscription identifier to retrieve subscription device details.

### 34.4 SUBSCRIPTION UPDATE

The partner wants to trade-up the subscription purchased by a customer with a new one.

The partner wants to upgrade the customer's subscription to a better plan with enhanced features. They utilize the stored identifier generated during subscription creation to perform trade-up according to the "[API - Update Subscription](#)" section, ensuring a seamless upgrade experience for the customer.

---

## 35 BUSINESS USE CASES - RETAIL PARTNER

This use case will cover partners who are providing Authorized McAfee resellers which includes, ESD via RSN and one-click links, TechBench via DSN or DownloadURL which will include Term and Perpetual subscriptions.

### 35.1 SUBSCRIPTION CREATION

A customer is purchasing a McAfee subscription through the partner sales channels (shop, online, incoming/outgoing call). Partner creates the subscription by calling McAfee provisioning API. The API returns a DSN (Activation Code).

#### 35.1.1 PRIOR PROCESS TO CREATE A SUBSCRIPTION

Finalize SKU / PlanClientCode:

A unique identifier linked to a particular package. This involves validating and confirming various details such as product specifications, pricing information, categorization, and other relevant attributes.

For instance, consider the package named "McAfee LiveSafe (MLS)," a commonly employed package by partners for their customers, offering a versatile range of plans. This package encompasses multiple individual products that can be configured for a partner by McAfee.

Some of the notable products included in this package are: *Antivirus, Secure VPN, Web Protection, Password manager, System scan, Protection score, File Shredder, Parental Controls, , Bank Account number, Credit card number Monitoring, Online Account Cleanup, etc.,*

McAfee's flexibility in configuring these individual products within the package allows partners to provide a customized and robust cybersecurity solution to their customers. Plans can be categorized as perpetual or regular, providing customization options at the partner level.

#### Generate Access Token:

McAfee configures and provides unique Client Identifier and Secret to their partners with an endpoint to generate token as described in the section [How to Obtain Auth-Token](#). The endpoints provide the access token, token type and duration of token validity. This process allows partners to securely obtain access tokens, facilitating authenticated access to McAfee's APIs.

#### Input to the APIs:

After finalizing the SKU and generating the token, the subsequent steps involve supplying customer and subscription details, including userTag, first name, last name, email address, and subscriptionTag, to integrate and initiate the subscription creation process.

### **35.1.2 SYSTEM INTEGRATION**

#### Subscription Creation:

After completing prerequisite steps, the provided data empowers partners to create McAfee subscriptions, associating them with specified customers and SKUs. This process streamlines subscription management, as detailed in the [API - Provision](#) section.

A successfully created subscription establishes the necessary identifier in the McAfee system based on each partner's inputs. A successful subscription creates an identifier (partnerUserRefId for userTag and PartnerSubRefId for a subscription) in McAfee's system, to store at the partner's backend for future management and facilitating interaction between McAfee and the Partner system for a subscription.

It empowers the partner to execute actions like renewal, transitioning (upgrade, downgrade, cancellation), generating activation codes, and notifying changes in subscription and device levels.

### **35.2 SUBSCRIPTION CANCELLATION**

A customer who purchased a McAfee subscription through the partner channels is cancelling his subscription. This applies to subscription belongs to Term within 30 days or Perpetual anytime during the subscription period.

To cancel the subscription, the Partner follows the instructions in the "[API - Cancel Subscription](#)" section, utilizing the subscription identifier to complete the cancellation.

### 35.3 SUBSCRIPTION STATUS

A customer has purchased a McAfee subscription, and the partner is checking if the customer has used the subscription. This will include updates to email addresses.

To verify subscription status and device details, ensuring customer utilization of the McAfee subscription, the partner uses the "[API - Query User Subscription Device](#)" instructions with the subscription identifier to retrieve subscription device details.

### 35.4 SUBSCRIPTION UPDATE

The partner needs to update the customers information to match their system.

The partner wants to renew the customer's subscription using stored identifier generated during subscription creation, following the guidelines outlined in the "[API - Update Subscription](#)".

### 35.5 SUBSCRIPTION TRADE UP

The partner wants to trade-up the subscription purchased by a customer with a new one.

The partner wants to upgrade the customer's subscription to a better plan with enhanced features. They utilize the stored identifier generated during subscription creation to perform trade-up according to the "[API - Update Subscription](#)" section, ensuring a seamless upgrade experience for the customer.

### 35.6 SUBSCRIPTION CREATION 5X5

A customer is purchasing a McAfee subscription through the partner sales channels (shop, online, incoming/outgoing call). Partner generates the Product Key by calling McAfee provisioning API, allowing customer to redeem and activate their subscription. The API provides RSN (Product Key / Serial Key).

#### 35.6.1 PRIOR PROCESS TO CREATE A SUBSCRIPTION

Finalize SKU / PlanClientCode:

A unique identifier linked to a particular package. This involves validating and confirming various details such as product specifications, pricing information, categorization, and other relevant attributes.

For instance, consider the package named "McAfee Total Protection (MTP)," a commonly employed package by partners for their customers, offering a versatile range of plans. This package encompasses multiple individual products that can be configured for a partner by McAfee.

Some of the notable products included in this package are: *Antivirus, Secure VPN, Web Protection, Password manager, System scan, Protection score, File Shredder, Parental Controls, , Bank Account number, Credit card number Monitoring, Online Account Cleanup, Personnel Data Cleanup, etc.,*

### 35.6.2 SYSTEM INTEGRATION

To begin, the Partner follows the steps in the "[API - Create Serial Key \(Product Key\)](#)" to create a Product Key.

### 35.7 SUBSCRIPTION QUERY 5X5

A partner who has customers who have purchased product, needs the ability to query the status of a 5x5 key to see if it has been redeemed or installed. This information will be used by the partner to communicate with the customer to encourage utilization.

To initiate the process, the Partner follows the outlined steps explaining in the "[API - Create Query Key \(Product Key\)](#)" to retrieve Product Key details, such as its status (used or unused) and any linked devices.

---

## 36 GLOSSARY

Term	Explanation
Account	A customer's account, representing a unique record that tracks their subscription details, payment information, and usage history.
User Tag	A user-specific identifier or label associated with an account. It may be used for organizational or categorization purposes.
Subscription	Agreement between the customer (account holder) and McAfee to receive specific services, such as internet security, for a defined period. The subscription includes details such as the selected security plan, billing information, and any applicable usage limits or entitlements. Customers subscribe to these services to ensure ongoing protection against online threats, viruses, and malware.
Subscription Tag	A subscription specific identifier or label associated with a subscription. It may be used for organizational or categorization purposes.
Order	A request or transaction initiated by the partner to create or modify a subscription plan. It could involve upgrading/downgrading a plan, adding or removing services, etc
Plan	A predefined set of services, features, and pricing offered by the McAfee as part of a subscription.
PlanCode/SKU	A unique code or identifier assigned to a specific plan within McAfee's offerings. This SKU is provided by McAfee to their partners, allowing them to offer and manage distinct plans for their customers. SKUs facilitate inventory management and tracking of details related to different McAfee plans and services within both the McAfee system and the partner system. Partners use these SKUs to accurately represent, sell, and track McAfee's offerings within their own systems, ensuring seamless coordination and understanding of the various plans available to customers.
Pre-Provision	Setting up the account and required configuration in-advance for device onboard
RENEW	The RENEW action refers to extending the duration of an existing subscription. It allows users to continue accessing the services associated with the subscription for an additional period.
UPGRADE	The UPGRADE actions refers users to enhance their existing subscription by moving to a higher plan. This includes changing the subscription plan to access additional features,

	services, or higher resource limits. Upgrading a subscription provides users with a more comprehensive experience based on their evolving requirements.
DOWNGRADE	The DOWNGRADE operation allows users to switch their existing subscription to a lower tier or plan. This action is typically chosen for reasons such as cost reduction or a preference for a more basic level of service. By downgrading a subscription, users can adjust their service level based on evolving needs or financial considerations
RESTART	The RESTART operation involves resuming a subscription that may have been paused, expired, or temporarily suspended. Partners may choose to restart a subscription for their customers after resolving issues that led to the suspension or after a period of inactivity. This operation ensures users can seamlessly continue their subscription after a temporary interruption.